

Monthly Energy Review

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

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

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

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Monthly Energy Review

December 2004

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"Unique Reactors" is a general interest feature on the largest, oldest, newest, and most unusual nuclear reactors in the United States and abroad.

The timeline begins in 1951, when the National Reactor Testing Station in Idaho used the world's first nuclear-provided electricity to light one of its buildings. The source of the power was the Station's Experimental Breeder Reactor-1 (EBR-1), a unit that continued in service until decommissioned in 1964.

Numerous other examples include:

- Russia's Obninsk Nuclear Power Plant, the world's first nuclear power plant, began generating electricity in June 1954.
- The X-39 engine for a proposed atomic-powered bomber was tested in Idaho in 1955 but the project was cancelled before a prototype aircraft could be put into operation.
- The Soviet icebreaker Lenin was the world's first nuclear-powered surface ship.

- The oldest U.S. reactors still producing electricity, Oyster Creek in New Jersey and Nine Mile Point in New York, have been in service since 1969.
- The four largest reactors in the world are all located in France.

The article also covers more recent events:

- The Advanced Test Reactor, described as a "virtual time machine," can duplicate the impact of years of radioactive exposure of materials in a commercial nuclear reactor in weeks or months.
- India has announced that a prototype advanced heavy water reactor is slated for construction. This unique reactor will be fueled by a mix of thorium and uranium and will yield more uranium than it consumes.
- The Severodvinsk Reactor, the world's first commercial floating nuclear power plant, will come online in 2008.

"Unique Reactors" provides links to related materials, including diagrams.

"Unique Reactors" is available on the EIA Web site at eia.doe.gov/cneaf/nuclear/page/nuc_reactors/superla.html. Questions about the contents of "Unique Reactors" should be directed to John Moens, Office of Coal, Nuclear, Electric, and Alternate Fuels, at john.moens@eia.doe.gov or 202–287–1976.

Green Pricing and Net Metering Programs 2003

Green pricing programs allow electricity customers to pay the additional costs for renewable energy through direct payments on their monthly bills. The Energy Information Administration (EIA) collects information on green pricing in a survey of electric industry participants, and reports key facts and trends in "Green Pricing and Net Metering Programs 2003." For example:

- In 2003, the number of electric industry participants reporting customers in green pricing programs was 308, up 45 percent from 2002.
- The number of customers in green pricing programs increased 23 percent nationwide to 877,126 in 2003.
 Residential customers accounted for about 93 percent of the total.
- Participants reported having green pricing customers in forty States, including six States that were reported for the first time in 2003.
- Ohio led in green pricing customers with 428,849 customers, and accounted for nearly 44 percent of the increase over the previous year.

Net metering programs are summarized in the same report from information collected by the EIA. These programs vary by State and utility, but usually apply to very small generators that typically use solar or wind energy. Net metering allows a customer operating a small generator to purchase extra electricity when needed and to sell excess power back to the utility. This arrangement facilitates the operation of intermittent generators, such as those using solar and wind energy, and improves their economics.

Highlights of 2003 results include:

- The number of electric industry participants reporting customers in net metering programs rose to 127 from 96 in 2002.
- The number of customers in net metering programs during 2003 was 6,813, a 52-percent increase over the previous year. Residential customers accounted for 86 percent of the customers in the program.
- Participants reported having net metering customers in thirty-nine States, including four States that were reported for the first time.

"Green Pricing and Net Metering Programs 2003" can be found on the EIA Web site. Under "By Fuel" select "Renewables" and then this title. Questions about the contents of "Green Pricing and Net Metering Programs 2003" should be directed to Louise Guey-Lee, Office of Coal, Nuclear, Electric, and Alternate Fuels, at louise.guey-lee@eia.doe.gov or 202–287–1731. For general information about energy, contact the National Energy Information Center at infoctr@eia.doe.gov or 202–586–8800.

Section 1. Energy Overview

Energy production during September 2004 totaled 5.7 quadrillion Btu, a 0.8-percent decrease compared with the level of production during September 2003. Production of conventional hydroelectric power increased 13.0 percent; crude oil decreased 10.4 percent; natural gas (dry) decreased 4.7 percent; and coal increased 3.2 percent, compared with the level of production during September 2003.

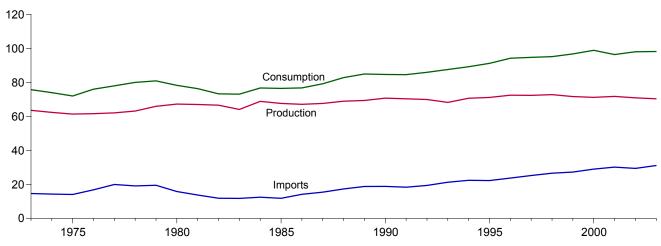
Energy consumption during September 2004 totaled 7.8 quadrillion Btu, a 3.0-percent increase compared with the level of consumption during September 2003. Consumption

of natural gas increased 4.6 percent; nuclear electric power increased 3.6 percent; petroleum increased 2.4 percent; and coal increased 1.3 percent, compared with the level 1 year earlier.

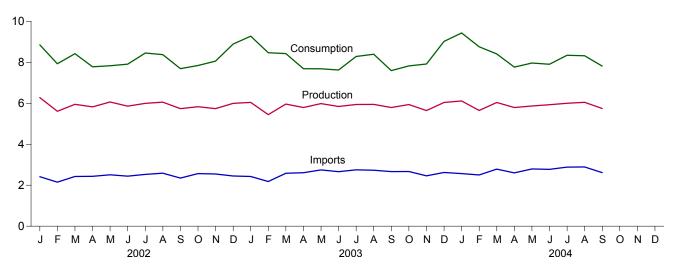
Net imports of energy during September 2004 totaled 2.3 quadrillion Btu, 3.1 percent below the level of net imports 1 year earlier. Petroleum products net imports increased 20.3 percent; crude oil net imports decreased 6.3 percent; natural gas net imports decreased 1.8 percent; and coal net exports were the same, compared with the level in September 2003.

Figure 1.1 **Energy Overview** (Quadrillion Btu)

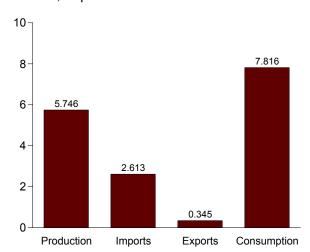
Consumption, Production, and Imports, 1973-2003



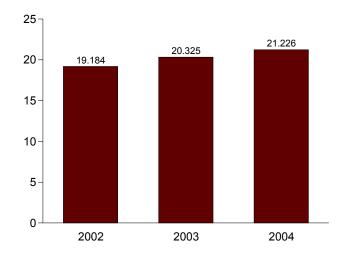
Consumption, Production, and Imports, Monthly



Overview, September 2004



Net Imports, January-September



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

Sources: Tables 1.1 and 1.4.

Table 1.1 Energy Overview

(Quadrillion Btu)

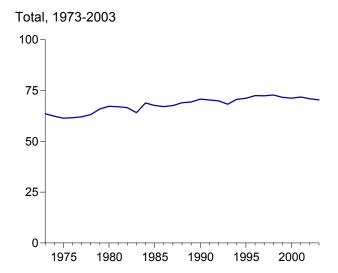
	Production	Imports	Exports	Adjustments ^a	Consumption
973 Total	63.585	14.613	2.033	-0.456	75.708
1974 Total	62.372	14.304	2.203	482	73.991
1975 Total	61.357	14.032	2.323	-1.067	71.999
1976 Total	61.602	16.760	2.172	178	76.012
1977 Total	62.052	19.948	2.052	-1.948	78.000
1978 Total	63.137	19.106	1.920	337	79.986
1979 Total	65.948	19.460	2.855	-1.649	80.903
1980 Total	67.241	15.796	3.695	-1.054	78.289
1981 Total	67.007	13.719	4.307	077	76.342
1982 Total	66.574	11.861	4.608	575	73.253
1983 Total	64.106	11.752	3.693	.935	73.101
1984 Total	68.832	12.471	3.786	781	76.736
1985 Total	67.647	11.781	4.196	1.238	76.469
1986 Total	67.087	14.151	4.021	435	76.782
1987 Total	67.608	15.398	3.812	.032	79.225
1988 Total	68.951	17.296	4.366	.964	82.844
989 Total	69.364	18.766	4.661	1.487	84.957
990 Total	70.729	18.817	4.752	126	84.668
991 Total	70.362	18.335	5.141	1.040	84.595
992 Total	69.933	19.372	4.937	1.581	85.949
993 Total	68.260	21.273	4.258	2.303	87.578
1994 Total	70.676	22.390	4.061	.243	89.248
1995 Total	71.156	22.260	4.511	2.315	91.221
1996 Total	72.472	23.702	4.633	2.683	94.224
1997 Total	72.389	25.215	4.514	1.637	94.727
1998 Total	72.787	26.581	4.299	.078	95.146
1999 Total	71.652	27.252	3.715	1.585	96.774
2000 Total	71.218	28.973	4.006	2.720	98.905
	71.792				
2001 Total	71.792	30.157	3.770	-1.800	96.378
2002 January	6.278	2.414	.292	.449	8.849
February	5.607	2.148	.290	.463	7.928
March	5.947	2.427	.266	.313	8.421
April	5.826	2.434	.292	186	7.782
May	6.063	2.510	.294	449	7.830
June	5.858	2.442	.308	082	7.910
	5.997	2.528	.270	.197	8.452
July					
August	6.052	2.588	.344	.077	8.374
September	5.739	2.349	.301	096	7.691
October	5.833	2.566	.333	223	7.843
November	5.736	2.550	.313	.083	8.057
December	5.995	2.450	.359	.802	8.888
Total	70.933	29.406	3.661	1.348	98.026
2003 January	6.041	2.428	.377	^R 1.185	R 9.277
February	5.445	2.180	.300	R 1.142	R 8.467
March	5.959	2.584	.316	R.198	R 8.425
April	5.794	2.612	.333	R387	R 7.686
May	5.984	2.746	.357	R692	^R 7.681
June	5.844	2.660	.351	R530	R 7.623
July	5.939	2.751	.339	R066	R 8.285
August	5.946	2.730	.334	R .049	R 8.391
_ •			.325	R540	R 7.591
September	5.792	2.665		R435	
October	5.938	2.668	.349		R 7.822
November	5.645	2.457	.338	R .152	R 7.917
December	6.040	2.623	.345	R .700	R 9.018
Total	70.367	31.107	4.065	R . 777	^R 98.185
2004 January	6.112	2.567	.289	R 1.040	^R 9.431
February	5.647	2.502	.303	^R .912	^R 8.757
March	6.038	2.787	.379	^R 038	R 8.408
April	5.791	2.604	.401	R230	^R 7.764
May	5.866	2.795	.380	R318	^R 7.963
June	5.928	2.774	.380	R417	^R 7.905
July	R 5.998	R 2.885	.357	R183	R 8.343
August	R 6.047	2.892	.359	R260	R 8.320
September	5.746	2.613	.345	198	7.816
9-Month Total	53.173	24.419	3.194	.309	74.708
2003 9-Month Total	52.744	23.358	3.034	.359	73.428

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

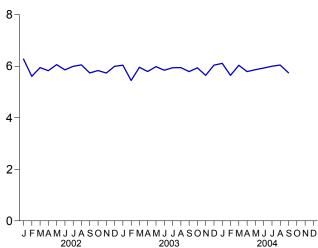
Notes: • For definitions, see Notes 1 through 4 at end of section.
• Totals may not equal sum of components due to independent rounding.

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

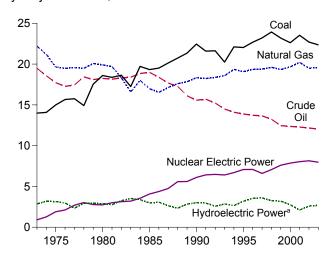
Figure 1.2 Energy Production (Quadrillion Btu)



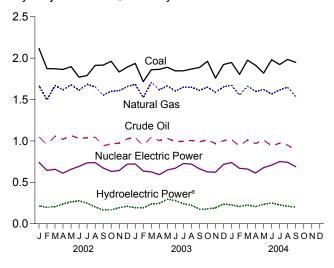




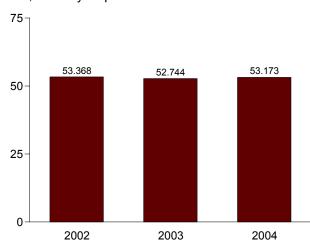
By Major Sources, 1973-2003



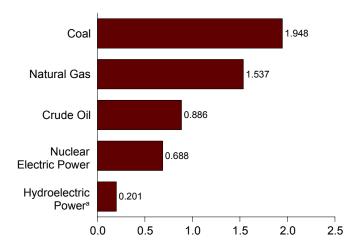
By Major Sources, Monthly



Total, January-September



By Major Sources, September 2004



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

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

Table 1.2 Energy Production by Source

(Quadrillion Btu)

		F	ossil Fuels						Renewab	le Energy	а		
	Coal	Natural Gas (Dry)	Crude Oil ^b	Natural Gas Plant Liquids	Total	Nuclear Electric Power	Hydro- electric Pumped Storage ^C	Conventional Hydroelectric Power	Wood, Waste, Alcohol ^d	Geo- thermal	Solar and Wind	Total	Total
1072 Total	12 002	22 107	10 402	2 560	E0 0/11	0.010	(e)	2 061	1 520	0.042	NA	4 422	62 505
1973 Total1974 Total	13.992 14.074	22.187 21.210	19.493 18.575	2.569 2.471	58.241 56.331	0.910 1.272	(°)	2.861 3.177	1.529 1.540	0.043 .053	NA NA	4.433 4.769	63.585 62.372
1975 Total	14.989	19.640	17.729	2.374	54.733	1.900	(e)	3.155	1.499	.070	NA	4.723	61.357
1976 Total	15.654	19.480	17.262	2.327	54.723	2.111	(e)	2.976	1.713	.078	NA	4.768	61.602
1977 Total	15.755	19.565	17.454	2.327	55.101	2.702	(e)	2.333	1.838	.077	NA	4.249 5.039	62.052
1978 Total1979 Total	14.910 17.540	19.485 20.076	18.434 18.104	2.245 2.286	55.074 58.006	3.024 2.776	(°)	2.937 2.931	2.038 2.152	.064 .084	NA NA	5.166	63.137 65.948
1980 Total	18.598	19.908	18.249	2.254	59.008	2.739	(e)	2.900	2.485	.110	NA	5.494	67.241
1981 Total	18.377	19.699	18.146	2.307	58.529	3.008	(e)	2.758	2.590	.123	NA	5.471	67.007
1982 Total	18.639	18.319	18.309	2.191	57.458	3.131	(e)	3.266	2.615	.105	ŅĄ	5.985	66.574
1983 Total 1984 Total	17.247 19.719	16.593 18.008	18.392 18.848	2.184 2.274	54.416 58.849	3.203 3.553	(e)	3.527 3.386	2.831 2.880	.129 .165	(s)	6.488 6.431	64.106 68.832
1985 Total	19.325	16.980	18.992	2.241	57.539	4.076	(e)	2.970	2.864	.103	(s) (s)	6.033	67.647
1986 Total	19.509	16.541	18.376	2.149	56.575	4.380	(e)	3.071	2.841	.219	(s)	6.132	67.087
1987 Total	20.141	17.136	17.675	2.215	57.167	4.754	(e)	2.635	2.823	.229	(s)	5.687	67.608
1988 Total	20.738	17.599	17.279	2.260	57.875 57.460	5.587	(e)	2.334	2.937	.217	(s)	5.489	68.951
1989 Total1990 Total	21.346 22.456	17.847 18.326	16.117 15.571	2.158 2.175	57.468 58.529	5.602 6.104	036	2.837 3.046	3.062 2.662	.317 .336	.077 .089	6.294 6.133	69.364 70.729
1991 Total	21.594	18.229	15.701	2.175	57.829	6.422	047	3.016	2.702	.346	.093	6.158	70.729
1992 Total	21.629	18.375	15.223	2.363	57.590	6.479	043	2.617	2.847	.349	.094	5.907	69.933
1993 Total	20.249	18.584	14.494	2.408	55.736	6.410	042	2.892	2.803	.364	.097	6.156	68.260
1994 Total	22.111	19.348	14.103	2.391 2.442	57.952 57.440	6.694	035	2.683	2.939	.338 .294	.104	6.065 6.669	70.676
1995 Total 1996 Total	22.029 22.684	19.082 19.344	13.887 13.723	2.530	57.440 58.281	7.075 7.087	028 032	3.205 3.590	3.068 3.127	.316	.102 .104	7.137	71.156 72.472
1997 Total	23.211	19.394	13.658	2.495	58.758	6.597	041	3.640	3.006	.325	.104	7.075	72.389
1998 Total	23.935	19.613	13.235	2.420	59.204	7.068	046	3.297	2.835	.328	.101	6.561	72.787
1999 Total	23.186	19.341	12.451	2.528	57.505	7.610	062	3.268	2.885	.331	.115	6.599	71.652
2000 Total 2001 Total	22.623 23.529	19.662 20.205	12.358 12.282	2.611 2.547	57.254 58.563	7.862 8.033	057 090	2.811 2.201	2.907 2.640	.317 .311	.123 .134	6.158 5.286	71.218 71.792
2002 January February	2.117 1.873	1.669 1.496	1.051 .954	.211 .198	5.048 4.521	.740 .644	008 006	.221 .204	.234 .207	.029 .026	.013 .012	.497 .449	6.278 5.607
March	1.871	1.669	1.058	.220	4.818	.658	007	.213	.223	.028	.012	.478	5.947
April	1.864	1.617	1.019	.215	4.716	.610	006	.245	.220	.025	.016	.506	5.826
May	1.897	1.677	1.065	.224	4.863	.658	005	.270	.233	.028	.016	.547	6.063
June	1.770	1.613	1.029	.209	4.622	.693	009	.285	.224	.026	.017	.552	5.858
July August	1.791 1.912	1.684 1.652	1.037 1.045	.213 .224	4.725 4.833	.735 .739	010 009	.258 .213	.246 .233	.029 .028	.015 .016	.547 .490	5.997 6.052
September	1.916	1.554	.942	.212	4.624	.673	008	.173	.238	.027	.013	.450	5.739
October	1.962	1.601	.964	.217	4.745	.631	007	.174	.249	.028	.013	.464	5.833
November	1.833	1.607	.974	.212	4.625	.642	007	.200	.238	.027	.012	.476	5.736
December Total	1.891 22.698	1.657 19.495	1.025 12.163	.203 2.559	4.777 56.915	.719 8.143	007 088	.219 2.675	.246 2.791	.028 .328	.013 .169	.506 5.963	5.995 70.933
2003 January	1.936	E 1.684 E 1.525	E 1.040 E .940	.204 .190	4.864 4.371	.722 .636	008 008	.199 .198	.225 .212	.027 .025	.011 .012	.462 .446	6.041 5.445
February March	1.716 1.859	E 1.525	E 1.046	.190	4.371 4.812	.636 .626	008 008	.198	.212	.025	.012	.529	5.445
April	1.865	E 1.618	E 1.005	.191	4.678	.593	006	.253	.234	.025	.016	.528	5.794
May	1.890	E 1.665	E 1.031	.181	4.767	.649	006	.302	.232	.025	.015	.574	5.984
June	1.846	E 1.602	E .992	.177	4.617	.670	008	.288	.235	.026	.015	.564	5.844
July August	1.847 1.869	E 1.651 E 1.648	E .994 E 1.006	.191 .197	4.682 4.721	.727 .721	008 008	.249 .231	.247 .243	.026 .026	.015 .013	.537 .513	5.939 5.946
September	1.887	E 1.612	E .989	.197	4.721	.664	008	.184	.243	.026	.013	.451	5.792
October	1.962	E 1.650	E 1.013	.211	4.836	.627	006	.185	.256	.026	.014	.482	5.938
November	1.758	E 1.588	_E.968	.206	4.519	.622	007	.199	.270	.026	.015	.511	5.645
December Total	1.923 22.358	E 1.654 E 19.602	E 1.003 E 12.026	.200 2.346	4.779 56.332	.716 7.973	007 088	.244 2.779	.263 2.885	.029 .314	.016 .172	.552 6.150	6.040 70.367
2004 January	1.948	E 1.673 E 1.554	E 1.015 E .939	.209	4.845	.739	008	.235	.257	.030	.014	.536	6.112
February March	1.804 1.975	E 1.662	E 1.011	.195 .212	4.493 4.861	.669 .661	006 007	.214 .233	.235 .245	.028 .028	.015 .017	.491 .524	5.647 6.038
April	1.914	E 1.599	E.969	.200	4.682	.612	007	.213	.246	.027	.018	.504	5.791
May	1.820	RE 1.621	E 1.009	.208	R 4.658	.678	007	.242	.245	.028	.022	.538	5.866
June	1.981	RE 1.567	E .940	.195	R 4.683	.708	007	.255	.241	.028	.019	.544	5.928
July	R 1.923 R 1.984	RE 1.617 E 1.649	E .972 E .949	.210	^R 4.721 ^R 4.798	.751	007 008	.235	.252 .252	.029 .029	.017	.533	^R 5.998 ^R 6.047
August September	1.948	E 1.537	E.886	.216 .202	4.573	.742 .688	008 008	.219 .208	.252 .240	.029	.016 .016	.515 .492	5.746
9-Month Total	17.298	E 14.479	E 8.690	1.846	42.312	6.248	064	2.054	2.214	.254	.155	4.677	53.173
2003 9-Month Total	16.715	E 14.710	E 9.042	1.730	42.197	6.008	067	2.151	2.095	.233	.126	4.606	52.744
2002 9-Month Total	17.011	14.630	9.200	1.927	42.769	6.150	068	2.082	2.057	.245	.132	4.517	53.368

^a End-use consumption and electricity net generation.

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

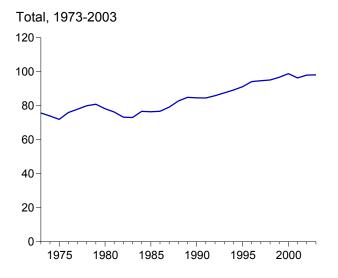
components due to independent rounding. • Geographic coverage is the 50 States and the District of Columbia.

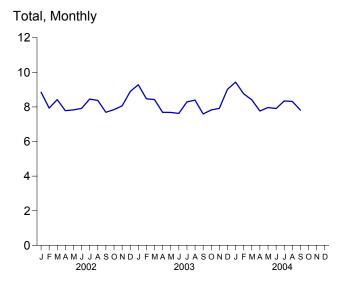
Web Page: http://www.eia.doe.gov/emeu/mer/overview.html.

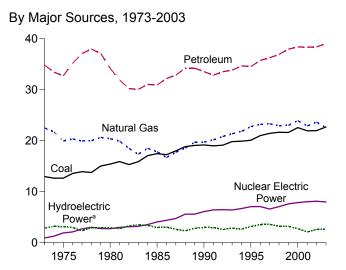
Sources: • Coal: Tables 6.1 and A5. • Natural Gas (Dry): Tables 4.1 and A4. • Crude Oil and Natural Gas Plant Liquids: Tables 3.1a and A2. • Nuclear Electric Power and Hydroelectric Pumped Storage: Tables 7.2a and A6. • Renewable Energy: Table 10.1.

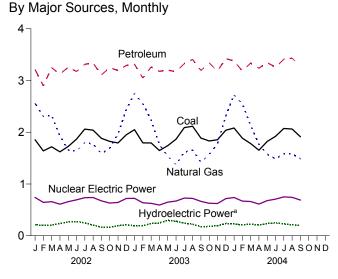
b Includes lease consumption and electricity net generation.
b Includes lease condensate.
c Pumped storage facility production minus energy used for pumping.
d "Alcohol" is ethanol blended into motor gasoline.
e Included in "Conventional Hydroelectric Power."
R=Revised. E=Estimate. NA=Not available. (s)=Less than +0.5 trillion Btu and greater than -0.5 trillion Btu.
Notes: • See Note 1 at end of section. • Totals may not equal sum of

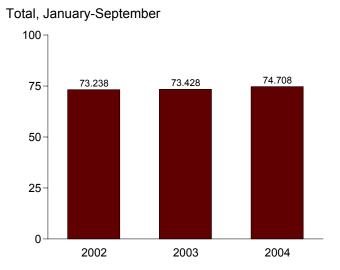
Figure 1.3 Energy Consumption (Quadrillion Btu)



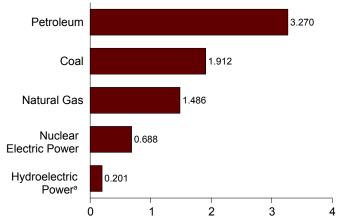








By Major Sources, September 2004



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

Table 1.3 Energy Consumption by Source

(Quadrillion Btu)

		Fossil	Fuels			Herston		Renewa	ble Energy	а		
	Coal	Natural Gas ^b	Petro- leum ^{c,d}	Totale	Nuclear Electric Power	Hydro- electric Pumped Storage ^f	Conventional Hydroelectric Power	Wood, Waste, Alcohol ^{d,g}	Geo- thermal	Solar and Wind	Total	Total ^{d,h}
1973 Total 1974 Total 1975 Total 1975 Total 1976 Total 1977 Total 1977 Total 1979 Total 1980 Total 1981 Total 1982 Total 1983 Total 1983 Total 1985 Total 1985 Total 1986 Total 1987 Total 1987 Total 1988 Total 1987 Total 1988 Total 1998 Total 1999 Total 1991 Total 1992 Total 1993 Total 1995 Total 1995 Total 1995 Total 1995 Total 1995 Total 1995 Total 1996 Total 1997 Total 1998 Total	12.971 12.663 13.584 13.922 13.766 15.040 15.423 15.908 15.322 15.894 17.071 17.478 17.260 18.008 18.846 19.070 19.173 18.992 19.122 19.835 19.909 20.089 21.002 21.445 21.656 21.623 22.580 21.952	22.512 21.732 19.948 20.345 19.931 20.000 20.666 20.394 19.928 18.505 17.357 17.834 16.708 17.744 18.552 19.712 19.730 20.149 20.835 21.351 21.842 22.784 23.197 23.328 22.936 23.010 23.916 22.906	34.840 33.455 32.731 35.175 37.122 37.965 37.123 34.202 31.931 30.231 30.054 31.051 30.922 32.196 32.865 34.222 34.211 33.557 33.547 34.553 35.757 36.266 36.934 37.960 38.404 38.333	70.316 67.906 65.355 69.104 70.892 69.984 67.750 64.036 63.290 66.617 66.221 66.148 68.626 71.660 73.023 72.460 73.519 75.055 76.480 77.488 79.979 81.086 81.592 82.650 84.965 83.221	0.910 1.272 1.900 2.111 2.702 3.024 2.776 2.739 3.008 3.131 3.203 4.076 4.380 4.754 5.587 5.602 6.410 6.694 7.075 7.087 7.068 7.610 7.862 8.033	(i) (i) (i) (i) (i) (i) (i) (i) (i) (i)	2.861 3.177 3.155 2.976 2.333 2.937 2.931 2.900 2.758 3.266 3.527 3.386 2.970 3.071 2.635 2.334 2.837 3.046 3.016 2.617 2.892 2.683 3.205 3.590 3.500 3.500 3.500 3.500 3.500 3.500 3.500 3.500 3.500 3.500 3.500 3.500 3.500	1.529 1.540 1.499 1.713 1.838 2.038 2.152 2.485 2.590 2.615 2.831 2.880 2.864 2.841 2.823 2.937 3.062 2.662 2.702 2.847 d2.803 2.939 3.068 3.127 3.006 2.835 2.885 2.997 2.640	0.043 .053 .070 .078 .077 .064 .084 .110 .123 .105 .129 .165 .198 .219 .217 .317 .336 .346 .349 .364 .338 .294 .316 .325 .328	NA NA NA NA NA NA NA NA NA (s) (s) (s) (s) 097 .093 .094 .097 .104 .102 .104 .101 .115 .123 .134	4.433 4.769 4.723 4.768 4.249 5.039 5.166 5.494 5.471 5.985 6.488 6.431 6.033 6.132 5.687 5.489 6.294 6.158 5.907 6.156 6.669 7.137 7.075 6.561 6.599 6.158 5.599 7.137 5.599 6.591 6.599 6.591 6.599 6.591 6.592 6.593	75.708 73.991 71.999 76.012 78.000 79.986 80.903 76.342 73.253 73.101 76.782 79.225 82.844 84.957 84.668 84.595 85.949 d87.578 89.248 91.221 94.224 94.727 95.146 96.774 98.905 96.378
2002 January	1.855 1.640 1.719 1.622 1.724 1.868 2.061 2.041 1.882 1.824 1.794 1.951 21.980	2.558 2.306 2.323 1.934 1.657 1.635 1.798 1.773 1.586 1.689 1.964 2.440 23.662	3.211 2.899 3.247 3.123 3.256 3.174 3.313 3.337 3.108 3.248 3.193 3.292 38.401	7.623 6.847 7.298 6.677 6.641 6.680 7.182 7.158 6.585 6.767 6.961 7.685 84.104	.740 .644 .658 .610 .658 .693 .735 .739 .673 .631 .642 .719	008 006 007 006 005 009 010 009 008 007 007	.221 .204 .213 .245 .270 .285 .258 .213 .173 .174 .200 .219	.234 .207 .223 .220 .233 .224 .246 .233 .238 .249 .238 .246 2.791	.029 .026 .028 .025 .028 .026 .029 .028 .027 .028 .027	.013 .012 .014 .016 .016 .015 .015 .013 .013 .013 .013	.497 .449 .478 .506 .547 .552 .547 .490 .450 .464 .476 .506 5.963	8.849 7.928 8.421 7.782 7.830 7.910 8.452 8.374 7.691 7.843 8.057 8.888 98.026
Pebruary February April May June July August September October November December Total	_R 2.039	R 2.747 R 2.554 R 2.237 R 1.760 R 1.538 R 1.374 R 1.617 R 1.654 R 1.420 R 1.571 R 2.313 R 22.564	3.314 3.046 3.262 3.177 3.202 3.171 3.326 3.408 3.193 3.341 3.184 3.423 39.047	R 8.112 R 7.408 R 7.296 R 6.587 R 6.482 R 7.179 R 6.504 R 6.748 R 6.817 R 7.782 R 84.367	.722 .636 .626 .593 .649 .670 .727 .721 .664 .622 .716 7.973	008 008 008 006 006 008 008 008 008 007 007	.199 .198 .246 .253 .302 .288 .249 .231 .184 .185 .199 .244	.225 .212 .241 .234 .232 .235 .247 .243 .227 .256 .270 .263 2.885	.027 .025 .027 .025 .025 .026 .026 .026 .026 .026 .026 .029	.011 .012 .016 .016 .015 .015 .013 .014 .014 .015 .016	.462 .446 .529 .528 .574 .564 .537 .513 .451 .482 .511 .552 6.150	R 9.277 R 8.467 R 8.425 R 7.686 R 7.681 R 7.623 R 8.285 R 8.391 R 7.591 R 7.822 R 98.185
2004 January	R 1.780 R 1.652 R 1.823 R 1.920 R 2.073 R 2.062	2.726 2.549 R 2.131 1.767 R 1.574 R 1.485 R 1.583 1.486 16.888 16.904 17.569	3.376 3.182 3.337 3.237 3.345 3.257 3.410 3.432 3.270 29.847 29.100 28.669	R 8.187 R 7.626 R 7.258 R 6.679 R 6.779 R 6.683 R 7.081 R 7.083 6.666 64.042 63.020 62.691	.739 .669 .661 .612 .678 .708 .751 .742 .688 6.248 6.008 6.150	008 006 007 007 007 007 008 008 064 067	.235 .214 .233 .213 .242 .255 .235 .219 .208 2.054	.257 .235 .245 .246 .245 .241 .252 .252 .240 2.214 2.095 2.057	.030 .028 .028 .027 .028 .028 .029 .029 .027 .254	.014 .015 .017 .018 .022 .019 .017 .016 .016 .155	.536 .491 .524 .504 .538 .544 .533 .515 .492 4.677 4.606 4.517	R 9, 431 R 8,757 R 8,408 R 7,764 R 7,963 R 7,905 R 8,343 R 8,320 7,816 74,708 73,428

^a End-use consumption and electricity net generation.

separately displayed. See Table 1.4.

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

C Petroleum products supplied, including natural gas plant liquids and crude oil.

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

pagnine as rue. Beginning in 1993, also includes ethanol blended into motor gasoline.

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

Includes coal coke net imports. See Table 1.4.

Pumped storage facility production minus energy used for pumping.
 "Alcohol" is ethanol blended into motor gasoline.
 Includes coal coke net imports and electricity net imports, which are not

included in conventional hydroelectric power.

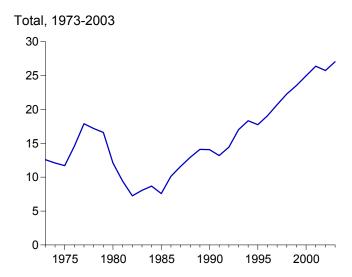
R=Revised. NA=Not available. (s)=Less than +0.5 trillion Btu and greater than -0.5 trillion Btu.

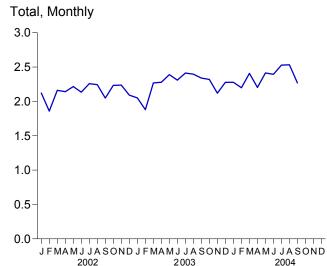
Notes: • See Note 2 at end of section. • Totals may not equal sum of components due to independent rounding. • Geographic coverage is the 50 States and the District of Columbia.

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

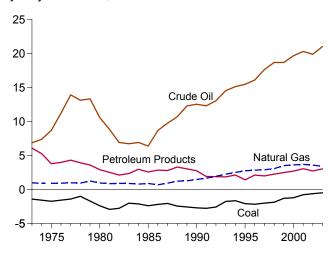
Figure 1.4 Energy Net Imports

(Quadrillion Btu, Except as noted)

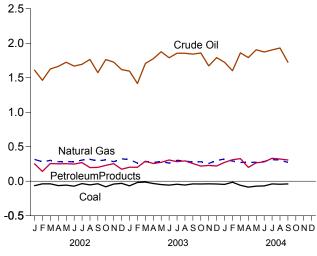




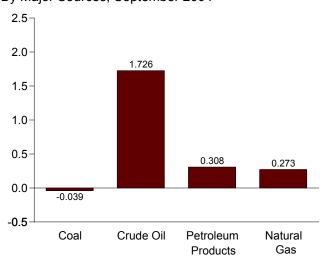
By Major Sources, 1973-2003



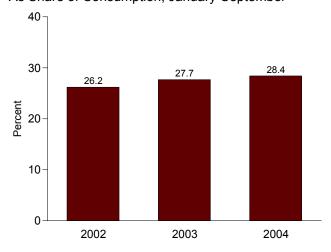
By Major Sources, Monthly



By Major Sources, September 2004



As Share of Consumption, January-September



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

Sources: Tables 1.3 and 1.4.

Table 1.4 Energy Net Imports by Source

(Quadrillion Btu)

974 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 -2.193 -2.2049 -2.466 -2.566 -2.705 -2.769 -2.587 -1.758 -1.657 -2.081 -2.165 -2.006 -1.874	-0.007 .056 .014 (s) .015 .125 .063035016022016011013017 .009 .040 .030 .005 .010 .035 .027 .058 .061 .023 .046	0.981 .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 2.847	6.883 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 12.536 12.308 13.065 14.542 15.131	6.097 5.273 3.800 3.982 4.321 3.932 3.603 2.912 2.522 2.128 2.351 2.970 2.855 2.784 3.308 3.029 2.757 1.912 1.895 1.854 2.126	0.049 .043 .021 .029 .059 .067 .069 .071 .113 .100 .121 .135 .140 .122 .158 .108	12.580 12.101 11.709 14.588 17.896 17.186 16.605 12.101 9.412 7.253 8.059 8.685 7.584 10.130 11.586 12.929 14.105 14.065 13.194 14.435
974 Total	-1.568 -1.738 -1.567 -1.401 -1.004 -1.702 -2.391 -2.918 -2.013 -2.119 -2.389 -2.119 -2.389 -2.193 -2.049 -2.446 -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 .023 .046	.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 2.847	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 12.536 12.308 13.065 14.542 15.131	5.273 3.800 3.982 4.321 3.932 3.603 2.912 2.522 2.128 2.351 2.970 2.570 2.855 2.784 3.308 3.029 2.757 1.912 1.895 1.854	.043 .021 .029 .059 .067 .069 .071 .113 .100 .121 .135 .140 .122 .158 .108 .037	12.101 11.709 14.588 17.896 17.186 16.605 12.101 9.412 7.253 8.059 8.685 7.584 10.130 11.586 12.929 14.105 14.065 13.194
975 Total	-1.738 -1.567 -1.401 -1.004 -1.702 -2.391 -2.918 -2.768 -2.013 -2.119 -2.189 -2.193 -2.049 -2.446 -2.705 -2.769 -2.566 -2.705 -2.769 -2.587 -1.758 -1.657 -2.081 -2.066 -2.006	.014 (s) .015 .125 .063035016022016011013017 .009 .040 .030 .005 .010 .035 .027 .058 .061 .023 .046	.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 2.847	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 12.536 12.308 13.065 14.542 15.131	3.800 3.982 4.321 3.932 3.603 2.912 2.522 2.128 2.351 2.970 2.570 2.855 2.784 3.308 3.029 2.757 1.912 1.895 1.854	.021 .029 .059 .067 .069 .071 .113 .100 .121 .135 .140 .122 .158 .108 .037	11.709 14.588 17.896 17.186 16.605 12.101 9.412 7.253 8.059 8.685 7.584 10.130 11.586 12.929 14.105 14.065 13.194
976 Total	-1.567 -1.401 -1.004 -1.702 -2.391 -2.918 -2.768 -2.013 -2.119 -2.389 -2.193 -2.193 -2.446 -2.566 -2.705 -2.769 -2.587 -1.758 -1.657 -2.081 -2.081	(s) .015 .125 .063035016022016011013017 .009 .040 .030 .005 .010 .035 .027 .058 .061 .023 .046	.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 2.847	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 12.536 12.308 13.065 14.542	3.982 4.321 3.932 3.603 2.912 2.522 2.128 2.351 2.970 2.570 2.855 2.784 3.308 3.029 2.757 1.912 1.895 1.854	.029 .059 .067 .069 .071 .113 .100 .121 .135 .140 .122 .158 .108 .037 .008	14.588 17.896 17.186 16.605 12.101 9.412 7.253 8.059 8.685 7.584 10.130 11.586 12.929 14.105 14.065 13.194
977 Total	-1.401 -1.004 -1.702 -2.391 -2.918 -2.768 -2.013 -2.119 -2.389 -2.193 -2.049 -2.446 -2.566 -2.705 -2.769 -2.569 -2.569 -1.758 -1.657 -2.081 -2.165 -2.006	.015 .125 .063035016022016011013017 .009 .040 .030 .005 .010 .035 .027 .058 .061	.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	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 12.536 12.308 13.065 14.542	4.321 3.932 3.603 2.912 2.522 2.128 2.351 2.970 2.570 2.855 2.784 3.308 3.029 2.757 1.912 1.895 1.854	.059 .067 .069 .071 .113 .100 .121 .135 .140 .122 .158 .108 .037	17.896 17.186 16.605 12.101 9.412 7.253 8.059 8.685 7.584 10.130 11.586 12.929 14.105 14.065 13.194
978 Total -1 1779 Total -1 180 Total -2 981 Total -2 982 Total -2 983 Total -2 984 Total -2 985 Total -2 986 Total -2 987 Total -2 989 Total -2 991 Total -2 992 Total -2 993 Total -1 995 Total -2 997 Total -2 998 Total -1 999 Total -1 991 Total -1 992 Total -2 993 Total -2 994 Total -1 995 Total -2 997 Total -2 998 Total -1 999 Total -1 991 Total -1 992 Total -1 993 Total -1 994 Total -1 995 Total -2 997 Total -2 998 Total -1 <td>-1.004 -1.702 -2.391 -2.918 -2.768 -2.013 -2.119 -2.389 -2.193 -2.049 -2.446 -2.566 -2.705 -2.769 -2.587 -1.758 -1.657 -2.081 -2.065 -2.065</td> <td>.125 .063 035 016 022 016 011 013 017 .009 .040 .030 .005 .010 .035 .027 .058 .061</td> <td>.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 2.847</td> <td>13.125 13.328 10.586 8.854 6.917 6.731 6.918 6.381 8.676 9.748 10.698 12.296 12.536 12.308 13.065 14.542 15.131</td> <td>3.932 3.603 2.912 2.522 2.128 2.351 2.970 2.570 2.855 2.784 3.308 3.029 2.757 1.912 1.895 1.854</td> <td>.067 .069 .071 .113 .100 .121 .135 .140 .122 .158 .108 .037 .008</td> <td>17.186 16.605 12.101 9.412 7.253 8.059 8.685 7.584 10.130 11.586 12.929 14.105 14.065 13.194</td>	-1.004 -1.702 -2.391 -2.918 -2.768 -2.013 -2.119 -2.389 -2.193 -2.049 -2.446 -2.566 -2.705 -2.769 -2.587 -1.758 -1.657 -2.081 -2.065 -2.065	.125 .063 035 016 022 016 011 013 017 .009 .040 .030 .005 .010 .035 .027 .058 .061	.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 2.847	13.125 13.328 10.586 8.854 6.917 6.731 6.918 6.381 8.676 9.748 10.698 12.296 12.536 12.308 13.065 14.542 15.131	3.932 3.603 2.912 2.522 2.128 2.351 2.970 2.570 2.855 2.784 3.308 3.029 2.757 1.912 1.895 1.854	.067 .069 .071 .113 .100 .121 .135 .140 .122 .158 .108 .037 .008	17.186 16.605 12.101 9.412 7.253 8.059 8.685 7.584 10.130 11.586 12.929 14.105 14.065 13.194
179 Total	-1.702 -2.391 -2.918 -2.768 -2.013 -2.119 -2.193 -2.049 -2.446 -2.705 -2.769 -2.566 -2.705 -1.758 -1.657 -2.081 -2.165 -2.006	.063035016022016011013017 .009 .040 .030 .005 .010 .035 .027 .058 .061 .023	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 2.847	13.328 10.586 8.854 6.917 6.731 6.918 6.381 8.676 9.748 10.698 12.296 12.536 12.308 13.065 14.542 15.131	3.603 2.912 2.522 2.128 2.351 2.970 2.570 2.855 2.784 3.308 3.029 2.757 1.912 1.895 1.854	.069 .071 .113 .100 .121 .135 .140 .122 .158 .108 .037 .008	16.605 12.101 9.412 7.253 8.059 8.685 7.584 10.130 11.586 12.929 14.105 14.065 13.194
880 Total -2 881 Total -2 882 Total -2 883 Total -2 884 Total -2 885 Total -2 886 Total -2 887 Total -2 889 Total -2 899 Total -2 991 Total -2 992 Total -2 993 Total -1 995 Total -2 996 Total -2 997 Total -1 999 Total -1 900 Total -1 997 Total -2 998 Total -1 999 Total -1 900 Total -1 991 Total -1 992 Total -1 993 Total -1 994 Total -1 995 Total -1 997 Total -1 998 Total -1 990 Total -1 991 Total -1 992 Total -1 993 Total -1 <td>-2.391 -2.918 -2.768 -2.013 -2.119 -2.389 -2.193 -2.446 -2.566 -2.705 -2.705 -2.587 -1.758 -1.657 -2.081 -2.165 -2.006</td> <td>035016022016011013017009 .040 .030 .005 .010 .035 .027 .058 .061 .023</td> <td>.957 .857 .898 .898 .885 .792 .896 .686 .937 1.221 1.278 1.464 1.666 1.941 2.255 2.518 2.745 2.847</td> <td>10.586 8.854 6.917 6.731 6.918 6.381 8.676 9.748 10.698 12.296 12.536 12.308 13.065 14.542</td> <td>2.912 2.522 2.128 2.351 2.970 2.570 2.855 2.784 3.308 3.029 2.757 1.912 1.895 1.854</td> <td>.071 .113 .100 .121 .135 .140 .122 .158 .108 .037 .008</td> <td>12.101 9.412 7.253 8.059 8.685 7.584 10.130 11.586 12.929 14.105 14.065 13.194</td>	-2.391 -2.918 -2.768 -2.013 -2.119 -2.389 -2.193 -2.446 -2.566 -2.705 -2.705 -2.587 -1.758 -1.657 -2.081 -2.165 -2.006	035016022016011013017009 .040 .030 .005 .010 .035 .027 .058 .061 .023	.957 .857 .898 .898 .885 .792 .896 .686 .937 1.221 1.278 1.464 1.666 1.941 2.255 2.518 2.745 2.847	10.586 8.854 6.917 6.731 6.918 6.381 8.676 9.748 10.698 12.296 12.536 12.308 13.065 14.542	2.912 2.522 2.128 2.351 2.970 2.570 2.855 2.784 3.308 3.029 2.757 1.912 1.895 1.854	.071 .113 .100 .121 .135 .140 .122 .158 .108 .037 .008	12.101 9.412 7.253 8.059 8.685 7.584 10.130 11.586 12.929 14.105 14.065 13.194
181 Total	-2.918 -2.768 -2.013 -2.119 -2.389 -2.193 -2.049 -2.446 -2.566 -2.705 -2.769 -2.587 -1.758 -1.657 -2.081 -2.165 -2.006	016022016011013017 .009 .040 .030 .005 .010 .035 .027 .058 .061	.857 .898 .885 .792 .896 .686 .937 1.221 1.278 1.464 1.666 1.941 2.255 2.518 2.745 2.847	8.854 6.917 6.731 6.918 6.381 8.676 9.748 10.698 12.296 12.536 12.308 13.065 14.542 15.131	2.522 2.128 2.351 2.970 2.570 2.855 2.784 3.308 3.029 2.757 1.912 1.895 1.854	.113 .100 .121 .135 .140 .122 .158 .108 .037 .008	9.412 7.253 8.059 8.685 7.584 10.130 11.586 12.929 14.105 14.065 13.194
082 Total -2 083 Total -2 084 Total -2 085 Total -2 086 Total -2 087 Total -2 088 Total -2 089 Total -2 090 Total -2 091 Total -2 092 Total -1 094 Total -1 095 Total -2 096 Total -2 097 Total -2 098 Total -1 099 Total -1 001 Total -1 002 January February March April May June July August September October November December Total -1 003 January February March April May June July August September October November December October November December December	-2.768 -2.013 -2.119 -2.389 -2.193 -2.049 -2.446 -2.566 -2.705 -2.769 -2.587 -1.758 -1.657 -2.081 -2.165 -2.006	022 016 011 013 017 .009 .040 .030 .005 .010 .035 .027 .058 .061	.898 .885 .792 .896 .686 .937 1.221 1.278 1.464 1.666 1.941 2.255 2.518 2.745 2.847	6.917 6.731 6.918 6.381 8.676 9.748 10.698 12.296 12.536 12.308 13.065 14.542 15.131	2.128 2.351 2.970 2.570 2.855 2.784 3.308 3.029 2.757 1.912 1.895 1.854	.100 .121 .135 .140 .122 .158 .108 .037 .008	7.253 8.059 8.685 7.584 10.130 11.586 12.929 14.105 14.065 13.194 14.435
383 Total -2 384 Total -2 385 Total -2 386 Total -2 387 Total -2 388 Total -2 389 Total -2 390 Total -2 391 Total -2 392 Total -1 395 Total -1 395 Total -2 396 Total -2 397 Total -2 398 Total -1 399 Total -1 300 Total -1 <td>-2.013 -2.119 -2.389 -2.193 -2.049 -2.446 -2.566 -2.705 -2.769 -2.587 -1.758 -1.657 -2.081 -2.165 -2.106</td> <td>016 011 013 017 .009 .040 .030 .005 .010 .035 .027 .058 .061</td> <td>.885 .792 .896 .686 .937 1.221 1.278 1.464 1.666 1.941 2.255 2.518 2.745 2.847</td> <td>6.731 6.918 6.381 8.676 9.748 10.698 12.296 12.536 12.308 13.065 14.542 15.131</td> <td>2.351 2.970 2.570 2.855 2.784 3.308 3.029 2.757 1.912 1.895 1.854</td> <td>.121 .135 .140 .122 .158 .108 .037 .008</td> <td>8.059 8.685 7.584 10.130 11.586 12.929 14.105 14.065 13.194</td>	-2.013 -2.119 -2.389 -2.193 -2.049 -2.446 -2.566 -2.705 -2.769 -2.587 -1.758 -1.657 -2.081 -2.165 -2.106	016 011 013 017 .009 .040 .030 .005 .010 .035 .027 .058 .061	.885 .792 .896 .686 .937 1.221 1.278 1.464 1.666 1.941 2.255 2.518 2.745 2.847	6.731 6.918 6.381 8.676 9.748 10.698 12.296 12.536 12.308 13.065 14.542 15.131	2.351 2.970 2.570 2.855 2.784 3.308 3.029 2.757 1.912 1.895 1.854	.121 .135 .140 .122 .158 .108 .037 .008	8.059 8.685 7.584 10.130 11.586 12.929 14.105 14.065 13.194
1883 Total -2 1884 Total -2 1885 Total -2 1886 Total -2 1887 Total -2 1888 Total -2 1899 Total -2 1901 Total -2 1921 Total -1 1925 Total -1 1926 Total -2 1927 Total -2 1928 Total -1 1929 Total -1 1939 Total -1 1940 Total -1 197 Total -2 198 Total -1 1001 Total -1 1002 January February March April May June December Total 103 January February March April May June July August September October November December October November December December	-2.119 -2.389 -2.193 -2.049 -2.446 -2.566 -2.705 -2.769 -2.587 -1.758 -1.657 -2.081	011 013 017 .009 .040 .030 .005 .010 .035 .027 .058 .061	.885 .792 .896 .686 .937 1.221 1.278 1.464 1.666 1.941 2.255 2.518 2.745 2.847	6.731 6.918 6.381 8.676 9.748 10.698 12.296 12.536 12.308 13.065 14.542 15.131	2.970 2.570 2.855 2.784 3.308 3.029 2.757 1.912 1.895 1.854	.135 .140 .122 .158 .108 .037 .008 .067	8.685 7.584 10.130 11.586 12.929 14.105 14.065 13.194 14.435
184 Total	-2.119 -2.389 -2.193 -2.049 -2.446 -2.566 -2.705 -2.769 -2.587 -1.758 -1.657 -2.081	011 013 017 .009 .040 .030 .005 .010 .035 .027 .058 .061	.792 .896 .686 .937 1.221 1.278 1.464 1.666 1.941 2.255 2.518 2.745 2.847	6.918 6.381 8.676 9.748 10.698 12.296 12.536 12.308 13.065 14.542 15.131	2.970 2.570 2.855 2.784 3.308 3.029 2.757 1.912 1.895 1.854	.135 .140 .122 .158 .108 .037 .008 .067	8.685 7.584 10.130 11.586 12.929 14.105 14.065 13.194 14.435
385 Total -2 386 Total -2 387 Total -2 388 Total -2 389 Total -2 390 Total -2 391 Total -2 392 Total -1 393 Total -1 394 Total -2 395 Total -2 396 Total -2 397 Total -2 398 Total -1 390 Total -1 400 Total -1 400 Total -1 400 Total -1 400 January -1 8eptember -1 00 January -1 90 January <t< td=""><td>-2.389 -2.193 -2.049 -2.446 -2.566 -2.705 -2.769 -2.587 -1.758 -1.657 -2.081 -2.165 -2.165 -2.006</td><td>013 017 .009 .040 .030 .005 .010 .035 .027 .058 .061</td><td>.896 .686 .937 1.221 1.278 1.464 1.666 1.941 2.255 2.518 2.745 2.847</td><td>6.381 8.676 9.748 10.698 12.296 12.536 12.308 13.065 14.542 15.131</td><td>2.570 2.855 2.784 3.308 3.029 2.757 1.912 1.895 1.854</td><td>.140 .122 .158 .108 .037 .008 .067</td><td>7.584 10.130 11.586 12.929 14.105 14.065 13.194 14.435</td></t<>	-2.389 -2.193 -2.049 -2.446 -2.566 -2.705 -2.769 -2.587 -1.758 -1.657 -2.081 -2.165 -2.165 -2.006	013 017 .009 .040 .030 .005 .010 .035 .027 .058 .061	.896 .686 .937 1.221 1.278 1.464 1.666 1.941 2.255 2.518 2.745 2.847	6.381 8.676 9.748 10.698 12.296 12.536 12.308 13.065 14.542 15.131	2.570 2.855 2.784 3.308 3.029 2.757 1.912 1.895 1.854	.140 .122 .158 .108 .037 .008 .067	7.584 10.130 11.586 12.929 14.105 14.065 13.194 14.435
186 Total	-2.193 -2.049 -2.446 -2.566 -2.705 -2.769 -2.587 -1.758 -1.657 -2.081 -2.165 -2.006	017 .009 .040 .030 .005 .010 .035 .027 .058 .061	.686 .937 1.221 1.278 1.464 1.666 1.941 2.255 2.518 2.745 2.847	8.676 9.748 10.698 12.296 12.536 12.308 13.065 14.542 15.131	2.855 2.784 3.308 3.029 2.757 1.912 1.895 1.854	.122 .158 .108 .037 .008 .067	10.130 11.586 12.929 14.105 14.065 13.194 14.435
187 Total	-2.049 -2.446 -2.566 -2.705 -2.769 -2.587 -1.758 -1.657 -2.081 -2.165 -2.006	.009 .040 .030 .005 .010 .035 .027 .058 .061 .023	.937 1.221 1.278 1.464 1.666 1.941 2.255 2.518 2.745 2.847	9.748 10.698 12.296 12.536 12.308 13.065 14.542 15.131	2.784 3.308 3.029 2.757 1.912 1.895 1.854	.158 .108 .037 .008 .067 .087	11.586 12.929 14.105 14.065 13.194 14.435
188 Total	-2.446 -2.566 -2.705 -2.769 -2.587 -1.758 -1.657 -2.081 -2.165 -2.006	.040 .030 .005 .010 .035 .027 .058 .061 .023	1.221 1.278 1.464 1.666 1.941 2.255 2.518 2.745 2.847	10.698 12.296 12.536 12.308 13.065 14.542 15.131	3.308 3.029 2.757 1.912 1.895 1.854	.108 .037 .008 .067 .087	12.929 14.105 14.065 13.194 14.435
089 Total -2 190 Total -2 191 Total -2 192 Total -2 192 Total -1 194 Total -1 195 Total -2 196 Total -2 197 Total -1 198 Total -1 199 Total -1 100 Total -1 101 Total -1 102 January February March April May June July August September October November December Total	-2.566 -2.705 -2.769 -2.587 -1.758 -1.657 -2.081 -2.165 -2.006	.030 .005 .010 .035 .027 .058 .061 .023	1.278 1.464 1.666 1.941 2.255 2.518 2.745 2.847	12.296 12.536 12.308 13.065 14.542 15.131	3.029 2.757 1.912 1.895 1.854	.037 .008 .067 .087	14.105 14.065 13.194 14.435
990 Total	-2.705 -2.769 -2.587 -1.758 -1.657 -2.081 -2.165 -2.006	.005 .010 .035 .027 .058 .061 .023	1.464 1.666 1.941 2.255 2.518 2.745 2.847	12.536 12.308 13.065 14.542 15.131	2.757 1.912 1.895 1.854	.008 .067 .087	14.065 13.194 14.435
990 Total	-2.769 -2.587 -1.758 -1.657 -2.081 -2.165 -2.006	.010 .035 .027 .058 .061 .023 .046	1.666 1.941 2.255 2.518 2.745 2.847	12.308 13.065 14.542 15.131	1.912 1.895 1.854	.067 .087	13.194 14.435
191 Total -2 -2 -2 -2 -2 -2 -2 -	-2.769 -2.587 -1.758 -1.657 -2.081 -2.165 -2.006	.010 .035 .027 .058 .061 .023 .046	1.666 1.941 2.255 2.518 2.745 2.847	12.308 13.065 14.542 15.131	1.912 1.895 1.854	.067 .087	13.194 14.435
992 Total	-2.587 -1.758 -1.657 -2.081 -2.165 -2.006	.035 .027 .058 .061 .023 .046	1.941 2.255 2.518 2.745 2.847	13.065 14.542 15.131	1.895 1.854	.087	14.435
193 Total	-1.758 -1.657 -2.081 -2.165 -2.006	.027 .058 .061 .023 .046	2.255 2.518 2.745 2.847	14.542 15.131	1.854		
994 Total	-1.657 -2.081 -2.165 -2.006	.058 .061 .023 .046	2.518 2.745 2.847	15.131			
995 Total	-2.081 -2.165 -2.006	.061 .023 .046	2.745 2.847		9 496	.095	17.014
996 Total	-2.165 -2.006	.023 .046	2.847	45 400		.153	18.329
997 Total	-2.006	.046		15.469	1.422	.134	17.750
997 Total	-2.006	.046		16.108	2.119	.137	19.069
998 Total -1 999 Total -1 909 Total -1 900 Total -1 901 Total -1 902 January February March April May June December Total -1 903 January February March November December Total -1 904 January February March November December Total -1 905 January February March November December Total -1 907 January February March November December Total -1 908 January February March November December -1 909 January June July November December -1 909 January September October November December -1			2.904	17.648	1.993	.116	20.701
1999 Total			3.064	18.684	2.252	.088	22.281
100 100	-1.298	.058	3.500	18.686	2.493	.099	23.537
001 Total 002 January February March April May June July August September October November December Total 003 January February March April May June July August September October November December	-1.215	.065	3.623	19.676	2.701	.115	24.967
February March April May June October November December Total May June June Juny August September October November December Total May June June June June June June June June							
February	771	.029	3.691	20.305	3.056	.075	26.386
March	065	.000	.316	1.610	.252	.009	2.122
March	038	.003	.282	1.463	.142	.007	1.858
April May June July Pebruary March May June May May May May May May March May June May June May	038	.008	.301	1.627	.256	.006	2.161
May	063	001	.283	1.665	.253	.006	2.142
June	056	.004	.287	1.724	.254	.003	2.216
July August September October November December Total 003 January February March April May June July August September October November December							
August September October November December Total 003 January February March April May June July August September October November December	072	.002	.280	1.669	.248	.007	2.134
September	035	.009	.307	1.694	.270	.012	2.258
October November December Total 003 January February March April May June July August September October November December	053	.007	.317	1.765	.197	.010	2.244
October November December Total 003 January February March April May June July August September October November December	037	.009	.296	1.575	.200	.006	2.048
November	081	.006	.309	1.764	.230	.005	2.233
December	042	.010	.283	1.728	.254	.004	2.237
Total	031		.324		.175	.003	2.091
February	610	.003 .061	3.583	1.618 19.901	2.732	.003 .078	25.745
February March April May June July August September October November December							
March	067	.001	.313	1.596	.203	.005	2.051
April	018	.013	.262	1.416	.202	.004	1.880
April May June July August September October November December	012	.004	.282	1.706	.290	001	2.268
May	033	.004	.273	1.776	.257	.003	2.279
June July August September November December	048	.002	.284	1.876	.274	.001	2.389
July August September October November December	057	.004	.263	1.790	.308	.001	2.309
August September October November December	044	.005	.303	1.856	.283	.010	2.412
September October November December							
October November December	055	.001	.293	1.854	.295	.008	2.396
November December	039	.004	.278	1.842	.256	002	2.340
December	040	.004	.283	1.860	.219	006	2.319
December	038	.003	.258	1.671	.228	003	2.120
	040	.006	.299	1.792	.221	.001	2.278
TOTAL	491	.051	3.391	21.034	3.035	.022	27.042
04 January	046	004	000	1 704	070	(a)	0.070
		.004 .009	.322 .291	1.724 1.602	.273 .312	(s) .000	2.278 2.198
,	046 - 014						
	014	.010	.272	1.861	.327	003	2.408
	014 058	.024	.272	1.793	.201	(s)	2.203
	014 058 085	.037	276	1.906	.267	.001	2.414
June	014 058	.020	E.287	1.874	.280	.002	2.395
	014 058 085	.009	RE .313	1.903	.332	.010	R 2.528
	014 058 085 072 068	.007	RE .306	1.931	.321	.012	R 2.533
	014 058 085 072 068 039		E .273				
	014 058 085 072 068 039 043		E 2.610	1.726 16.319	.308 2.619	.003 .025	2.268 21.226
	014 058 085 072 068 039 043 039	002					
03 9-Month Total 02 9-Month Total	014 058 085 072 068 039 043 039		2.551	15.712 14.792	2.367 2.073	.030 .066	20.325 19.184

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

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

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

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

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

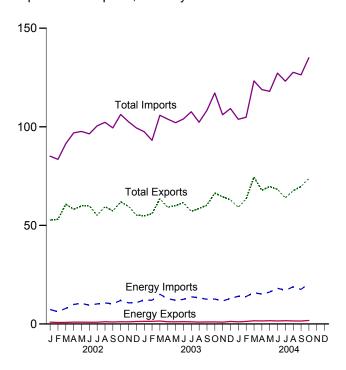
Web Page: http://www.eia.doe.gov/emeu/mer/overview.html.
Sources: • Coal: Tables 6.1 and A5. • Coal Coke: Section 2, "Energy Consumption Notes and Sources," Note 5, and Table A5. • Natural Gas: Tables 4.1 and A4. • Crude Oil and Petroleum Products: Tables 3.1b, A2, and A3. • Electricity: Tables 7.1 and A6.

Figure 1.5 Merchandise Trade Value (Billion Dollars)

Imports and Exports, 1974-2003

1,400 - 1,200 - 1,000 - 800 - Total Imports 400 - Total Exports Energy Imports 0

Imports and Exports, Monthly



Trade Balance, 1974-2003

1980

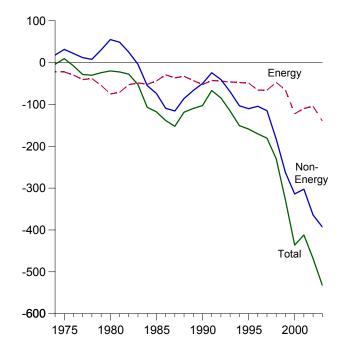
1985

1990

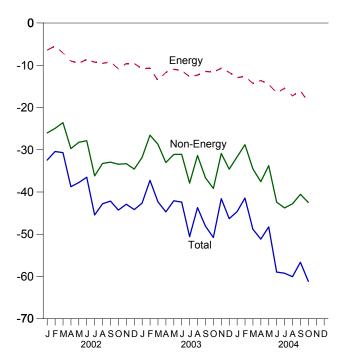
1995

2000

1975



Trade Balance, Monthly



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

Table 1.5 Merchandise Trade Value

(Million Dollars)

Exports	-22,010 -22,006 -29,770 -40,354 -38,215 -54,377 -74,942 -71,081 -52,680 -48,452 -51,669 -43,946 -29,195 -36,506 -32,806 -42,910	Energy Balance 18,126 31,557 21,950 12,001 8,010 30,455 55,246 48,814 25,170 -3,957 -55,033 -73,765 -109,084	99,437 108,856 116,794 123,182 145,847 186,363 225,566 238,715 216,442 205,639 223,976 218,815	103,321 99,305 124,614 151,534 176,052 210,285 245,262 260,982 243,952 258,048 330,678	-3,884 9,551 -7,820 -28,353 -30,205 -23,922 -19,696 -22,267 -27,510 -52,409 -106,703
1975 Total 907 25,197 -24,289 4,470 26,476 1976 Total 998 32,226 -31,228 4,226 33,996 1977 Total 1,276 42,368 -41,093 4,184 44,537 1978 Total 1,561 39,526 -37,965 3,881 42,096 1979 Total 1,914 56,715 -54,801 5,621 59,998 1980 Total 2,833 78,637 -75,803 7,982 82,924 1981 Total 3,696 76,659 -72,963 10,279 81,360 1982 Total 5,947 60,458 -54,511 12,729 65,409 1983 Total 4,557 53,217 -48,659 9,500 57,952 1984 Total 4,470 56,924 -52,454 9,311 60,980 1985 Total 4,707 50,475 -45,768 9,971 53,917 1986 Total 3,640 35,142 -31,503 8,115 37,310 1987 Total 3,624	-22,006 -29,770 -40,354 -38,215 -54,377 -74,942 -71,081 -52,680 -48,452 -51,669 -43,946 -29,195 -36,506 -32,806	31,557 21,950 12,001 8,010 30,455 55,246 48,814 25,170 -3,957 -55,033 -73,765 -109,084	108,856 116,794 123,182 145,847 186,363 225,566 238,715 216,442 205,639 223,976 218,815	99,305 124,614 151,534 176,052 210,285 245,262 260,982 243,952 258,048 330,678	9,551 -7,820 -28,353 -30,205 -23,922 -19,696 -22,267 -27,510 -52,409
1975 Total 907 25,197 -24,289 4,470 26,476 1976 Total 998 32,226 -31,228 4,226 33,996 1977 Total 1,276 42,368 -41,093 4,184 44,537 1978 Total 1,561 39,526 -37,965 3,881 42,096 1979 Total 1,914 56,715 -54,801 5,621 59,998 1980 Total 2,833 78,637 -75,803 7,982 82,924 1981 Total 3,696 76,659 -72,963 10,279 81,360 1982 Total 5,947 60,458 -54,511 12,729 65,409 1983 Total 4,557 53,217 -48,659 9,500 57,952 1984 Total 4,470 56,924 -52,454 9,311 60,980 1985 Total 4,707 50,475 -45,768 9,971 53,917 1986 Total 3,640 35,142 -31,503 8,115 37,310 1987 Total 3,624	-22,006 -29,770 -40,354 -38,215 -54,377 -74,942 -71,081 -52,680 -48,452 -51,669 -43,946 -29,195 -36,506 -32,806	31,557 21,950 12,001 8,010 30,455 55,246 48,814 25,170 -3,957 -55,033 -73,765 -109,084	108,856 116,794 123,182 145,847 186,363 225,566 238,715 216,442 205,639 223,976 218,815	99,305 124,614 151,534 176,052 210,285 245,262 260,982 243,952 258,048 330,678	9,551 -7,820 -28,353 -30,205 -23,922 -19,696 -22,267 -27,510 -52,409
1976 Total 998 32,226 -31,228 4,226 33,996 1977 Total 1,276 42,368 -41,093 4,184 44,537 1978 Total 1,561 39,526 -37,965 3,881 42,096 1979 Total 1,914 56,715 -54,801 5,621 59,998 1980 Total 2,833 78,637 -75,803 7,982 82,924 1981 Total 3,696 76,659 -72,963 10,279 81,360 1982 Total 5,947 60,458 -54,511 12,729 65,409 1983 Total 4,557 53,217 -48,659 9,500 57,952 1984 Total 4,470 56,924 -52,454 9,311 60,980 1985 Total 3,640 35,142 -31,503 8,115 37,310 1987 Total 3,622 42,285 -38,363 7,713 44,220 1988 Total 3,693 38,787 -35,094 8,235 41,042 1989 Total 6,9	-29,770 -40,354 -38,215 -54,377 -74,942 -71,081 -52,680 -48,452 -51,669 -43,946 -29,195 -36,506 -32,806	21,950 12,001 8,010 30,455 55,246 48,814 25,170 -3,957 -55,033 -73,765 -109,084	116,794 123,182 145,847 186,363 225,566 238,715 216,442 205,639 223,976 218,815	124,614 151,534 176,052 210,285 245,262 260,982 243,952 258,048 330,678	-7,820 -28,353 -30,205 -23,922 -19,696 -22,267 -27,510 -52,409
1977 Total 1,276 42,368 -41,093 4,184 44,537 1978 Total 1,561 39,526 -37,965 3,881 42,096 1979 Total 1,914 56,715 -54,801 5,621 59,998 1980 Total 2,833 78,637 -75,803 7,982 82,924 1981 Total 3,696 76,659 -72,963 10,279 81,360 1982 Total 5,947 60,458 -54,511 12,729 65,409 1983 Total 4,557 53,217 -48,659 9,500 57,952 1984 Total 4,470 56,924 -52,454 9,311 60,980 1985 Total 4,707 50,475 -45,768 9,971 53,917 1986 Total 3,640 35,142 -31,503 8,115 37,310 1987 Total 3,693 38,787 -35,094 8,235 41,042 1988 Total 5,021 49,704 -44,663 9,869 52,779 1990 Total 6	-40,354 -38,215 -54,377 -74,942 -71,081 -52,680 -48,452 -51,669 -43,946 -29,195 -36,506 -32,806	12,001 8,010 30,455 55,246 48,814 25,170 -3,957 -55,033 -73,765 -109,084	123,182 145,847 186,363 225,566 238,715 216,442 205,639 223,976 218,815	151,534 176,052 210,285 245,262 260,982 243,952 258,048 330,678	-28,353 -30,205 -23,922 -19,696 -22,267 -27,510 -52,409
1978 Total	-54,377 -74,942 -71,081 -52,680 -48,452 -51,669 -43,946 -29,195 -36,506 -32,806	30,455 55,246 48,814 25,170 -3,957 -55,033 -73,765 -109,084	186,363 225,566 238,715 216,442 205,639 223,976 218,815	210,285 245,262 260,982 243,952 258,048 330,678	-23,922 -19,696 -22,267 -27,510 -52,409
1980 Total 2,833 78,637 -75,803 7,982 82,924 1981 Total 3,696 76,659 -72,963 10,279 81,360 1982 Total 5,947 60,458 -54,511 12,729 65,409 1983 Total 4,557 53,217 -48,659 9,500 57,952 1984 Total 4,470 56,924 -52,454 9,311 60,980 1985 Total 3,640 35,142 -31,503 8,115 37,310 1987 Total 3,922 42,285 -38,363 7,713 44,220 1988 Total 3,693 38,787 -35,094 8,235 41,042 1989 Total 5,021 49,704 -44,683 9,869 52,779 1990 Total 6,901 61,583 -54,682 12,233 64,661 1991 Total 6,954 51,350 -44,986 12,081 55,256 1993 Total 6,215 51,046 -44,831 9,756 55,900 1994 Total <td< th=""><td>-74,942 -71,081 -52,680 -48,452 -51,669 -43,946 -29,195 -36,506 -32,806</td><td>55,246 48,814 25,170 -3,957 -55,033 -73,765 -109,084</td><td>225,566 238,715 216,442 205,639 223,976 218,815</td><td>245,262 260,982 243,952 258,048 330,678</td><td>-19,696 -22,267 -27,510 -52,409</td></td<>	-74,942 -71,081 -52,680 -48,452 -51,669 -43,946 -29,195 -36,506 -32,806	55,246 48,814 25,170 -3,957 -55,033 -73,765 -109,084	225,566 238,715 216,442 205,639 223,976 218,815	245,262 260,982 243,952 258,048 330,678	-19,696 -22,267 -27,510 -52,409
1981 Total 3,696 76,659 -72,963 10,279 81,360 1982 Total 5,947 60,458 -54,511 12,729 65,409 1983 Total 4,557 53,217 -48,659 9,500 57,952 1984 Total 4,470 56,924 -52,454 9,311 60,980 1985 Total 4,707 50,475 -45,768 9,971 53,917 1986 Total 3,640 35,142 -31,503 8,115 37,310 1987 Total 3,922 42,285 -38,363 7,713 44,220 1988 Total 3,693 38,787 -35,094 8,235 41,042 1988 Total 5,021 49,704 -44,663 9,869 52,779 1990 Total 6,901 61,583 -54,682 12,233 64,661 1991 Total 6,954 51,350 -44,396 12,081 54,629 1992 Total 6,215 51,046 -44,831 9,756 55,256 1993 Total <td< th=""><td>-71,081 -52,680 -48,452 -51,669 -43,946 -29,195 -36,506 -32,806</td><td>48,814 25,170 -3,957 -55,033 -73,765 -109,084</td><td>238,715 216,442 205,639 223,976 218,815</td><td>260,982 243,952 258,048 330,678</td><td>-22,267 -27,510 -52,409</td></td<>	-71,081 -52,680 -48,452 -51,669 -43,946 -29,195 -36,506 -32,806	48,814 25,170 -3,957 -55,033 -73,765 -109,084	238,715 216,442 205,639 223,976 218,815	260,982 243,952 258,048 330,678	-22,267 -27,510 -52,409
1982 Total 5,947 60,458 -54,511 12,729 65,409 1983 Total 4,557 53,217 -48,659 9,500 57,952 1984 Total 4,470 56,924 -52,454 9,311 60,980 1985 Total 3,640 35,142 -31,503 8,115 37,310 1987 Total 3,922 42,285 -38,363 7,713 44,220 1988 Total 3,693 38,787 -35,094 8,235 41,042 1989 Total 5,021 49,704 -44,683 9,869 52,779 1990 Total 6,901 61,583 -54,662 12,233 64,661 1991 Total 6,954 51,350 -44,996 12,081 54,629 1992 Total 6,412 51,217 -44,805 11,254 55,256 1993 Total 6,215 51,046 -44,831 9,756 55,900 1994 Total 5,659 50,835 -45,176 8,911 56,391 1995 Total <td< th=""><td>-52,680 -48,452 -51,669 -43,946 -29,195 -36,506 -32,806</td><td>25,170 -3,957 -55,033 -73,765 -109,084</td><td>216,442 205,639 223,976 218,815</td><td>243,952 258,048 330,678</td><td>-27,510 -52,409</td></td<>	-52,680 -48,452 -51,669 -43,946 -29,195 -36,506 -32,806	25,170 -3,957 -55,033 -73,765 -109,084	216,442 205,639 223,976 218,815	243,952 258,048 330,678	-27,510 -52,409
1983 Total 4,557 53,217 -48,659 9,500 57,952 1984 Total 4,470 56,924 -52,454 9,311 60,980 1985 Total 4,707 50,475 -45,768 9,971 53,917 1986 Total 3,640 35,142 -31,503 8,115 37,310 1987 Total 3,922 42,285 -38,363 7,713 44,220 1988 Total 3,693 38,787 -35,094 8,235 41,042 1989 Total 6,901 61,583 -54,682 12,233 64,661 1991 Total 6,954 51,350 -44,396 12,081 54,629 1992 Total 6,412 51,217 -44,805 11,254 55,256 1993 Total 6,215 51,046 -44,831 9,756 55,900 1994 Total 5,659 50,835 -45,176 8,911 56,391 1995 Total 6,321 54,368 -48,047 10,358 59,109 1996 Total <td< th=""><td>-48,452 -51,669 -43,946 -29,195 -36,506 -32,806</td><td>-3,957 -55,033 -73,765 -109,084</td><td>205,639 223,976 218,815</td><td>258,048 330,678</td><td>-52,409</td></td<>	-48,452 -51,669 -43,946 -29,195 -36,506 -32,806	-3,957 -55,033 -73,765 -109,084	205,639 223,976 218,815	258,048 330,678	-52,409
1984 Total 4,470 56,924 -52,454 9,311 60,980 1985 Total 4,707 50,475 -45,768 9,971 53,917 1986 Total 3,640 35,142 -31,503 8,115 37,310 1987 Total 3,922 42,285 -38,363 7,713 44,220 1988 Total 3,693 38,787 -35,094 8,235 41,042 1989 Total 6,901 61,583 -54,682 12,233 64,661 1991 Total 6,954 51,350 -44,396 12,081 54,629 1992 Total 6,412 51,217 -44,805 11,254 55,256 1993 Total 6,215 51,046 -44,831 9,756 55,900 1994 Total 5,659 50,835 -45,176 8,911 56,391 1995 Total 6,321 54,368 -48,047 10,358 59,109 1995 Total 6,321 54,368 -48,047 10,358 59,109 1995 Total <t< th=""><td>-51,669 -43,946 -29,195 -36,506 -32,806</td><td>-55,033 -73,765 -109,084</td><td>223,976 218,815</td><td>330,678</td><td></td></t<>	-51,669 -43,946 -29,195 -36,506 -32,806	-55,033 -73,765 -109,084	223,976 218,815	330,678	
1985 Total 4,707 50,475 -45,768 9,971 53,917 1986 Total 3,640 35,142 -31,503 8,115 37,310 1987 Total 3,922 42,285 -38,363 7,713 44,220 1988 Total 3,693 38,787 -35,094 8,235 41,042 1989 Total 5,021 49,704 -44,683 9,869 52,779 1990 Total 6,901 61,583 -54,682 12,233 64,661 1991 Total 6,954 51,350 -44,396 12,081 54,629 1992 Total 6,412 51,217 -44,805 11,254 55,256 1993 Total 6,215 51,046 -44,831 9,756 55,900 1994 Total 6,321 54,368 -48,047 10,358 59,109 1995 Total 6,321 54,368 -48,047 10,358 59,109 1995 Total 6,321 54,368 -48,047 10,358 59,109 1995 Total <	-43,946 -29,195 -36,506 -32,806	-73,765 -109,084	218,815		
1986 Total 3,640 35,142 -31,503 8,115 37,310 1987 Total 3,922 42,285 -38,633 7,713 44,220 1988 Total 3,693 38,787 -35,094 8,235 41,042 1989 Total 5,021 49,704 -44,683 9,869 52,779 1990 Total 6,901 61,583 -54,682 12,233 64,661 1991 Total 6,954 51,350 -44,396 12,081 54,629 1992 Total 6,412 51,217 -44,805 11,254 55,256 1993 Total 6,215 51,046 -44,831 9,756 55,900 1994 Total 5,659 50,835 -45,176 8,911 56,391 1995 Total 6,321 54,368 -48,047 10,358 59,109 1996 Total 7,984 72,022 -64,038 12,181 78,086 1997 Total 8,592 71,152 -62,560 12,682 78,277 1998 Total <	-29,195 -36,506 -32,806	-109,084		336,526	-117,712
1987 Total 3,922 42,285 -38,363 7,713 44,220 1988 Total 3,693 38,787 -35,094 8,235 41,042 1989 Total 5,021 49,704 -44,683 9,869 52,779 1990 Total 6,901 61,583 -54,682 12,233 64,661 1991 Total 6,954 51,350 -44,396 12,081 54,629 1992 Total 6,412 51,217 -44,805 11,254 55,256 1993 Total 6,215 51,046 -44,831 9,756 55,900 1994 Total 5,659 50,835 -45,176 8,911 56,391 1995 Total 6,321 54,368 -48,047 10,358 59,109 1996 Total 7,984 72,022 -64,038 12,181 78,086 1997 Total 8,592 71,152 -62,560 12,682 78,277 1998 Total 6,574 50,264 -43,690 10,251 57,323 1999 Total	-32,806		227,159	365,438	-138,279
1988 Total 3,693 38,787 -35,094 8,235 41,042 1989 Total 5,021 49,704 -44,683 9,869 52,779 1990 Total 6,901 61,583 -54,682 12,233 64,661 1991 Total 6,954 51,350 -44,396 12,081 54,629 1992 Total 6,412 51,217 -44,805 11,254 55,256 1993 Total 6,215 51,046 -44,831 9,756 55,900 1994 Total 5,659 50,835 -45,176 8,911 56,391 1995 Total 6,321 54,368 -48,047 10,358 59,109 1995 Total 6,321 54,368 -48,047 10,358 59,109 1995 Total 6,321 54,368 -48,047 10,358 59,109 1996 Total 7,984 72,022 -64,038 12,181 78,086 1997 Total 8,592 71,152 -62,560 12,682 78,277 1998 Total		-115,613	254,122	406,241	-152,119
1990 Total 6,901 61,583 -54,682 12,233 64,661 1991 Total 6,954 51,350 -44,396 12,081 54,629 1992 Total 6,412 51,217 -44,805 11,254 55,256 1993 Total 6,215 51,046 -44,831 9,756 55,900 1994 Total 5,659 50,835 -45,176 8,911 56,391 1995 Total 6,321 54,368 -48,047 10,358 59,109 1996 Total 7,984 72,022 -64,038 12,181 78,086 1997 Total 8,592 71,152 -62,560 12,682 78,277 1998 Total 6,574 50,264 -43,690 10,251 57,323 1999 Total 7,118 67,173 -60,055 9,880 75,803 2000 Total 10,192 119,251 -109,059 13,179 135,367 2001 Total 8,868 102,747 -93,879 12,494 121,923 2002 January <td>-42.910</td> <td>-85,720</td> <td>322,426</td> <td>440,952</td> <td>-118,526</td>	-42.910	-85,720	322,426	440,952	-118,526
1991 Total 6,954 51,350 -44,396 12,081 54,629 1992 Total 6,412 51,217 -44,805 11,254 55,256 1993 Total 6,215 51,046 -44,831 9,756 55,900 1994 Total 5,659 50,835 -45,176 8,911 56,391 1995 Total 6,321 54,368 -48,047 10,358 59,109 1996 Total 7,984 72,022 -64,038 12,181 78,086 1997 Total 8,592 71,152 -62,560 12,682 78,277 1998 Total 6,574 50,264 -43,690 10,251 57,323 1999 Total 7,118 67,173 -60,055 9,880 75,803 2001 Total 10,192 119,251 -109,059 13,179 135,367 2001 Total 8,868 102,747 -93,879 12,494 121,923 2002 January 639 6,348 -5,709 908 7,321 February		-66,490	363,812	473,211	-109,399
1992 Total 6,412 51,217 -44,805 11,254 55,256 1993 Total 6,215 51,046 -44,831 9,756 55,900 1994 Total 5,659 50,835 -45,176 8,911 56,391 1995 Total 6,321 54,368 -48,047 10,358 59,109 1996 Total 7,984 72,022 -64,038 12,181 78,086 1997 Total 8,592 71,152 -62,560 12,682 78,277 1998 Total 6,574 50,264 -43,690 10,251 57,323 1999 Total 7,118 67,173 -60,055 9,880 75,803 2001 Total 10,192 119,251 -109,059 13,179 135,367 2001 Total 8,868 102,747 -93,879 12,494 121,923 2002 January 639 6,348 -5,709 908 7,321 February 597 5,427 -4,830 744 6,200 March 593	-52,428	-50,068	393,592	496,088	-102,496
1993 Total 6,215 51,046 -44,831 9,756 55,900 1994 Total 5,659 50,835 -45,176 8,911 56,391 1995 Total 6,321 54,368 -48,047 10,358 59,109 1996 Total 7,984 72,022 -64,038 12,181 78,086 1997 Total 8,592 71,152 -62,560 12,682 78,277 1998 Total 6,574 50,264 -43,690 10,251 57,323 1999 Total 7,118 67,173 -60,055 9,880 75,803 2000 Total 10,192 119,251 -109,059 13,179 135,367 2001 Total 8,868 102,747 -93,879 12,494 121,923 2002 January 639 6,348 -5,709 908 7,321 February 597 5,427 -4,830 744 6,200 March 593 6,914 -6,321 782 7,878 April 676 8	-42,548	-24,175	421,730	488,453	-66,723
1994 Total 5,659 50,835 -45,176 8,911 56,391 1995 Total 6,321 54,368 -48,047 10,358 59,109 1996 Total 7,984 72,022 -64,038 12,181 78,086 1997 Total 8,592 71,152 -62,560 12,682 78,277 1998 Total 6,574 50,264 -43,690 10,251 57,323 1999 Total 7,118 67,173 -60,055 9,880 75,803 2000 Total 10,192 119,251 -109,059 13,179 135,367 2001 Total 8,868 102,747 -93,879 12,494 121,923 2002 January 639 6,348 -5,709 908 7,321 February 597 5,427 -4,830 744 6,200 March 593 6,914 -6,321 782 7,878 April 676 8,907 -8,231 910 9,917 May 664 9,365	-44,002 -46,144	-40,500 -69,425	448,164 465,091	532,665 580,659	-84,501 -115,568
1995 Total 6,321 54,368 -48,047 10,358 59,109 1996 Total 7,984 72,022 -64,038 12,181 78,086 1997 Total 8,592 71,152 -62,560 12,682 78,277 1998 Total 6,574 50,264 -43,690 10,251 57,323 1999 Total 7,118 67,173 -60,055 9,880 75,803 2000 Total 10,192 119,251 -109,059 13,179 135,367 2001 Total 8,868 102,747 -93,879 12,494 121,923 2002 January 639 6,348 -5,709 908 7,321 February 597 5,427 -4,830 744 6,200 March 593 6,914 -6,321 782 7,878 April 676 8,907 -8,231 910 9,917 May 664 9,365 -8,701 903 10,423 June 603 8,465 -7,8	-46,144 -47,480	-103,149	512,626	663,256	-150,629
1996 Total 7,984 72,022 -64,038 12,181 78,086 1997 Total 8,592 71,152 -62,560 12,682 78,277 1998 Total 6,574 50,264 -43,690 10,251 57,323 1999 Total 7,118 67,173 -60,055 9,880 75,803 2000 Total 10,192 119,251 -109,059 13,179 135,367 2001 Total 8,868 102,747 -93,879 12,494 121,923 2002 January 639 6,348 -5,709 908 7,321 February 597 5,427 -4,830 744 6,200 March 593 6,914 -6,321 782 7,878 April 676 8,907 -8,231 910 9,917 May 664 9,365 -8,701 903 10,423 June 603 8,465 -7,862 883 9,522 July 664 9,086 -8,422	-48,751	-110,050	584,742	743,543	-158,801
1997 Total 8,592 71,152 -62,560 12,682 78,277 1998 Total 6,574 50,264 -43,690 10,251 57,323 1999 Total 7,118 67,173 -60,055 9,880 75,803 2000 Total 10,192 119,251 -109,059 13,179 135,367 2001 Total 8,868 102,747 -93,879 12,494 121,923 2002 January 639 6,348 -5,709 908 7,321 February 597 5,427 -4,830 744 6,200 March 593 6,914 -6,321 782 7,878 April 676 8,907 -8,231 910 9,917 May 664 9,365 -8,701 903 10,423 June 603 8,465 -7,862 883 9,522 July 664 9,086 -8,422 883 10,153 August 822 9,637 -8,815 1,121	-65,905	-104,309	625,075	795,289	-170,214
1998 Total 6,574 50,264 -43,690 10,251 57,323 1999 Total 7,118 67,173 -60,055 9,880 75,803 2000 Total 10,192 119,251 -109,059 13,179 135,367 2001 Total 8,868 102,747 -93,879 12,494 121,923 2002 January 639 6,348 -5,709 908 7,321 February 597 5,427 -4,830 744 6,200 March 593 6,914 -6,321 782 7,878 April 676 8,907 -8,231 910 9,917 May 664 9,365 -8,701 903 10,423 Jule 603 8,465 -7,862 883 9,522 July 664 9,086 -8,422 883 10,153 August 822 9,637 -8,815 1,121 10,667	-65,595	-114,927	689,182	869,704	-180,522
2000 Total 10,192 119,251 -109,059 13,179 135,367 2001 Total 8,868 102,747 -93,879 12,494 121,923 2002 January 639 6,348 -5,709 908 7,321 February 597 5,427 -4,830 744 6,200 March 593 6,914 -6,321 782 7,878 April 676 8,907 -8,231 910 9,917 May 664 9,365 -8,701 903 10,423 June 603 8,465 -7,862 883 9,522 July 664 9,086 -8,422 883 10,153 August 822 9,637 -8,815 1,121 10,667	-47,072	-182,686	682,138	911,896	-229,758
2001 Total 8,868 102,747 -93,879 12,494 121,923 2002 January 639 6,348 -5,709 908 7,321 February 597 5,427 -4,830 744 6,200 March 593 6,914 -6,321 782 7,878 April 676 8,907 -8,231 910 9,917 May 664 9,365 -8,701 903 10,423 June 603 8,465 -7,862 883 9,522 July 664 9,086 -8,422 883 10,153 August 822 9,637 -8,815 1,121 10,667	-65,923	-262,898	695,797	1,024,618	-328,821
2002 January 639 6,348 -5,709 908 7,321 February 597 5,427 -4,830 744 6,200 March 593 6,914 -6,321 782 7,878 April 676 8,907 -8,231 910 9,917 May 664 9,365 -8,701 903 10,423 June 603 8,465 -7,862 883 9,522 July 664 9,086 -8,422 883 10,153 August 822 9,637 -8,815 1,121 10,667	-122,188	-313,916	781,918	1,218,022	-436,104
February 597 5,427 -4,830 744 6,200 March 593 6,914 -6,321 782 7,878 April 676 8,907 -8,231 910 9,917 May 664 9,365 -8,701 903 10,423 June 603 8,465 -7,862 883 9,522 July 664 9,086 -8,422 883 10,153 August 822 9,637 -8,815 1,121 10,667	-109,429	-302,470	729,100	1,140,999	-411,899
March 593 6,914 -6,321 782 7,878 April 676 8,907 -8,231 910 9,917 May 664 9,365 -8,701 903 10,423 June 603 8,465 -7,862 883 9,522 July 664 9,086 -8,422 883 10,153 August 822 9,637 -8,815 1,121 10,667	-6,413	-26,031	52,667	85,111	-32,444
April 676 8,907 -8,231 910 9,917 May 664 9,365 -8,701 903 10,423 June 603 8,465 -7,862 883 9,522 July 664 9,086 -8,422 883 10,153 August 822 9,637 -8,815 1,121 10,667	-5,456	-24,955	53,061	83,473	-30,411
May 664 9,365 -8,701 903 10,423 June 603 8,465 -7,862 883 9,522 July 664 9,086 -8,422 883 10,153 August 822 9,637 -8,815 1,121 10,667	-7,096	-23,591	60,728	91,415	-30,687
June 603 8,465 -7,862 883 9,522 July 664 9,086 -8,422 883 10,153 August 822 9,637 -8,815 1,121 10,667	-9,007	-29,738	58,146	96,891	-38,745
July 664 9,086 -8,422 883 10,153 August 822 9,637 -8,815 1,121 10,667	-9,520 -8,639	-28,245 -27,856	59,884 59,920	97,649 96,415	-37,765 -36,495
August	-9,270	-36,170	55,032	100,472	-45,440
	-9,546	-33,241	59,491	102,277	-42,787
September 720 9,119 -0,333 979 10,191	-9,212	-32,939	57,277	99,429	-42,151
October 827 10,712 -9,885 1,104 11,961	-10,857	-33,419	61,975	106,251	-44,276
November	-9,597	-33,297	59,671	102,564	-42,894
December	-9,592	-34,577	55,249	99,418	-44,169
Total 8,569 102,663 -94,094 11,541 115,748	-104,207	-364,056	693,103	1,161,366	-468,263
2003 January	-10,827	-31,810	54,854	97,491	-42,637
February	-10,687	-26,550	55,917	93,154	-37,237
March	-13,619 -11,685	-28,699 -33,022	63,524 59,162	105,842 103,869	-42,318 -44,707
May	-10,958	-31.127	59,983	102,068	-42.085
June	-11,297	-31,090	61,570	103,958	-42,387
July	-12,672	-37,889	57,070	107,631	-50,561
August	-12,331	-31,365	58,611	102,307	-43,696
September 783 10,958 -10,175 1,049 12,506	-11,457	-36,626	60,239	108,322	-48,083
October 782 11,134 -10,352 1,048 12,655	-11,607	-39,162	66,389	117,158	-50,769
November	-10,700 -11,690	-30,875 -34,606	64,492 62,959	106,066	-41,575 -46,296
December 876 11,102 -10,226 1,266 12,956 Total 10,209 132,433 -122,224 13,768 153,298	-139,530	-392,820	724,771	109,255 1,257,121	-532,350
2004 January	-12,941	-31,708	59,151	103,800	-44,649
February	-12,638	-28,809	63,388	104,835	-41,447
March	-14,278	-34,533	74,475	123,287	-48,811
April	-13,605	-37,551	67,760	118,917	-51,156
May 1,133 14,143 -13,010 1,662 16,163	-14,501	-33,760	69,704	117,965	-48,261
June	-16,552	-42,395	68,273	127,220	-58,947
July	-15,447	-43,763	63,906	123,117	-59,210
August	-17,251 -16,070	-42,801 ^R -40,551	67,556 ^R 69,685	127,608 R 126,306	-60,052 ^R -56,621
October	-18,677	-42,474	73,849	135,000	-61,151
10-Month Total 10,520 145,205 -134,685 15,113 167,073	-151,960	-378,345	677,747	1,208,053	-530,306
2003 10-Month Total 8,641 111,142 -102,501 11,572 128,712	-117,140	-327,340	597,320	1,041,800	-444,480
2002 10-Month Total 6,811 83,980 -77,169 9,217 94,233	-85,016	-296,185	578,183	959,383	-381,200

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

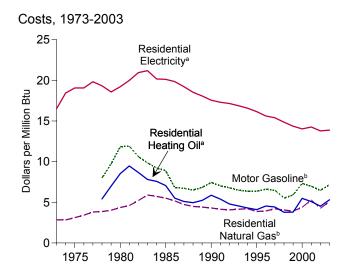
b Petroleum, coal, natural gas, and electricity.
R=Revised.

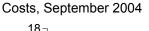
nongovernment imports of merchandise from foreign countries into the U.S. customs territory, which comprises the 50 States, the District of Columbia, Puerto Rico, and the Virgin Islands.

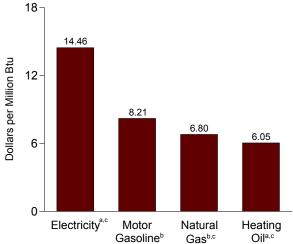
Web Page: http://www.eia.doe.gov/emeu/mer/overview.html.
Source: U.S. Department of Commerce, Bureau of the Census, Foreign
Trade Division. For details, see "Sources for Table 1.5" at the end of this section.

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

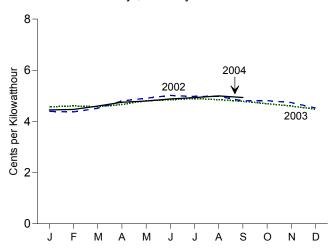
Figure 1.6 Cost of Fuels to End Users in Constant (1982-1984) Dollars



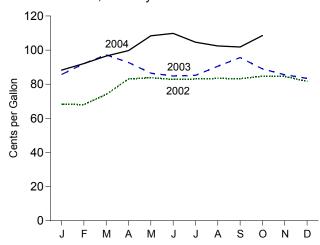




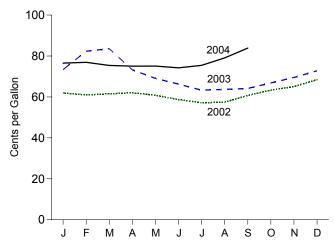
Residential Electricity^a, Monthly



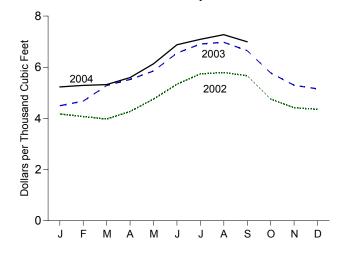
Motor Gasoline^b, Monthly



Residential Heating Oila, Monthly



Residential Natural Gasb, Monthly



^aExcludes taxes.

^cResidential.

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

blncludes taxes.

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

	Consumer Price Index (Urban) ^a	Motor G	iasoline ^b		lential ng Oil ^c	Resid Natura	ential I Gas ^b	Resid Electr	
	Index 1982-1984=100	Cents per Gallon	Dollars per Million Btu	Cents per Gallon	Dollars per Million Btu	Cents per Thousand Cubic Feet	Dollars per Million Btu	Cents per Kilowatthour	Dollars 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	NA NA	NA NA	348.0	3.41	6.5	19.06
1977 Average	60.6 65.2	NA 100.0	NA 8.00	NA 75.2	NA 5.42	387.8 392.6	3.81 3.86	6.8 6.6	19.83 19.33
1978 Average 1979 Average	72.6	121.5	9.71	97.0	6.99	410.5	4.03	6.3	18.57
1980 Average	82.4	148.2	11.85	118.2	8.52	446.6	4.36	6.6	19.21
1981 Average	90.9	148.8	11.90	131.4	9.47	471.9	4.60	6.8	19.99
1982 Average	96.5	132.7	10.61	120.2	8.67	535.8	5.22	7.2	20.96
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	20.13
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 Average	163.0	68.4	5.51 5.01	52.3	3.77	418.4	4.05	5.07	14.85 14.36
999 Average	166.6 172.2	73.3 90.8	5.91 7.32	52.6 76.1	3.79 5.49	401.6 450.6	3.91 4.39	4.90 4.79	14.02
2000 Average 2001 Average	177.1	86.4	6.97	70.6	5.09	543.8	5.27	4.87	14.27
2002 January	177.1	68.3	5.51	61.9	4.47	417.3	4.05	4.57	13.39
February	177.8	68.1	5.49	61.0	4.40	407.2	3.95	4.61	13.50
March	178.8	74.0	5.97	61.5	4.44	397.7	3.86	4.57	13.39
April	179.8	83.0	6.70	62.1	4.48	427.1	4.15	4.66	13.66
May	179.8	83.9	6.76	60.8	4.38	475.5	4.62	4.81	14.08
June	179.9	82.8	6.67	58.8	4.24	533.6	5.18	4.85	14.21
July	180.1	83.1	6.70	57.1	4.12	574.1	5.57	4.89	14.34
August	180.7	83.5	6.73	57.4	4.14	579.4	5.63	4.85	14.21
September	181.0 181.3	83.3	6.71 6.83	60.7	4.38	566.9	5.50 4.62	4.78	14.02 13.76
October	181.3	84.7 84.6		63.3	4.57 4.69	475.5 441.8	4.62 4.29	4.69 4.60	13.76
November December	180.9	81.6	6.82 6.58	65.1 68.4	4.93	435.6	4.23	4.48	13.46
Average	179.9	80.1	6.46	62.8	4.52	439.7	4.27	4.70	13.78
Average	175.5	00.1	0.40	02.0	4.52	433.1	4.21	4.70	13.70
2003 January	181.7	85.7	6.91	73.3	5.29	449.6	4.37	4.39	12.87
February	183.1	92.1	7.43	82.4	5.94	467.5	4.54	4.37	12.81
March	184.2	97.2	7.84	83.6	6.02	528.8	5.14	4.51	13.22
April	183.8	92.7	7.48	73.2	5.28	552.2	5.37	4.80	14.06
May	183.5	86.5	6.98	69.0	4.98	585.3	5.69	4.90	14.37
June	183.7	84.8	6.84	66.2	4.78	655.4	6.37	5.01	14.69
July	183.9	85.2	6.87	63.3	4.56	690.6	6.71	4.98	14.58
August	184.6	90.5	7.30	63.7	4.59	697.7	6.78	4.98	14.59
September	185.2	95.6	7.71	64.1	4.63	664.7	_ 6.46	4.81	14.08
October	185.0	89.0	7.18	66.8	4.82	^R 577.8	^R 5.62	4.81	14.10
November	184.5	85.5	6.90	69.5	5.01	529.5	5.15	4.74	13.88
December	184.3	83.5	6.73	72.8	5.25	515.5	5.01	4.53	13.26
Average	184.0	89.0	7.18	73.6	5.31	522.8	5.08	4.73	13.87
2004 January	185.2	88.3	7.12	76.5	5.52	523.2	5.08	4.45	13.04
February	186.2	92.1	7.43	76.9	5.55	529.0	5.14	4.47	13.10
March	187.4	96.5	7.79	75.4	5.44	532.0	5.17	4.60	13.48
April	188.0	99.7	8.04	75.1	5.41	559.6	5.44	4.75	13.92
May	189.1	108.4	8.74	75.1	5.41	613.4	5.96	4.80	14.06
June	189.7	109.8	8.86	74.2	5.35	687.9	6.69 B 6.00	4.88	14.29
July	189.4	104.6	8.44	75.4 70.1	5.44 5.70	R 709.1	R 6.89	4.93	14.45
August September	189.5 189.9	102.4	8.26	79.1	5.70 6.05	727.2	7.07	5.00	14.65
October	189.9	101.8 108.5	8.21 8.75	83.9 NA	6.05 NA	699.3 NA	6.80 NA	4.93 NA	14.46 NA
OCIODEI	150.5	100.0	0.75	INA	INA	INA	INA	INA	IVA

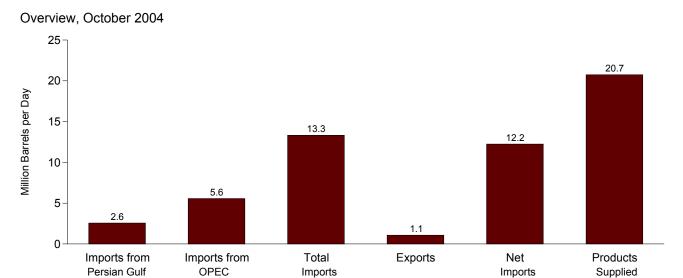
 $^{^{\}rm a}$ Consumer Price Index, All Urban Consumers, All Items, 1982-1984 = 100.0.

b Includes taxes.
c Excludes taxes.

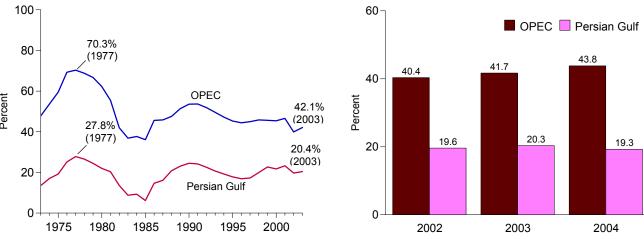
R=Revised. NA=Not available.

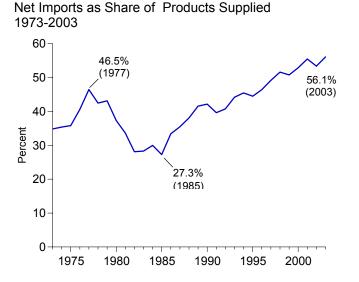
Notes: • Fuel costs are calculated by using the Urban Consumer Price Index (CPI) developed by the Bureau of Labor Statistics. • Annual averages may not equal average of months due to independent rounding.

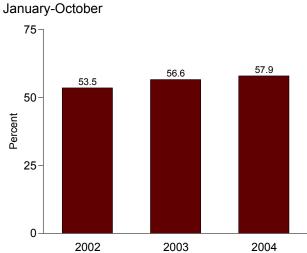
Figure 1.7 Overview of U.S. Petroleum Trade



Imports from OPEC and the Persian Gulf as a Share of Total Imports 1973-2003 January-October 100 60 ■ OPEC ■ Persian Gulf 70.3% 80 (1977)43.8 41.7 40.4 40 60 Percent **OPEC** Percent 42.1% (2003)27.8% 40 (1977)19.6 20.3 19.3 20 20.4% (2003)20 Persian Gulf 0







OPEC=Organization of Petroleum Exporting Countries. Note: Because vertical scales differ, graphs should not be compared. Web Page: http://www.eia.doe.gov/emeu/mer/overview.html.

Table 1.7 Overview of U.S. Petroleum Trade

									hare of s Supplied			are of mports	
	Imports from Persian Gulf ^a	Imports from OPEC ^b	Imports	Exports	Net Imports	Products Supplied	Imports from Persian Gulf ^a	Imports from OPEC ^b	Imports	Net Imports	Imports from Persian Gulf ^a	Imports from OPEC ^b	
	Thousand Barrels per Day						Percent						
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 975 Average	1,039 1,165	3,280 3,601	6,112 6,056	221 209	5,892 5,846	16,653 16,322	6.2 7.1	19.7 22.1	36.7 37.1	35.4 35.8	17.0 19.2	53.7 59.5	
976 Average	1,840	5,066	7,313	223	7,090	17,461	10.5	29.0	41.9	40.6	25.2	69.3	
977 Average	2,448 2,219	6,193 5,751	8,807 8,363	243 362	8,565 8,002	18,431 18,847	13.3 11.8	33.6 30.5	47.8 44.4	46.5 42.5	27.8 26.5	70.3 68.8	
978 Average979 Average	2,219	5,637	8,456	471	7,985	18,513	11.0	30.5	44.4 45.7	42.5 43.1	24.5	66.7	
980 Average	1,519	4,300	6,909	544	6,365	17,056	8.9	25.2	40.5	37.3	22.0	62.2	
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 983 Average	696 442	2,146 1,862	5,113 5,051	815 739	4,298 4,312	15,296 15,231	4.5 2.9	14.0 12.2	33.4 33.2	28.1 28.3	13.6 8.8	42.0 36.9	
984 Average	506	2,049	5,437	722	4,715	15,726	3.2	13.0	34.6	30.0	9.3	37.7	
985 Average	311	1,830	5,067	781	4,286	15,726	2.0	11.6	32.2	27.3	6.1	36.1	
986 Average	912 1,077	2,837 3,060	6,224 6,678	785 764	5,439 5,914	16,281	5.6 6.5	17.4 18.4	38.2 40.1	33.4 35.5	14.7 16.1	45.6 45.8	
987 Average 988 Average	1,541	3,520	7,402	815	6,587	16,665 17,283	8.9	20.4	42.8	38.1	20.8	47.6	
989 Average	1,861	4,140	8,061	859	7,202	17,325	10.7	23.9	46.5	41.6	23.1	51.4	
990 Average	1,966	4,296	8,018	857	7,161	16,988	11.6	25.3	47.2	42.2	24.5	53.6	
991 Average	1,845 1,778	4,092 4,092	7,627 7,888	1,001 950	6,626	16,714	11.0 10.4	24.5 24.0	45.6 46.2	39.6 40.7	24.2 22.5	53.7 51.9	
992 Average993 Average	1,7782	4,092	8,620	1,003	6,938 7,618	17,033 17,237	10.4	24.8	46.3 50.0	40.7 44.2	20.7	49.6	
994 Average	1,728	4,247	8,996	942	8,054	17,718	9.8	24.0	50.8	45.5	19.2	47.2	
995 Average	1,573	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 1,755	4,211 4,569	9,478 10,162	981 1,003	8,498 9,158	18,309 18,620	8.8 9.4	23.0 24.5	51.8 54.6	46.4 49.2	16.9 17.3	44.4 45.0	
997 Average 998 Average	2,136	4,905	10,708	945	9,764	18,917	11.3	25.9	56.6	51.6	19.9	45.8	
999 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 Average	2,488	5,203	11,459	1,040	10,419	19,701	12.6	26.4	58.2	52.9	21.7	45.4	
001 Average	2,761	5,528	11,871	971	10,900	19,649	14.1	28.1	60.4	55.5	23.3	46.6	
002 January February	2,670 2,484	5,029 4,733	11,088 10,904	861 1,175	10,228 9,729	19,454 19,444	13.7 12.8	25.9 24.3	57.0 56.1	52.6 50.0	24.1 22.8	45.4 43.4	
March	2,556	4,991	11,198	853	10.345	19,676	13.0	25.4	56.9	52.6	22.8	44.6	
April	2,400	4,606	11,765	890	10,876	19,552	12.3	23.6	60.2	55.6	20.4	39.1	
May	2,238	4,561	11,769	910	10,859	19,728	11.3	23.1	59.7	55.0	19.0	38.8	
June July	2,090 1,999	4,356 4,366	11,753 11,624	880 839	10,873 10,785	19,875 20,076	10.5 10.0	21.9 21.7	59.1 57.9	54.7 53.7	17.8 17.2	37.1 37.6	
August	1,903	4,638	11,890	1,138	10,752	20,221	9.4	22.9	58.8	53.2	16.0	39.0	
September	2,052	4,452	11,075	1,015	10,059	19,461	10.5	22.9	56.9	51.7	18.5	40.2	
October	2,177	4,686	11,893	962	10,931	19,678	11.1	23.8	60.4	55.5	18.3	39.4	
November December	2,222 2.449	4,682 4.164	12,268 11,100	1,026 1,272	11,242 9,828	19,991 19.943	11.1 12.3	23.4 20.9	61.4 55.7	56.2 49.3	18.1 22.1	38.2 37.5	
Average	2,269	4,605	11,530	984	10,546	19,761	11.5	23.3	58.3	53.4	19.7	39.9	
003 January	2,735	4,303	11,104	1,212	9,892	20,017	13.7	21.5	55.5	49.4	24.6	38.8	
February	2,676	4,052	10,921	1,067	9,854	20,375	13.1	19.9	53.6	48.4	24.5	37.1	
March April	2,818 3,148	5,433 5,949	12,044 12,599	1,051 1,053	10,993 11,546	19,708 19,830	14.3 15.9	27.6 30.0	61.1 63.5	55.8 58.2	23.4 25.0	45.1 47.2	
May	2,669	5,751	12,918	1,097	11,822	19,344	13.8	29.7	66.8	61.1	20.7	44.5	
June	2,327	5,526	13,001	1,065	11,936	19,793	11.8	27.9	65.7	60.3	17.9	42.5	
July	2,170	4,736 4,934	12,736 12,769	976 947	11,760 11.822	20,094 20.586	10.8 9.0	23.6 24.0	63.4 62.0	58.5 57.4	17.0 14.5	37.2 38.6	
August September	1,849 2,397	4,934 5,394	12,769	947 960	11,822	20,586 19,933	12.0	24.0 27.1	62.0 64.6	57.4 59.7	18.6	41.9	
October	2,353	5,342	12,373	970	11,402	20,182	11.7	26.5	61.3	56.5	19.0	43.2	
November	2,586	5,237	11,712	933	10,780	19,873	13.0	26.4	58.9	54.2	22.1	44.7	
December Average	2,312 2,501	5,225 5,162	12,033 12,264	990 1,027	11,043 11,238	20,679 20,034	11.2 12.5	25.3 25.8	58.2 61.2	53.4 56.1	19.2 20.4	43.4 42.1	
004 January	2,300	5,179	11,727	748	10,979	20,393	11.3	25.4	57.5	53.8	19.6	44.2	
February	2,098	5,179	12,329	1,046	11,283	20,549	10.2	25.4	60.0	54.9	17.0	42.3	
March	2,373	5,769	13,073	1,024	12,048	20,161	11.8	28.6	64.8	59.8	18.2	44.1	
April		5,388	12,450	1,153	11,297	20,207	11.5	26.7	61.6	55.9	18.7	43.3	
May June		5,753 5,865	12,989 13,301	1,052 1,070	11,937 12,231	20,209 20,333	12.3 11.7	28.5 28.8	64.3 65.4	59.1 60.2	19.1 17.8	44.3 44.1	
July	2,538	5,786	13,389	1,070	12,231	20,333	12.3	28.1	65.4 65.0	59.8	17.8	44.1	
August	2,943	6,225	13,489	1,091	12,399	20,732	14.2	30.0	65.1	59.8	21.8	46.1	
September	2,764	5,580	12,532	961	11,571	20,411	13.5	27.3	61.4	56.7	22.1	44.5	
October 10-Month Average	2,562 2,477	5,567 5,636	13,323 12,865	1,078 1,030	12,245 11,835	20,743 20,434	12.4 12.1	26.8 27.6	64.2 63.0	59.0 57.9	19.2 19.3	41.8 43.8	
003 10-Month Average	2,511	5,148	12,342	1,040	11,303	19,984	12.6	25.8	61.8	56.6	20.3	41.7	
Joo to monai Average	2,255	4,643	11,501	950	10,551	19,720	11.4	23.5	58.3	53.5	20.0	40.4	

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

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

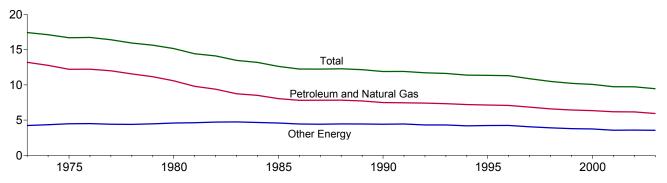
Web Page: http://www.eia.doe.gov/emeu/mer/overview.html.
Sources: • Column 1: Table 3.3b. • Column 2: Table 3.3d. • Columns 3-5: Table 3.1b. • Column 6: Table 3.1a. • Columns 7-12: Calculated by Energy Information Administration.

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

 • Beginning in October 1977, petroleum imported for the Strategic Petroleum

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

(Thousand Btu per Chained (2000) Dollar)



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

Source: Table 1.8.

Table 1.8 Energy Consumption per Dollar of Gross Domestic Product

	Ene	ergy Consumption		Gross	Energy Cons	umption per Dolla	ar of GDP	
	Petroleum and Other Natural Gas ^a Energy ^{a ,b} Total ^a		Total ^a	Domestic Product (GDP)	Petroleum and Natural Gas	Other Energy ^b	Total	
		Quadrillion Btu		Billion Chained (2000) Dollars	Thousand Btu per Chained (2000) Dollar			
973 Year	57.352	18.356	75.708	4,341.5	13.21	4.23	17.44	
974 Year	55.187	18.804	73.991	4,319.6	12.78	4.35	17.13	
975 Year	52.678	19.321	71.999	4,311.2	12.22	4.48	16.70	
976 Year	55.520	20.492	76.012	4.540.9	12.23	4.51	16.74	
977 Year	57.053	20.947	78.000	4,750.5	12.01	4.41	16.42	
978 Year	57.966	22.021	79.986	5,015.0	11.56	4.39	15.95	
979 Year	57.789	23.114	80.903	5,173.4	11.17	4.47	15.64	
980 Year	54.596	23.693	78.289	5.161.7	10.58	4.59	15.17	
981 Year	51.859	24.483	76.342	5,291.7	9.80	4.63	14.43	
982 Year	48.736	24.516	73.253	5,189.3	9.39	4.72	14.12	
983 Year	47.411	25.690	73,101	5,423.8	8.74	4.74	13.48	
984 Year	49.558	27,178	76.736	5,813.6	8.52	4.67	13.20	
985 Year	48.756	27.713	76,469	6,053.7	8.05	4.58	12.63	
986 Year	48.904	27.878	76.782	6,263.6	7.81	4.45	12.26	
987 Year	50.609	28.616	79.225	6,475.1	7.82	4.42	12.24	
988 Year	52,774	30.070	82.844	6,742.7	7.83	4.46	12.29	
989 Year	53.923	31.034	84.957	6,981.4	7.72	4.45	12.17	
990 Year	53.282	31,386	84.668	7,112.5	7.49	4.41	11.90	
991 Year	52.994	31.601	84.595	7,100.5	7.46	4.45	11.91	
992 Year	54.362	31,587	85.949	7,336.6	7.41	4.31	11.72	
993 Year	^a 55.193	a 32.482	a 87.578	7,532.7	^a 7.33	a 4.31	a 11.63	
994 Year	56.512	32.845	89.248	7,835.5	7.21	4.19	11.39	
995 Year	57.338	34.000	91.221	8,031.7	7.14	4.23	11.36	
996 Year	58.954	35.353	94.224	8,328.9	7.08	4.24	11.31	
997 Year	59.594	35.239	94.727	8,703.5	6.85	4.05	10.88	
998 Year	59.869	35.394	95.146	9,066.9	6.60	3.90	10.49	
999 Year	60.970	35.926	96.774	9,470.3	6.44	3.79	10.22	
2000 Year	62.320	36.724	98.905	9,817.0	6.35	3.74	10.07	
2001 Year	61.239	35.286	96.378	9,890.7	6.19	3.57	9.74	
2002 Year	62.064	36.136	98.026	10,074.8	6.16	3.59	9.73	
2003 Year	R 61.611	R 36.813	R 98.185	10,381.3	R 5.93	3.55	9.46	

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

R=Revised.

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

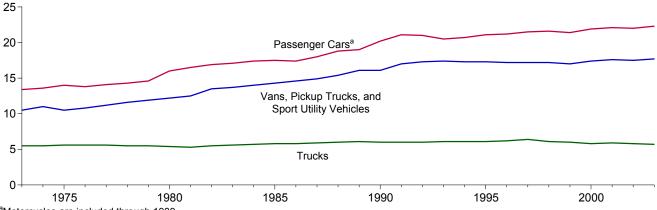
Web Page: http://www.eia.doe.gov/emeu/mer/overview.html.
Sources: • Energy Consumption: Table 1.3. • Gross Domestic Product: 1973-2001—U.S. Department of Commerce, Bureau of Economic Analysis, Survey of Current Business, December 2003, Table 7B. 2002 and 2003-U.S. Department of Commerce, Bureau of Economic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

once in total consumption.

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

Figure 1.9 **Motor Vehicle Fuel Rates**

(Miles per Gallon)



^aMotorcycles are included through 1989.

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

Source: Table 1.9.

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

		Passenger Cars ^a			ns, Pickup Truc Sport Utility Veh			Trucks ^c		All Motor Vehicles			
	Mileage (miles per vehicle)	Fuel Consumption (gallons per vehicle)	Fuel Rate (miles per gallon)										
1973	9,884	737	13.4	9,779	931	10.5	15,370	2,775	5.5	10,099	850	11.9	
1974	9,221	677	13.6	9,452	862	11.0	14,995	2,708	5.5	9,493	788	12.0	
1975	9,309	665	14.0	9,829	934	10.5	15,167	2,722	5.6	9,627	790	12.2	
1976	9,418	681	13.8	10,127	934	10.8	15,438	2,764	5.6	9,774	806	12.1	
1977	9,517	676	14.1	10,607	947	11.2	16,700	3,002	5.6	9,978	814	12.3	
1978	9,500	665	14.3	10,968	948	11.6	18,045	3,263	5.5	10,077	816	12.4	
1979	9,062	620	14.6	10,802	905	11.9	18,502	3,380	5.5	9,722	776	12.5	
1980	8,813	551	16.0	10,437	854	12.2	18,736	3,447	5.4	9,458	712	13.3	
1981	8,873	538	16.5	10,244	819	12.5	19,016	3,565	5.3	9,477	697	13.6	
1982	9,050	535	16.9	10,276	762	13.5	19,931	3,647	5.5	9,644	686	14.1	
1983	9,118	534	17.1	10,497	767	13.7	21,083	3,769	5.6	9,760	686	14.2	
1984	9,248	530	17.4	11,151	797	14.0	22,550	3,967	5.7	10,017	691	14.5	
1985	9,419	538	17.5	10,506	735	14.3	20,597	3,570	5.8	10,020	685	14.6	
1986	9,464	543	17.4	10,764	738	14.6	22,143	3,821	5.8	10,143	692	14.7	
1987	9,720	539	18.0	11,114	744	14.9	23,349	3,937	5.9	10,453	694	15.1	
1988	9,972	531	18.8	11,465	745	15.4	22,485	3,736	6.0	10,721	688	15.6	
1989	^a 10,157	^a 533	^a 19.0	11,676	724	16.1	22,926	3,776	6.1	10,932	688	15.9	
1990	10,504	520	20.2	11,902	738	16.1	23,603	3,953	6.0	11,107	677	16.4	
1991	10,571	501	21.1	12,245	721	17.0	24,229	4,047	6.0	11,294	669	16.9	
1992	10,857	517	21.0	12,381	717	17.3	25,373	4,210	6.0	11,558	683	16.9	
1993	10,804	527	20.5	12,430	714	17.4	26,262	4,309	6.1	11,595	693	16.7	
1994	10,992	531	20.7	12,156	701	17.3	25,838	4,202	6.1	11,683	698	16.7	
1995	11,203	530	21.1	12,018	694	17.3	26,514	4,315	6.1	11,793	700	16.8	
1996	11,330	534	21.2	11,811	685	17.2	26,092	4,221	6.2	11,813	700	16.9	
1997	11,581	539	21.5	12,115	703	17.2	27,032	4,218	6.4	12,107	711	17.0	
1998	11,754	544	21.6	12,173	707	17.2	25,397	4,135	6.1	12,211	721	16.9	
1999	11,848	553	21.4	11,957	701	17.0	26,014	4,352	6.0	12,206	732	16.7	
2000	11,976	547	21.9	11,672	669	17.4	25,617	4,391	5.8	12,164	720	16.9	
2001	្ត 11,831	534	22.1	11,204	636	17.6	26,602	4,477	5.9	11,887	695	17.1	
2002	R 12,202	R 555	R 22.0	R 11,364	R 650	R 17.5	R 27,071	R 4,642	5.8	R 12,171	R 719	R 16.9	
2003 ^P	12,242	550	22.3	11,467	647	17.7	27,286	4,750	5.7	12,210	716	17.0	

Through 1989, includes motorcycles.

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

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

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

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

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

R=Revised. P=Preliminary.

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

Table 1.10 Heating Degree-Days by Census Division

		November ¹	1 through N	ovember 30			July 1 th	Cumulative rough Nove		
			2004	Percent	Change				Percent	Change
Census Divisions	Normal ^a	2003		Normal to 2004	2003 to 2004	Normala	2003	2004	Normal to 2004	2003 to 2004
New England Connecticut, Maine, Massachusetts, New Hampshire, Rhode Island, Vermont	727	664	725	(s)	9	1,384	1,248	1,294	-7	4
Middle Atlantic New Jersey, New York, Pennsylvania	667	561	614	-8	9	1,193	1,019	1,024	-14	(s)
East North Central Illinois, Indiana, Michigan, Ohio, Wisconsin	757	646	647	-15	(s)	1,337	1,195	1,133	-15	-5
West North Central lowa, Kansas, Minnesota, Missouri, Nebraska, North Dakota, South Dakota	840	803	693	-18	-14	1,447	1,334	1,198	-17	-10
South Atlantic Delaware, Florida, Georgia, Maryland and the District of Columbia, North Carolina, South Carolina, Virginia, West Virginia	339	256	285	-16	11	528	425	415	-21	-2
East South Central Alabama, Kentucky, Mississippi, Tennessee	449	347	337	-25	-3	695	575	464	-33	-19
West South Central Arkansas, Louisiana, Oklahoma, Texas	293	222	239	-18	8	385	295	275	-29	-7
Mountain Arizona, Colorado, Idaho, Montana, Nevada, New Mexico, Utah, Wyoming	676	687	667	-1	-3	1,219	1,060	1,161	-5	10
Pacific ^b California, Oregon, Washington	396	432	421	6	-3	690	551	660	-4	20
U.S. Average ^b	539	477	484	-10	1	922	792	788	-15	-1

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

Notes: Degree-days are relative measurements of outdoor air temperature used as an index for heating and cooling energy requirements. Heating degree-days are the number of degrees that the daily average temperature falls below 65° F. Cooling degree-days are the number of degrees that the daily average temperature rises above 65° F. The daily average temperature is the mean of the maximum and minimum temperatures in a 24-hour period.

For example, a weather station recording an average daily temperature of 40° F would report 25 heating degree-days for that day (and 0 cooling degree-days). If a weather station recorded an average daily temperature of 78° F, cooling degree-days for that station would be 13 (and 0 heating degree days).

Web Pages: • See http://www.eia.doe.gov/emeu/mer/overview.html for current data. • See http://www.eia.doe.gov/emeu/aer/overview.html for historical data.

Sources: See end of section.

b Excludes Alaska and Hawaii.

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

Table 1.11 Cooling Degree-Days by Census Division

		November ⁻	1 through N	ovember 30		January 1	Cumulative through No			
				Percent	Change				Percent	Change
Census Divisions	Normala	2003	2004	Normal to 2004	2003 to 2004	Normala	2003	2004	Normal to 2004	2003 to 2004
New England Connecticut, Maine, Massachusetts, New Hampshire, Rhode Island, Vermont	0	0	0	(°)	(°)	417	502	401	-4	-20
Middle Atlantic New Jersey, New York, Pennsylvania	0	0	0	(°)	(°)	656	662	629	-4	-5
East North Central Illinois, Indiana, Michigan, Ohio, Wisconsin	0	0	0	(°)	(°)	708	632	589	-17	-7
West North Central lowa, Kansas, Minnesota, Missouri, Nebraska, North Dakota, South Dakota	0	0	0	(°)	(°)	928	950	769	-17	-19
South Atlantic Delaware, Florida, Georgia, Maryland and the District of Columbia, North Carolina, South Carolina, Virginia,										_
West Virginia East South Central Alabama, Kentucky,	55	78	63	(°)	(°)	1,932	1,977	2,070	7	5
Mississippi, Tennessee	6	23	17	(°)	(°)	1,546	1,508	1,627	5	8
West South Central Arkansas, Louisiana, Oklahoma, Texas	31	71	40	(°)	(°)	2,440	2,579	2,539	4	-2
Mountain Arizona, Colorado, Idaho, Montana, Nevada, New Mexico, Utah, Wyoming	4	3	3	(°)	(°)	1,243	1,603	1,410	13	-12
Pacific ^b California, Oregon, Washington	4	0	0	(°)	(°)	703	900	888	26	-1
U.S. Average ^b	15	24	17	(°)	(°)	1,209	1,278	1,254	4	-2

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

Notes: Degree-days are relative measurements of outdoor air temperature used as an index for heating and cooling energy requirements. Cooling degree-days are the number of degrees that the daily average temperature rises above 65° F. Heating degree-days are the number of degrees that the daily average temperature falls below 65° F. The daily average temperature is the mean of the maximum and minimum temperatures in a 24-hour period.

For example, if a weather station recorded an average daily temperature of 78° F, cooling degree-days for that station would be 13 (and 0 heating degree-days). A weather station recording an average daily temperature of 40° F would report 25 heating degree-days for that day (and 0 cooling degree-days).

Web Pages: • See http://www.eia.doe.gov/emeu/mer/overview.html for current data. • See http://www.eia.doe.gov/emeu/aer/overview.html for historical data.

Sources: See end of section.

b Excludes Alaska and Hawaii.

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

Energy Overview

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

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

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

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

Note 5. Merchandise Trade Value: Import data presented are based on the customs value. That value does not include insurance and freight and is consequently lower than the cost, insurance, and freight (CIF) value, which is also reported by the Bureau of the Census. All export data, and import data prior to 1981, are on a free alongside ship (f.a.s.) basis.

"Balance" is exports minus imports; a positive balance indicates a surplus trade value and a negative balance indicates a deficit trade value. "Energy" includes mineral

fuels, lubricants, and related material. "Non-Energy Balance" and "Total Merchandise" include foreign exports (i.e., re-exports) and nonmonetary gold and Department of Defense Grant-Aid shipments. The "Non-Energy Balance" is calculated by subtracting the "Energy" from the "Total Merchandise Balance."

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

Table 1.5 Sources

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

Petroleum Exports

1974-1987: "U.S. Exports," FT410, December issues. 1988 and 1989: "Report on U.S. Merchandise Trade," Final Revisions.

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

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

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

Petroleum Imports

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

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

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

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

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

Energy Exports and Imports

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

1988: January-July, monthly FT-900 supplement, 1989 issues. August-December, monthly FT-900, 1989 issues. 1989: Monthly FT-900, 1990 issues.

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

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

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

Petroleum, Energy, and Non-Energy Balances

Calculated by the Energy Information Administration.

Total Merchandise

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

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

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

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

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

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

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

Tables 1.10 and 1.11 Sources

There are several degree-day databases maintained by the National Oceanic and Atmospheric Administration. The information published here is developed by the National Weather Service Climate Analysis Center, Camp Springs, MD. The data are available weekly with monthly summaries and are based on mean daily temperatures recorded at about 200 major weather stations around the country. The temperature information recorded at those weather stations is used to calculate statewide degree-day averages based on population.

The State figures are then aggregated into Census Divisions and into the national average. The population weights currently used represent resident State population data estimated for the 2000 Census by the U.S. Department of Commerce, Bureau of the Census. The data provided here are available sooner than the Historical Climatology Series 5-1 (heating degree-days) and 5-2 (cooling degree-days) developed by the National Climatic Data Center, Asheville, NC, which compiles data from some 8,000 weather stations.

Section 2. Energy Consumption by Sector

U.S. total energy consumption in September 2004 was 7.8 quadrillion Btu, 3 percent higher than in September 2003.

Residential sector total consumption was 1.5 quadrillion Btu in September 2004, 3 percent higher than the September 2003 level. The sector accounted for 19 percent of total energy consumption.

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

Industrial sector total consumption was 2.7 quadrillion Btu in September 2004, 3 percent higher than the September

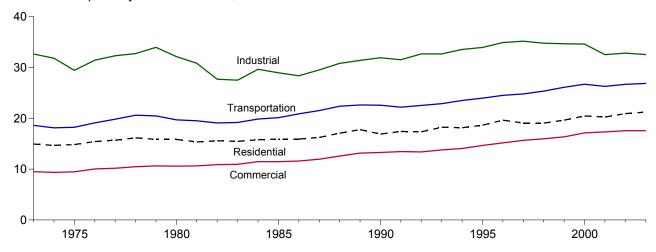
2003 level. The sector accounted for 34 percent of total energy consumption.

Transportation sector total consumption was 2.3 quadrillion Btu in September 2004, 3 percent higher than the September 2003 level. The sector accounted for 29 percent of total energy consumption.

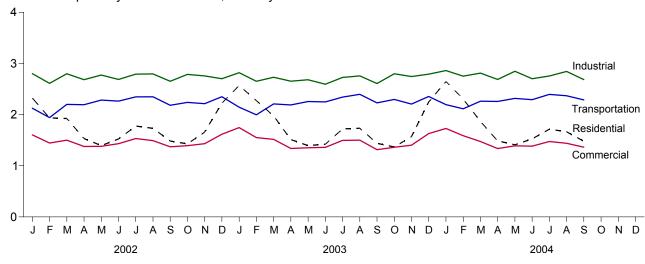
Electric power sector primary consumption was 3.3 quadrillion Btu in September 2004, 5 percent higher than the September 2003 level. Fossil fuels accounted for 71 percent of all primary energy consumed by the electric power sector; nuclear electric power 21 percent; and renewable energy 8 percent.

Figure 2.1 Energy Consumption by Sector (Quadrillion Btu)

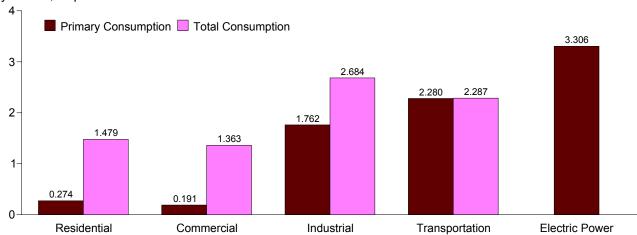
Total Consumption by End-Use Sector, 1973-2003



Total Consumption by End-Use Sector, Monthly







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

Energy Consumption by Sector Table 2.1

(Quadrillion Btu)

973 Total	Resid Primary 8.250 7.928 8.006 8.408 8.207 8.272 7.934 7.504 7.103 7.163	Total 14.930 14.683 14.842 15.441 15.689 16.156 15.842	4.381 4.221 4.023 4.333 4.217	9.507 9.363 9.466 10.035	Primary 24.741 23.816	Total 32.653	Transpo Primary 18.576	Total	Power Sector ^{c,d} Primary	Adjust- ments ^e	Total ^b
974 Total 975 Total 976 Total 977 Total 978 Total 979 Total 980 Total 981 Total 982 Total 983 Total 984 Total 985 Total 986 Total 987 Total	8.250 7.928 8.006 8.408 8.207 8.272 7.934 7.504 7.103	14.930 14.683 14.842 15.441 15.689 16.156 15.842	4.381 4.221 4.023 4.333 4.217	9.507 9.363 9.466	24.741 23.816	-			Primary		Totalb
974 Total 975 Total 976 Total 977 Total 978 Total 979 Total 980 Total 981 Total 982 Total 983 Total 984 Total 985 Total 986 Total 987 Total	7.928 8.006 8.408 8.207 8.272 7.934 7.504 7.103	14.683 14.842 15.441 15.689 16.156 15.842	4.221 4.023 4.333 4.217	9.363 9.466	23.816	32.653	18 576				
974 Total 975 Total 976 Total 977 Total 978 Total 979 Total 980 Total 981 Total 982 Total 983 Total 984 Total 985 Total 986 Total 987 Total	8.006 8.408 8.207 8.272 7.934 7.504 7.103	14.842 15.441 15.689 16.156 15.842	4.023 4.333 4.217	9.466			10.070	18.612	19.753	0.007	75.708
976 Total 977 Total 978 Total 978 Total 979 Total 980 Total 981 Total 982 Total 983 Total 984 Total 985 Total 986 Total 986 Total 987 Total	8.408 8.207 8.272 7.934 7.504 7.103	15.441 15.689 16.156 15.842	4.333 4.217			31.819	18.086	18.119	19.933	.007	73.991
977 Total 978 Total 979 Total 980 Total 981 Total 982 Total 982 Total 983 Total 984 Total 985 Total 986 Total 986 Total 987 Total	8.207 8.272 7.934 7.504 7.103	15.689 16.156 15.842	4.217	10 025	21.454	29.447	18.209	18.244	20.307	.001	71.999
978 Total	8.272 7.934 7.504 7.103	16.156 15.842			22.685	31.429	19.065	19.099	21.513	.008	76.012
979 Total	7.934 7.504 7.103	15.842	4.269	10.177 10.481	23.193 23.277	32.307 32.733	19.784 20.580	19.820 20.615	22.591 23.587	.007 .002	78.000 79.986
980 Total 981 Total 982 Total 983 Total 984 Total 985 Total 986 Total 987 Total 988 Total	7.504 7.103		4.333	10.627	24.211	33.962	20.436	20.471	23.987	.002	80.903
981 Total 982 Total 983 Total 984 Total 985 Total 986 Total 987 Total 988 Total	7.103	15.848	4.097	10.594	22.673	32.152	19.658	19.696	24.359	001	78.289
983 Total	7.163	15.353	3.831	10.638	21.404	30.836	19.476	19.513	24.525	.003	76.342
984 Total 985 Total 1986 Total 987 Total 1988 Total		15.577	3.859	10.880	19.112	27.704	19.051	19.088	24.063	.004	73.253
985 Total 986 Total 987 Total 988 Total	6.834	15.459	3.827	10.952	18.598	27.511	19.133	19.176	24.705	.003	73.101
986 Total 987 Total 988 Total	6.992	15.777	3.989	11.463	20.208	29.643	19.804	19.851	25.741	.003	76.736
1987 Total 1988 Total	6.992 6.812	15.928 15.927	3.708 3.647	11.465 11.600	19.540 19.133	28.958 28.375	20.075 20.828	20.122 20.877	26.158 26.359	004 .003	76.469 76.782
1988 Total	6.846	16.233	3.738	11.951	20.046	29.519	21.474	21.524	27.124	003	79.225
	7.249	17.069	3.948	12.571	20.958	30.818	22.331	22.382	28.354	.003	82.844
1989 Total	7.495	17.774	3.952	13.156	20.888	31.396	22.568	22.622	d30.044	.009	84.957
1990 Total	6.460	16.900	3.810	13.281	21.235	31.918	22.535	22.589	30.647	020	84.668
1991 Total	6.692	17.414	3.860	13.458	20.903	31.527	22.142	22.195	30.999	.001	84.595
1992 Total	6.883	17.339	3.898	13.394	21.806	32.673	22.489	22.542	30.873	(s)	85.949
1993 Total 1994 Total	7.122 6.949	18.249 18.135	3.892 3.930	13.788 14.059	21.738 22.376	32.668 33.557	22.830 23.448	22.883 23.503	32.006 32.551	010 006	87.578 89.248
1995 Total	7.022	18.653	4.032	14.665	22.643	33.941	23.905	23.960	33.616	.003	91.221
1996 Total	7.556	19.643	4.218	15.161	23.364	34.905	24.456	24.511	34.626	.004	94.224
1997 Total	7.088	19.067	4.248	15.679	23.608	35.167	24.753	24.808	35.024	.006	94.727
1998 Total	6.462	19.052	3.956	15.964	23.067	34.777	25.301	25.357	36.363	003	95.146
1999 Total	6.810	19.634	3.984	16.347	22.826	34.679	26.050	26.108	37.097	.006	96.774
2000 Total 2001 Total	7.147 6.909	20.453 20.247	4.192 4.044	17.129 17.323	22.740 21.834	34.616 32.527	26.645 26.215	26.705 26.276	38.180 37.372	.002 .004	98.905 96.378
2002 January	1.048	2.323	.550	1.604	1.970	2.799	2.120	2.124	3.162	001	8.849
February	.910	1.935	.495	1.445	1.807	2.611	1.938	1.942	2.782	004	7.928
March	.855	1.925	.467	1.500	1.928	2.799	2.196	2.200	2.978	003	8.421
April May	.577 .402	1.532 1.394	.345 .259	1.377 1.380	1.807 1.840	2.682 2.772	2.188 2.279	2.193 2.284	2.866 3.050	002 .000	7.782 7.830
June	.299	1.524	.210	1.431	1.751	2.687	2.258	2.263	3.388	.004	7.910
July	.271	1.775	.204	1.531	1.824	2.791	2.340	2.346	3.803	.009	8.452
August	.257	1.731	.202	1.492	1.841	2.795	2.342	2.347	3.724	.008	8.374
September	.264	1.484	.204	1.370	1.758	2.651	2.178	2.183	3.284	.004	7.691
October	.414	1.428	.271	1.392	1.884	2.786	2.233	2.238	3.042	001	7.843
November December	.661 .987	1.658 2.223	.385 .527	1.432 1.616	1.869 1.817	2.755 2.701	2.209 2.345	2.214 2.349	2.935 3.214	002 001	8.057 8.888
Total	6.946	20.934	4.118	17.568	22.096	32.830	26.626	26.683	38.228	.011	98.026
	R 1.207	R 2.568	.637		R 1.946	R 2.818	2.140	2.144	3.346	.001	R 9.277
003 January February	1.108	2.273	.586	1.745 1.550	R 1.842	R 2.652	2.140 1.991	1.995	2.943	003	R 8.467
March	.875	1.975	.480	1.516	R 1.863	R 2.729	2.204	2.208	3.006	R003	R 8.425
April	.589	1.511	.341	1.338	R 1.770	R 2.653	2.184	2.188	2.806	R004	R 7.686
May	.394	1.395	.246	_ 1.351	R 1.746	R 2.681	2.251	2.255	3.047	001	^R 7.681
June	.292	1.421	.198	R 1.359	R 1.651	R 2.594	2.243	2.248	3.238	.001	R 7.623
July	.273	1.719	R.199	1.495	^R 1.770 ^R 1.780	R 2.726	2.336	2.341	3.702	R .005	^R 8.285 ^R 8.391
August September	.263 .278	1.733 1.439	.202 .200	1.500 1.314	R 1.743	^R 2.756 ^R 2.608	2.391 2.224	2.397 2.229	3.750 3.144	.006 .001	R 7.591
October	R .396	R 1.368	.255	1.361	R 1.877	R 2.798	2.292	2.229	3.004	001	R 7.822
November	.590	1.569	.337	1.402	R 1.832	^R 2.743	2.201	2.206	2.960	002	R 7.917
December	.971	2.247	.505	1.629	R 1.887	R 2.790	2.349	2.354	3.307	001	^R 9.018
Total	R 7.236	R 21.226	R 4.185	R 17.557	R 21.707	R 32.542	26.805	26.863	38.255	R002	R 98.185
2004 January February	1.231 1.087	2.646 2.306	.623 .576	1.729 1.588	R 1.964 R 1.893	R 2.860 R 2.751	2.188 2.106	2.195 2.113	3.424 3.097	(s) 001	^R 9.431 ^R 8.757
March	.795	1.866	.444	1.474	R 1.909	R 2.810	2.257	2.262	3.008	004	^R 8.408
April	.564	1.487	.334	1.336	R 1.786	R 2.688	2.252	2.258	2.833	004	^R 7.764
May	.368	1.410	R 235	R 1.389	R 1.839	R 2.847	2.310	2.316	3.211	R.001	R 7.963
June	.290	1.526	R.199	R 1.383	R 1.742	R 2.701	2.286	2.292	3.384	003	^R 7.905
July	.281	1.715	R.196	R 1.473	R 1.776	R 2.755	2.388	2.395	3.697	R.006	R 8.343
August	.269	1.664	R .193	R 1.439	R 1.856	R 2.843	2.361	2.368	3.636	R .005	R 8.320
September 9-Month Total	.274 5.158	1.479 16.099	.191 2.991	1.363 13.173	1.762 16.527	2.684 24.940	2.280 20.428	2.287 20.487	3.306 29.595	.003 .009	7.816 74.708
2003 9-Month Total 2002 9-Month Total	5.279 4.884	16.033 15.623	3.089 2.936	13.170 13.129	16.111 16.526	24.216 24.588	19.963 19.839	20.006 19.882	28.984 29.038	.002 .015	73.428 73.238

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

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

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

H=Hevised. (s)=Less than 0.5 trillion Btu.

Notes: • Primary consumption includes coal, natural gas, petroleum, nuclear electric power, hydroelectric power, wood, waste, alcohol fuels, geothermal, solar, wind, coal coke net imports, and electricity net imports. • Total consumption includes primary consumption, electricity retail sales, and electrical system energy losses. • Totals may not equal sum of components due to independent rounding.
• Geographic coverage is the 50 States and the District of Columbia.

Section 7.

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

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

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

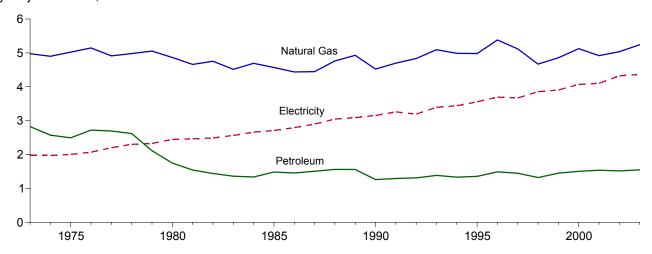
^{1989,} data also include consumption at independent power producers.

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

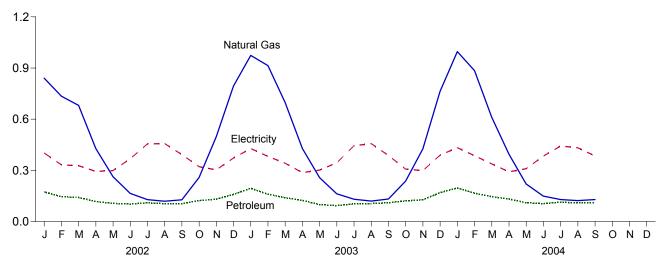
Web Page: http://www.eia.doe.gov/emeu/mer/consump.html. Additional Notes and Sources: See Tables 2.2-2.6 and end of section.

Figure 2.2 Residential Sector Energy Consumption (Quadrillion Btu)

By Major Sources, 1973-2003



By Major Sources, Monthly



Total, January-September

By Major Sources, September 2004 20 16.099 16.033 Natural Gas 0.129 15.623 15 10 Electricity 0.385 5 0.109 Petroleum 0 2002 2003 2004 0.0 0.2 0.4

0.6

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

Table 2.2 Residential Sector Energy Consumption

(Quadrillion Btu)

1973 Total					Prima	ary Consum	ption						
Coal Matural Petroleum Total Wood Memms Solar Total Primary Retail Energy Petroleum Total Wood Memms Solar Total Primary Retail Primary Primary Primary Retail Primary			Foss	sil Fuels			Renewable	Energya			1		
1977 Total		Coal		Petroleum	Total	Wood		Solard	Total		Retail	Energy,	Total
1977 Total	1973 Total	0.094	4.977	2.825	7.896	0.354	NA NA	NA	0.354	8.250	1.976	4.703	14.930
1977 Total	1974 Total			2.573		.371	NA		.371		1.973	4.783	14.683
1977 Total	1975 Total												14.842
1978 Total	1976 Total												15.441
1973 Total	1977 Total												15.689 16.156
1891 Total	1979 Total												15.842
1892 Total	1980 Total	.031	4.866	1.748	6.645	.859	NA	NA	.859	7.504	2.448	5.897	15.848
1983 Total	1981 Total												15.353
1984 Total	1982 Total												15.577 15.459
1985 Total	1984 Total												15.777
1987 Total													15.928
1988 Total	1986 Total												15.927
1989 Total	1987 Total												16.233
1990 Total	1988 Otal												17.069 17.774
1991 Total	1990 Total												16.900
1992 Total	1991 Total												17.414
1994 Total	1992 Total												17.339
1995 Total	1993 Total												18.249
1996 Total	1994 Total												18.135 18.653
1997 Total	1996 Total												19.643
1998 Total	1997 Total												19.067
2000 Total	1998 Total			1.322		.387	.008	.065	.459	6.462	3.856		19.052
2002 January 0.01													19.634
2002 January 001 840 1.74 1.015 0.027 0.01 0.05 0.32 1.048 4.02 8.73 2.05	2000 Total												20.453 20.247
February 0.01	2001 Total	.012	4.515	1.559	0.470	.370	.009	.000	.439	0.909	4.103	9.234	20.247
March	2002 January	.001		.174	1.015						.402		2.323
April 001 428 117 546 026 001 005 031 577 294 661 1 May 001 1263 106 370 027 001 005 032 402 299 693 1 June 001 165 102 268 026 001 005 031 299 368 857 1 July 001 1128 109 239 027 001 005 032 271 455 1049 1 August 001 119 105 224 027 001 005 032 257 457 1017 1 September 001 128 104 232 026 001 005 032 257 457 1017 1 September 001 258 123 381 027 001 005 032 257 457 1017 1 October 001 258 123 381 027 001 005 032 414 322 693 1 November 001 497 131 630 026 001 005 032 414 322 693 1 December 001 794 159 955 027 001 005 032 987 372 863 2 2003 January 001 974 195 1.171 030 002 005 032 987 372 863 2 2003 January 001 974 195 1.171 030 002 005 037 8,1207 428 933 8,2 April 001 429 124 553 030 001 004 033 1.108 382 782 2 April 001 429 124 553 030 001 005 037 8,75 342 758 1 May 001 257 099 357 030 001 005 037 8,75 342 758 1 June 001 126 001 127 099 357 030 001 005 037 8,75 342 758 1 June 001 127 099 357 030 001 005 037 8,75 342 758 1 June 001 128 124 553 030 001 005 037 8,75 342 758 1 June 001 128 124 553 030 001 005 037 8,75 342 758 1 June 001 128 124 553 030 001 005 037 8,75 342 758 1 June 001 128 124 553 030 001 005 036 589 287 635 1 June 001 128 104 226 030 001 005 037 8,75 342 758 1 June 001 129 124 553 030 001 005 036 589 287 635 1 June 001 129 125 7 099 357 030 002 005 037 8,75 342 758 1 June 001 128 104 226 030 002 005 037 8,75 342 758 1 June 001 129 125 7 594 030 002 005 037 8,98 387 774 444 1002 1 August 001 120 131 104 226 030 001 005 036 589 287 635 1 November 001 128 166 1052 028 001 005 037 8,98 307 664 81 1 November 001 426 127 554 030 002 005 037 955 338 7733 1 June 001 129 114 24 030 002 005 037 955 338 7733 1 June 001 129 114 24 030 002 005 037 955 338 7733 1 September 001 129 114 24 030 002 005 037 955 338 7733 1 June 001 129 114 033 100 002 005 037 955 338 7733 1 September 001 129 114 24 030 002 005 037 955 338 939 939 939 939 939 939 939 939 939	February												1.935
May 001 263 106 370 027 001 005 032 402 299 693 1 Julne 001 165 102 268 026 001 005 031 299 368 857 1 July 001 128 109 239 027 001 005 032 221 455 1049 1 August 001 128 104 232 026 001 005 031 264 392 828 1 Cotober .001 258 123 381 .027 001 .005 .032 414 .322 .693 1 November .001 .794 .159 .955 .027 .001 .005 .031 .661 .303 .693 1 December .001 .794 .155 .171 .030 .002 .005 .037 #1.207 .428 .9	March												1.925
June .001 165 102 288 .026 .001 .005 .031 .299 .368 .857 1 July .001 .128 .109 .239 .027 .001 .005 .032 .257 .455 .1049 1 August .001 .119 .105 .224 .027 .001 .005 .032 .257 .455 .1017 1 .105 .224 .027 .001 .005 .031 .264 .392 .828 1 .004 .252 .026 .001 .005 .031 .264 .392 .828 1 .004 .005 .005 .001 .258 .123 .381 .027 .001 .005 .031 .264 .392 .828 1 .004 .005 .00	Aprii												1.532 1.394
July													1.524
September 0.01 128 1.04 2.32 0.26 0.01 0.05 0.31 2.64 3.92 8.28 1													1.775
October .001 258 123 381 .027 .001 .005 .032 .414 .322 .693 1 November .001 .497 .131 .630 .026 .001 .005 .032 .987 .372 .863 .1 December .001 .794 .159 .955 .027 .001 .005 .032 .987 .372 .863 .2 Total .001 .974 .195 .171 .030 .002 .005 .037 .81207 .428 .933 .82 Eebruary .001 .974 .195 .1711 .030 .002 .005 .037 .81207 .428 .933 .82 March .001 .697 .140 .838 .030 .002 .005 .037 .875 .342 .758 1 May .001 .257 .099 .357 .030 .002 .005 .037													1.731
November .001 .497 .131 .630 .026 .001 .005 .031 .661 .303 .693 1													1.484
December	November												1.428 1.658
Total .011 5.036 1.516 6.564 .313 .010 .059 .382 6.946 4.323 9.665 20 2003 January .001 .974 .195 1.171 .030 .002 .005 .037 R1.207 .428 .933 R2 February .001 .914 .160 1.075 .028 .001 .004 .033 1.108 .382 .782 .782 .782 .782 .782 .782 .788 1 .001 .987 .140 .838 .030 .002 .005 .037 .875 .342 .788 1 .447 .001 .429 .124 .553 .030 .002 .005 .036 .589 .287 .635 1 .001 .1429 .124 .553 .030 .002 .005 .036 .292 .344 .100 .120 .001 .131 .104 .236 .030 .002 .005 .037	December												2.223
February 001 914 160 1.075 0.28 0.01 0.04 0.33 1.108 382 7.82 2 March 0.01 6.97 140 8.38 0.30 0.002 0.05 0.37 8.75 3.42 7.58 1 April 0.01 4.29 1.24 5.53 0.30 0.01 0.05 0.36 5.89 2.87 6.35 1 May 0.01 2.57 0.99 3.57 0.30 0.02 0.05 0.37 3.94 3.01 7.00 1 June 0.01 1.63 0.93 2.57 0.30 0.01 0.05 0.36 2.92 3.44 7.84 1 July 0.01 1.31 1.04 2.36 0.30 0.02 0.05 0.37 2.73 4.44 1.002 1 August 0.01 1.20 1.05 2.26 0.30 0.02 0.05 0.37 2.63 4.57 1.013 1 September 0.01 1.32 1.10 2.43 0.30 0.01 0.05 0.36 2.78 3.87 7.74 1 October 0.01 8.237 1.21 8.359 0.30 0.02 0.05 0.37 8.396 3.07 6.64 8.1 November 0.01 4.26 1.27 5.54 0.30 0.01 0.05 0.36 5.90 2.98 6.81 1 November 0.002 7.63 1.69 9.34 0.30 0.01 0.05 0.36 5.90 2.98 6.81 1 December 0.02 8.5 1.66 1.052 0.98 0.01 0.05 0.05 0.37 1.231 4.33 9.82 2 Total 0.01 8.85 1.66 1.052 0.28 0.01 0.05 0.35 0.37 1.231 4.33 9.82 2 February 0.01 8.85 1.66 1.052 0.28 0.01 0.05 0.36 5.90 2.98 6.83 2 Part 0.01 3.95 1.32 5.28 0.29 0.01 0.05 0.36 5.64 2.92 6.31 1 May 0.01 1.20 1.395 1.32 5.28 0.29 0.01 0.05 0.36 5.64 2.92 6.31 1 May 0.01 1.20 1.395 1.32 5.28 0.29 0.01 0.05 0.36 5.64 2.92 6.31 1 May 0.01 1.20 1.01 3.35 1.20 0.02 0.05 0.37 3.38 3.33 8.52 1 July 0.01 1.29 1.14 2.44 0.30 0.02 0.05 0.37 3.36 3.90 7.33 1 4.33 9.82 2 5.28 0.01 0.05 0.36 5.64 2.92 6.31 1 May 0.01 1.29 1.14 2.44 0.30 0.02 0.05 0.37 3.38 3.39 3.30 3.30 3.30 3.30 3.30 3.30 3.30	Total												20.934
February 001 914 160 1.075 0.28 0.01 0.04 0.33 1.108 382 7.82 2 March 0.01 6.97 140 8.38 0.30 0.002 0.05 0.37 8.75 3.42 7.58 1 April 0.01 4.29 1.24 5.53 0.30 0.01 0.05 0.36 5.89 2.87 6.35 1 May 0.01 2.57 0.99 3.57 0.30 0.02 0.05 0.37 3.94 3.01 7.00 1 June 0.01 1.63 0.93 2.57 0.30 0.01 0.05 0.36 2.92 3.44 7.84 1 July 0.01 1.31 1.04 2.36 0.30 0.02 0.05 0.37 2.73 4.44 1.002 1 August 0.01 1.20 1.05 2.26 0.30 0.02 0.05 0.37 2.63 4.57 1.013 1 September 0.01 1.32 1.10 2.43 0.30 0.01 0.05 0.36 2.78 3.87 7.74 1 October 0.01 8.237 1.21 8.359 0.30 0.02 0.05 0.37 8.396 3.07 6.64 8.1 November 0.01 4.26 1.27 5.54 0.30 0.01 0.05 0.36 5.90 2.98 6.81 1 November 0.002 7.63 1.69 9.34 0.30 0.01 0.05 0.36 5.90 2.98 6.81 1 December 0.02 8.5 1.66 1.052 0.98 0.01 0.05 0.05 0.37 1.231 4.33 9.82 2 Total 0.01 8.85 1.66 1.052 0.28 0.01 0.05 0.35 0.37 1.231 4.33 9.82 2 February 0.01 8.85 1.66 1.052 0.28 0.01 0.05 0.36 5.90 2.98 6.83 2 Part 0.01 3.95 1.32 5.28 0.29 0.01 0.05 0.36 5.64 2.92 6.31 1 May 0.01 1.20 1.395 1.32 5.28 0.29 0.01 0.05 0.36 5.64 2.92 6.31 1 May 0.01 1.20 1.395 1.32 5.28 0.29 0.01 0.05 0.36 5.64 2.92 6.31 1 May 0.01 1.20 1.01 3.35 1.20 0.02 0.05 0.37 3.38 3.33 8.52 1 July 0.01 1.29 1.14 2.44 0.30 0.02 0.05 0.37 3.36 3.90 7.33 1 4.33 9.82 2 5.28 0.01 0.05 0.36 5.64 2.92 6.31 1 May 0.01 1.29 1.14 2.44 0.30 0.02 0.05 0.37 3.38 3.39 3.30 3.30 3.30 3.30 3.30 3.30 3.30										P			P = ===
March .001 697 140 838 .030 .002 .005 .037 875 .342 .758 1 April .001 .429 .124 .553 .030 .001 .005 .036 .589 .287 .635 1 May .001 .257 .099 .357 .030 .001 .005 .036 .292 .344 .700 1 June .001 .163 .093 .257 .030 .001 .005 .036 .292 .344 .784 1 July .001 .131 .104 .236 .030 .002 .005 .037 .263 .457 1.013 .1 August .001 .120 .105 .226 .030 .002 .005 .037 .263 .457 1.013 .1 September .001 .1223 .121 .293 .030 .001 .005 .036 .590													R 2.568 2.273
April .001 .429 .124 .553 .030 .001 .005 .036 .589 .287 .635 1 May .001 .257 .099 .357 .030 .002 .005 .037 .394 .301 .700 1 June .001 .163 .093 .257 .030 .001 .005 .036 .292 .344 .784 1 July .001 .131 .104 .236 .030 .002 .005 .037 .273 .444 1.002 1 August .001 .132 .110 .243 .030 .001 .005 .036 .278 .337 .774 1 .001 .132 .110 .243 .030 .001 .005 .036 .278 .337 .774 .1 .000 .001 .001 .906 .127 .554 .030 .001 .005 .036 .278 .337 .77													1.975
May 001 257 0.99 .357 .030 .002 .005 .037 .394 .301 .700 1 June .001 .163 .093 .257 .030 .001 .005 .036 .292 .344 .784 .1 July .001 .131 .104 .236 .030 .002 .005 .037 .273 .444 .1.002 August .001 .120 .105 .226 .030 .002 .005 .037 .263 .457 1.013 .1 September .001 .132 .110 .243 .030 .001 .005 .036 .278 .387 .774 .1 October .001 .426 .127 .554 .030 .001 .005 .036 .278 .387 .774 .1 November .001 .426 .127 .554 .030 .001 .005 .037 .971													1.511
July .001 .131 .104 .236 .030 .002 .005 .037 .273 .444 1.002 1 August .001 .120 .105 .226 .030 .002 .005 .037 .263 .457 1.013 1 September .001 .132 .110 .243 .030 .001 .005 .036 .278 .387 .774 1 October .001 .8237 .121 .8359 .030 .002 .005 .037 .836 .307 .664 .81 November .001 .426 .127 .554 .030 .001 .005 .037 .936 .307 .664 .81 December .002 .763 .169 .934 .030 .002 .005 .037 .971 .389 .887 2 Total .012 .85242 1.547 .86.801 .359 .018 .058 .4													1.395
August .001 .120 .105 .226 .030 .002 .005 .037 .263 .457 1.013 1 September .001 .132 .110 .243 .030 .001 .005 .036 .278 .387 .774 1 October .001 .8.237 .121 .8.359 .030 .002 .005 .037 .8.396 .307 .664 .71 November .001 .426 .127 .554 .030 .001 .005 .036 .590 .298 .681 .1 December .002 .763 .169 .934 .030 .002 .005 .037 .971 .389 .887 .2 Total .012 .85242 1.547 .86.801 .359 .018 .058 .435 .87.236 .4367 .9622 .82 .2 .2 .2 .2 .2 .2 .2 .2 .2 .2													1.421
September .001 .132 .110 .243 .030 .001 .005 .036 .278 .387 .774 1 October .001 .8.237 .121 .8.359 .030 .002 .005 .036 .590 .298 .681 .1 November .001 .426 .127 .554 .030 .001 .005 .036 .590 .298 .681 .1 December .002 .763 .169 .934 .030 .002 .005 .037 .971 .389 .887 .2 Total .012 .852.242 1.547 .86.801 .359 .018 .058 .435 .87.236 4.367 .9.622 .821 2004 January .001 .996 .197 1.194 .030 .002 .005 .037 1.231 .433 .982 .2 February .001 .885 .166 1.052 .028 .001	July												1.719 1.733
October .001 R.237 .121 R.359 .030 .002 .005 .037 R.396 .307 .664 R1 November .001 .426 .127 .554 .030 .001 .005 .036 .590 .298 .681 .1 December .002 .763 .169 .934 .030 .002 .005 .037 .971 .389 .887 .2 Total .012 R5.242 1.547 R6.801 .359 .018 .058 .435 R7.236 4.367 9.622 R21 2004 January .001 .996 .197 1.194 .030 .002 .005 .037 1.231 .433 .982 2 February .001 .885 .166 1.052 .028 .001 .005 .037 7.975 .338 .834 2 March .001 .611 .146 .758 .030 .002 .005	September		.132							.278			1.439
November .001 .426 .127 .554 .030 .001 .005 .036 .590 .298 .681 1 December .002 .763 .169 .934 .030 .002 .005 .037 .971 .389 .887 .2 Total .012 R5.242 1.547 R6.801 .359 .018 .058 .435 R7.236 4.367 9.622 R21 2004 January .001 .996 .197 1.194 .030 .002 .005 .037 1.231 .433 .982 .2 February .001 .885 .166 1.052 .028 .001 .005 .034 1.087 .386 .834 .2 March .001 .611 .146 .758 .030 .002 .005 .037 .795 .338 .733 .1 April .001 .395 .132 .528 .029 .001 .005	October		R .237							R.396			R 1.368
Total .012 R 5.242 1.547 R 6.801 .359 .018 .058 .435 R 7.236 4.367 9.622 R 21 2004 January .001 .996 .197 1.194 .030 .002 .005 .037 1.231 .433 .982 2 February .001 .885 .166 1.052 .028 .001 .005 .034 1.087 .386 .834 2 March .001 .611 .146 .758 .030 .002 .005 .037 .795 .338 .733 1 April .001 .395 .132 .528 .029 .001 .005 .036 .564 .292 .631 1 May .001 .220 .110 .331 .030 .002 .005 .036 .564 .292 .631 1 July .001 .149 .105 .255 .029 .001 .005 .0	November												1.569
2004 January .001 .996 .197 1.194 .030 .002 .005 .037 1.231 .433 .982 .22 February .001 .885 .166 1.052 .028 .001 .005 .034 1.087 .386 .834 .22 March .001 .611 .146 .758 .030 .002 .005 .037 .795 .338 .733 .1 April .001 .395 .132 .528 .029 .001 .005 .036 .564 .292 .631 .1 May .001 .220 .110 .331 .030 .002 .005 .037 .368 .309 .733 .1 June .001 .149 .105 .255 .029 .001 .005 .036 .290 .383 .852 .1 July .001 .129 .114 .244 .030 .002 .005 .037			.763							.971			2.247
February .001 .885 .166 1.052 .028 .001 .005 .034 1.087 .386 .834 2 March .001 .611 .146 .758 .030 .002 .005 .037 .795 .338 .733 1 April .001 .395 .132 .528 .029 .001 .005 .036 .564 .292 .631 .1 May .001 .220 .110 .331 .030 .002 .005 .037 .368 .309 .733 .1 June .001 .149 .105 .255 .029 .001 .005 .036 .290 .383 .852 .1 July .001 .129 .114 .244 .030 .002 .005 .037 .281 .443 .991 .1 August .001 .129 .109 .238 .029 .001 .005 .037	ı otal	.012	₾ 5.242	1.547	¹ 6.801	.359	.018	.058	.435	¹¹ 7.236	4.367	9.622	R 21.226
February .001 .885 .166 1.052 .028 .001 .005 .034 1.087 .386 .834 2 March .001 .611 .146 .758 .030 .002 .005 .037 .795 .338 .733 1 April .001 .395 .132 .528 .029 .001 .005 .036 .564 .292 .631 .1 May .001 .220 .110 .331 .030 .002 .005 .037 .368 .309 .733 .1 June .001 .149 .105 .255 .029 .001 .005 .036 .290 .383 .852 .1 July .001 .129 .114 .244 .030 .002 .005 .037 .281 .443 .991 .1 August .001 .129 .109 .238 .029 .001 .005 .037	2004 January	.001	.996	.197	1,194	.030	,002	.005	.037	1,231	,433	.982	2.646
March .001 .611 .146 .758 .030 .002 .005 .037 .795 .338 .733 1 April .001 .395 .132 .528 .029 .001 .005 .036 .564 .292 .631 1 May .001 .220 .110 .331 .030 .002 .005 .037 .368 .309 .733 1 June .001 .149 .105 .255 .029 .001 .005 .036 .290 .383 .852 1 July .001 .129 .114 .244 .030 .002 .005 .037 .281 .443 .991 1 August .001 .123 .109 .238 .029 .001 .005 .037 .269 .432 .963 1 September .001 .129 .109 .238 .029 .001 .005 .036 .274 .385 .821 1 9-Month Total .008 3.637 1.187													2.306
May	March	.001	.611	.146	.758	.030	.002	.005	.037	.795	.338	.733	1.866
June													1.487
July .001 .129 .114 .244 .030 .002 .005 .037 .281 .443 .991 1 August .001 .123 .109 R.232 .030 .002 .005 .037 .269 .432 .963 1 September .001 .129 .109 .238 .029 .001 .005 .036 .274 .385 .821 1 9-Month Total .008 3.637 1.187 4.832 .269 .013 .043 .326 5.158 3.401 7.540 16 2003 9-Month Total .008 3.816 1.130 4.954 .269 .013 .043 .325 5.279 3.373 7.381 16													1.410
August													1.526 1.715
September .001 .129 .109 .238 .029 .001 .005 .036 .274 .385 .821 .1 9-Month Total .008 3.637 1.187 4.832 .269 .013 .043 .326 5.158 3.401 7.540 16 2003 9-Month Total .008 3.816 1.130 4.954 .269 .013 .043 .325 5.279 3.373 7.381 16				.109	R .232								1.664
2003 9-Month Total008 3.816 1.130 4.954 .269 .013 .043 .325 5.279 3.373 7.381 16	September	.001	.129	.109	.238	.029	.001	.005	.036	.274	.385	.821	1.479
	9-Month Total	.008	3.637	1.187	4.832	.269	.013	.043	.326	5.158	3.401	7.540	16.099
	2003 9-Month Total	ຸດດຂ	3.816	1,130	4.954	269	.013	.043	325	5.279	3.373	7,381	16.033
2002 9-Month Total008 3.487 1.104 4.598 .234 .008 .044 .286 4.884 3.326 7.413 15											3.326		15.623

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

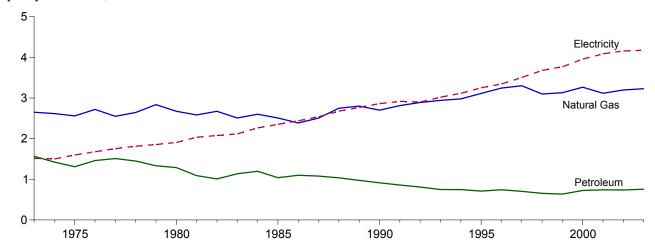
other energy service providers.

[†] See Note 12 at end of section.
R=Revised. NA=Not available.
Notes:

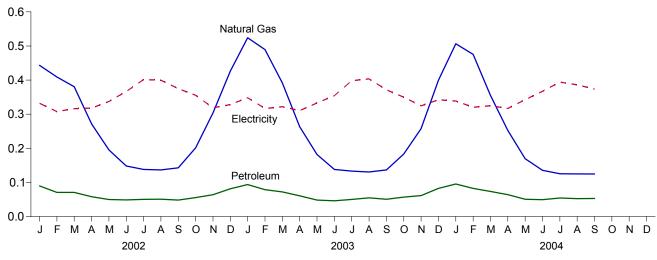
• Totals may not equal sum of components due to independent rounding.
• Geographic coverage is the 50 States and the District of Columbia.
Web Page: http://www.eia.doe.gov/emeu/mer/consump.html.
Additional Notes and Sources: See end of section.

Figure 2.3 Commercial Sector Energy Consumption (Quadrillion Btu)

By Major Sources, 1973-2003

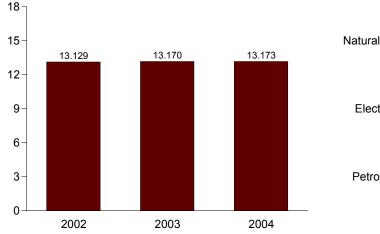


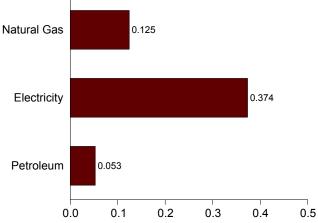
By Major Sources, Monthly



Total, January-September

By Major Sources, September 2004





Note: Because vertical scales differ, graphs should not be compared. Web Page: http://www.eia.doe.gov/emeu/mer/consump.html. Source: Table 2.3.

Table 2.3 Commercial Sector Energy Consumption

(Quadrillion Btu)

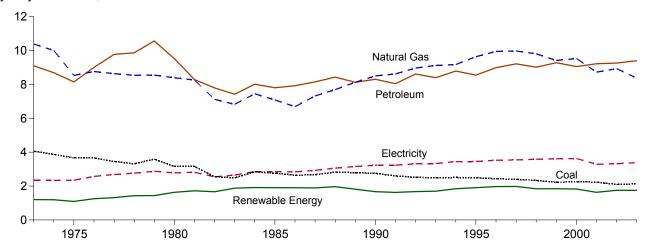
				Prima	ary Consum	ption						
		Foss	il Fuels			Renewat	ole Energy ^a			1		
	Coal	Natural Gas ^b	Petroleum	Total	Hydro- power ^c	Wood and Waste	Geo- thermal ^d	Total	Total Primary	Electricity Retail Sales ^e	Electrical System Energy Losses ^f	Total
1973 Total	0.160	2.649	1.565	4.374	NA	0.007	NA	0.007	4.381	1.517	3.609	9.507
1974 Total	.175	2.617	1.423	4.214	NA	.007	NA	.007	4.221	1.501	3.640	9.363
1975 Total 1976 Total	.147 .144	2.558 2.718	1.310 1.461	4.015 4.324	NA NA	.008 .009	NA NA	.008 .009	4.023 4.333	1.598 1.678	3.845 4.025	9.466 10.035
1977 Total	.148	2.548	1.511	4.207	NA	.010	NA	.010	4.217	1.754	4.206	10.177
1978 Total	.165	2.643	1.450	4.257	NA	.012	NA	.012	4.269	1.813	4.398	10.481
1979 Total 1980 Total	.149 .115	2.836 2.674	1.334 1.288	4.319 4.076	NA NA	.014 .021	NA NA	.014 .021	4.333 4.097	1.854 1.906	4.439 4.591	10.627 10.594
1981 Total	.137	2.583	1.090	3.810	NA	.021	NA	.021	3.831	2.033	4.774	10.638
1982 Total	.155	2.673	1.008	3.837	NA	.022	NA	.022	3.859	2.077	4.944	10.880
1983 Total 1984 Total	.162 .169	2.508 2.600	1.136 1.198	3.805 3.967	NA NA	.022 .022	NA NA	.022 .022	3.827 3.989	2.116 2.264	5.008 5.209	10.952 11.463
1985 Total	.137	2.508	1.039	3.684	NA	.024	NA	.024	3.708	2.351	5.405	11.465
1986 Total	.135	2.386	1.099	3.620	NA	.027	NA	.027	3.647	2.439	5.515	11.600
1987 Total 1988 Total	.125 .131	2.505 2.748	1.079 1.037	3.709 3.916	NA NA	.029 .032	NA NA	.029 .032	3.738 3.948	2.539 2.675	5.674 5.948	11.951 12.571
1989 Total	.115	2.802	.973	3.891	.001	.052	.003	.061	3.952	2.767	6.437	13.156
1990 Total	.124	2.701	.913	3.739	.001	.067	.003	.071	3.810	2.860	6.611	13.281
1991 Total	.116	2.813	.859	3.788	.001	.068	.003	.072	3.860	2.918	6.681	13.458
1992 Total 1993 Total	.117 .117	2.890 2.942	.811 .750	3.817 3.809	.001 .001	.076 .079	.003 .003	.081 .084	3.898 3.892	2.900 3.019	6.596 6.877	13.394 13.788
1994 Total	.118	2.979	.747	3.844	.001	.081	.004	.086	3.930	3.116	7.013	14.059
1995 Total	.117	3.113	.710	3.940	.001	.086	.005	.092	4.032	3.252	7.381	14.665
1996 Total 1997 Total	.122 .129	3.244 3.302	.743 .704	4.108 4.135	.001 .001	.103 .107	.005 .006	.110 .113	4.218 4.248	3.344 3.503	7.599 7.928	15.161 15.679
1998 Total	.093	3.098	.653	3.845	.001	.102	.007	.111	3.956	3.678	8.330	15.964
1999 Total	.103	3.130	.637	3.870	.001	.106	.007	.114	3.984	3.766	8.597	16.347
2000 Total 2001 Total	.092 .097	3.265 3.116	.726 .742	4.083 3.955	.001 .001	.100 .080	.008 800.	.109 .089	4.192 4.044	3.956 4.086	8.982 9.194	17.129 17.323
2001 Total	.031	3.110	./42	0.300	.001	.000	.000	.003	4.044	4.000	3.134	17.525
2002 January	.010	.443	.090	.543	(s)	.007	.001	.007	.550	.332	.721	1.604
February March	.009 .008	.409 .381	.071 .071	.489 .460	(s) (s)	.006 .007	.001 .001	.007 .007	.495 .467	.308 .316	.642 .717	1.445 1.500
April	.007	.272	.058	.337	(s)	.007	.001	.007	.345	.318	.715	1.377
May	.006	.195	.050	.251	(s)	.007	.001	.008	.259	.337	.784	1.380
June July	.005 .007	.148 .138	.049 .050	.202 .196	(s) (s)	.007 .008	.001 .001	.800. 800.	.210 .204	.367 .401	.854 .925	1.431 1.531
August	.006	.137	.051	.194	(s)	.008	.001	.008	.202	.400	.890	1.492
September	.005	.143	.048	.196	(s)	.007	.001	.008	.204	.375	.791	1.370
October November	.006 .009	.201 .304	.055 .064	.263 .377	(s) (s)	.007 .007	.001 .001	.800 .800	.271 .385	.355 .319	.766 .729	1.392 1.432
December	.012	.426	.081	.519	(s)	.007	.001	.007	.527	.328	.761	1.616
Total	.091	3.196	.738	4.025	(s)	.084	.009	.093	4.118	4.157	9.293	17.568
2003 January	.011	.524	.094	.629	(s)	.007	.001	.008	.637	.348	.760	1.745
February	.010	.489	.079	.578	(s)	.007	.001	.008	.586	.317	.648	1.550
March	.007 .008	.392 .263	.072 .061	.471 .332	(s) (s)	.008 .008	.001 .001	.009 .009	.480 .341	.322 .311	.714 .687	1.516 1.338
April May	.006	.182	.048	.236	(s)	.008	.001	.009	.246	.333	.773	1.351
June	.005	.138	.046	.189	(s)	.008	.001	.009	198	.354	.807	R 1.359
July	.007	.133	.050	.190	(s)	.008	.001	.009	R.199	.398	.897	1.495
August September	.007 .005	.131 .137	.055 .051	.193 .192	(s) (s)	.008 .007	.001 .001	.009 .008	.202 .200	.403 .371	.895 .742	1.500 1.314
October	.006	.183	.057	.245	(s)	.008	.001	.009	.255	.350	.756	1.361
November	.009	.258	.061	.328	(s)	.008	.001	.009	.337	.325	.740	1.402
December Total	.014 .094	.400 3.229	.082 .756	.496 R 4.078	(s) . 001	.008 .090	.001 .015	.009 . 107	.505 R 4.185	.342 4.174	.781 9.198	1.629 R 17.557
2004 January February	.012 .010	.507 .475	.095 .082	.614 .567	(s) (s)	.008 .007	.001 .001	.009 .008	.623 .576	.339 .320	.768 .692	1.729 1.588
March	.006	.355	.073	.435	(s)	.007	.001	.008	.444	.325	.705	1.474
April	.008	.253	.064	325	(s)	.008	.001	.009	.334	.317	.686	1.336
May	.006 .005	R .169 R .135	.051 .049	R .226 R .190	(s) (s)	.008 .008	.001 .001	.009 .009	R .235 R .199	.343 .367	.812 .816	R 1.389 R 1.383
June July	R .007	R .125	.054	R.187	(S) (S)	.008	.001	.009	R.199	.394	.883	R 1.473
August	R .006	R .125	.053	^R .184	(s)	.008	.001	.009	R.193	.386	.860	R 1.439
September 9-Month Total	.005	.125	.053	.183	(s) . 001	.007	.001	.009	.191	.374	.798 7.018	1.363
9-WOHLH TOTAL	.066	2.269	.575	2.911	.001	.068	.011	.081	2.991	3.164	7.018	13.173
2003 9-Month Total	.066	2.389	.555	3.009	.001	.067	.011	.079	3.089	3.157	6.924	13.170
2002 9-Month Total	.064	2.265	.537	2.866	(s)	.063	.007	.070	2.936	3.154	7.040	13.129

 ^a All values are estimated; see Table 10.2a.
 ^b Natural gas, plus a small amount of supplemental gaseous fuels that cannot be identified separately.
 ^c Conventional hydroelectric power.
 ^d Geothermal heat pump and direct use energy.
 ^e Electricity retail sales to ultimate customers reported by electric utilities and other energy service providers.

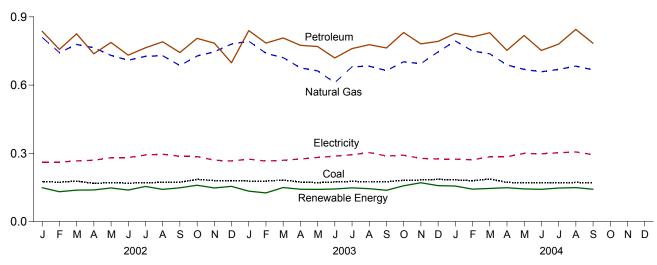
f See Note 12 at end of section.
 R=Revised. NA=Not available. (s)=Less than 0.5 trillion Btu.
 Notes: • Totals may not equal sum of components due to independent rounding. • Geographic coverage is the 50 States and the District of Columbia.
 Web Page: http://www.eia.doe.gov/emeu/mer/consump.html.
 Additional Notes and Sources: See end of section.

Figure 2.4 Industrial Sector Energy Consumption (Quadrillion Btu)

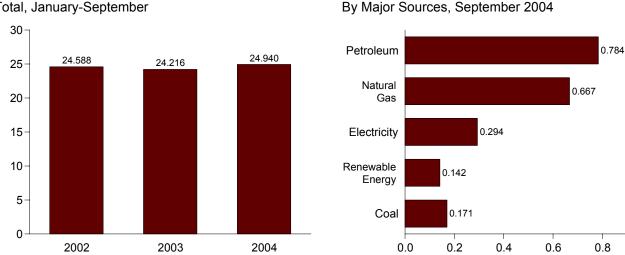
By Major Sources, 1973-2003



By Major Sources, Monthly



Total, January-September



Note: Because vertical scales differ, graphs should not be compared. Web Page: http://www.eia.doe.gov/emeu/mer/consump.html. Source: Table 2.4.

1.0

Table 2.4 Industrial Sector Energy Consumption

(Quadrillion Btu)

	Primary Consumption											
		Foss	il Fuels			Renewab	le Energy ^a				Flantsiani	
	Coal	Natural Gas ^b	Petroleum	Total ^c	Hydro- power ^d	Wood ^e and Waste ^f	Geo- thermal ^g	Total	Total Primary	Electricity Retail Sales ^h	Electrical System Energy Losses	Total ^c
1973 Total 1974 Total 1975 Total 1976 Total 1977 Total 1978 Total 1978 Total 1979 Total 1980 Total 1981 Total 1982 Total 1983 Total 1985 Total 1985 Total 1985 Total 1985 Total	4.057 3.870 3.667 3.454 3.314 3.593 3.155 2.552 2.490 2.842 2.760 2.641 2.673 2.828	10.388 10.004 8.532 8.762 8.635 8.539 8.549 8.395 8.257 7.121 6.826 7.448 7.080 6.690 7.323 7.696	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	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	0.035 .033 .032 .033 .032 .034 .033 .033 .033 .033 .033 .033 .033	1.165 1.159 1.063 1.220 1.281 1.400 1.405 1.634 1.634 1.845 1.845 1.875 1.866 1.858	NA N	1.200 1.192 1.096 1.253 1.314 1.432 1.439 1.633 1.722 1.667 1.879 1.916 1.908 1.899 1.899 1.995	24.741 23.816 21.454 22.685 23.193 23.277 24.211 22.673 21.404 19.112 18.598 20.208 19.540 19.133 20.046 20.958	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 2.834 2.928	5.571 5.666 5.647 6.171 6.432 6.696 6.878 6.698 6.615 6.050 6.265 6.576 6.563 6.408 6.545 6.801	32.653 31.819 29.447 31.429 32.307 32.733 33.962 32.152 30.836 27.704 27.511 29.643 28.958 28.375 29.519 30.818
1989 Total 1990 Total 1991 Total 1992 Total 1993 Total 1993 Total 1994 Total 1996 Total 1997 Total 1998 Total 1998 Total 1999 Total 1999 Total 2000 Total 2001 Total	2.787 2.756 2.601 2.515 2.496 2.510 2.488 2.434 2.335 2.227 2.256 2.230	8.131 8.502 8.619 8.967 9.120 9.172 9.637 9.947 9.806 9.415 9.535 8.725	8.126 8.305 8.047 8.616 8.398 8.792 8.552 8.989 9.214 9.017 9.284 9.055 9.220	19.074 19.568 19.277 20.133 20.042 20.532 20.738 21.393 21.632 21.226 20.983 20.912	.028 .031 .030 .031 .030 .062 .055 .061 .058 .055 .049	1.784 1.634 1.595 1.640 1.664 1.779 1.847 1.907 1.915 1.784 1.791 1.781 1.593	.002 .002 .002 .002 .003 .003 .003 .003	1.814 1.667 1.626 1.672 1.696 1.844 1.905 1.971 1.976 1.841 1.843 1.828	20.888 21.235 20.903 21.806 21.738 22.376 22.643 23.364 23.608 23.067 22.826 22.740 21.834	3.158 3.226 3.230 3.319 3.334 3.439 3.455 3.527 3.542 3.542 3.631 3.631 3.290	7.349 7.457 7.394 7.548 7.596 7.742 8.014 8.017 8.124 8.242 8.245 7.404	31.396 31.918 31.527 32.673 32.668 33.557 33.941 34.905 35.167 34.777 34.679 34.616 32.527
Pebruary	.175 .173 .177 .168 .170 .169 .170 .173 .172 .185 .180 .180	.810 .743 .779 .764 .731 .726 .729 .686 .728 .746 .780 8.931	.837 .757 .826 .738 .788 .732 .764 .790 .743 .806 .785 .698	1.821 1.676 1.789 1.668 1.693 1.612 1.670 1.699 1.610 1.725 1.721 1.662 20.348	.003 .003 .003 .003 .003 .003 .003 .002 .003 .005 .005	.145 .128 .135 .135 .144 .136 .151 .138 .145 .156 .143 .149	(s) (s) (s) (s) (s) (s) (s) (s) (s) (s)	.149 .131 .138 .139 .147 .139 .154 .141 .148 .155 1.748	1.970 1.807 1.928 1.807 1.840 1.751 1.824 1.841 1.758 1.884 1.869 1.817 22.096	.261 .261 .267 .269 .281 .281 .292 .296 .287 .286 .270 .266 3.317	.568 .544 .605 .605 .652 .655 .674 .659 .606 .616 .617	2.799 2.611 2.799 2.682 2.772 2.687 2.791 2.795 2.651 2.786 2.755 2.701 32.830
2003 January	R 178 R 178 R 182 R 174 R 171 R 174 R 176 R 175 R 181 R 183 R 185 R 2.132	R .793 R .740 R .721 R .676 .663 R .680 R .683 R .664 R .702 R .694 R .746	.840 .785 .807 .775 .769 .719 .761 .778 .763 .831 .792 9.402	R1.812 R1.716 R1.714 R1.628 R1.605 R1.508 R1.622 R1.636 R1.605 R1.605 R1.605 R1.605 R1.719 R1.662 R1.729	.004 .004 .005 .004 .005 .005 .005 .005	.129 .122 .144 .137 .135 .138 .143 .139 .133 .153 .153 .166 .151	(s) (s) (s) (s) (s) (s) (s) (s) (s) (s)	.134 .126 .149 .142 .141 .143 .148 .144 .137 .157 .157 .158	R 1.946 R 1.842 R 1.863 R 1.770 R 1.746 R 1.651 R 1.770 R 1.783 R 1.877 R 1.832 R 1.887	.274 .266 .269 .275 .281 .288 .294 .303 .288 .292 .278 .275 3.383	.598 .544 .597 .608 .654 .655 .662 .672 .576 .630 .633 .628 7.453	R 2.818 R 2.652 R 2.729 R 2.653 R 2.681 R 2.594 R 2.726 R 2.756 R 2.708 R 2.798 R 2.743 R 2.790 R 32.542
Pebruary February March April May June July August September 9-Month Total	R .183 R .179 R .187 R .172 R .171 R .170 R .170 R .172 .171	.794 .750 .737 .689 .669 .658 R .669 .683 .667 6.317	.827 .812 .830 .753 .818 .752 .780 .845 .784	R 1.808 R 1.750 R 1.764 R 1.637 R 1.696 R 1.601 R 1.628 R 1.707 1.620	.005 .004 .004 .004 .003 .003 .004 .005	.150 .138 .141 .145 .139 .138 .144 .145 .137	(s) (s) (s) (s) (s) (s) (s) (s)	.156 .142 .145 .149 .143 .141 .147 .149 .142	R 1.964 R 1.893 R 1.909 R 1.786 R 1.839 R 1.776 R 1.856 1.762 16.527	.274 .271 .284 .285 .299 .298 .302 .306 .294 2.614	.622 .587 .617 .617 .709 .662 .677 .681 .628	R 2.860 R 2.751 R 2.810 R 2.688 R 2.847 R 2.701 R 2.755 R 2.843 2.684 24.940
2003 9-Month Total 2002 9-Month Total	1.582 1.548	6.230 6.677	6.997 6.974	14.846 15.240	.042 .025	1.219 1.258	.004 .004	1.265 1.286	16.111 16.526	2.538 2.495	5.567 5.567	24.216 24.588

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

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

g Geothermal heat pump and direct use energy.

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

l See Note 12 at end of section.

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

Notes:

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

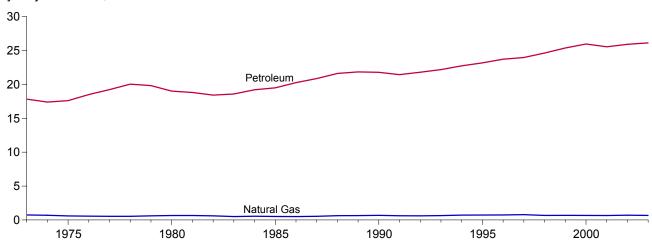
Geographic coverage is the 50 States and the District of Columbia.

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

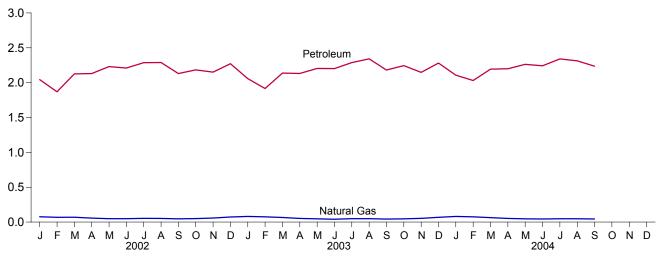
Additional Notes and Sources: See end of section.

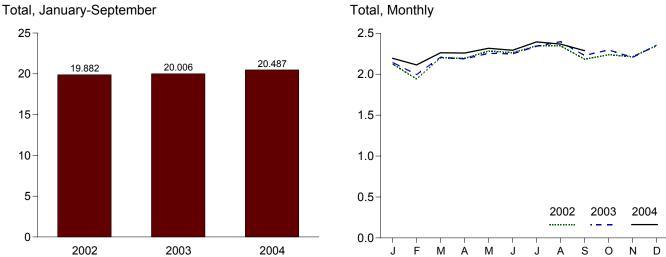
Figure 2.5 Transportation Sector Energy Consumption (Quadrillion Btu)

By Major Sources, 1973-2003



By Major Sources, Monthly





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

Table 2.5 Transportation Sector Energy Consumption

(Quadrillion Btu)

			Primary Co	nsumption					
		Foss	il Fuels		Renewable Energy ^a			Electrical	
	Coal	Natural Gas ^b	Petroleum ^{c,d}	Total	Alcohol Fuels ^{d,e}	Total Primary ^d	Electricity Retail Sales ^f	System Energy Losses ⁹	Totald
1973 Total 1974 Total	0.003 .002	0.743 .685	17.831 17.399	18.576 18.086	NA NA	18.576 18.086	0.011 .010	0.025 .024	18.612 18.119
1975 Total	.001	.595	17.614	18.209	NA	18.209	.010	.024	18.244
1976 Total	(s)	.559	18.506	19.065	NA	19.065	.010	.024	19.099
1977 Total	(s)	.543	19.241	19.784	NA NA	19.784	.010	.025 .024	19.820
1978 Total 1979 Total	\n\	.539 .612	20.041 19.825	20.580 20.436	NA NA	20.580 20.436	.010 .010	.024	20.615 20.471
1980 Total	}h {	.650	19.008	19.658	NA	19.658	.011	.027	19.696
1981 Total	(h)	.658	18.811	19.469	.007	19.476	.011	.026	19.513
1982 Total	(h)	.612	18.420	19.032	.019	19.051	.011	.026	19.088
1983 Total 1984 Total	\n'\	.505 .545	18.593 19.216	19.098 19.761	.035 .043	19.133 19.804	.013 .014	.030 .033	19.176 19.851
1985 Total	}h {	.519	19.504	20.023	.052	20.075	.014	.033	20.122
1986 Total	(h)	.499	20.269	20.768	.060	20.828	.015	.034	20.877
1987 Total	(h)	.535	20.870	21.405	.069	21.474	.016	.035	21.524
1988 Total 1989 Total	\;\;\	.632 .649	21.629 21.848	22.261 22.497	.070 .071	22.331 22.568	.016 .016	.035 .038	22.382 22.622
1990 Total	}h {	.680	21.792	22.472	.063	22.535	.016	.037	22.589
1991 Total	(h)	.620	21.448	22.069	.073	22.142	.016	.037	22.195
1992 Total	(h)	.608	21.798	22.406	.083	22.489	.016	.037	22.542
1993 Total 1994 Total	\'n\	.645 .709	^d 22.185 22.739	22.830 23.448	^d .097 .109	^d 22.830 23.448	.016 .017	.037 .038	^d 22.883 23.503
1995 Total	} h {	.724	23.181	23.905	.117	23.905	.017	.039	23.960
1996 Total	(h)	.737	23.719	24.456	.084	24.456	.017	.038	24.511
1997 Total	(h)	.780	23.973	24.753	.106	24.753	.017	.038	24.808
1998 Total 1999 Total	\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	.666 .675	24.635 25.375	25.301 26.050	.117 .122	25.301 26.050	.017 .017	.038 .040	25.357 26.108
2000 Total	}h {	.672	25.973	26.645	.139	26.645	.018	.042	26.705
2001 Total	(h)	.659	25.556	26.215	.147	26.215	.019	.042	26.276
2002 January	(h)	.076	2.044	2.120	.013	2.120	.001	.003	2.124
February	} h {	.069	1.869	1.938	.012	1.938	.001	.003	1.942
March	(h (.069	2.127	2.196	.012	2.196	.001	.003	2.200
April	(h (.057	2.131	2.188	.012	2.188	.001	.003	2.193
May June	\ h \	.049 .048	2.230 2.210	2.279 2.258	.014 .012	2.279 2.258	.001 .002	.003 .004	2.284 2.263
July	\h \	.053	2.287	2.340	.015	2.340	.002	.004	2.346
August	(h)	.052	2.290	2.342	.014	2.342	.002	.004	2.347
September	(h)	.047	2.131	2.178	.015	2.178	.002	.004	2.183
October November	\ h \	.050 .058	2.183 2.151	2.233 2.209	.017 .020	2.233 2.209	.002 .001	.003 .003	2.238 2.214
December	\h \	.073	2.272	2.345	.019	2.345	.001	.003	2.349
Total	(h)	.702	25.924	26.626	.174	26.626	.018	.039	26.683
2003 January	(h)	.081	2.059	2.140	.017	2.140	.001	.003	2.144
February	(h)	.075	1.916	1.991	.020	1.991	.001	.003	1.995
March	(")	.066 .052	2.138	2.204	.017 .020	2.204 2.184	.001 .001	.003 .003	2.208 2.188
April May	\ h \	.046	2.131 2.205	2.184 2.251	.019	2.164	.001	.003	2.100
June	(h (.041	2.202	2.243	.019	2.243	.002	.004	2.248
July) h	.048	2.288	2.336	.020	2.336	.002	.004	2.341
August	(") (h)	.049 R .042	2.342 2.182	2.391 2.224	.021 .018	2.391 2.224	.002 .002	.004	2.397 2.229
September October	\ h \	.047	2.162	2.224	.021	2.292	.002	.003 .003	2.229
November	\h \	.053	2.148	2.201	.024	2.201	.001	.003	2.206
December	(h)	R.068	2.280	2.349	.025	2.349	.002	.003	2.354
Total	(h)	R.670	26.135	26.805	.239	26.805	.018	.040	26.863
2004 January	(h)	E.080	2.108	2.188	.024	2.188	.002	.005	2.195
February	(h (E.075 E.063	2.031	2.106	.022	2.106	.002	.005	2.113
March April	\ h \	E.053	2.193 2.199	2.257 2.252	.024 .024	2.257 2.252	.002 .002	.004 .004	2.262 2.258
May	\h \	E.047	2.263	2.310	.025	2.310	.002	.004	2.316
June	(h)	E.044	2.242	2.286	.025	2.286	.002	.004	2.292
July	(h) (h)	RE .047 E .047	2.341	2.388	.025	2.388	.002	.005	2.395
August September	('')	E.047	2.313 2.236	2.361 2.280	.024 .026	2.361 2.280	.002 .002	.005 .005	2.368 2.287
9-Month Total	(h)	E .501	19.927	20.428	.026 . 219	20.428	.018	.005 . 040	20.487
2003 9-Month Total	(h)	.502	19.461	19.963	.169	19.963	.013	.030	20.006
2002 9-Month Total	(h)	.521	19.318	19.839	.119	19.839	.013	.030	19.882

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

consumption and total consumption.

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

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

beginning in 1996, other energy service providers.

⁹ See Note 12 at end of Section.

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

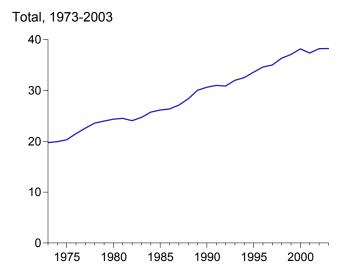
R=Revised. E=Estimate. NA=Not available. (s)=Less than 0.5 trillion Btu.

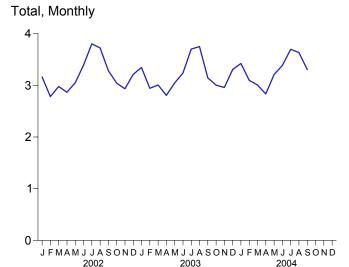
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Web Page: http://www.eia.doe.gov/emeu/mer/consump.html.

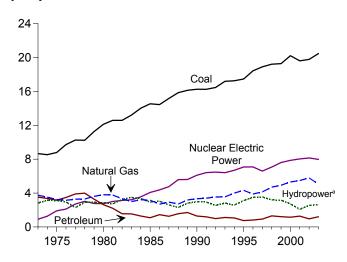
Additional Notes and Sources: See end of section.

Figure 2.6 Electric Power Sector Energy Consumption (Quadrillion Btu)

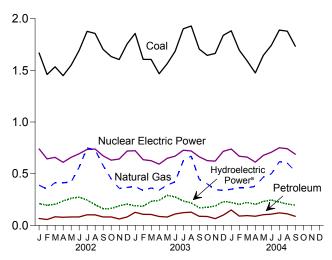




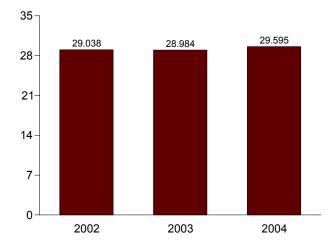
By Major Sources, 1973-2003



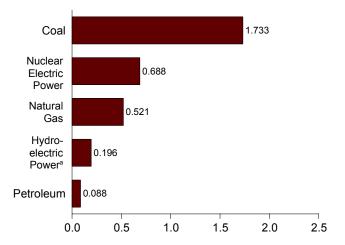
By Major Sources, Monthly



Total, January-September



By Major Sources, September 2004



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

Table 2.6 Electric Power Sector Energy Consumption

(Quadrillion Btu)

						Prima	ry Consumptior	l					
		Foss	il Fuels					Renewa	ble Energy	•			
	Coal	Natural Gas ^a	Petroleum	Total	Nuclear Electric Power	Hydro- electric Pumped Storage ^b	Conventional Hydroelectric Power	Wood ^c and Waste ^d	Geo- thermal ^e	Solar ^f and Wind ^g	Total	Electricity Net Imports	Total Primary
1973 Total 1974 Total 1975 Total 1976 Total	8.658 8.534 8.786 9.720	3.748 3.519 3.240 3.152	3.515 3.365 3.166 3.477	15.921 15.418 15.191 16.349	0.910 1.272 1.900 2.111	(h) (h) (h) (h)	2.827 3.143 3.122 2.943	0.003 .003 .002 .003	0.043 .053 .070 .078	NA NA NA NA	2.873 3.199 3.194 3.024	0.049 .043 .021 .029	19.753 19.933 20.307 21.513
1977 Total 1978 Total 1979 Total 1980 Total 1981 Total 1982 Total	12.583	3.284 3.297 3.613 3.810 3.768 3.342	3.901 3.987 3.283 2.634 2.202 1.568	17.446 17.522 18.156 18.567 18.553 17.491	2.702 3.024 2.776 2.739 3.008 3.131	\h \ (h) (h) (h) (h)	2.301 2.905 2.897 2.867 2.725 3.233	.005 .003 .005 .005 .004 .003	.077 .064 .084 .110 .123 .105	NA NA NA NA NA	2.383 2.973 2.986 2.982 2.852 3.341	.059 .067 .069 .071 .113 .100	22.591 23.587 23.987 24.359 24.525 24.063
1983 Total 1984 Total 1985 Total 1986 Total 1987 Total 1988 Total	14.019 14.542 14.444 15.173	2.998 3.220 3.160 2.691 2.935 2.709	1.544 1.286 1.090 1.452 1.257 1.563	17.754 18.526 18.792 18.586 19.365 20.123	3.203 3.553 4.076 4.380 4.754 5.587	(h) (h) (h) (h) (h)	3.494 3.353 2.937 3.038 2.602 2.302	.004 .009 .014 .012 .015	.129 .165 .198 .219 .229 .217	(s) (s) (s) (s) (s)	3.627 3.527 3.150 3.270 2.846 2.536	.121 .135 .140 .122 .158 .108	24.705 25.741 26.158 26.359 27.124 28.354
1989 Total 1990 Total 1991 Total 1992 Total 1993 Total 1994 Total 1995 Total 1996 Total 1997 Total 1998 Total 1998 Total 1999 Total 1999 Total 2000 Total	16.137 16.261 16.250 16.466 17.196 17.261 17.466 18.429 18.905 19.216 19.279	3.192 3.399 3.534 3.560 4.000 4.325 3.883 4.146 4.698 4.926 5.316 5.481	1.703 1.289 1.198 9.991 1.124 1.059 .755 .817 .927 1.306 1.211 1.144 1.277	21.032 20.883 20.847 20.990 21.880 22.320 22.546 23.129 23.977 25.220 25.416 26.680 26.371	5.602 6.104 6.422 6.479 6.410 6.694 7.075 7.087 6.597 7.068 7.610 7.862 8.033	(h) 036 047 043 042 035 028 032 041 046 062 057 090	2.808 3.014 2.985 2.586 2.861 2.620 3.149 3.528 3.581 3.241 3.218 2.768 2.169	.232 .317 .354 .402 .415 .434 .422 .438 .446 .444 .453 .453	.308 .326 .335 .338 .351 .325 .280 .300 .309 .311 .312 .296 .289	.035 .036 .034 .036 .041 .038 .039 .039 .036 .051 .062	3.372 3.689 3.710 3.360 3.662 3.420 3.889 4.305 4.375 4.032 4.034 3.579 2.982	.037 .008 .067 .087 .095 .153 .134 .137 .116 .088 .099 .115	30.044 30.647 30.999 30.873 32.006 32.551 33.616 34.626 35.024 36.363 37.097 38.180 37.372
Populary	1.668 1.460 1.535 1.448 1.549 1.691 1.877 1.857 1.703 1.633 1.605 1.756	.389 .351 .415 .412 .418 .562 .749 .732 .580 .451 .359 .367	.067 .057 .084 .079 .082 .082 .102 .082 .081 .062 .081	2.124 1.868 2.033 1.939 2.049 2.335 2.728 2.691 2.365 2.166 2.026 2.205 26.529	.740 .644 .658 .610 .658 .693 .735 .739 .673 .631 .631 .642 .719	008 006 007 006 005 009 010 009 007 007 007	.218 .201 .210 .242 .267 .283 .255 .211 .170 .170 .195 .214	.043 .037 .043 .040 .041 .043 .046 .045 .043 .043 .046 .516	.027 .024 .026 .023 .026 .024 .027 .026 .025 .026 .025	.008 .007 .009 .011 .011 .012 .010 .011 .008 .008 .007	.296 .270 .288 .316 .345 .362 .337 .293 .248 .247 .270 .293 3.567	.009 .007 .006 .006 .003 .007 .012 .010 .006 .005 .004 .003	3.162 2.782 2.978 2.866 3.050 3.388 3.803 3.724 3.284 3.042 2.935 3.214 38.228
2003 January		.376 .337 .362 .341 .391 .624 .670 .445 .401 .346 .338 5.053	.126 .107 .105 .086 .081 .110 .124 .128 .088 .087 .066 .099	2.360 2.051 2.073 1.894 2.035 2.216 2.650 2.728 2.239 2.133 2.075 2.275 26.729	.722 .636 .626 .593 .649 .670 .727 .721 .664 .627 .622 .716 7.973	008 008 008 006 006 008 008 008 008 007 007	.195 .195 .241 .248 .297 .283 .244 .226 .180 .181 .195 .238	.042 .036 .042 .040 .039 .041 .046 .045 .040 .044 .044	.024 .022 .023 .022 .023 .023 .023 .023 .023	.006 .007 .011 .012 .010 .011 .010 .009 .010 .010 .011	.267 .260 .317 .322 .368 .358 .323 .302 .251 .258 .272 .322 3.619	.005 .004 001 .003 .001 .001 .010 .008 002 006 003	3.346 2.943 3.006 2.806 3.047 3.238 3.702 3.750 3.144 3.004 2.960 3.307 38.255
Pebruary		.350 .365 .364 .378 .468 .498 .617 .604 .521	.149 .091 .095 .089 .104 .108 .121 .112 .088	2.382 2.151 2.049 1.941 2.217 2.348 2.627 2.594 2.342 20.651	.739 .669 .661 .612 .678 .708 .751 .742 .688 6.248	008 006 007 007 007 007 008 008	.230 .209 .228 .210 .239 .252 .231 .215 .203 2.017	.045 .040 .042 .040 .043 .041 .046 .045 .040	.026 .025 .025 .024 .025 .025 .026 .026	.009 .010 .013 .013 .017 .015 .012 .011	.310 .284 .309 .286 .323 .315 .296 .280 2.735	(s) .000 003 (s) .001 .002 .010 .012 .003	3.424 3.097 3.008 2.833 3.211 3.384 3.697 3.636 3.306 29.595
2003 9-Month Total 2002 9-Month Total	15.321 14.788	3.968 4.608	.956 .736	20.245 20.132	6.008 6.150	067 068	2.108 2.057	.371 .384	.205 .228	.083 .088	2.767 2.757	.030 .066	28.984 29.038

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

b Pumped storage facility production minus energy used for pumping.
c Wood, black liquor, and other wood waste.
d Municipal solid waste, landfill gas, sludge waste, tires, agricultural byproducts, and other biomass.
e Geothermal electricity net generation.
f Solar thermal and photovoltaic electricity net generation.
9 Wind electricity net generation.
h Included in conventional hydroelectric power.
i Through 1988, data are for consumption at electric utilities only. Beginning in</sup>

^{1989,} data also include consumption at independent power producers. NA=Not available. (s)=Less than 0.5 trillion Btu.

Notes: • Data are for fuels consumed to produce electricity and useful thermal output. • The electric power sector comprises electricity-only and combined-heat-and-power (CHP) plants within the NAICS 22 category whose primary business is to sell electricity, or electricity and heat, to the public. • Totals may not equal sum of components due to independent rounding. • Geographic coverage is the 50 States and the District of Columbia. Web Page: http://www.eia.doe.gov/emeu/mer/consump.html. Additional Notes and Sources: See end of section.

Energy Consumption by Sector

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

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

Note 1. Energy Consumption:

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

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

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

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

Residential Sector—An energy-consuming sector that consists of living quarters for private households. Common uses of energy associated with this sector include space heating, water heating, air conditioning, lighting, refrigeration, cooking, and running a variety of other appliances. The residential sector excludes institutional living quarters. For further explanation see:

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

Commercial Sector—An energy-consuming sector that consists of service-providing facilities and equipment of: businesses; Federal, State, and local governments; and other private and public organizations, such as religious, social, or fraternal groups. The commercial sector includes institutional living quarters. Common uses of energy associated with this sector include space heating, water heating, air conditioning, lighting, refrigeration, cooking, and running a wide variety of other equipment. *Note:* This sector includes generators that produce electricity and/or useful thermal output primarily to support the activities of the abovementioned commercial establishments.

Industrial Sector—An energy-consuming sector that consists of all facilities and equipment used for producing, processing, or assembling goods. The industrial sector encompasses the following types of activity: manufacturing (NAICS (North American Industry Classification System) codes 31-33); agriculture, forestry, fishing and hunting (NAICS code 11); mining, including oil and gas extraction (NAICS code 21); natural gas distribution (NAICS code 2212); and construction (NAICS code 23). Overall energy use in this sector is largely for process heat and cooling and powering machinery, with lesser amounts used for facility heating, air conditioning, and lighting. Fossil fuels are also used as raw material inputs to manufactured products. Note: This sector includes generators that produce electricity and/or useful thermal output primarily to support the above-mentioned industrial activities.

Transportation Sector—An energy-consuming sector that consists of all vehicles whose primary purpose is transporting people and/or goods from one physical location to another. Included are automobiles; trucks; buses; motorcycles; trains, subways, and other rail vehicles; aircraft; and ships, barges, and other waterborne vehicles. Vehicles whose primary purpose is not transportation (e.g., construction cranes and bulldozers, farming vehicles, and warehouse tractors and forklifts) are classified in the sector of their primary use. *Note:* Various EIA programs differ in sectoral coverage. For further information see:

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

Electric Power Sector—An energy-consuming sector that consists of electricity-only and combined-heat-and-power (CHP) plants whose primary business is to sell electricity, or

electricity and heat, to the public—i.e., North American Industry Classification System 22 plants.

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

Note 3. Conversion Factors: See Appendix A.

Note 4. Coal: See Tables 6.2 and A5.

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

Sources:

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

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

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

1982 forward: EIA, Quarterly Coal Report.

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

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

The sources for petroleum product supplied by product are:

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

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

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

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

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

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

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

Distillate Fuel Consumed by the Electric Power Sector, All Time Periods—For 1973-1979, consumption of distillate fuel is assumed to be the amount of petroleum (minus small amounts of kerosene and kerosene-type jet fuel deliveries) consumed in gas turbine and internal combustion plants. For 1980 forward, consumption of distillate fuel is assumed to be the amount of light oil (minus small amounts of kerosene deliveries through 1982) consumed by the electric power sector. See Table 7.3e.

Distillate Fuel Consumed by End-Use Sectors, Annually Through 2000—The aggregate end-use amount is total distillate fuel supplied minus the amount consumed for electric power. The end-use total consumed annually is allocated into the individual end-use sectors (residential, commercial, industrial, and transportation) in proportion to each sector's share of "adjusted sales" as reported in EIA's *Fuel Oil and Kerosene Sales* (*Sales*) report series (DOE/EIA-0535), which is based primarily on data collected by Form EIA-821, previously Form EIA-172. "Adjusted sales" are sales that have been adjusted to equal EIA distillate fuel product supplied.

Following are notes on the individual sector groupings:

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

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

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

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

Distillate Fuel Consumed by End-Use Sectors, Monthly Through 2000—Residential and commercial monthly consumption is estimated by allocating the annual estimates, which are described above, into the months in proportion to each month's share of the year's sales of No. 2 heating oil. The years' sales totals are from the following sources: for 1973-1980, the Ethyl Corporation, *Monthly Report of Heating Oil Sales*; for 1981 and 1982, the American Petroleum Institute, *Monthly Report of Heating Oil Sales*; and for 1983 forward, EIA, Form EIA-782A, "Refiners'/Gas Plant Operators' Monthly Petroleum Product Sales Report," No. 2 Fuel Oil Sales to End Users and for Resale.

The transportation highway use portion is allocated into the months in proportion to each month's share of the year's total sales for highway use as reported by the Federal Highway Administration's Table MF-25, "Private and Commercial Highway Use of Special Fuels by Months." After 1993, the sales-for-highway-use data are no longer available as a monthly series; the 1993 data are used for allocating succeeding year's totals into months. The remaining transportation use of distillate fuel (i.e., for railroads, vessel bunkering, and military use) is evenly distributed over the months, adjusted for the number of days per month.

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

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

Jet Fuel—Through 1982, small amounts of kerosene-type jet fuel were consumed by the electric power sector. Kerosene-type jet fuel deliveries to the electric power sector as reported on the Form FERC-423 (formerly Form FPC-423) were used as estimates of this consumption. All remaining jet fuel (kerosene-type and naphtha-type) is consumed by the transportation sector.

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

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

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

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

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

Sales of LPG to the residential and commercial sector are converted from thousand gallons per year to thousand barrels per year and are assumed to be the annual consumption of LPG by the sector.

The quantity of LPG sold each year for consumption in internal combustion engines is allocated between the transportation and industrial sectors on the basis of data for special fuels used on highways published by the U.S. Department of Transportation, Federal Highway Administration, in *Highway Statistics*. The allocations of LPG sold for internal combustion engine use to the transportation sector range from a low of 20 percent (in 2001) to a high of 73 percent (in 1994).

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

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

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

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

to remove quantities of pentanes plus and to estimate withheld values.

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

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

Commercial sales are the sum of sales for public nonhighway use and miscellaneous and unclassified uses.

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

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

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

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

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

Residual Fuel Consumed by End-Use Sectors, Annually Through 2000—The aggregate end-use amount is total residual fuel supplied minus the amount consumed for electric power. The end-use total consumed annually is allocated into the individual end-use sectors (commercial, industrial, and transportation) in proportion to each sector's share of "adjusted sales" as reported in EIA's Fuel Oil and Kerosene Sales (Sales) report series (DOE/EIA-535), which is based primarily on data collected by Form EIA-821, previously Form EIA-172). "Adjusted sales" are sales that have been adjusted to equal EIA residual fuel product supplied.

Following are notes on the individual sector groupings:

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

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

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

Residual Fuel Consumed by End-Use Sectors, Monthly Through 2000—Commercial monthly consumption is estimated by allocating the annual estimates, which are described above, into the months in proportion to each month's share of the year's sales of No. 2 heating oil. The years' sales totals are from the following sources: for 1973-1980, the Ethyl Corporation, *Monthly Report of Heating Oil Sales*; for 1981 and 1982, the American Petroleum Institute, *Monthly Report of Heating Oil Sales*; and for 1983-1996, EIA, Form EIA-782A, "Refiners'/Gas Plant Operators' Monthly Petroleum Product Sales Report," No. 2 Fuel Oil Sales to End Users and for Resale.

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

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

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

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

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

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

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

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

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

Note 12. Electrical System Energy Losses: Electrical system energy losses are calculated as the difference between total primary consumption by the electric power sector-see Table 2.6-and the total energy content of the retail sales of electricity-see Tables 7.5 and A6. Most of these losses occur at steam-electric power plants (conventional

and nuclear) in the conversion of heat energy into mechanical energy to turn electric generators. The loss is a thermodynamically necessary feature of the steam-electric cycle. Part of the energy input-to-output losses is a result of imputing fossil energy equivalent inputs for hydroelectric and other energy sources, since there is no generally accepted practice for measuring those thermal conversion rates. In addition to conversion losses, other losses include power plant use of electricity, transmission and distribution of electricity from power plants to end-use consumers (also called "line losses"), and unaccounted for electricity. Total losses are allocated to the end-use sectors in proportion to each sector's share of total electricity sales. Overall, approximately 67 percent of total energy input is lost in conversion; of electricity generated, approximately 5 percent is lost in plant use and 9 percent is lost in transmission and distribution. Calculated electrical system energy losses may be less than actual losses, because primary consumption does not include the energy equivalent of utility purchases of electricity from non-electric utilities and from Canada and Mexico, although they are included in electricity sales.

Section 3. Petroleum

Total petroleum imports¹ were estimated as 13.3 million barrels per day in November 2004, slightly lower than the previous month's rate but 13 percent higher than the November 2003 rate.

In November 2004, an estimated 20.6 million barrels per day of petroleum products were supplied for domestic use, 4 percent higher than the November 2003 rate. Motor gasoline accounted for 44 percent of the total; distillate fuel oil, 20 percent; and kerosene-type jet fuel, 8 percent.

Motor gasoline product supplied during November 2004 was estimated as 9.1 million barrels per day, slightly higher than the previous month's rate and 2 percent higher than the November 2003 rate. Total motor gasoline stocks were estimated as 207 million barrels at the end of November 2004, 3 million barrels above the stock level in both the

previous month and the level 1 year earlier.

Distillate fuel oil product supplied during November 2004 was estimated as 4.1 million barrels per day, 1 percent higher than the previous month's rate and 8 percent higher than the November 2003 rate. Distillate fuel oil ending stocks for November 2004 were estimated as 119 million barrels, 1 million barrels above the stock level in the previous month but 17 million barrels below the level 1 year earlier.

Kerosene-type jet fuel product supplied in November 2004 was estimated as 1.6 million barrels per day, 1 percent higher than both the previous month's rate and the November 2003 rate. Kerosene-type jet fuel stocks were estimated as 41 million barrels at the end of November 2004, 1 million barrels above the stock level in the previous month and 3 million barrels above the level 1 year earlier.

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

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

	F	ield Productio	n	Stock C	Change ^a		Stocksb
	Total Domestic ^c	Crude Oil	Natural Gas Plant Liquids	Crude Oild	Petroleum Products	Petroleum Products Supplied	Crude Oil ^d and Petroleum Products
			Thousand Ba	rrels per Day			Million Barrels
1973 Average	10,975 10,498 10,045 9,774 9,913 10,328 10,179 10,214 10,252 10,299 10,554 10,636 10,289 10,008 9,818 9,219 8,994 9,168 8,996 98,836 8,645 8,607 8,611 8,392 8,107	9,208 8,774 8,375 8,132 8,245 8,707 8,552 8,597 8,572 8,688 8,879 8,971 8,680 8,349 8,140 7,613 7,355 7,417 7,7171 6,847 6,662 6,560 6,465 6,452 6,252 5,881	1,738 1,688 1,633 1,604 1,618 1,567 1,584 1,573 1,609 1,559 1,630 1,609 1,551 1,595 1,625 1,546 1,559 1,659 1,659 1,659 1,659 1,659 1,659 1,659 1,736 1,727 1,762 1,830 1,817 1,759 1,850	-11 62 e17 39 170 78 148 98 e290 136 e214 199 50 78 128 128 -35 -42 -1 81 18 -93 -124 51 74 -118	146 117 e15 -96 378 -172 25 42 e-130 -283 e-234 81 -153 124 -87 -29 -129 142 32 -68 e70 -2 -28 -153	17,308 16,653 16,322 17,461 18,431 18,847 18,513 17,056 16,058 15,226 15,221 15,726 15,726 16,281 16,665 17,283 17,325 16,988 16,714 17,033 17,327 17,718 17,718 17,725 18,309 18,620 18,917 19,519	1,008 e1,074 1,133 1,112 1,312 1,278 1,341 e1,392 1,484 e1,430 1,454 1,556 1,519 1,593 1,607 1,597 1,581 1,621 1,617 e1,592 e1,647 1,653 1,563 1,507 1,560 1,507 1,560 1,517 1,650 1,647 1,653 1,560 1,647 1,653 1,560 1,647 1,493
1999 Average 2000 Average 2001 Average	8,110 8,110 8,054	5,822 5,801	1,911 1,868	-70 99	-304 (s) 227	19,701 19,649	1,493 1,468 1,586
2002 January February March April May June July August September October November December Average	8,068 8,126 8,139 8,215 8,317 8,206 8,022 8,205 7,748 7,645 7,949 7,887 8,043	5,848 5,871 5,883 5,859 5,924 5,915 5,770 5,811 5,411 5,363 5,597 5,699 5,746	1,827 1,900 1,901 1,925 1,936 1,870 1,846 1,937 1,898 1,875 1,891 1,760 1,880	409 443 248 -120 222 -143 -362 -139 -687 749 96 -234	-270 -951 -364 641 504 316 190 -328 -56 -782 85 -751 -145	19,454 19,444 19,676 19,552 19,728 19,875 20,076 20,221 19,461 19,678 19,991 19,943 19,761	1,591 1,576 1,573 1,588 1,611 1,616 1,611 1,596 1,574 1,573 1,573 1,578 1,548
2003 January February March April May June July August September October November December Average	7,968 8,014 7,963 7,845 7,791 7,692 7,615 7,710 7,956 7,853 7,771 7,717 7,823	5,785 5,791 5,817 5,774 5,733 5,701 5,526 5,595 5,683 5,635 5,550 5,579 5,681	1,758 1,812 1,729 1,7701 1,564 1,582 1,649 1,703 1,761 1,818 1,839 1,723 1,719	-110 -106 339 338 -75 150 135 441 468 -356 -244	-1,293 -1,464 114 383 1,263 745 209 35 426 -348 241 -721 -28	20,017 20,375 19,708 19,830 19,344 19,793 20,094 20,586 19,933 20,182 19,873 20,679 20,034	1,504 1,460 1,474 1,496 1,533 1,560 1,570 1,572 1,598 1,602 1,598 1,568 1,568
2004 January February March April May June July August September October November 11-Month Average	E 7,853 E 7,798 E 7,892 E 7,766 E 7,841 E 7,577 E 7,630 E 7,591 RE 7,324 E 7,373 E 7,685 E 7,667	E 5,644 E 5,584 E 5,622 E 5,568 E 5,612 E 5,403 E 5,404 E 5,280 RE 5,091 E 5,112 PE 5,387 PE 5,428	1,803 1,798 1,829 1,784 1,795 1,737 1,810 1,859 1,797 R 1,822 E 1,844 E 1,807	199 380 720 379 186 130 -186 -381 -151 # 450 E 188 E 173	-692 -549 -91 -111 646 831 782 695 -307 R-576 E 293 E 86	20,393 20,549 20,161 20,207 20,209 20,333 20,601 20,732 20,411 P 20,743 E 20,600 E 20,449	1,552 1,547 1,566 1,574 1,600 1,629 1,647 1,657 1,643 F1,639 E1,649
2003 11-Month Average 2002 11-Month Average	7,833 8,058	5,690 5,750	1,719 1,891	114 65	36 -89	19,974 19,744	1,598 1,578

 $^{^{\}rm a}$ A negative number indicates a decrease in stocks and a positive number indicates an increase. Distillate stocks in the "Northeast Heating

gasoline and oxygenate production from merchant MTBE (methyl tertiary butyl ether) plants.

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

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

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

Sources: • 1973-1991: Energy Information Administration (EIA), Petroleum Supply Annual 1992, Volume 1, May 1993, Table S1. • 1992 forward: EIA, Petroleum Supply Monthly, December 2004, Table S1.

number indicates an increase. Distillate stocks in the "Northeast Heating Oil Reserve" are not included.

^b Stocks are at end of period. Distillate stocks in the "Northeast Heating Oil Reserve" are not included.

^c Includes crude oil, natural gas plant liquids, and other liquids.

^d Includes stocks located in the Strategic Petroleum Reserve.

^e See Note 4 at end of section.

^f See Note 6 at end of section.

^g Recipiona in 1003 includes fuel othered blended into finished mater.

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

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		
3 Average	6,256	3,244	3,012	231	2	229	6,025
4 Average	6,112	3,477	2,635	221	3	218	5,892
5 Average	6,056	4,105	1,951	209	6	204	5,846
6 Average	7,313	5,287	2,026	223	8	215	7,090
7 Average	8,807	6,615	2,193	243	50	193	8,565
8 Average	8,363	6,356	2,008	362	158	204	8,002
9 Average	8,456	6,519	1,937	° 471	235	c 236	c 7,985
0 Average	6,909	5,263	1,646	544	287	258	6,365
1 Average	5,996	4,396	1,599	595	228	367	5,401
2 Average	5,113	3,488	1,625	815	236	579	4,298
3 Average	5,051	3,329	1,722	739	164	575	4,312
4 Average	5,437	3,426	2,011	722	181	541	4,715
5 Average	5,067	3,201	1,866	781	204	577	4,286
6 Average	6,224	4,178	2,045	785	154	631	5,439
7 Average	6,678	4,674	2,004	764	151	613	5,914
8 Average	7,402	5,107	2,295	815	155	661	6,587
9 Average	8,061	5,843	2,217	859	142	717	7,202
0 Average	8,018	5,894	2,123	857	109	748	7,161
Average	7,627	5,782	1,844	1,001	116	885	6,626
2 Average	7,888	6,083	1,805	950	89	861	6,938
3 Average	8,620	6,787	1,833	1,003	98	904	7,618
4 Average	8,996	7,063	1,933	942	99	843	8,054
5 Average	8,835	7,230	1,605	949	95	855	7,886
6 Average	9,478	7,508	1,971	981	110	871	8,498
7 Average	10,162	8,225	1,936	1,003	108	896	9,158
	10,708	8,706	2,002	945	110	835	9,764
Average	10,700	8,731	2,122	940	118	822	9,912
9 Average D Average	11,459	9,071	2,122	1,040	50	990	10,419
				971	20	951	
Average	11,871	9,328	2,543	9/1	20	931	10,900
lanuary	11,088	8,709	2,380	861	11	850	10,228
2 January February	10,904	8,753	2,151	1,175	4	1,170	9,729
		8,799			8		
March	11,198		2,399	853		845	10,345
April	11,765	9,301	2,464	890	8	882	10,876
May	11,769	9,323	2,446	910	7	903	10,859
June	11,753	9,324	2,429	880	5	874	10,873
July	11,624	9,184	2,440	839	33	806	10,785
August	11,890	9,544	2,346	1,138	9	1,129	10,752
September	11,075	8,797	2,278	1,015	7	1,008	10,059
October	11,893	9,532	2,361	962	4	958	10,931
November	12,268	9,654	2,613	1,026	10	1,016	11,242
December	11,100	8,741	2,359	1,272	2	1,270	9,828
Average	11,530	9,140	2,390	984	9	975	10,546
						4 000	
January	11,104	8,633	2,471	1,212	10	1,202	9,892
February	10,921	8,474	2,447	1,067	5	1,062	9,854
March	12,044	9,226	2,819	1,051	10	1,042	10,993
April	12,599	9,928	2,671	1,053	12	1,041	11,546
May	12,918	10,153	2,765	1,097	15	1,082	11,822
June	13,001	10,038	2,962	1,065	45	1,020	11,936
July	12,736	10,034	2,702	976	7	969	11,760
August	12,769	10,023	2,746	947	4	943	11,822
September	12,868	10,287	2,581	960	3	956	11,908
October	12,373	10,063	2,310	970	14	956	11,402
November	11,712	9,351	2,361	933	21	911	10,780
December	12,033	9,684	2,349	990	4	986	11,043
Average	12,264	9,665	2,599	1,027	12	1,014	11,238
-		•		•		•	,
January	11,727	9,322	2,405	748	6	742	10,979
February	12,329	9,258	3,071	1,046	8	1,038	11,283
March	13,073	10,073	3,000	1,024	19	1,005	12,048
April	12,450	10,062	2,389	1,153	55	1,099	11,297
May	12,989	10,324	2,665	1,052	26	1,026	11,937
June	13,301	10,505	2,796	1,070	45	1,025	12,231
July	13,389	10,302	3,087	1,080	18	1,062	12,310
August	13,489	10,447	3,042	1,091	13	1,002	12,310
September	12,532	9,669	2,863	961	35	926	11,571
	R 13,323	^R 10,328	2,003 R 2,995	R 1,078	R 25	R 1,052	R 12,245
October	E 13,274	E 10.321	E 2,953		E 12		E 12,301
November				E 972		E 960	
11-Month Average	E 12,901	^E 10,059	E 2,842	E 1,025	E 24	E 1,001	E 11,877
11 Month Avers	10.000	0.000	0.600	1 000	40	1 017	14 050
11-Month Average	12,286	9,663	2,623	1,030	13	1,017	11,256
2 11-Month Average	11,570	9,177	2,393	957	10	947	10,613

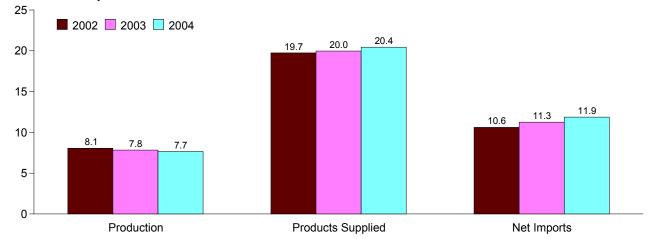
a Includes crude oil for storage in the Strategic Petroleum Reserve.
 b Net imports equals imports minus exports.
 c See Note 6 at end of section.
 R=Revised. E=Estimate.
 Notes: • Crude oil includes lease condensate. • Totals may not equal sum of components due to independent rounding. • Geographic coverage is the

⁵⁰ States and the District of Columbia.

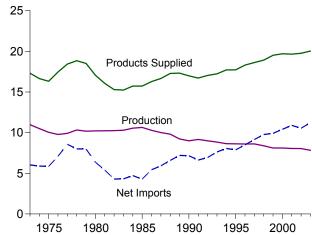
Web Page: http://www.eia.doe.gov/emeu/mer/petro.html.
Sources: • 1973-1991: Energy Information Administration (EIA),
Petroleum Supply Annual 1992, Volume 1, May 1993, Table S1. • 1992
forward: EIA, Petroleum Supply Monthly, December 2004, Table S1.

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

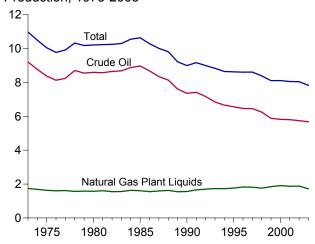




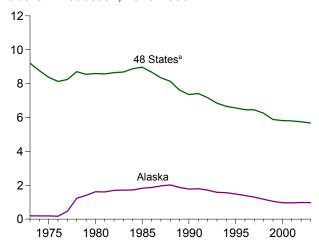
Overview, 1973-2003



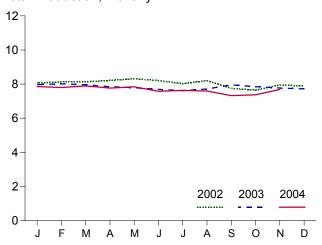
Production, 1973-2003



Crude Oil Production, 1973-2003



Total Production, Monthly

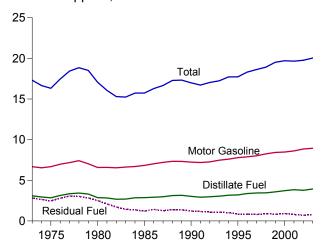


^aUnited States excluding Alaska and Hawaii. Note: Because vertical scales differ, graphs should not be compared. Web Page: http://www.eia.doe.gov/emeu/mer/petro.html. Sources: Tables 3.1a, 3.1b, and 3.2a.

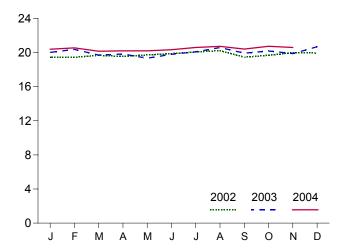
Figure 3.1b Petroleum Products Supplied, Imports, and Stocks

(Million Barrels per Day, Except as Noted)

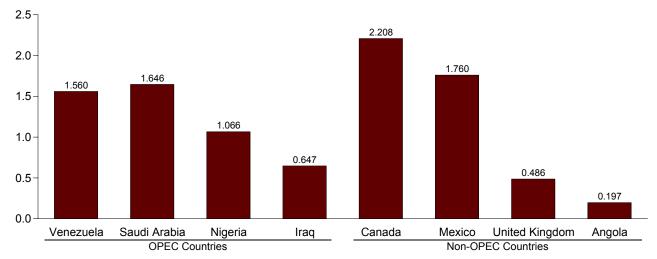
Products Supplied, 1973-2003



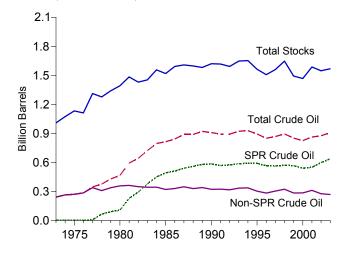
Products Supplied, Monthly



Imports from Selected Countries, October 2004

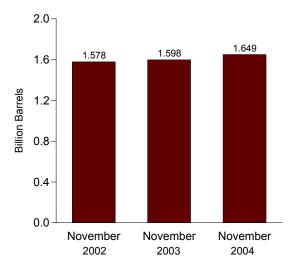


Stocks, End of Year, 1973-2003



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

Total Stocks, End of Month



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

Table 3.2a Crude Oil Supply and Disposition: Supply

				Supply			
	Field Pro	oduction		Imports			0
	Total Domestic	Alaskan	Total	SPRa	Other	Unaccounted- for Crude Oil ^b	Crude Oi Used Directly ^o
			Tho	usand Barrels per	Day		
73 Average	9,208	198	3,244	_	3,244	3	-19
74 Average	8,774	193	3,477	_	3,477	-25	-15
75 Average	8,375	191	4,105	-	4,105	17	-17 d -19
76 Average	8,132	173	5,287	_	5,287	77	
77 Average	8,245	464	6,615	21	6,594	<u>-6</u>	-14
8 Average	8,707	1,229	6,356	d 161	6,195	-57	^d -15 ^d -14
9 Average	8,552	1,401	6,519	67	6,452	-11	d -14
O Average	8,597	1,617	5,263	44	5,219	34	
1 Average	8,572	1,609	4,396	256	4,141	83	-58
2 Average	8,649	1,696	3,488	165	3,323	71	-59
3 Average	8,688	1,714	3,329	234	3,096	114	_
4 Average	8,879	1,722	3,426	197	3,229	185	_
5 Average	8,971	1,825	3,201	118	3,083	145	_
6 Average	8,680	1,867	4,178	48	4,130	139	_
7 Average	8,349	1,962	4,674	73	4,601	145	_
8 Average	8,140	2,017	5,107	51	5,055	196	_
9 Average	7,613	1,874	5,843	56	5,787	200	-
0 Average	7,355	1,773	5,894	27	5,867	258	_
1 Average	7,417	1,798	5,782	0	5,782	195	_
2 Average	7,171	1,714	6,083	10	6,073	258	_
3 Average	6,847	1,582	6,787	15	6,772	168	_
4 Average	6,662	1,559	7,063	12	7,051	266	_
5 Average	6,560	1,484	7,230	0	7,230	193	_
6 Average	6,465	1,393	7,508	0	7,508	215	_
7 Average	6,452	1,296	8,225	0	8,225	145	_
8 Average	6,252	1,175	8,706	0	8,706	115	_
9 Average	5,881	1,050	8,731	8	8,722	191	_
0 Average	5,822	970	9.071	8	9.062	155	_
1 Average	5,801	963	9,328	11	9,318	117	_
J	•		,		,		
2 January	5,848	1,036	8,709	33	8,675	351	_
February	5,871	1,031	8,753	59	8,694	129	_
March	5.883	1,036	8,799	0	8,799	99	_
April	5,859	1,009	9,301	0	9,301	53	_
May	5,924	1,002	9,323	16	9,307	283	_
June	5,915	1,019	9,324	17	9,307	21	_
July	5,770	931	9,184	0	9,184	146	_
August	5,811	965	9,544	0	9,544	-148	_
September	5,411	886	8,797	0	8,797	-27	_
October	5,363	983	9,532	Ö	9,532	161	_
November	5,597	908	9,654	34	9,620	10	_
December	5,699	1.010	8,741	34	8,707	228	_
Average	5,746	984	9,140	16	9,124	110	_
Attituge	0,7 40	001	0,140		0,124	1.10	
3 January	5,785	984	8,633	0	8,633	-180	_
February	5,791	1,015	8,474	Ö	8,474	15	_
March	5,817	1,022	9,226	Ö	9,226	239	_
April	5,774	971	9,928	Ō	9,928	223	_
May	5,733	990	10,153	Ŏ	10,153	-36	_
June	5,701	991	10,038	Ŏ	10,038	76	_
July	5,526	927	10,034	Ŏ	10,034	128	_
August	5,595	945	10,023	Ŏ	10,023	94	_
September	5,683	964	10,287	Ŏ	10,287	-80	_
October	5,635	967	10,063	ŏ	10,063	126	_
November	5,560	963	9,351	ŏ	9,351	209	_
December	5,579	956	9,684	Ŏ	9,684	-159	_
Average	5,681	974	9,665	ŏ	9,665	54	_
4 January	^E 5,644	<u> </u>	9,322	0	9,322	55	_
February	E 5,584	E 933	9,258	0	9,258	256	_
March	E 5,622	<u> </u>	10,073	0	10,073	-154	_
April	E 5.568	E 950	10,062	0	10,062	350	_
May	E 5,612	E 942	10,324	0	10,324	237	_
June	¹ 5,403	E 919	10,505	Ö	10,505	510	_
July	E 5,404	E 811	10,302	Ō	10,302	266	_
August	E 5,280	E 701	10,447	Ŏ	10,447	47	_
September	E 5.091	E 869	9,669	ŏ	9,669	103	_
October	RE 5,112	RE 935	R 10,328	0	R 10,328	R-11	_
November	E 5,387	E 959	E 10,321	ΕÖ	E 10,321	E 75	_
11-Month Average	PE 5,428	PE 906	E 10,059	= 0	E 10,059	= 75 € 156	_
	-,		,		,		
3 11-Month Average	5,690	976	9,663	0	9,663	74	_
2 11-Month Average	5,750	982	9,177	14	9,163	99	

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

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

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

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

			Disp	osition				Stocksa	
	Crude	Stock C	_	Refinery	F	Product	Takal	CDDC	Other
	Losses	SPR ^c	Other Thousand F	Inputs Barrels per Day	Exports	Suppliedd	Total	SPR ^c Million Barrels	Primary
				5a 6.6 po. 5a,					
73 Average	13	_	-11	12,431	2	_	242	_	242
74 Average	13 13	_	62 17	12,133	3 6	_	265 271	_	265 271
75 Average	e 14	_	39	12,442 13,416	8	Ξ	285	_	285
76 Average77 Average	16	20	150	14,602	50	_	348	7	340
78 Average	16	163	-84	14,739	158	_	376	67	309
79 Average	16	67	81	14,648	235	_	430	91	339
80 Average	e 14	45	52	13,481	287	_	f 466	108	f 358
31 Average	5	336	^f -46	12,470	228	_	594	230	363
2 Average	3	174	-38	11,774	236	_	9 644	294	9 350
3 Average	2	234	9 -20	11,685	164	66	723	379	344
4 Average	2	195	4	12,044	181	64	796	451	345
5 Average	.1	117	-67	12,002	204	60	814	493	321
6 Average	(s)	50	28	12,716	154	49	843	512	331
7 Average	(s)	80 53	49 51	12,854	151	34	890	541	349
8 Average 9 Average	(s) (s)	52 56	-51 30	13,246 13,401	155 142	40 28	890 921	560 580	330 341
Average		16	-51	13,409	109	26 24	908	586	323
1 Average	(s) (s)	-47	-51	13,301	116	18	893	569	325
2 Average	(s)	17	-18	13,411	89	13	893	575	318
3 Average	(s)	34	47	13,613	98	10	922	587	335
4 Average	(s)	13	5	13,866	99	9	929	592	337
5 Average	(s)	(s)	-93	13,973	95	7	895	592	303
6 Average	(s)	-71	-53	14,195	110	6	850	566	284
7 Average	,0	-7	57	14,662	108	2	868	563	305
Average	(s)	22	52	14,889	110	0	895	571	324
9 Average	(s)	-11	-107	14,804	118	0	852	567	284
0 Average1 Average	0 0	-73 26	3 73	15,067 15,128	50 20	0 0	826 862	541 550	286 312
12 January	0	141	268	14.487	11	0	875	555	320
February	Ŏ	191	252	14,306	4	ŏ	887	560	327
March	0	50	198	14,526	8	0	895	561	334
April	0	175	-295	15,325	8	0	891	567	325
May	0	146	77	15,301	7	0	898	571	327
June	0	173	-316	15,397	5	0	894	576	318
July	0	67	-428	15,430	33	0	883	579	304
August	0	121	-260	15,338	9	0	878	582	296
September	0	1 <u>66</u>	-852	14,861	7	0	858	587	271
October	0	77	672	14,303	4	0	881	590 506	291
November	0 0	209 103	-113 -337	15,155 14,900	10 2	0	884 877	596 599	288 278
Average	ŏ	134	-337 -94	14,900 14,947	9	Ŏ	877	599 599	278
Average	Ū	134	-34	14,341	9	Ū	077	333	210
3 January	0	5	-115	14,338	10	0	873	599	274
February	0	0	-106	14,381	.5	0	870	599	271
March	0	0	339	14,933	10	0	881	599	282
April	0	11	326	15,575	12 15	0	891	600	291
May June	0 0	114 181	-189 -31	15,910 15,620	15 45	0	889 893	603 609	286 285
July	Ö	125	-31 11	15,620	45 7	0	893 897	612	285 285
August	ő	190	-175	15,693	4	0	898	618	279
September	ő	202	239	15,446	3	ŏ	911	624	287
October	ŏ	210	258	15,342	14	ŏ	926	631	295
November	0	91	-447	15,455	21	0	915	634	281
December	0	154	-398	15,345	4	0	907	638	269
Average	0	108	-24	15,304	12	0	907	638	269
1 January	0	89	110	14,816	6	0	913	641	271
February	Ŏ	197	183	14,711	8	Ō	924	647	277
March	0	170	550	14,802	19	0	946	652	294
April	0	202	177	15,546	55	0	957	658	299
May	0	101	85	15,962	26	0	963	661	302
June	0	35	95	16,244	45	0	967	662	304
July	0	106	-292	16,140	18	0	961	666	295
August	0	108	-488	16,142	13	0	949	669	280
September	0	42 R 2	-194 B 440	14,980 B 14,054	35 B 05	0	945 B 050	670	274 B 200
October	0 E 0	E 79	R 448	R 14,954	R 25 E 12	E 0	^R 959 ^E 966	670 E 670	R 288 E 294
November 11-Month Average	E 0	E 102	E 109 E 71	E 15,582 E 15,446	E 24	E 0	E 966	E 672 E 672	E 294
3 11-Month Average	0	103	11	15,300	13	0	915	634	281
	U								

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

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

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

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

^g See Note: 6 stood of section

See Note 6 at end of section.
 Stocks of Alaskan crude oil in transit are included from January 1981 forward. See Note 5 at end of section.

^g See Note 4 at end of section.

⁹ See Note 4 at end of section.
R=Revised. — =Not applicable. E=Estimate. (s)=Less than +500 barrels per day and greater than -500 barrels per day.
Notes: • Crude oil includes lease condensate. • Totals may not equal sum of components due to independent rounding. • Geographic coverage is the 50 States and the District of Columbia.
Web Page: http://www.eia.doe.gov/emeu/mer/petro.html.
Sources: • 1973-1991: Energy Information Administration (EIA), Petroleum Supply Annual 1992, Volume 1, May 1993, Table S2. • 1992 forward: EIA, Petroleum Supply Monthly, December 2004, Table S2.

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

				Persiar	n Gulf ^a			
	Bai	hrain	I	ran	lr	raq	Ku	wait ^b
	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 16	0 0	469 280	463 278	0 2	0 2	5 16	5 4
1975 Average1976 Average	3	Ö	298	298	26	26	5	1
1977 Average	10	ŏ	535	530	74	74	48	42
1978 Average	3	0	555	554	62	62	6	5
1979 Average	, 1	0	304	297	88	88	.8	.5
1980 Average	(s)	0	9 0	8 0	28	28 0	27 0	27 0
1981 Average1982 Average	i	0	35	35	(s) 3	3	5	2
1983 Average	ż	ŏ	48	48	10	10	14	7
1984 Average	1	Ö	10	10	12	12	36	24
1985 Average	4	0	27	27	46	46	21	4
1986 Average	2	0	19	19	81	81	68	28
1987 Average1988 Average	0 2	0 0	98 ^c (s)	98 ° (s)	83 345	82 343	84 92	70 80
1989 Average	ō	Ŏ	0	(3)	449	441	157	155
1990 Average	1	Ō	Ö	Ŏ	518	514	86	79
1991 Average	2	0	32	32	0	0	_6	6
1992 Average	0 1	0	0	0	0	0	51 252	39
1993 Average1994 Average	i	0	0 0	0	Ö	Ö	353 312	344 307
1995 Average	i	Ŏ	ŏ	ŏ	ŏ	ŏ	218	213
1996 Average	1	0	0	0	1	1	236	235
1997 Average	9	0	0	0	89	89	253	253
1998 Average	1 0	0 0	0 0	0	336 725	336 725	301 248	300 246
2000 Average	1	Ŏ	ŏ	ŏ	620	620	272	263
2001 Average	(s)	0	Ō	0	795	795	250	237
2002 January	0	0	0	0	988	988	213	207
February	0	0	0	0	709	709	290	279
March	0	0	0	0	813	813	184	179
April May	0	0	0 0	0 0	619 482	619 482	208 182	201 163
June	0	0	ő	0	167	167	265	244
July	Ö	Ō	Ö	Ö	301	301	244	238
August	0	0	0	0	246	246	178	169
September October	0	0 0	0 0	0	148 248	148 248	297 199	286 182
November	0	0	0	0	403	403	291	264
December	Ö	Ö	Ŏ	Ö	394	394	193	190
Average	0	0	0	0	459	459	228	216
2003 January	4	0	0	0	634	634	166	134
February	11	0	0	0	963	963	241	223
March April	0	0	0 0	0	681 739	681 739	251 301	220 294
May	ŏ	Ŏ	ŏ	ő	128	128	217	200
June	0	0	0	0	0	0	292	274
July	0	0	0	0	67	67	169	169
August September	0	0 0	0	0	125 362	125 362	189 250	183 248
October	0	0	0	0	735	735	168	168
November	Ö	Ō	Ö	Ö	706	706	182	176
December	0	0	0	0	678	678	217	211
Average	1	0	0	0	481	481	220	208
2004 January	0	0	0	0	578	578	244	238
February	0	0	0	0	646 621	646 621	92 220	80 214
March April	0	0	0	0	769	755	328	322
May	7	ŏ	ŏ	ŏ	674	674	278	273
June	0	0	Ō	Ō	636	636	224	224
July	0	0	0	0	593	593	277	268
August September	13 0	0	0 0	0	816 623	816 623	197 365	191 327
October	13	ŏ	ŏ	ŏ	647	647	229	229
10-Month Average	3	Ŏ	Ŏ	Ŏ	660	659	246	237
2003 10-Month Average	2	0	0	0	439	439	224	211
2002 10-Month Average	0	0	0	0	471	471	225	214

^a The country of origin for petroleum products may not be the country of origin for the crude oil from which the products were produced. For example, refined products imported from West European refining areas may have been produced from Middle East crude oil.

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

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

⁽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

are included. • 0.3. geographic coverage is also so class.

Columbia.

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

Sources: • Bahrain: Energy Information Administration (EIA), Form EIA-814, "Monthly Imports Report." • All Other Data: 1973-1991—EIA, Petroleum Supply Annual 1992, Volume 1, May, 1993, Table S3. 1992 forward—EIA, Petroleum Supply Monthly, December 2004, Table S3.

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

				Persia	n Gulf ^a			
	Qa	atar	Saudi	Arabia ^b	United Ara	b Emirates	To	otal ^a
	Total	Crude Oil	Total	Crude Oil	Total	Crude Oil	Total	Crude Oil
1973 Average	7 17 18 24 67 64 31 22 7 7 (s) 5 (s) 13 0 0 2 4 0 1 1 0 0 0 4 4 10 9 10 10 10 10 10 10 10 10 10 10 10 10 10	7 17 18 24 67 64 31 22 7 7 0 4 0 12 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	486 461 715 1,230 1,380 1,144 1,356 1,261 1,129 552 337 325 168 685 751 1,073 1,224 1,339 1,802 1,720 1,414 1,402 1,344 1,343 1,407 1,491 1,478 1,572 1,662	462 438 701 1,222 1,373 1,142 1,347 1,250 1,112 530 321 309 132 618 642 911 1,116 1,195 1,703 1,597 1,282 1,297 1,282 1,297 1,260 1,248 1,293 1,404 1,387 1,523 1,611	71 74 117 254 335 385 281 172 81 92 30 117 45 44 61 29 28 17 3 6 14 13 10 3 2 3 3	71 69 117 254 333 385 281 172 77 81 18 90 35 38 56 23 21 9 2 0 12 11 5 3 0 3 3 2 11	848 1,039 1,165 1,840 2,448 2,219 2,069 1,519 1,219 696 442 506 311 912 1,077 1,541 1,861 1,966 1,845 1,778 1,782 1,728 1,573 1,604 1,755 2,136 2,464 2,488 2,761	802 992 1,121 1,825 2,418 2,212 2,049 1,508 1,508 405 405 450 244 796 949 1,357 1,734 1,635 1,637 1,615 1,479 1,488 1,635 2,044 2,360 2,409 2,664
2002 January February March April May June July August September October November December Average	9 11 0 0 10 10 44 9 44 40 0	0 0 0 0 0 35 0 37 32 0	1,456 1,474 1,558 1,556 1,564 1,598 1,392 1,444 1,531 1,690 1,511 1,843 1,552	1,430 1,445 1,526 1,538 1,520 1,565 1,354 1,411 1,512 1,633 1,474 1,815	5 0 0 16 0 51 18 25 31 0 17 18 15	0 0 16 0 51 0 17 0 17	2,670 2,484 2,556 2,400 2,238 2,090 1,999 1,903 2,052 2,177 2,222 2,449 2,269	2,625 2,434 2,517 2,375 2,165 2,026 1,928 1,826 2,000 2,096 2,158 2,415 2,213
2003 January February March April May June July August September October November December Average	0 0 0 9 0 14 0 3 0 0 8 3	0 0 0 0 0 0 0 0	1,841 1,447 1,886 2,070 2,305 2,002 1,900 1,535 1,749 1,451 1,681 1,410	1,803 1,407 1,838 2,024 2,244 1,921 1,835 1,475 1,692 1,388 1,664 1,399 1,726	90 13 0 39 9 33 19 0 33 0 17 0 21	34 0 0 19 0 17 0 33 0 17 0	2,735 2,676 2,818 3,148 2,669 2,327 2,170 1,849 2,397 2,353 2,586 2,312 2,501	2,605 2,593 2,739 3,075 2,572 2,212 2,072 1,783 2,335 2,291 2,564 2,288 2,425
2004 January February March April May June July August September October 10-Month Average	0 0 0 5 0 0 0 0 17 0 2	0 0 0 5 0 0 0 0 0 (s)	1,477 1,360 1,531 1,175 1,519 1,493 1,655 1,865 1,732 1,646 1,547	1,432 1,295 1,478 1,161 1,493 1,450 1,622 1,755 1,567 1,581 1,485	0 0 1 45 0 18 13 53 27 27 18	0 0 29 0 0 0 33 0 0 6	2,300 2,098 2,373 2,322 2,478 2,370 2,538 2,943 2,764 2,562 2,477 2,511	2,248 2,021 2,312 2,271 2,439 2,310 2,483 2,793 2,517 2,458 2,388
2002 10-Month Average	18	11	1,526	1,493	15	8	2,255	2,197

a The country of origin for petroleum products may not be the country of origin for the crude oil from which the products were produced. For example, refined products imported from West European refining areas may have been produced from Middle East crude oil.

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

(s)=Less than 500 barrels per day.

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

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

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

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

_					Otner	OPECa				
	Al	geria	Ecu	ıador ^b	Ga	bon ^c	Indo	nesia	Li	bya
	Total	Crude Oil	Total	Crude Oil	Total	Crude Oil	Total	Crude Oil	Total	Crude Oil
1973 Average	136	120	48	47	0	0	213	200	164	133
1974 Average	190	180	42	42 57	23	23	300	284	4	4
1975 Average1976 Average	282 432	264 408	57 51	57 51	27 28	27 26	390 539	379 537	232 453	223 444
1977 Average	559	544	57	55	42	35	541	507	723	704
1978 Average	649	634	54	38	41	38	573	533	654	638
1979 Average	636	608	42	30	42	42	420	380	658	642
1980 Average	488	456	27	17	26	25	348	314	554	548
1981 Average	311	261	48	38	35	35	366	318	319	317
1982 Average1983 Average	170 240	90 176	42 61	32 56	40 59	40 59	248 338	226 315	26 0	23 0
1984 Average	323	194	55	47	58	57	343	304	ĭ	ŏ
1985 Average	187	84	67	56	52	51	314	292	4	ŏ
1986 Average	271	78	77	64	26	25	318	297	0	Ō
1987 Average	295	115	29	23	35	35	285	262	0	0
1988 Average	300	58	47	33	16	15	205	186	0	0
1989 Average	269	60	89	80	50	49 64	183	158	0	0
1990 Average	280 253	63 44	49 63	38 53	64 84	84	114 111	98 102	0	0
1991 Average1992 Average	196	24	65	62	124	123	78	70	ő	Ö
1993 Average	220	24	(b)	(b)	152	151	81	65	ŏ	ŏ
1994 Average	243	21	(b)	(b)	194	194	111	92	Ŏ	Ŏ
1995 Average	234	27	(b)	(b)	(°)	(°)	88	64	0	0
1996 Average	256	8	(b)	(b)	(°)	(°)	59	44	0	0
1997 Average	285	6	(b)	(b)	(°)	(°)	58	51	0	0
1998 Average1999 Average	290 259	10 25	{ b {	} b {	\c\c\c\	{ c }	66 81	50 70	0 0	0
2000 Average	225	1	\b\	} b {	\c\	\c\	48	36	ő	Ö
2001 Average	278	11	(b)	(b)	(°)	(°)	51	40	ŏ	Ŏ
_						, ,				
2002 January	265	0	(b)	(b)	(c)	(c)	80	67	0	0
February	248	_0	(b)	(b)	(c)	(c)	104	84	0	0
March April	347 366	75 77	(b)	\b\	(°)	\ c \	63 60	63 58	0 0	0
May	343	53	} b {	} b {	\c\	\ c \	76	76	0	0
June	293	19	\b \	} b {			57	57	ŏ	ŏ
July	160	0	(b)	(b)	(°)	(°)	15	14	0	0
August	183	0	(b)	(b)	(c)	(°)	34	34	0	0
September	249	32	(b)	(b)	(°)	(°)	49	49	0	0
October	239	40	(b)	(b)	(c)	(c)	68	66	0	0
November	226 245	21 40	(b)	(b)	(c)	(c)	13 21	13 21	0	0
December Average	245 264	30	(b)	{ b }	(°)	(°)	53	∠ 1 50	0	0
Average	204	30	(')	(')	()	(')	33	30	U	U
2003 January	291	39	(b)	(b)	(c)	(c)	25	25	0	0
February	213	0	(b)	(b)	(c)	(°)	15	15	0	0
March	304	40	(b)	{ b }	(c ((c)	10	10	0	0
April May	395 377	77 81	(b)	(b)	(c)	(°)	46 10	43 10	0 0	0 0
June	700	282	} b {	} b {	\c\	\c\	11	11	0	0
July	444	86	(b)	\b \	(c /	\c \	0	Ö	Ő	ő
August	459	192	(b)	(b)	(c)	(c)	66	39	0	ŏ
September	479	243	(b)	(b)	(c)	(c)	35	8	0	0
October	244	86	(b)	(b)	(c)	(c)	133	92	0	0
November	371 301	151 69	(b)	(b)	(c)	(c)	71 23	44 15	0	0
December Average	382	112	{b}	{b}	{c}	{c}	23 37	26	0	Ŏ
71101 ug 0			. ,	. ,	()	()	٠.		•	•
2004 January	345	123	(b)	(b)	(c)	(c)	17	14	0	0
February	378	92	(b)	(b)	(c)	(c)	47	44	0	0
March	496	253 261	(b)	{ b }	(c)	\ c \	36 74	32 74	0	0
April May	380 477	261 234	(b)	\b\	(c)	(c)	74 39	74 39	0 0	0
June	464	216	\b\	\b \	\ c \	\ c \	72	51	34	34
July	576	297	(b)	\b \	}c{	\c \	104	72	32	32
August	536	352	(b)	(b)	(c ((c (45	9	34	34
September	385	187	(b)	(b)	(c)	(°)	41	41	33	33
October	299	114	(b)	(b)	(°)	(°)	27	10	66	66
10-Month Average	434	214	(b)	(b)	(°)	(°)	50	38	20	20
2003 10-Month Average	391	113	(b)	(b)	(°)	(°)	35	26	0	0
2002 10-Month Average	269	4.10	· · /							

a The country of origin for petroleum products may not be the country of origin for the crude oil from which the products were produced. For example, refined products imported from West European refining areas may have been produced from Middle East crude oil.

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

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

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

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

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

			Other	OPECa			Total	OPEC ^b
	Ni	geria	Ven	ezuela	To	otal		
	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
978 Average	919 1,080	910 1,069	646 690	181 293	3,536 3,569	2,972 3,063	5,751 5,637	5,184 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
983 Average	302	301	422	164	1,422	1,072	1,862	1,477
984 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
986 Average	440	437	793	416	1,926	1,317	2,837	2,113
987 Average	535	529	804	488	1,983	1,451	3,060	2,400
988 Average	618	607	794	439	1,981	1,339	3,520	2,696
989 Average	815	800	873	495	2,279	1,642	4,140	3,376
1990 Average	800 703	784 692	1,025	666	2,332	1,713	4,296	3,514
991 Average	703 681	683 665	1,035 1,170	668 826	2,249 2,313	1,634 1,770	4,092 4,092	3,377 3,406
992 Average	740	722	1,300	1,010	2,313	1,770	4,273	3,609
1994 Average	637	624	1,334	1,034	2,520	1,965	4,247	3,580
1995 Average	627	621	1,480	1,151	2,430	1,862	4,002	3,341
1996 Average	617	595	1,676	1,303	2,609	1,950	4,211	3,438
1997 Average	698	689	1,773	1,394	2,814	2,140	4,569	3,775
1998 Average	696	689	1,719	1,377	2,771	2,125	4,905	4,169
1999 Average	657	623	1,493	1,150	2,489	1,869	4,953	4,228
2000 Average	896	875	1,546	1,223	2,716	2,135	5,203	4,544
2001 Average	885	842	1,553	1,291	2,768	2,184	5,528	4,848
2002 January	565	540	1,450	1,233	2,359	1,839	5,029	4,465
February	453	426 590	1,444	1,222	2,249	1,732	4,733	4,165
March April	621 645	584	1,404 1,134	1,148 1,014	2,435 2,206	1,877 1,734	4,991 4,606	4,394 4,108
May	591	576	1,312	1,117	2,323	1,822	4,561	3,987
June	728	702	1,188	958	2,266	1,737	4,356	3,763
July	607	585	1,585	1,341	2,367	1,940	4,366	3,868
August	820	792	1,699	1,514	2,735	2,341	4,638	4,167
September	547	489	1,556	1,302	2,401	1,871	4,452	3,871
October	597	566	1,605	1,453	2,509	2,125	4,686	4,221
November	596	562	1,625	1,453	2,459	2,048	4,682	4,206
December	670	645	778	652	1,715	1,358	4,164	3,774
Average	621	589	1,398	1,201	2,336	1,870	4,605	4,083
2003 January	831	804	426	399	1,573	1,267	4,303	3,873
February	547	505	613	559	1,388	1,079	4,052	3,672
March	1,002	945 697	1,297	1,149	2,614	2,144	5,433 5,040	4,883 5,270
April May	733 958	907	1,626 1,737	1,387 1,491	2,801 3,082	2,204 2,488	5,949 5,751	5,279 5,060
May June	866	836	1,622	1,381	3,199	2,466 2,510	5,751	4,722
July	843	804	1,279	1,150	2,566	2,040	4,736	4,112
August	995	988	1,564	1,345	3,085	2,564	4,934	4,347
September	936	905	1,547	1,307	2,997	2,463	5,394	4,798
October	1,049	990	1,564	1,295	2,989	2,463	5,342	4,754
November	646	622	1,562	1,352	2,651	2,170	5,237	4,733
December	959	938	1,631	1,340	2,913	2,362	5,225	4,650
Average	867	832	1,376	1,183	2,662	2,153	5,162	4,578
2004 <u>J</u> aṇuary	982	923	1,535	1,298	2,879	2,359	5,179	4,607
February	1,163	1,044	1,529	1,294	3,117	2,473	5,215	4,494
March	1,300	1,236	1,563	1,343	3,396	2,864	5,769	5,177
April	1,073	1,044	1,539	1,372	3,066	2,751	5,388 5,753	5,022
May	1,197	1,127	1,569 1,687	1,371 1,439	3,281 3,495	2,770	5,753 5,865	5,210 5,241
June July	1,238 1,102	1,191 1,020	1,687	1,439 1,228	3,495 3,249	2,931 2,650	5,865 5,786	5,241 5,132
August	1,102	1,020	1,435	1,228	3,249 3,295	2,650 2,757	5,786 6,225	5,132 5,550
September	1,076	1,012	1,281	1,070	2,816	2,757	5,580	4,860
October	1,066	1,029	1,560	1,330	3,017	2,548	5,567	5,006
10-Month Average	1,143	1,080	1,514	1,294	3,162	2,646	5,636	5,033
2003 10-Month Average 2002 10-Month Average	880 619	842 586	1,332 1,439	1,150 1,232	2,638 2,387	2,130 1,905	5,148 4,643	4,555 4,102

a The country of origin for petroleum products may not be the country of origin for the crude oil from which the products were produced. For example, refined products imported from West European refining areas may have been produced from Middle East crude oil.

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

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

Notes: • Beginning in November 1977, Strategic Petroleum Reserve imports are included.
• Totals may not equal sum of components due to independent rounding.
• U.S. geographic coverage is the 50 States and the

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

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

	Aı	ngola	Au	stralia	Ва	hamas	В	razil	Ca	anada	C	hina
	Total	Crude Oil	Total	Crude Oil	Total	Crude Oil	Total	Crude Oil	Total	Crude Oil	Total	Crude Oil
973 Average	49	49	2	o	174	0	9	Q	1,325	1,001	(s)	0
974 Average	49	48	1	0	164	0	2	0	1,070	791	0	0
975 Average	75	71	5	0 0	152	0 0	5	0	846	600	0	0
976 Average 977 Average	12 24	7 17	2 3	ŏ	118 171	Ö	0	0	599 517	371 279	0	0
978 Average	20	6	5	ŏ	160	ŏ	ŏ	ŏ	467	248	ŏ	ŏ
979 Average	43	39	6	Ŏ	147	ŏ	Ĭ	ŏ	538	271	13	13
980 Average	42	37	1	Ō	78	Ō	3	1	455	199	(s)	Ō
981 Average	49	45	5	0	74	0	23	14	447	164	18	O
982 Average	44	42	5	(s)	65	0	47	19	482	214	40	8
983 Average	78	71	4	0	125	0 0	41	2	547	274	34	. 6 15
984 Average 985 Average	90 110	85 104	38 37	25 21	88 40	0	60 61	(s) 0	630 770	341 468	46 59	15 36
986 Average	112	102	41	30	37	ŏ	50	ŏ	807	570	90	68
987 Average	192	180	58	49	37	ŏ	84	ŏ	848	608	82	63
988 Average	212	203	64	59	32	ŏ	98	ŏ	999	681	88	82
989 Average	284	279	36	31	34	Ó	82	Ō	931	630	80	76
90 Average	237	236	53	47	37	0	49	0	934	643	80	77
91 Average	254	254	26	21	35	0	22	0	1,033	743	91	87
92 Average	336	336	19	17	36	0	20	0	1,069	797	90	84
93 Average	336 331	336 322	19 17	18 16	28	0 0	33 31	0 1	1,181 1,272	900 983	51 65	50 64
94 Average 95 Average	367	360	16	16	29 2	Ö	8	ó	1,332	1,040	53	53
96 Average	351	344	31	25	1	ŏ	9	Ö	1,424	1,075	57	57
997 Average	427	425	48	31	i	ŏ	5	ŏ	1,563	1,198	49	48
98 Average	468	465	57	31	4	ŏ	26	ŏ	1,598	1,266	42	42
99 Average	361	357	42	31	3	Ō	26	Ō	1,539	1,178	21	13
000 Average	301	295	56	49	0	0	51	5	1,807	1,348	44	33
001 Average	328	321	43	34	10	0	82	13	1,828	1,356	24	13
02 January	310 304	297 290	41 69	41 69	20 26	0	48 84	16 52	1,901 1,897	1,307 1,374	2 45	0 42
February March	321	300	42	42	46	0	131	65	1,844	1,374	45	0
April	384	371	66	66	7	0	163	84	2,032	1,497	1	0
May	336	336	63	63	19	ő	144	77	1.969	1.496	16	15
June	475	463	21	21	16	Ö	149	69	1,914	1,466	51	34
July	308	298	43	43	35	0	114	59	1,901	1,359	43	32
August	233	220	45	23	47	0	191	119	2,020	1,526	45	34
September	342	329	87	65	53	0	90	53	1,883	1,413	16	0
October	258 402	246 390	67 84	67 64	55 37	0 0	132 73	75 17	2,110 2.083	1,578 1.484	49 22	48 21
November December	317	312	61	51	42	0	66	14	2,003	1,493	15	13
Average	332	321	57	51	34	ŏ	116	58	1,971	1,445	26	20
			00	00	20	0	114		-	•	10	
103 January February	263 265	245 251	20 23	20 23	38 27	0	119	48 36	2,272 1,997	1,654 1,447	19 15	16 14
March	396	396	20	20	41	0	76	15	1,895	1,428	45	7
April	494	482	24	24	35	ő	75	17	1,779	1,287	21	6
May	356	356	20	20	37	Ŏ	67	33	2,015	1,502	22	7
June	403	390	44	22	67	0	84	60	1,956	1,517	32	6
July	529	517	47	23	18	0	144	63	2,131	1,616	74	25
August	483	471 401	62	41	37	0	198	82	2,132	1,586	21	13
September	401 385	401 373	84 45	63 45	6 25	0 0	132 95	68 32	2,082 2.179	1,538 1,700	39 6	24 5
October November	203	373 191	45 22	45 22	25 4	0	95 93	32 68	2,179	1,700	30	28
December	269	269	0	0	22	ő	99	77	2,227	1,663	0	-0
Average	371	363	34	27	30	Ŏ	108	50	2,072	1,549	27	13
04 January	277	277	20	20	5	0	136	103	2,185	1,626	12	7
February	273	271	23	23	21	0	104	67	2,087	1,490	46	38
March	347	336	22	22	15	0	93	42	2,077	1,583	14	6 7
April	338	325	0	0	21	0	83	22	2,044	1,596	7	<u>7</u>
May	405	384	39	39	19	0	60	16	2,063	1,630	15	7 7
June	139 370	127 355	21 38	0 8	14 25	0	130 140	91 95	2,217 2,166	1,708 1,664	14 38	7
July August	370 354	355 341	38 21	8 21	60 60	0	69	95 50	1,982	1,664 1,512	38 7	21 7
September	382	361	22	22	43	ő	138	102	2,148	1,716	8	6
October	197	185	19	19	34	ŏ	90	26	2,208	1,687	38	24
10-Month Average	309	297	22	17	26	Ŏ	104	61	2,118	1,622	20	13
003 10-Month Average	398	389	39 54	30 50	33 33	0	110	45	2,045	1,529	30	12

^a The country of origin for petroleum products may not be the country of origin for the crude oil from which the products were produced. For example, refined products imported from West European refining areas may have been produced from Middle East crude oil. (s)=Less than 500 barrels per day.
Notes: • Beginning in October 1977, Strategic Petroleum Reserve imports

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

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

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

						Non-	OPEC ^a					
	Co	lombia	Eci	uador ^b	G	abon ^c		Italy	Ма	laysia	Me	exico
	Total	Crude Oil	Total	Crude Oil	Total	Crude Oil	Total	Crude Oil	Total	Crude Oil	Total	Crude Oil
1973 Average	9 5 9 21 17 20 18	2 0 0 6 0	-	- - - - -	- - - - -	- - - -	125 74 27 39 51 38 30	0 0 0 0 0	12 12 8 18 66 42 66	1 1 5 16 55 37 52	16 8 71 87 179 318 439	1 2 70 87 177 316 437
1980 Average 1981 Average 1982 Average 1983 Average 1984 Average 1985 Average 1986 Average 1987 Average	4 1 5 10 8 23 87 148	0 0 0 0 0 0 57 115	-	- - - - - -	- - - - -	- - - - - - -	4 11 18 18 45 60 76 54	0 (s) (s) (s) (s) (s) 1	70 36 20 4 1 3 12	61 33 18 3 0 1 11	533 522 685 826 748 816 699 655	507 469 645 766 659 715 621 602
1988 Average 1989 Average 1990 Average 1991 Average 1992 Average 1993 Average 1994 Average 1995 Average 1996 Average 1997 Average 1998 Average 1999 Average 1999 Average 2000 Average	134 172 182 163 126 171 161 219 234 271 354 468 342 296	106 136 140 123 102 141 146 207 226 270 349 452 318 260	- - - 81 91 97 104 115 101 118 128 120	- - - 78 91 96 114 98 114 125 113	- - - - - 229 184 230 207 168 143 140	- - - - - 229 184 230 207 168 143 140	65 34 58 47 55 31 22 5 8 7 12 10 30 40	5 3 2 3 0 0 0 0 0 0 0 0 0	19 39 41 24 10 11 20 8 11 23 35 35 45 37	19 39 40 24 10 6 6 8 26 21 29 15	747 767 755 807 830 919 984 1,068 1,244 1,385 1,351 1,324 1,373 1,440	674 716 689 759 787 863 939 1,027 1,360 1,321 1,254 1,313 1,394
2002 January February March April May June July August September October November December Average	260 352 242 291 210 229 224 239 275 255 270 289 260	228 331 233 266 192 204 203 217 263 232 212 248 235	116 84 110 93 91 117 110 79 114 156 153 100	83 77 104 75 82 105 93 79 102 151 148 100	206 61 124 164 188 123 206 170 164 88 127 88	206 61 124 164 188 123 206 170 164 88 127 88 143	30 26 54 38 36 16 22 24 24 34 40 58 34	0 0 0 0 0 0 0 0	33 11 6 0 30 7 20 38 0 22 23 4	14 0 0 0 22 0 11 29 0 17 12 0 9	1,416 1,611 1,473 1,486 1,565 1,519 1,604 1,500 1,453 1,574 1,580 1,781	1,373 1,571 1,437 1,442 1,492 1,474 1,529 1,475 1,417 1,524 1,532 1,734 1,500
2003 January February March April May June July August September October November December Average	160 269 220 212 162 170 188 226 200 231 129 175 195	138 240 163 170 133 146 161 206 182 186 102 168	85 93 82 101 149 136 144 173 245 103 244 145	85 93 82 95 137 120 139 170 167 234 103 237 139	113 168 98 135 129 140 98 144 102 141 142 161	113 168 98 135 129 140 98 144 102 141 142 161	25 21 49 68 39 20 24 32 28 25 49 25 34	0 0 0 0 0 0 0 0	12 15 8 27 31 0 118 62 46 15 9 21	11 0 0 21 22 0 95 62 22 9 0	1,604 1,646 1,355 1,663 1,556 1,530 1,694 1,618 1,665 1,692 1,657 1,801 1,623	1,530 1,542 1,313 1,633 1,513 1,472 1,645 1,575 1,631 1,620 1,585 1,765 1,765
2004 January February March April May June July August September October 10-Month Average	99 124 153 202 202	276 61 105 136 173 192 83 143 131 110	197 223 113 253 259 205 277 282 285 299 239	187 209 95 225 259 186 249 256 285 293 225	97 163 108 169 116 195 117 65 94 236 136	97 163 108 169 116 195 117 65 94 236	20 24 63 41 26 37 65 51 51 23	0 0 0 0 0 0 0	24 0 22 0 31 23 34 64 21 59 28	14 0 8 0 22 5 34 33 12 30 16	1,615 1,541 1,639 1,577 1,714 1,702 1,648 1,647 1,591 1,760 1,644	1,594 1,486 1,576 1,566 1,666 1,668 1,603 1,588 1,527 1,722 1,600
2003 10-Month Average 2002 10-Month Average	203 257	172 236	139 107	132 95	126 150	126 150	33 31	0	34 17	25 9	1,602 1,519	1,547 1,473

^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.

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

Columbia.

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

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

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

		Non-OPEC ^a											
	Neth	nerlands	Netherlar	nds Antilles	N	orway	Pue	rto Rico	Ru	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	o	585	o	1	Ō	99	Q	26	Ō	26	Ō	
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 2	211 229	0	50 104	48 104	105 94	0 0	12 8	2 1	10 3	0 0	
1978 Average 1979 Average	5 23	7	229	0	75	75	94 92	Ö	1	Ó	3 4	0	
1980 Average	23	(s)	225	ŏ	144	144	88	ŏ	i	Ö	ī	ŏ	
1981 Average	30	(s)	197	ŏ	119	114	62	ŏ	5	(s)	i	(s)	
1982 Average	35	(s)	175	ŏ	102	102	50	ŏ	ĭ	(0)	3	(s)	
1983 Average	65	`3	189	Ŏ	66	65	40	Ŏ	1	(s)	2	(s)	
1984 Average	65	3	188	Ō	114	112	42	Ō	13	(s)	11	°ó	
1985 Average	58	0	40	0	32	31	28	0	8	(s)	29	1	
1986 Average	54	0	25	0	60	53	21	0	18	(s)	53	0	
1987 Average	60	0	29	0	80	70	21	0	11	0	55	0	
1988 Average	61	Q	36	0	67	62	22	0	29	Ō	68	0	
1989 Average	49	0	42	0	138	127	32	0	48	0	67	0	
1990 Average	55	0	31	0	102	96	32	0	45	1	47	0	
1991 Average	29	0	81	0	82	74	27	0	29	1	33	0	
1992 Average	26	0	65	0	127	119	26	0	18	5	32	0	
1993 Average	10 32	0 0	82 98	0	142 202	137 190	29 22	0 0	55 30	36 27	37 37	0	
1994 Average1995 Average	32 15	0	52	0	273	258	15	Ö	30 25	14	37 16	1	
1996 Average	19	ŏ	64	Ö	313	293	20	ŏ	25 25	18	29	i	
1997 Average	25	ŏ	74	ŏ	309	288	16	ŏ	13	3	21	ó	
1998 Average	31	ŏ	82	ŏ	236	221	15	ŏ	24	9	18	ŏ	
1999 Average	27	ŏ	65	ŏ	304	263	13	ŏ	89	21	10	ŏ	
2000 Average	30	ĭ	90	ŏ	343	302	15	ŏ	72	7	25	ŏ	
2001 Average	43	Ŏ	81	Ö	341	281	4	Ŏ	90	Ō	31	Ö	
2002 January	25	0	120	0	155	135	0	0	61	0	16	0	
February	48	0	145	0	264	224	0	0	51	0	10	0	
March	77	0	112	Ö	338	296	0	0	95	12	19	0	
April	111	0	94	Ö	577	523	2	0	192	36	8	0	
May	103	ŏ	48	ŏ	519	467	0	ŏ	371	220	23	ŏ	
June	69	ő	76	ŏ	527	490	ŏ	ő	231	78	-8	ŏ	
July	39	ŏ	51	ŏ	495	448	Ŏ	ŏ	220	79	30	Ŏ	
August	87	Ŏ	56	Ö	478	402	Õ	Ŏ	236	100	29	Ö	
September	21	0	77	0	342	294	0	0	225	104	0	0	
October	75	0	71	0	318	308	0	0	295	190	0	0	
November	70	0	84	0	409	388	0	0	255	85	19	0	
December	61	0	43	0	288	202	0	0	276	108	41	0	
Average	66	0	81	0	393	348	(s)	0	210	85	17	0	
2003 January	123	0	49	0	210	139	0	0	181	99	30	0	
February	62	Ö	129	Ö	280	236	Ō	Ö	271	121	26	Ö	
March	108	Ö	64	Ö	242	181	0	Ö	257	16	16	Ö	
April	89	0	83	0	282	182	0	0	132	19	17	0	
May	76	0	143	0	303	190	0	0	208	142	49	0	
June	97	0	49	0	375	244	0	0	527	441	44	0	
July	100	0	59	0	265	162	0	0	550	479	16	0	
August	91	0	27	0	352	192	0	0	411	288	7	0	
September	102	0	46	0	288	214	0	0	275	142	11	0	
October	79	0	42	0	296	190	0	0	93	34	10	0	
November	93	0 0	78 71	0	188	129 116	0	0	71 72	0	41	0	
December Average	19 87	0	71 70	0	162 270	116 181	0	0	72 254	21 151	19 24	0	
Average	0,	·	,,	·	2.0	.0.	·	·	204	101		·	
2004 January	30	0	90	0	241	149	0	0	128	8	0	0	
February	121	0	153	0	252	168	0	0	184	11	15	4	
March	159	0	0	0	287	217	0	0	193	42	34	0	
April	111	0	28	0	169	131	0	0	316	193	53	0	
May	95	0 0	5	0 0	278	186	0	0	211	142	35	0	
June	118	0	1 2	0	209 318	164	0	0	416	321 206	8	0	
July	110	0	121	0	318	215	0	0	384		8 17	0	
August	97 50	0	121	0	148	163 59	0	0	215 199	105 43	0	0	
September October	132	0	93	0	223	133	0	0	268	129	20	0	
10-Month Average	102	0	93 61	0	245	159	0	0	251	129 120	20 19	(s)	
J													
2003 10-Month Average	93	0	69	0	289	192	0	0	291	179	23	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 Imports from other republics in the former U.S.S.R. may be included in imports from Russia for the years 1973 through 1992.

(s)=Less than 500 barrels per day.

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

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

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

					Non-	OPEC ^a						
	Trinidad	and Tobago	United	Kingdom	U.S. Vir	gin Islands	Other N	Ion-OPECb	1	Total	Total	Imports
	Total	Crude Oil	Total	Crude Oil	Total	Crude Oil	Total	Crude Oil	Total	Crude Oil	Total	Crude Oil
1973 Average 1974 Average 1975 Average 1976 Average 1977 Average 1979 Average 1980 Average 1981 Average 1982 Average 1983 Average 1985 Average 1986 Average 1987 Average 1987 Average 1987 Average 1988 Average 1988 Average 1989 Average 1999 Average 1991 Average 1991 Average 1992 Average 1993 Average 1994 Average 1995 Average 1995 Average 1996 Average 1997 Average 1997 Average 1997 Average 1998 Average 1998 Average 1999 Average 1999 Average 1999 Average 1999 Average	255 251 242 274 289 253 190 176 133 112 96 94 113 125 106 97 94 98 88 95 74 77 70 66 61 66 58	60 63 115 104 134 142 123 115 102 92 83 87 98 93 75 71 73 76 72 70 55 62 62 58 56	15 8 14 31 126 180 202 176 375 456 382 402 310 350 352 315 215 189 138 230 350 458 383 383 350 458 366	0 0 (s) 13 97 169 197 173 369 441 365 378 278 317 304 254 160 155 106 200 312 396 341 216 169 161 284 291	329 391 406 422 466 428 431 388 327 316 282 294 247 244 272 242 321 282 243 249 254 328 278 3100 293 293 2991	000000000000000000000000000000000000000	153 122 120 203 287 289 219 236 306 378 411 394 426 457 457 417 282 335 452 450 302 440 422 531 575 618	36 30 14 101 157 146 192 162 163 174 215 210 137 144 196 197 180 137 149 239 181 239 181 255 250 288 304 214	3,263 2,832 2,454 2,247 2,614 2,619 2,607 2,968 3,189 3,387 3,387 3,387 3,921 3,721 3,721 4,749 4,833 5,267 2,593 5,803 5,803 5,803 5,803 5,803 5,803 5,803 5,803 5,803 5,803	1,149 937 893 742 971 1,172 1,407 1,399 1,474 1,754 1,853 1,914 1,888 2,065 2,274 2,467 2,381 2,467 2,381 2,405 2,676 63,178 3,883 3,889 4,070 4,537 4,537 4,537 4,532 4,526	6,256 6,112 6,056 7,313 8,807 8,363 8,456 6,909 5,996 5,113 5,051 5,437 5,067 6,224 6,678 7,402 8,061 8,061 8,018 7,627 7,888 8,620 8,996 8,835 9,478 10,162 10,708 10,708 10,708 11,459	3,244 3,477 4,105 5,287 6,615 6,356 6,519 5,263 4,396 3,488 3,329 3,426 3,201 4,178 4,674 5,107 5,843 5,894 5,782 6,083 6,787 7,063 7,230 7,508 8,225 8,706 8,721 9,071
2001 Average 2002 January February March April May June July August September October November December Average	53 84 72 59 71 89 72 58 104 112 102 85	51 53 84 68 59 63 76 72 50 76 75 82 55 68	324 366 360 272 454 436 726 529 574 353 582 669 415 478	244 284 279 220 380 351 613 481 480 278 486 632 376 405	268 278 242 198 168 165 236 240 234 231 235 321 281 236	0 0 0 0 0 0 0 0 0	702 604 398 631 772 804 799 951 872 769 718 762 534 720	244 207 133 164 230 273 346 403 454 367 225 255 173 270	6,343 6,059 6,171 6,207 7,160 7,208 7,397 7,258 7,252 6,622 7,207 7,586 6,935 6,925	4,480 4,244 4,588 4,405 5,193 5,337 5,561 5,316 5,378 4,926 5,311 5,448 4,968 5,058	11,871 11,088 10,904 11,198 11,765 11,769 11,753 11,624 11,890 11,075 11,893 12,268 11,100 11,530	9,328 8,709 8,753 8,799 9,301 9,323 9,324 9,184 9,544 8,797 9,532 9,654 8,741 9,140
2003 January February March April May June July August September October November December Average	105 110 97 50 128 58 124 91	73 44 78 82 82 44 98 36 87 60 68 56	493 463 389 407 557 512 381 558 319 300 390 440	411 407 299 308 470 373 454 319 487 285 234 261 359	179 253 328 245 258 278 351 345 326 307 291 287 288	0 0 0 0 0 0 0	700 649 818 651 894 959 809 974 786 711 676 634 773	181 179 245 189 358 340 348 490 359 396 307 228 303	6,801 6,869 6,612 6,650 7,167 7,475 8,000 7,836 7,474 7,031 6,475 6,808 7,103	4,760 4,802 4,342 4,649 5,093 5,316 5,922 5,676 5,489 5,309 4,618 5,034 5,087	11,104 10,921 12,044 12,599 12,918 13,001 12,736 12,769 12,868 12,373 11,712 12,033 12,264	8,633 8,474 9,226 9,928 10,153 10,034 10,023 10,287 10,063 9,351 9,665
2004 January February March April May June July August September October 10-Month Average	123 107 110 100 59 108 101 67	55 75 56 77 41 34 54 56 38 48 53	200 384 448 461 433 394 402 274 192 486 367	126 297 293 306 249 304 249 174 94 292 238	295 279 284 290 294 376 379 355 342 352 325	0 0 0 0 0 0 0	606 999 1,152 837 824 956 838 981 876 1,023	175 402 408 287 184 261 217 383 319 388 302	6,549 7,114 7,304 7,062 7,236 7,436 7,603 7,264 6,952 7,757 7,229	4,715 4,764 4,897 5,040 5,115 5,264 5,170 4,897 4,808 5,323 5,000	11,727 12,329 13,073 12,450 12,989 13,301 13,389 13,489 12,532 13,323 12,865	9,322 9,258 10,073 10,062 10,324 10,505 10,302 10,447 9,669 10,328 10,034
2003 10-Month Average 2002 10-Month Average		69 67	459 466	381 386	287 223	0 0	797 735	310 281	7,194 6,859	5,139 5,028	12,342 11,501	9,694 9,130

(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

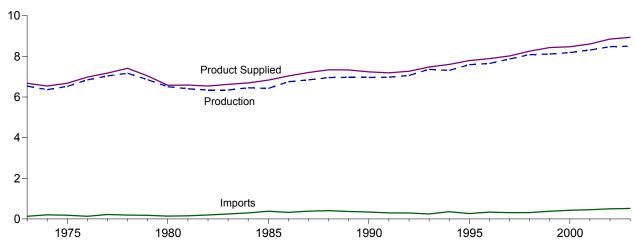
Web Page: http://www.eia.doe.gov/emeu/mer/petro.html.
Sources: • 1973-1991: Energy Information Administration (EIA), Petroleum Supply Annual 1992, Volume 1, May 1993, Table S3. • 1992 forward: EIA, Petroleum Supply Monthly, December 2004, Table S3.

a The country of origin for petroleum products may not be the country of origin for the crude oil from which the products were produced. For example, refined products imported from West European refining areas may have been produced from Middle East crude oil.
 b Includes Bahrain, which is shown on Table 3.3a.
 c As of January 1993, includes petroleum imported from Ecuador, which withdrew from OPEC on December 31, 1992. As of January 1995, includes petroleum imported from Gabon, which withdrew from OPEC on December 31, 1994.

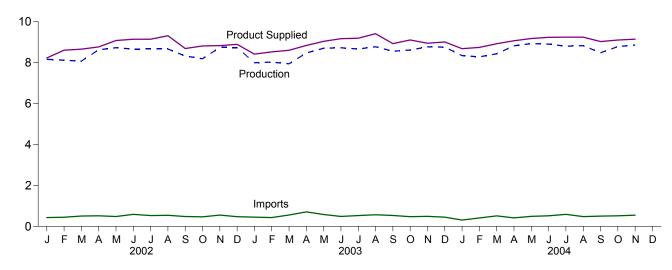
Figure 3.2 Finished Motor Gasoline

(Million Barrels per Day, Except as Noted)

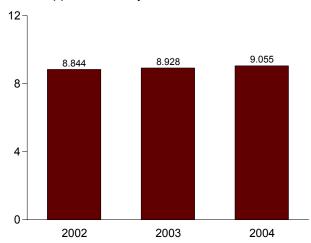
Overview, 1973-2003



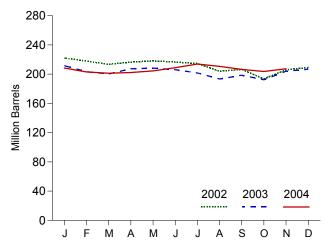
Overview, Monthly







Total Stocks, End of Month



Note: Because vertical scales differ, graphs should not be compared. Web Page: http://www.eia.doe.gov/emeu/mer/petro.html. Source: Table 3.4.

Table 3.4 Finished Motor Gasoline Supply and Disposition

Production Imports		Sup	ply	1	Disposition			Gasoline ocks ^a	
973 Average 6,535 134 -9 4 6,674 209 NA NA P74 Average 6,536 204 22 2 6,537 218 NA NA NA P74 Average 6,6,360 204 22 2 6,537 218 NA NA NA P74 Average 6,6,360 204 22 2 6,537 218 NA NA NA P74 Average 7,703 217 72 2 7,177 258 NA NA NA P74 Average 7,103 217 72 2 7,177 258 NA NA NA NA P74 Average 7,103 217 72 2 7,177 258 NA NA NA NA P74 Average 7,168 190 54 1 7,412 233 NA NA NA NA P74 Average 7,168 190 54 1 7,412 233 NA NA NA NA NA P74 Average 8,150 190 54 1 1,7412 233 NA NA NA NA NA P74 Average 9,150 190 54 1 1,7412 233 NA NA NA NA NA NA P74 Average 9,150 190 56 1 1 7,412 233 NA			Imports ^b	Stock Change ^{b,c}	Exports			T	Oxygenates Stocks ^a
74 Average 6,380 204 24 2 6,537 218 MA MA PART SAVERAGE 6,541 131 101 2 6,637 233 MA MA PART SAVERAGE 7,033 217 72 2 6,637 233 MA MA PART SAVERAGE 7,033 217 72 2 2 7,177 258 NA MA PART SAVERAGE 7,033 217 72 2 2 7,177 258 NA MA PART SAVERAGE 7,033 217 72 2 2 7,177 258 NA MA PART SAVERAGE 7,033 217 72 2 2 7,177 258 NA MA PART SAVERAGE 7,033 217 72 2 2 7,177 258 NA MA PART SAVERAGE 7,033 NA MA PART SAVERAGE 7,034 NA MA PART SAVERAGE			Thou	usand Barrels per	Day	•		Million Barrels	
974 Average 6,386 204 24 2 2 6,537 238 MA MA PATT Average 6,530 231 MA MA PATT Average 7,7032 211 72 2 2 7,177 288 MA MA PATT Average 7,169 190 54 1 7,412 238 MA MA PATT Average 7,169 190 54 1 7,412 238 MA MA PATT Average 6,582 180 6 8 180 6 180 1 7,412 238 MA MA PATT Average 6,582 180 6 8 180 6 180 1 8 1 6 180 1 8 1 1 6 1 1 7,412 238 MA MA PATT Average 6,682 180 6 8 180 1 8 2 1 6 5 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	973 Average	6,535	134	-9	4	6,674	209	NA	NA
976 Average	974 Average								NA
977 Average 7,033 217 72 2 7,177 258 NA N. P.	975 Average	6,520					235		NA
978 Average 7, 169 190 54 1 7,412 238 NA NA NA PATRA AVERAGE 6,6852 181 6 6 8 1 7,412 237 NA A NA NA PATRA AVERAGE 6,6852 181 6 6 8 1 6,632 237 NA NA NA NA PATRA AVERAGE 6,630 140 6 8 1 6,639 237 NA NA NA NA PATRA AVERAGE 6,630 140 6 8 1 6,639 237 NA NA NA NA PATRA AVERAGE 6,630 140 6 8 1 6,639 237 NA NA NA NA PATRA AVERAGE 6,6340 247 9.45 10 6,639 235 914 NA NA SA PATRA AVERAGE 6,6340 247 9.45 10 6,639 235 914 NA NA SA PATRA AVERAGE 6,6340 247 9.45 10 6,632 242 122 186 NA NA SA PATRA AVERAGE 6,6340 247 9.45 10 6,632 242 222 186 NA NA PATRA AVERAGE 6,643 238 4.11 33 6,033 243 200 NA PATRA AVERAGE 6,641 384 -15 35 7,026 226 189 NA NA SA PATRA AVERAGE 6,641 384 -15 35 7,026 226 189 NA PATRA AVERAGE 6,641 384 -15 35 7,026 226 189 NA PATRA AVERAGE 6,636 405 3 22 7,336 222 130 1717 NA NA PATRA AVERAGE 6,636 232 243 243 240 240 240 240 240 240 240 240 240 240	976 Average	6,841	131	-10		6,978	231	NA	NA
978 Average	977 Average	7,033	217	72	2	7,177	258		NA
980 Average	978 Average	7,169	190	-54	1	7,412	238	NA	NA
140 140	979 Average	6,852	181	-2	(s)	7,034		NA	NA
981 Average 6,405 157 28 2 6,588 253 203 M 982 Average 6,330 277 4-5 10 6,532 225 1914 M 983 Average 6,330 277 4-5 10 6,532 225 1914 M 984 Average 6,453 299 4-6 6 6,683 243 225 1910 M 985 Average 6,419 381 -41 10 6,681 223 190 M 986 Average 6,752 326 11 33 7,034 233 194 M 987 Average 6,645 346 35 32 7,708 228 180 M 987 Average 6,645 346 35 32 7,708 228 180 M 988 Average 6,695 349 35 32 7,728 221 191 177 999 Average 6,985 349 -35 39 7,228 213 3177 M 991 Average 6,975 297 3 82 7,788 213 219 182 M 991 Average 7,758 294 294 295 296 297 298 298 298 298 993 Average 7,758 297 3 82 7,788 219 182 M 994 Average 7,758 296 297 3 82 7,788 219 182 M 994 Average 7,758 297 3 82 7,788 219 182 M 995 Average 7,758 256 -40 104 7,789 202 161 11 996 Average 7,767 336 -12 104 7,891 195 1576 11 997 Average 7,767 336 -12 104 7,891 195 1576 11 998 Average 7,878 398 399 39	980 Average	6,506	140			6,579	^e 261	NA	NA
983 Average 6,340 247 9-45 10 6.622 222 186 NV 9-848 Average 6,453 299 54 6 6.683 243 205 NV 9-858 Average 6,452 399 4-41 10 6.893 243 205 NV 9-858 Average 6,452 399 4-41 10 6.893 243 205 NV NV 9-858 Average 6,452 391 4-41 10 6.893 243 205 NV NV 9-858 Average 6,452 394 4-15 35 7.206 226 189 NV 9-858 Average 6,956 405 3 22 7,336 228 190 NV 9-858 Average 6,956 405 3 22 7,336 228 190 NV 9-858 Average 6,956 405 3 22 7,336 228 190 NV 9-859 Average 6,959 342 10 55 7,238 220 1812 NV 9-859 Average 6,959 342 10 55 7,238 220 1812 NV 9-859 Average 7,368 244 11 66 7,288 216 172 NV 9-859 Average 7,368 244 11 66 7,288 216 172 NV 9-859 Average 7,368 244 11 66 7,288 216 172 NV 9-859 Average 7,368 256 -31 97 7,476 226 187 11 995 Average 7,588 255 -40 104 7,789 202 161 173 NV 9-859 Average 7,588 255 -40 104 7,789 202 161 173 NV 9-859 Average 7,588 255 -40 104 7,789 202 161 17 1995 Average 7,588 255 -40 104 7,789 202 161 17 1995 Average 7,588 255 -40 104 7,789 202 161 17 1995 Average 7,588 255 -40 104 7,789 199 202 161 17 1995 Average 7,588 255 -40 104 7,789 199 202 161 17 1995 Average 8,181 382 -49 111 35 125 8,233 216 172 1898 Average 8,181 382 -49 111 382 -49 110 Average 8,186 427 -3 144 8,472 196 153 154 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	981 Average [†]								NA
984 Average 6,453 299 54 6 6,693 243 205 NV 898 Average 6,419 381 4-11 10 6,831 223 190 NV 898 Average 6,752 326 115 33 7,034 233 199 NV 898 Average 6,752 326 115 33 7,034 233 199 NV 898 Average 6,955 366 31 32 27,266 228 199 NV 898 Average 6,965 366 37 32 27,266 228 199 NV 898 Average 6,965 366 37 32 27,266 228 199 NV 898 Average 6,975 297 3 82 27,286 228 199 NV 898 Average 7,088 219 177 NV 898 Average 7,088 294 10 55 7,235 220 181 NV 898 Average 7,088 224 210 25 20 181 NV 898 Average 7,088 294 294 21 10 20 180 NV 898 Average 7,088 294 294 21 10 21 10 10 10 10 10 10 10 10 10 10 10 10 10				-25					NA
886 Average 6,419 381 -41 10 6,831 223 190 NV 887 Average 6,752 326 111 33 7,034 233 194 NV 887 Average 6,841 384 -15 35 7,036 226 189 NV 888 Average 6,841 384 -15 35 7,206 226 189 NV 888 Average 6,845 384 -15 35 7,206 226 189 NV 888 Average 6,856 389 382 35 32 7,238 223 197 NV 890 Average 6,855 342 00 55 7,235 220 187 NV 890 Average 6,875 297 3 82 7,235 220 181 NV 892 Average 7,058 294 -11 96 7,268 216 178 NV 892 Average 7,058 294 -11 96 7,268 216 178 NV 892 Average 7,350 247 26 105 97,476 226 187 N1 894 Average 7,312 356 -31 97 7,601 215 176 178 NV 894 Average 7,312 356 -31 97 7,601 215 176 178 NV 894 Average 7,371 386 231 15 15 15 15 15 15 15 15 15 15 15 15 15	983 Average								NA
986 Average 6,752 326 11 33 7,034 233 194 M M 987 Average 6,841 384 -15 35 7,206 228 189 M M 988 Average 6,953 488 35 22 7,338 221 197 M 988 Average 6,958 488 3 22 7,338 221 197 M 989 Average 6,959 342 10 55 7,235 220 181 M 991 Average 6,959 342 10 55 7,235 220 181 M 991 Average 7,058 294 -11 96 7,268 216 178 M 993 Average 7,058 294 -11 96 7,476 226 187 M 993 Average 7,058 294 -11 96 7,476 226 187 M 993 Average 7,300 247 26 105 97,476 226 187 M 993 Average 7,330 247 26 105 97,476 220 187 M 993 Average 7,583 285 -10 104 7,789 205 187 M 996 Average 7,584 285 -10 104 7,789 195 157 11 1996 Average 7,584 285 140 104 7,891 195 157 11 1998 Average 7,584 285 140 104 7,891 195 157 11 1998 Average 8,082 3111 15 125 8,253 216 172 10 166 11 104 104 104 104 104 104 104 104 104	984 Average								NA
987 Average 6,841 384 -15 35 7,206 226 189 N. M. 988 Average 6,5956 405 3 32 27,336 228 190 N. M. 989 Average 6,5656 369 389 -35 39 7,328 213 177 N. M. 989 Average 6,5656 369 389 -35 39 7,328 213 177 N. M. 989 Average 7,5658 247 11 96 7,268 216 182 N. 992 Average 9,7658 224 -11 96 7,268 216 188 N. 992 Average 97,360 247 26 105 97,476 226 187 11 993 Average 97,360 247 26 105 97,476 226 187 11 994 Average 7,312 356 -31 97 7,501 215 176 11 1994 Average 7,788 265 -40 104 7,789 115 115 116 117 117	985 Average								NA
1888 Average	986 Average								NA
1898 Average	987 Average								NA
990 Average	BBB Average								NA
991 Average 6,975 297 3 82 7,188 219 182 NV 992 Average 7,058 294 -11 96 7,268 216 178 NV 993 Average 97,360 247 26 105 97,476 226 187 htt 993 Average 97,360 247 26 105 97,476 226 187 htt 993 Average 7,380 285 -31 37 7,601 215 176 11 985 Average 7,582 285 -31 37 7,601 215 176 11 985 Average 7,870 309 26 11 10 10 10 10 10 10 10 10 10 10 10 10									NA
992 Average									NA
93 Average 97,360 247 26 105 97,476 226 187 117 95 Average 7,312 356 -31 97 7,601 215 176 119 95 Average 7,588 265 -40 104 7,789 202 161 119 95 Average 7,588 265 -40 104 7,789 202 161 119 95 Average 7,588 265 -40 104 7,891 195 157 157 119 97 Average 7,7670 309 26 137 6,017 210 106 11 119 195 157 119 195 157 119 195 157 119 195 157 119 195 157 119 195 157 119 195 157 119 195 157 119 195 157 119 195 157 119 195 157 119 195 157 119 195 157 119 195 157 119 195 157 119 195 157 119 195 157 119 195 157 119 195 157 119 195 195 195 195 195 195 195 195 195	91 Average								NA
94 Average 7,312 356 -31 97 7,661 215 176 12 95 Average 7,588 265 -40 104 7,769 202 161 17 196 Average 7,588 265 -40 104 7,769 202 161 17 196 Average 7,647 336 -12 104 7,891 195 157 17 196 Average 7,870 309 26 137 8,017 210 166 17 197 Average 8,082 311 15 125 8,253 216 172 1 198 Average 8,188 427 -3 144 8,431 193 154 1 1 100 Average 8,188 427 -3 144 8,431 193 154 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	92 Average								NA
986 Average 7,588 265 -40 104 7,789 202 161 17 996 Average 7,647 336 -12 104 7,891 195 157 11 997 Average 7,870 309 26 137 8,017 210 166 17 998 Average 8,082 3111 15 125 8,253 216 172 11 998 Average 8,1111 382 -49 111 8,431 193 154 11 901 Average 8,181 427 -3 144 8,472 196 153 11 901 Average 8,181 427 -3 144 8,472 196 153 11 901 Average 8,181 427 -3 144 8,472 196 153 11 901 Average 8,181 427 -3 144 8,472 196 153 11 901 Average 8,181 427 -3 144 8,472 196 153 11 901 Average 8,181 427 -3 144 8,472 196 153 11 901 Average 8,181 427 -3 144 8,472 196 153 11 901 Average 8,181 427 -3 144 8,472 196 153 11 901 Average 8,181 427 -3 144 8,472 196 153 11 901 Average 8,181 427 -3 144 8,472 196 153 11 901 Average 8,181 427 -3 144 8,472 196 153 11 901 Average 8,181 427 -3 144 8,472 196 153 11 902 January 8,160 428 265 96 8,277 222 170 11 903 January 8,160 428 265 96 8,827 222 170 11 904 January 8,799 480 42 88 9,078 218 166 11 905 January 8,799 480 42 88 9,078 218 168 168 11 906 July 8,799 480 42 88 9,078 218 168 11 907 July 8,665 528 -89 138 9,143 215 165 11 908 July 8,665 528 -89 138 9,143 215 165 11 909 July 8,665 528 -89 138 9,143 215 165 11 909 July 8,665 528 -89 138 9,143 215 165 11 900 July 8,665 528 -89 138 9,143 215 165 11 900 July 8,665 528 -89 138 9,143 215 165 11 900 July 8,665 528 -89 138 9,143 215 165 11 900 July 8,665 528 -89 138 9,143 215 165 11 900 July 8,665 528 -89 138 9,143 215 165 11 900 July 8,665 528 -89 138 9,143 215 165 11 900 July 8,665 528 -89 138 9,143 215 165 11 900 July 8,665 528 -89 138 9,143 215 165 11 900 July 8,665 528 -89 138 9,143 215 165 11 900 July 8,665 528 -89 138 9,143 215 165 11 900 July 8,665 528 -89 138 9,143 215 165 11 900 July 8,665 528 -89 138 9,143 215 165 11 900 July 8,665 528 528 528 528 528 528 528 528 528 52	993 Average								^h 13
996 Average 7, 647 336 -12 104 7,881 195 157 11 1989 Average 7, 7,870 309 26 137 8,017 210 166 11 12 1989 Average 8,082 311 15 125 8,253 216 172 1 1989 Average 8,1111 382 -49 111 8,431 193 154 1 1 1 100 Average 8,186 427 -3 144 8,472 196 153 11 100 Average 8,186 427 -3 144 8,472 196 153 11 100 Average 8,186 427 -3 144 8,672 196 153 11 100 Average 8,186 427 -3 144 8,672 196 153 11 100 Average 8,186 427 -1 149 102 8,607 218 166 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	994 Average								17
997 Average 7,870 309 26 137 8,017 210 166 172 1998 Average 8,082 311 15 125 8,253 216 172 14 1998 Average 8,186 427 -3 144 8,472 196 153 11 15 100 Average 8,186 427 -3 144 8,472 196 153 11 100 Average 8,186 427 -3 144 8,472 196 153 11 100 Average 8,186 427 -3 144 8,472 196 153 11 100 Average 8,186 427 -3 144 8,472 196 153 11 100 Average 8,186 427 -3 144 8,472 196 153 11 100 Average 8,186 427 -3 144 8,472 196 153 11 100 Average 8,1810 428 265 96 8,227 222 170 151 100 Average 8,1810 428 145 145 145 145 145 145 145 145 145 145	995 Average								12
1988 Average	996 Average								13
999 Average 8,111 382 -49 111 8,431 193 154 175 100 Average 8,186 427 -3 144 8,472 196 153 11 190 Average 8,186 427 -3 144 8,472 196 153 11 190 Average 8,186 427 -3 144 8,472 196 153 11 190 Average 8,186 427 -3 144 8,472 196 153 11 190 Average 8,186 427 -3 144 8,472 196 153 11 190 Average 8,117 442 -149 102 8,607 218 166 14 187 187 187 187 187 187 187 187 187 187	997 Average								12
000 Average	998 Average	8,082	311	15	125	8,253	216	172	14
100 Average	999 Average	8,111	382		111	8,431	193	154	14
201 Average	000 Average	8,186	427	-3	144	8,472	196	153	12
February		8,312	454	23	133	8,610	210	161	13
March	002 January								15
April 8,626 512 239 134 8,766 216 167 14 May 8,729 480 42 88 9,078 218 168 11 June 8,661 586 -25 131 9,140 217 168 11 June 8,665 526 -89 136 9,143 215 165 11 August 8,665 526 -89 136 9,143 215 165 11 August 8,666 538 -241 133 9,313 224 157 157 1 September 8,320 480 1 113 8,687 206 157 11 October 8,190 465 -295 135 8,814 194 148 11 November 8,328 548 327 130 8,829 206 157 11 November 8,328 548 327 130 8,829 206 158 11 August 8,675 488 1 1 124 8,848 209 162 11 August 8,670 486 1 1 124 8,848 209 162 11 November 8,734 470 124 186 8,893 209 162 11 November 8,791 446 -151 175 8,414 211 157 13 November 8,791 446 -151 175 8,414 211 157 13 November 8,792 202 202 150 151 11 November 8,792 202 202 150 151 11 November 8,794 2555 -207 102 8,602 200 145 12 November 8,793 205 151 13 November 8,793 205 151 13 November 8,793 205 151 13 November 8,794 2555 -207 102 8,602 200 145 12 November 9,872 205 151 8,838 207 151 13 November 8,794 2555 -207 102 8,602 200 145 12 November 8,793 205 155 11 November 8,703 205 155 11 November 8,703 205 155 11 November 8,703 205 155 11 November 8,704 205 150 11 November 8,774 565 -156 84 9,411 193 145 11 November 8,774 565 -156 84 9,411 193 145 11 November 8,756 446 19 172 9,017 207 147 11 November 8,756 446 19 172 9,017 207 147 11 November 8,756 446 19 172 9,011 207 147 11 November 8,756 446 19 172 9,011 207 147 11 November 8,756 446 19 172 9,011 207 147 11 November 8,756 446 19 172 9,011 207 147 11 November 8,756 446 19 172 9,011 207 147 11 November 8,756 446 19 172 9,011 207 147 11 November 8,822 410 209 159 8,743 203 137 11 November 8,822 410 209 159 8,743 203 137 11 November 8,822 410 209 159 8,743 203 137 11 November 8,830 309 126 9,244 211 140 110 November 8,830 8,830 8,830 8,830 8,830 8,830 8,830 8,830 8,830 8,830 8,830 8,830 8,830 8,830 8,830 8,8									14
May 8,729 480 42 88 9,078 218 168 11 June 8,661 586 -25 131 9,140 217 168 11 July 8,665 526 -89 136 9,143 215 165 11 August 8,666 538 -241 133 9,313 204 157 1 September 8,320 480 1 113 8,687 206 157 1 October 8,190 465 -295 135 8,814 194 148 11 November 8,738 548 327 130 8,829 206 158 1 December 8,734 470 124 186 8,893 209 162 12 Average 8,475 498 1 124 186 8,893 209 162 12 1003 January 7,991 446 -151 <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>14</td>									14
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August 8,774 565 -156 84 9,411 193 145 1: September 8,556 529 30 129 8,926 199 146 14 November 8,613 469 -185 159 9,108 192 140 11 November 8,771 489 196 118 8,946 204 146 12 December 8,756 446 19 172 9,011 207 147 1: Average 8,501 518 -41 125 8,935 207 147 1: Average 8,339 309 -126 93 8,680 208 143 1: February 8,282 410 -209 159 8,743 203 137 1: March 8,429 512 -125 144 8,922 201 133 1: April 8,820 411 37 127 9,067 202 134 11 May 8,932 485 116 122 9,178 204 138 12 June 8,903 515 105 76 9,237 209 141 29 August 8,828 475 -67 126 9,244 211 140 11 September 8,482 497 -129 79 9,030 206 136 10 November 8,8783 8515 86 8146 8126 89,103 820 81 November 8,8856 8544 8142 8111 89,147 8207 8138 11 November 8,8783 8515 86 8126 8116 89,055 8207 8139 NA				-95					13
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October 8,613 469 -185 159 9,108 192 140 11 November 8,771 489 196 118 8,946 204 146 12 December 8,756 446 19 172 9,011 207 147 11 Average 8,501 518 -41 125 8,935 207 147 17 404 January 8,339 309 -126 93 8,680 208 143 17 February 8,282 410 -209 159 8,743 203 137 11 March 8,429 512 -125 144 8,922 201 133 1 April 8,820 411 37 127 9,067 202 134 10 May 8,932 485 116 122 9,178 204 138 9 July 8,801 585 33					129		199		14
November 8,771 489 196 118 8,946 204 146 12 December 8,756 446 19 172 9,011 207 147 11 Average 8,501 518 -41 125 8,935 207 147 11 004 January 8,339 309 -126 93 8,680 208 143 11 February 8,282 410 -209 159 8,743 203 137 11 March 8,429 512 -125 144 8,922 201 133 11 April 8,820 411 37 127 9,067 202 134 11 May 8,932 485 116 122 9,178 204 138 9 Jule 8,801 585 33 109 9,243 214 142 9 July 8,801 585 33 109									13
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March 8,429 512 -125 144 8,922 201 133 11 April 8,820 411 37 127 9,067 202 134 10 May 8,932 485 116 122 9,178 204 138 9 June 8,903 515 105 76 9,237 209 141 9 July 8,801 585 33 109 9,243 214 142 9 August 8,828 475 -67 126 9,244 211 140 10 September 8,482 497 -129 79 9,030 206 136 10 October 8,783 8515 869 8126 89,103 8204 8138 11 November E8,856 E544 E142 E111 E9,147 E207 E139 NA 11-Month Average E8,679 E478 E-14									11
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May 8,932 485 116 122 9,178 204 138 9 June 8,903 515 105 76 9,237 209 141 9 July 8,801 585 33 109 9,243 214 142 9 August 8,828 475 -67 126 9,244 211 140 11 September 8,482 497 -129 79 9,030 206 136 10 October R,8,783 R,515 R,69 R,126 R,9,103 R,204 R,138 11 November E,8,856 E,544 E,142 E,111 E,9,147 E,207 E,139 NA 11-Month Average E,8,679 E,478 E,-14 E,116 E,9,055 E,207 E,139 NA									10
June 8,903 515 105 76 9,237 209 141 6 July 8,801 585 33 109 9,243 214 142 9 August 8,828 475 -67 126 9,244 211 140 11 September 8,482 497 -129 79 9,030 206 136 10 October R,8,783 R,515 R,69 R,126 R,9,103 R,204 R,138 11 November E,8,856 E,544 E,142 E,111 E,9,147 E,207 E,139 NA 11-Month Average E,8,679 E,478 E,-14 E,116 E,9,055 E,207 E,139 NA									9
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August 8,828 475 -67 126 9,244 211 140 11 September 8,482 497 -129 79 9,030 206 136 10 October 9,8783 9515 9,126 9,103 9,204 9,138 11 November 6,8,856 6,544 6,142 6,111 6,147 6,207 6,139 NA 11-Month Average 6,679 6,478 6,14 6,16 6,9,055 6,207 6,139 NA									9
September 8,482 497 -129 79 9,030 206 136 10 October B,783 B,515 B,69 B,126 B,103 B,204 B,138 11 November E,8,856 E,544 E,142 E,111 E,9,147 E,207 E,139 NA 11-Month Average E,8,679 E,478 E,-14 E,116 E,9,055 E,207 E,139 NA									10
October R8,783 R515 R69 R126 R9,103 R204 R138 11 November E8,856 E544 E142 E111 E9,147 E207 E139 NA 11-Month Average E8,679 E478 E-14 E116 E9,055 E207 E139 NA	September							136	10
November E8,856	October	R 8 783		R 69	R 126	R 9 103	R 204	R 138	11
11-Month Average ^E 8,679 ^E 478 ^E -14 ^E 116 ^E 9,055 ^E 207 ^E 139 NA		E 8 856	E 544	E 142	E 111	E 9 147	E 207	E 139	ŇÁ
			E 478	E -14	E 116	E 9,055		E 139	NA NA
003 11-Month Average 8.478 525 -47 121 8.928 204 146 15	003 11-Month Average	8,478	525	-47	121	8,928	204	146	12

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

a Stocks are at end of period.
 b From 1981 forward, blending components are excluded.
 c A negative number indicates a decrease in stocks and a positive number

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

section.

^h See Note 1 at end of section.

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

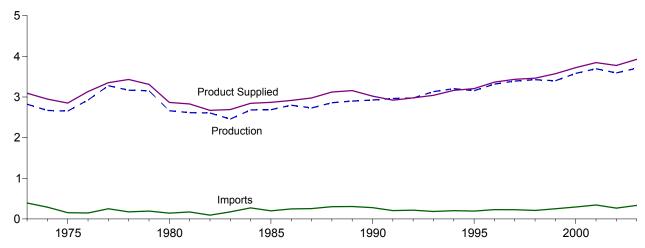
A=Hevised. NA=Not available. E=Estimate. (s)=Less trian 500 barrels per day.

Note: Geographic coverage is the 50 States and the District of Columbia. Web Page: http://www.eia.doe.gov/emeu/mer/petro.html. Sources: • 1973-1991: Energy Information Administration (EIA), Petroleum Supply Annual 1992, Volume 1, May 1993, Table S4. • 1992 forward: EIA, Petroleum Supply Monthly, December 2004, Table S4.

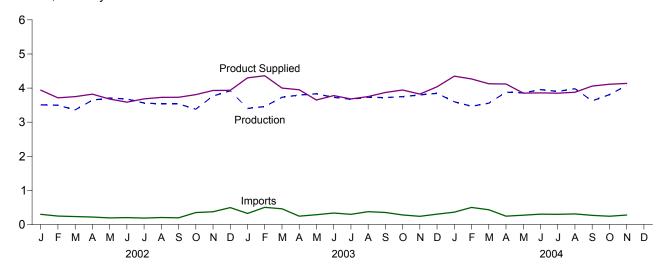
Figure 3.3 Distillate Fuel Oil

(Million Barrels per Day, Except as Noted)

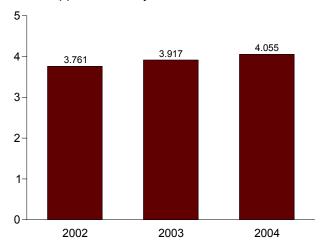
Overview, 1973-2003



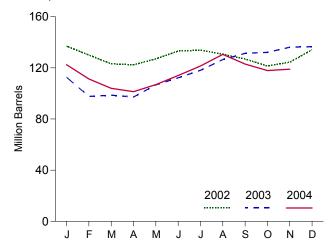
Overview, Monthly







Stocks, End of Month



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

Table 3.5 Distillate Fuel Oil Supply and Disposition

	Supply			Disposition		Stocksa			
								Sulfur	Content
	Total Production	Imports	Crude Oil Used Directly ^b	Stock Change ^c	Exports	Product Supplied ^b	Total	0.05 Percent or Less ^d	Greater Than 0.05 Percent ^d
			Thousand Ba	rrels per Day	•			Million Barre	s
1973 Average	2,822	392	2 2	115	9	3,092	196	NA	NA
1974 Average 1975 Average	2,669 2,654	289 155	2 2	^e 10 ^{e,f} -41	2 1	2,948 2,851	† 200 209	NA NA	NA NA
1976 Average	2,924	146	ī	-62	i	3,133	186	NA	NA
1977 Average	3,278	250	1	176	1	3,352	250	NA	NA
1978 Average	3,167 3,153	173 193	1	-93 34	3 3	3,432 3,311	216 229	NA NA	NA NA
1980 Average	2,662	142	i	-64	3	2,866	f 205	ŇÁ	ŇÁ
1981 Average ^g	2,613	173	10	f -38	_5	2,829	, 192	NA	NA
1982 Average	2,606	93	10	-35 ^f -124	74 64	2,671	† 179 140	NA NA	NA NA
1983 Average	2,456 2,681	174 272	=	57	51	2,690 2,845	161	NA NA	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 1988 Average	2,731 2,859	255 302	_	-56 -30	66 69	2,976 3,122	134 124	NA NA	NA NA
1989 Average	2,899	306	_	-49	97	3,157	106	NA NA	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 1993 Average	2,974 3,132	216 184	_	-8 1	219 274	2,979 3,041	141 141	NA 9 64	NA 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 68	58 70
1997 Average 1998 Average	3,392 3,424	228 210	_	32 48	152 124	3,435 3,461	138 156	68 77	70 79
1999 Average	3,399	250	_	-84	162	3,572	125	69	56
2000 Average	3,580	295	_	-20	173	3,722	118	72	46
2001 Average	3,695	344	-	73	119	3,847	145	82	62
2002 January	3,508	298	_	-244	109	3,940	137	80	57
February	3,498	248	_	-248	279	3,714	130	78	52
March	3,360	234 219	_	-223 -23	67	3,750 3,821	123 122	74 74	49 48
April May	3,647 3,709	193	_	-23 149	68 74	3,679	127	74 77	50
June	3,679	204	_	203	93	3,587	133	79	54
July	3,561	188	_	22	44	3,683	134	77	57
August	3,538	205	_	-104 -124	119 127	3,728	131	71 68	60
September October	3,536 3,380	196 350	_	-12 4 -175	96	3,730 3,808	127 121	66	59 56
November	3,768	373	_	99	114	3,929	124	71	53
December	3,922	496	-	312	171	3,934	134	81	53
Average	3,592	267	-	-29	112	3,776	134	81	53
2003 January	3,403	325	_	-693	119	4,301	113	69	44
February	3,459	503	-	-532	132	4,362	98	61	37
March	3,732	460	_	30 47	161	4,001	99	63	35
April May	3,796 3,833	246 287	_	-47 307	139 162	3,951 3,651	97 107	66 72	31 35
June	3,728	337	_	184	101	3,781	112	74	38
July	3,673	299	-	188	103	3,680	118	75	43
August September	3,730 3,721	375 352	_	274 159	80 43	3,752 3,871	127 131	76 77	51 55
October	3,750	281	_	25	62	3,945	132	77 74	59
November	3,800	241	_	136	81	3,824	136	78	58
December	3,845	305	_	13	100	4,037	137	82	55 55
Average	3,707	333	_	7	107	3,927	137	82	55
2004 January	3,599	362	-	-461	72	4,350	122	77	46
February	3,467	501	_	-385	86	4,268	111	68	43
March April	3,558 3,881	432 244	_	-235 -87	99 92	4,126 4,121	104 101	66 66	38 35
May	3,858	273	_	177	100	3,854	107	71	36
June	3,957	305	_	238	163	3,860	114	71	43
July	3,902	300	_	239	113	3,850	121	74 70	47
August September	3,981 3,625	311 270	_	294 -252	120 88	3,878 4.059	131 123	78 72	52 51
October	R 3,807	R 242	_	^R -164	R 101	R 4,113	R 118	^R 68	^R 50
November	E 4,076	E 277	_	E 108	E 108	E 4,137	E 119	E 69	E 50
11-Month Average	^E 3,793	^E 319	-	E -47	^E 104	^E 4,055	E 119	^E 69	^E 50
2003 11-Month Average 2002 11-Month Average	3,694 3,562	336 246	<u>-</u>	6 -60	107 107	3,917 3,761	136 124	78 71	58 53

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.
 By weight.

d By weight.

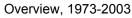
e See Note 6 at end of section.
f See Note 4 at end of section.

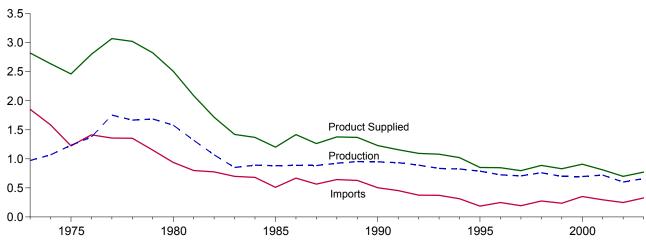
 ⁹ See Note 3 at end of section.
 R=Revised. NA=Not available. -=Not applicable. E=Estimate.
 Notes: • Totals may not equal sum of components due to independent rounding.
 Geographic coverage is the 50 States and the District of Columbia.

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

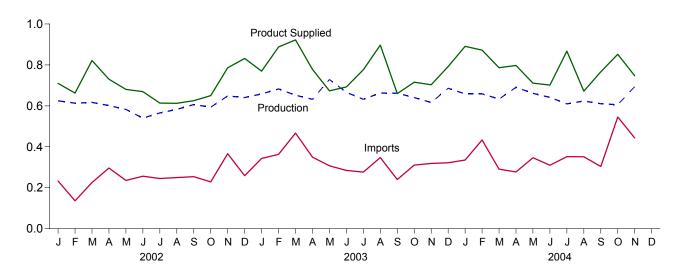
Figure 3.4 **Residual Fuel Oil**

(Million Barrels per Day, Except as Noted)

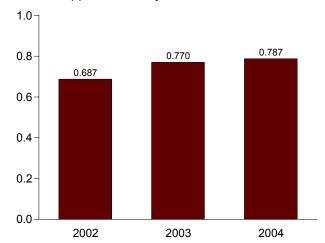




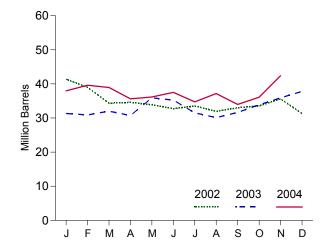
Overview, Monthly



Product Supplied, January-November



Stocks, End of Month



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

Table 3.6 Residual Fuel Oil Supply and Disposition

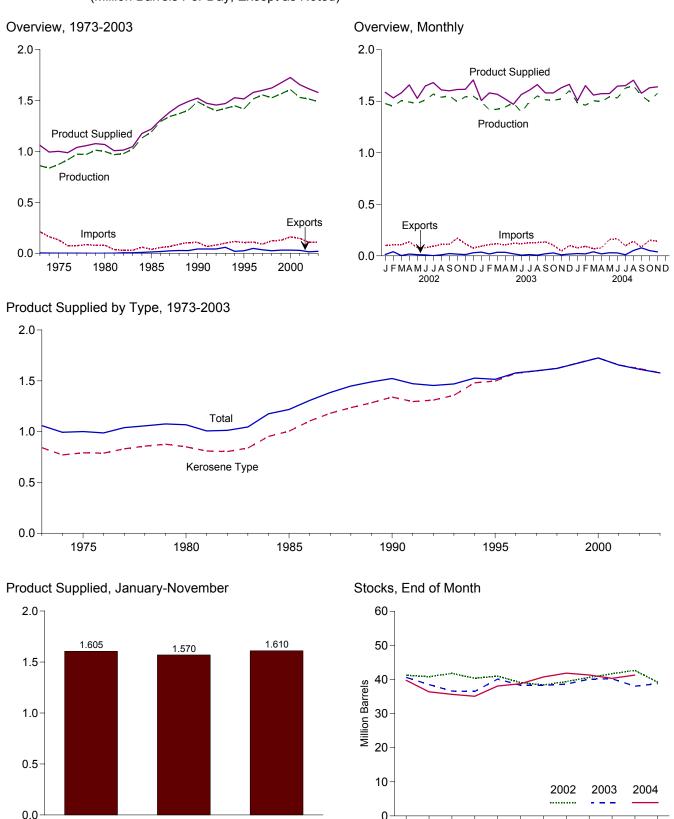
		Supply	<u> </u>		Disposition			
	Total Production	Imports	Crude Oil Used Directly ^a	Stock Change ^b	Exports	Product Supplied ^a	Stocks ^c	
			Thousand Ba	arrels per Day	•		Million Barrels	
1973 Average 1974 Average 1975 Average 1975 Average 1977 Average 1977 Average 1978 Average 1979 Average 1980 Average 1981 Average 1982 Average 1983 Average 1985 Average 1985 Average 1986 Average 1987 Average 1988 Average 1998 Average 1999 Average 1999 Average 1999 Average 1995 Average 1996 Average 1997 Average 1998 Average 1999 Average	971 1,070 1,235 1,377 1,754 1,687 1,580 1,321 1,070 852 891 882 889 885 926 954 950 934 892 835 826 726 708 726 708	1,853 1,587 1,223 1,413 1,359 1,355 1,151 939 800 776 699 681 510 669 565 644 629 504 453 375 373 314 187 248 194 275 237 352 295	Thousand Ba	arrels per Day -5 17 d -2 -5 48 15 -10 d -37 -32 d -55 12 -7 -8 (s) -8 -2 13 4 -20 4 -6 -13 24 -15 12 -25 1	23 14 15 12 6 13 9 33 118 209 185 190 197 147 186 200 215 211 226 193 123 123 125 136 102 120 138 129 139	2,822 2,639 2,462 2,801 3,071 3,023 2,826 2,508 2,088 1,716 1,421 1,369 1,202 1,418 1,264 1,378 1,370 1,229 1,158 1,094 1,080 1,021 852 848 797 887 887 880 909 811	Million Barrels 53 d 60 74 72 90 90 96 d 92 78 d 66 49 53 50 47 47 45 44 49 50 43 44 42 37 46 40 45 36 36 36 41	
2002 January	625 613 617 601 582 540 566 583 607 593 648 641 601	233 136 225 296 235 256 245 249 254 228 366 259 249	-	10 -84 -151 9 -23 -38 26 -52 36 18 68 -138 -27	138 171 171 159 160 165 171 272 200 153 160 205	710 662 821 730 680 669 614 612 625 650 786 832 700	41 39 34 35 34 33 34 32 33 34 36 31	
2003 January	658 683 652 632 729 666 632 663 662 640 616 686 660	343 363 467 349 307 284 276 347 240 311 319 322 327	- - - - - - - - - - - - - - - - - - -	(s) -15 -35 -43 168 -22 -121 -45 51 72 68 61 18	231 173 161 247 195 280 252 158 191 164 163 155	770 888 923 778 673 693 777 897 660 716 703 792	31 31 32 31 36 35 32 30 32 34 36 38	
2004 January	658 658 633 691 661 641 610 624 611 8 606 E 694 E 644	335 433 291 277 346 310 352 351 303 8 546 E 443 E 362	- - - - - - - - - - - - - - - - - - -	5 57 -21 -111 17 45 -90 78 -106 R 68 E 210	97 163 158 282 280 204 184 225 254 F 231 E 180 E 205	891 872 786 797 711 702 867 672 766 8 852 E 747 E 787	38 40 39 36 36 38 35 37 34 36 E 42	
2003 11-Month Average 2002 11-Month Average	657 598	328 248	_	14 -16	201 175	770 687	36 36	

<sup>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.</sup>

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

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

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



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

2003

Source: Table 3.7.

2002

2004

0

0

M

M

D

Table 3.7 Jet Fuel Supply and Disposition

		Supply			Dis	sposition			
	Pı	roduction				Prod	uct Supplied		Stocksa
	Total	Kerosene Type	Imports	Stock Change ^b	Exports	Total	Kerosene Type	Total	Kerosene Type
			Thous	and Barrels p	er Day			Mil	llion 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	691 731	133 76	° 2	2	1,001	791 789	30	25
1976 Average1977 Average	918 973	731 787	76 75	5 7	2 2	987 1,039	789 831	32 35	26 28
1978 Average	970	791	86	-2	ī	1,057	858	34	28
1979 Average	1,012	835	78	13	1	1,076	876	39	33
1980 Average	999	<u>811</u>	80	10	1	1,068	851	c 42	c 36
1981 Average	968 978	775 778	38 29	° -4 -12	2 6	1,007 1,013	809 804	41 ^c 37	34 ° 31
1982 Average1983 Average	1,022	817	29	c (s)	6	1,013	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 1,403	1,164 1,197	90 106	-17 -8	28 27	1,449 1,489	1,236 1,284	44 41	38 34
1989 Average1990 Average	1,403	1,197	108	-8 31	43	1,489	1,284	41 52	34 46
1991 Average	1,438	1,274	67	-9	43	1,471	1,296	49	44
1992 Average	1,399	1,254	82	-16	43	1,454	1,310	43	39
1993 Average	1,422	1,309	100	-7	59	1,469	1,357	40	38
1994 Average	1,448	1,410	117	18	20	1,527	1,480	47	46
1995 Average	1,416	1,407	106	-19 (a)	26	1,514	1,497	40	39 40
1996 Average1997 Average	1,515 1,554	1,513 1,554	111 91	(s) 11	48 35	1,578 1,599	1,575 1,598	40 44	40 44
1998 Average	1,526	1,525	124	2	26	1,622	1,623	45	45
1999 Average	1,565	1,565	128	-11	32	1,673	1,675	41	40
2000 Average	1,606	1,606	162	11	32	1,725	1,725	45	44
2001 Average	1,530	1,529	148	-7	29	1,655	1,656	42	42
2002 January	1,477 1.451	1,477	99	-23	13	1,587	1,591	41 41	41 41
February March	1,505	1,451 1,505	107 109	-15 31	40 3	1,532 1,581	1,532 1,581	41	41
April	1,492	1,491	137	-47	18	1,658	1,674	40	40
May	1,479	1,479	79	20	11	1,527	1,535	41	41
June	1,512	1,512	81	-63	9	1,647	1,656	39	39
July	1,569	1,568	92	-22	2	1,680	1,679	38	38
August	1,539	1,538	112	31	10	1,610	1,616	39	39
September October	1,552 1.495	1,552 1.495	111 171	40 36	22 17	1,601 1,614	1,609 1,629	41 42	41 42
November	1,543	1,543	117	33	12	1,616	1,615	43	43
December	1,548	1,547	75	-113	30	1,706	1,722	39	39
Average	1,514	1,514	107	-8	15	1,614	1,621	39	39
2003 January	1,495	1,495	94	46	36	1,507	1,505	41	41
February	1,416	1,416	109	-74	19 34	1,581	1,581	39 37	39 37
March April	1,422 1,445	1,430 1,445	117 106	-62 -4	34 34	1,567 1,521	1,575 1,520	36	37 36
May	1,443	1,484	122	117	19	1,470	1,470	40	40
June	1,393	1,393	119	-60	7	1,565	1,565	38	38
July	1,491	1,491	126	-2	12	1,607	1,606	38	38
August	1,551	1,551	129	12	7	1,661	1,661	39	39
September October	1,514 1,510	1,513 1,510	136 103	49 4	20 28	1,581 1,580	1,581 1,580	40 40	40 40
November	1,510	1,522	46	-73	10	1,631	1,631	38	38
December	1,605	1,605	101	24	18	1,664	1,663	39	39
Average	1,488	1,489	109	-1	20	1,578	1,578	39	39
2004 January	1,484	1,484	77	33	22	1,507	1,506	40	40
February	1,462	1,462	93	-116	19	1,651	1,651	36	36
March	1,505	1,505	70	-24	39	1,560	1,560	36	36
April Mav	1,497 1,543	1,497 1,543	77 158	-19 97	19 30	1,574 1,574	1,574 1,574	35 38	35 38
June	1,532	1,532	165	23	28	1,647	1,647	39	39
July	1,628	1,628	96	63	10	1,651	1,651	41	41
August	1,650	1,650	142	36	52	1,704	1,704	42	42
September	1,553	1,553	84	-18	77	1,577	1,577	41	41
October	R 1,498 E 1,577	R 1,498 E 1,577	^R 151 ^E 143	^R -32 ^E 42	^R 51 ^E 38	R 1,630	R 1,630	40 E 41	40 E 41
November 11-Month Average	E 1 ,577	E 1,577 E 1,539	E 114 3	- 42 E 8	E 35	E 1,640 E 1,610	E 1,640 E 1,610	E 41	= 41 = 41
2003 11-Month Average	1,477	1,478	110	-3	21	1,570	1,570	38	38

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

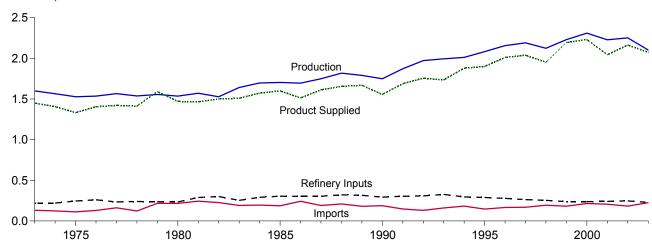
Web Page: http://www.eia.doe.gov/emeu/mer/petro.html.
Sources: • 1973-1991: Energy Information Administration (EIA),
Petroleum Supply Annual 1992, Volume 1, May 1993, Table S7. • 1992
forward: EIA, Petroleum Supply Monthly, December 2004, Table S7.

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

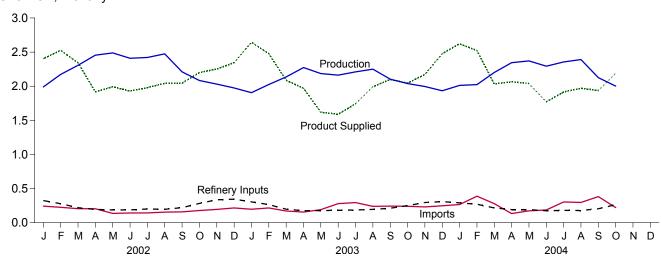
Figure 3.6 Liquefied Petroleum Gases

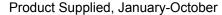
(Million Barrels per Day, Except as Noted)

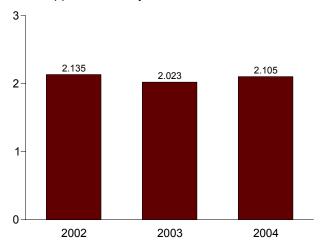
Overview, 1973-2003



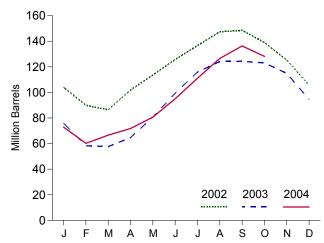
Overview, Monthly







Stocks, End of Month



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

Web Page: http://www.eia.doe.gov/emeu/mer/petro.html. Source: Table 3.8.

Table 3.8 Liquefied Petroleum Gases Supply and Disposition

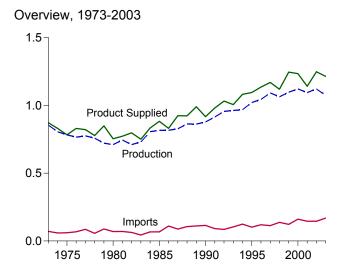
	Sup	pply		Dispo	sition		
	Total Production	Imports	Stock Change ^a	Refinery Inputs	Exports	Product Supplied	Stocksb
			Thousand Ba	arrels per Day			Million Barrels
1973 Average 1974 Average 1975 Average 1976 Average 1977 Average 1978 Average 1979 Average 1980 Average 1980 Average 1982 Average 1982 Average 1984 Average 1985 Average 1986 Average 1986 Average 1987 Average	1,600 1,565 1,527 1,535 1,566 1,537 1,556 1,535 1,571 d 1,527 1,642 1,697 1,704 1,695 1,748	132 123 112 130 161 123 217 216 244 226 190 195 187 242 190	35 38 35 -24 55 -12 -12 -70 27 -18 -111 -4 -19 -75 80 -15	220 220 246 260 233 239 236 233 289 300 253 291 304 302 304	27 25 26 25 18 20 15 21 42 65 73 48 62 42 42	1,449 1,406 1,333 1,404 1,422 1,413 1,592 1,469 1,466 1,499 1,509 1,572 1,599 1,512 1,612	99 °113 125 116 136 °132 111 °120 135 °94 °101 101 74 103 97 97
1989 Average 1991 Average 1992 Average 1993 Average 1994 Average 1995 Average 1995 Average 1997 Average 1998 Average 1998 Average 1900 Average 2000 Average	1,791 1,749 1,871 1,972 1,993 2,012 2,082 2,156 2,190 2,124 2,230 2,310 2,228	181 188 147 131 160 183 146 166 169 194 182 215 206	-47 48 -15 -10 49 -19 -17 -19 70 -71 -19	315 293 304 309 327 296 289 278 263 253 238 238 241	35 40 41 49 43 38 58 51 50 42 50 74	1,668 1,556 1,689 1,755 1,734 1,880 1,899 2,012 2,038 1,952 2,195 2,231 2,044	80 98 92 89 106 99 93 86 89 115 89
2002 January	1,990 2,173 2,306 2,455 2,488 2,409 2,421 2,475 2,210 2,083 2,030 1,974 2,252	242 225 204 203 136 141 142 154 158 178 195 216 183	-546 -500 -115 516 379 403 353 347 36 -307 -458 -630 - 42	323 277 218 194 186 187 199 195 220 282 334 344 247	52 96 64 32 67 31 33 46 67 85 98 131	2,403 2,525 2,343 1,916 1,992 1,929 1,979 2,041 2,045 2,201 2,251 2,345 2,163	104 90 86 102 114 126 137 147 149 139 125 106
2003 January February March April May June July August September October November December Average	1,905 2,025 2,136 2,274 2,186 2,162 2,210 2,250 2,104 2,038 1,995 1,934 2,102	197 216 171 156 191 279 294 239 242 240 231 246 225	-960 -632 -20 235 514 628 530 266 6 -41 -271 -660	304 265 197 175 176 179 186 194 212 249 295 307 228	113 130 43 51 67 45 47 36 29 25 31 56	2,645 2,478 2,087 1,970 1,619 1,589 1,742 1,993 2,098 2,045 2,171 2,477 2,074	76 58 58 65 81 99 116 124 124 123 115 94
2004 January	2,011 2,023 2,201 2,345 2,371 2,293 2,355 2,391 2,125 2,001 2,213	266 388 278 134 173 186 304 297 382 221 262	-693 -438 205 173 287 480 515 502 323 -261 111	291 270 215 192 191 174 179 178 203 263 215	58 57 26 49 29 54 48 39 44 30 43	2,622 2,522 2,033 2,065 2,039 1,771 1,916 1,970 1,937 2,190 2,105	73 60 67 72 81 95 111 127 136 128 128
2003 10-Month Average 2002 10-Month Average	2,130 2,302	222 178	57 60	213 228	58 57	2,023 2,135	123 139

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

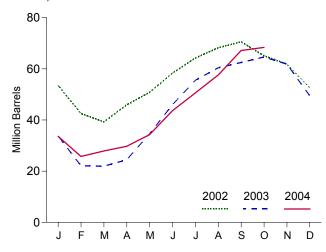
Web Page: http://www.eia.doe.gov/emeu/mer/petro.html.
Sources: • 1973-1991: Energy Information Administration (EIA),
Petroleum Supply Annual 1992, Volume 1, May 1993, Table S8. • 1992
forward: EIA, Petroleum Supply Monthly, December 2004, Table S9.

Figure 3.7 Propane and Propylene

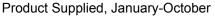
(Million Barrels per Day, Except as Noted)

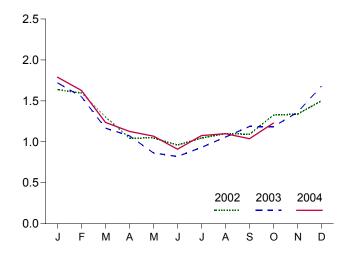


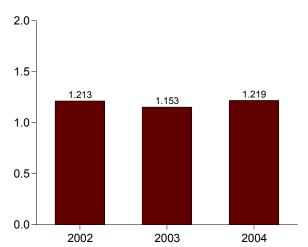
Stocks, End of Month



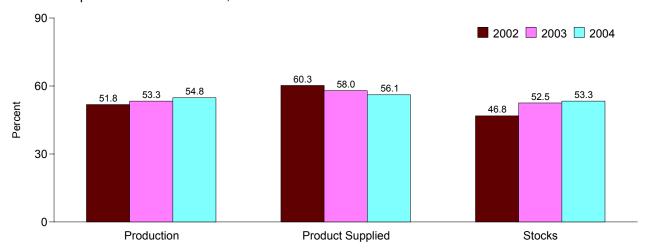
Product Supplied, Monthly







Share of Liquefied Petroleum Gases, October



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

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

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

Total Production Imports Change Thous	Disposition						
1973 Average		Exports	Product Supplied	Stocksb			
1974 Average	and Barrels per Day			Million Barre			
975 Average 783 60 39 975 Average 776 66 68 -22 977 Average 776 66 68 -22 977 Average 775 86 21 978 Average 775 86 21 978 Average 775 86 21 979 Average 775 86 71 980 Average 771 88 °-61 981 Average 7745 70 °18 981 Average 7711 63 -59 982 Average 7711 63 -59 983 Average 7711 63 -59 983 Average 7711 63 -59 984 Average 806 67 °7 985 Average 816 67 °7 985 Average 817 110 64 986 Average 863 106 77 987 Average 863 106 77 989 Average 863 106 77 999 Average 878 115 48 988 Average 965 85 -24 990 Average 965 85 -24 991 Average 963 103 34 994 Average 969 124 -13 993 Average 969 124 -13 995 Average 1,021 102 -10 996 Average 1,021 102 -10 997 Average 1,021 102 -10 998 Average 1,092 113 33 999 Average 1,095 145 67 000 Average 1,122 161 5-5 000 Average 1,122 161 5-5 000 Average 1,123 101 22 February 1,114 179 391 March 1,114 179 391 March 1,135 157 222 May 1,159 87 157 June 1,133 101 255 Average 1,091 131 78 Average 1,091 131 79 Average 1,091 131 95 Average 1,	8	15	872	65			
1975 Average 783 60 36 1976 Average 7766 68 2-22 1977 Average 7766 68 2-22 1977 Average 775 86 21 1978 Average 775 86 57 15 1979 Average 775 86 52 1980 Average 7711 69 4 1981 Average 7711 69 4 1982 Average 7711 63 -59 1982 Average 7711 63 -59 1983 Average 7711 63 -59 1983 Average 7711 63 -59 1984 Average 7730 44 6-24 1984 Average 806 67 67 67 1986 Average 816 67 -50 1986 Average 817 110 64 1986 Average 828 88 -44 1987 Average 828 88 -44 1988 Average 862 1111 -52 1999 Average 915 91 -3 1999 Average 956 85 -24 1993 Average 963 103 34 1999 Average 963 103 34 1995 Average 969 124 -13 1995 Average 969 124 -13 1995 Average 1,004 119 (s) 1997 Average 1,004 117 56 1999 Average 1,004 117 56 1999 Average 1,007 122 -59 2000 Average 1,122 161 -5 2000 Average 1,122 161 -5 2000 Average 1,124 116 128 2000 Average 1,125 161 -5 2000 Average 1,095 145 67 2000 January 1,082 201 -396 Average 1,095 145 67 2000 January 1,144 179 391 March 1,114 179 391 March 1,135 157 222 May 1,159 87 157 June 1,133 101 252 2000 Average 1,091 131 78 2000 Average 1,091 131 78 2000 Average 1,091 131 78 2000 Average 1,095 145 67 2000 January 1,082 201 -396 Representation 1,095 135 67 2000 January 1,082 201 -396 Average 1,091 131 78 Average 1,091 131 79 Average 1,091 131 131 79 Average 1,091 131 131 79 Average 1,091 131 131 79 Average		14	830	69			
1976 Average 766 68 -22 1977 Average 775 86 21 1978 Average 775 86 21 1978 Average 775 88 57 15 1979 Average 721 88 6 61 1981 Average 745 70 6 18 1981 Average 745 70 6 18 1982 Average 7711 63 63 1982 Average 730 44 6 62 1983 Average 806 67 67 67 1985 Average 816 67 65 1985 Average 816 67 65 1985 Average 817 110 64 1987 Average 883 106 7 1987 Average 883 106 7 1988 Average 882 88 -41 1988 Average 883 106 7 1999 Average 878 115 48 1999 Average 956 85 24 1991 Average 969 124 -13 1992 Average 969 124 -13 1993 Average 1,021 102 -10 1996 Average 1,044 119 (s) 1997 Average 1,097 122 -59 2000 Average 1,097 122 -59 2000 Average 1,097 122 -59 2000 Average 1,114 179 -391 Average 1,114 179 -391 Average 1,121 147 -100 2000 Average 1,122 161 -55 2001 Average 1,133 101 252 2001 Average 1,143 170 -10 April 1,135 157 222 May 1,159 87 157 June 1,133 101 252 Average 1,091 131 78 Average 1,091 131 79 Average 1,091 131 79 Average 1,091 131 79 Average 1,091 131 145 -36 Average 1,097 122 139 399 Average 1,097 122 139 399 Average 1,097 122 139 399 Average 1,097 139 399 270 Average 1,094 152 312 399 Average 1,094 152		13	783	82			
1977 Average		13	830	74			
1978 Average 758 57 15 1980 Average 721 88 0-61 1980 Average 721 69 41 1981 Average 745 70 61 1981 Average 745 70 61 1982 Average 730 44 0-24 1983 Average 806 67 0-7 1985 Average 816 67 0-5 1986 Average 816 67 0-5 1985 Average 817 110 64 1987 Average 828 88 -41 1987 Average 862 111 0-52 1988 Average 862 111 0-52 1998 Average 956 85 0-24 1999 Average 956 85 0-24 1991 Average 969 124 0-13 1995 Average 1,021 102 0-10 1996 Average 1,044 119 (s) 1997 Average 1,044 119 (s) 1998 Average 1,082 113 3 1999 Average 1,097 122 0-59 1000 Average 1,122 161 0-5 1000 Average 1,114 179 0-39 1000 Average 1,114 179 0-39 February 1,114 179 0-39 March 1,135 157 222 May 1,159 87 157 June 1,133 101 252 Average 1,091 131 76 October 1,080 144 179 Average 1,091 131 77 October 1,080 144 179 Average 1,121 145 0-36 Average 1,097 129 0-90 February 1,114 179 0-90 Average 1,127 190 0-90 Average 1,127 190 0-90 Average 1,097 129 0-90 February 1,114 179 0-90 Average 1,097 129 0-90 February 1,114 179 0-90 Average 1,097 129 0-90 Average 1,097 131 79 October 1,080 144 176 Average 1,097 139 3-29 Average 1,097 187 187 Average 1,097 190 309 0-270 Average 1,097 1,006 128 147 June 1,094 152 311 Average 1,094 152 311 Average 1,094 152 311 Average 1,094 152		10	821	81			
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980 Average		8	849	64			
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982 Average 711 63 -55 983 Average 730 44 0-24 984 Average 806 67 -7 985 Average 816 67 -50 986 Average 817 110 64 987 Average 863 106 7 989 Average 863 106 7 989 Average 863 106 7 989 Average 878 115 48 991 Average 956 85 -24 992 Average 968 103 33 994 Average 969 124 -13 995 Average 969 124 -13 995 Average 969 124 -13 996 Average 1,021 102 -10 996 Average 1,044 119 (a) 997 Average 1,092 113 3 997 Average 1,092 113 3 998 Average 1,095 165 -50 000 Average 1,097 122 -59 000 Average 1,122 161 -5 001 Average 1,135 157 222 May 1,159 87 157 June 1,135 157 222 May 1,159 87 157 June 1,133 101 252 July 1,137 120 190 August 1,142 116 128 September 1,091 131 7 Average 1,121 145 -36 003 January 1,086 181 -417 November 1,127 193 229 Average 1,129 166 133 44 April 1,143 170 -108 August 1,142 116 129 September 1,091 131 7 Average 1,127 193 229 Average 1,127 193 229 Average 1,127 193 229 Average 1,127 193 229 August 1,142 116 129 September 1,091 131 7 Average 1,127 193 229 Average 1,128 224 Average 1,129 Average 1,129 Average 1,129 Average 1,129 Average	5 5	18	773	76			
983 Average 730 44 0-22 984 Average 806 67 0-7 985 Average 816 67 0-7 985 Average 816 67 0-7 985 Average 817 110 64 986 Average 828 88 0-41 988 Average 863 106 7 989 Average 862 111 0-52 990 Average 975 91 0-3 991 Average 975 91 0-3 992 Average 965 85 0-24 993 Average 966 85 0-24 993 Average 966 85 0-24 994 Average 966 85 0-24 995 Average 966 85 0-24 995 Average 969 124 0-13 995 Average 969 124 0-13 995 Average 1,021 102 0-10 996 Average 1,044 119 (s) 997 Average 1,092 113 0-3 998 Average 1,064 137 0-56 999 Average 1,097 122 0-15 999 Average 1,097 122 0-15 900 Average 1,122 161 0-5 000 Average 1,122 161 0-5 000 Average 1,122 161 0-5 001 Average 1,095 145 0-7 002 January 1,082 201 0-396 February 1,114 179 0-391 March 1,111 147 0-106 April 1,135 157 222 May 1,159 87 157 June 1,133 101 252 July 1,137 120 190 August 1,142 116 129 September 1,091 131 78 Average 1,1081 131 78 Average 1,121 145 0-36 003 January 1,045 165 0-606 February 1,068 181 0-417 November 1,143 170 0-109 Average 1,093 182 70 October 1,080 144 0-17 November 1,143 170 0-109 Average 1,1070 139 3-29 Average 1,1071 1081 9-5 83 May 1,073 139 327 June 1,081 9-5 83 May 1,073 139 327 June 1,048 179 330 July 1,056 200 307 August 1,070 163 157 September 1,093 182 70 October 1,080 144 179 380 July 1,056 200 307 August 1,070 163 157 September 1,093 182 70 October 1,080 144 0-176 November 1,115 213 0-399 Average 1,075 168 0-8 OO4 January 1,099 309 0-270 March 1,096 128 147 June 1,094 June 1,094 June 1,094 June 1,095 152 312 July 1,106 128 147 June 1,094 June 1,094 June 1,094 June 1,095 September 1,093 3182 September 1,099 309 0-270 March 1,106 128 147 June 1,094 June 1,095 September 1,099 September 1,109 June 1,094 September 1,109 Septe		31	798	° 54			
884 Average 806 67 -50 885 Average 816 67 -50 886 Average 817 110 64 887 Average 828 88 -41 888 Average 862 111 -52 989 Average 962 111 -52 991 Average 915 91 -3 991 Average 966 85 -24 993 Average 963 103 34 994 Average 969 124 -13 995 Average 1,021 102 -10 995 Average 1,092 113 3 999 Average 1,097 122 -59 900 Average 1,122 161 -5 999 Average 1,097 122 -59 900 Average 1,122 161 -5 900 Average 1,122 161 -5 900 Average 1,122 161 -5 900 Average		43	751	c 48			
885 Average 816 67 -50 987 Average 817 110 64 987 Average 828 88 -41 988 Average 863 106 7 990 Average 878 115 -48 991 Average 915 91 -3 992 Average 956 85 -24 993 Average 963 103 34 994 Average 969 124 -13 995 Average 1,021 102 -10 995 Average 1,044 119 (s) 995 Average 1,092 113 3 998 Average 1,097 122 -59 900 Average 1,097 122 -59 900 Average 1,095 145 67 900 Average 1,095 145 67 900 Average 1,097 122 -59 900 Average 1,097 122 -59 900 Average		30	833	58			
986 Average		48	883	39			
987 Average		28	831	63			
988 Average							
889 Average 862 111 -52 891 Average 878 115 48 891 Average 915 91 -3 992 Average 956 85 -24 993 Average 969 124 -13 995 Average 1,021 102 -10 996 Average 1,044 119 (s) 997 Average 1,092 113 3 998 Average 1,064 137 56 999 Average 1,097 122 -59 900 Average 1,122 161 -5 900 Average 1,095 145 67 900 Average 1,122 161 -5 900 Average 1,122 161 -5 900 Average <td></td> <td>24</td> <td>924</td> <td>48</td>		24	924	48			
990 Average 915 91 -3 991 Average 915 91 -3 992 Average 956 85 -24 993 Average 963 103 34 994 Average 969 124 -13 995 Average 969 124 -13 995 Average 1,021 102 -10 996 Average 1,044 119 (s) 997 Average 1,092 113 3 998 Average 1,092 113 5 998 Average 1,097 122 -59 000 Average 1,097 122 -59 000 Average 1,095 145 67 002 January 1,082 201 -396 February 1,114 179 -391 March 1,111 147 -106 April 1,135 157 222 May 1,159 87 157 June 1,133 101 252 July 1,137 120 190 August 1,142 116 129 September 1,091 131 78 October 1,080 144 -176 November 1,143 170 -109 December 1,127 193 -299 Average 1,121 145 -36 003 January 1,068 181 -417 March 1,121 145 -36 003 January 1,068 181 -417 March 1,060 133 -4 April 1,081 95 83 May 1,073 139 327 June 1,048 179 380 July 1,073 139 327 June 1,048 179 380 July 1,070 163 157 September 1,090 173 139 327 June 1,048 179 380 July 1,076 200 307 August 1,070 163 157 September 1,090 193 182 70 October 1,087 187 68 November 1,090 193 182 70 October 1,087 187 68 November 1,093 182 70 October 1,087 187 68 November 1,099 309 -270 March 1,099 309 -270 March 1,099 309 -270 March 1,106 128 147 June 1,094 152 July 1,108 214 224 August 1,108 215 226 September 1,079 303 303 319		31	923	50			
91 Average 915 91 -3 92 Average 956 85 -24 93 Average 963 103 34 94 Average 969 124 -13 95 Average 1,021 102 -10 96 Average 1,044 119 (s) 97 Average 1,092 113 3 98 Average 1,092 113 3 99 Average 1,097 122 -59 00 Average 1,1097 122 -59 00 Average 1,122 161 -5 01 Average 1,095 145 67 02 January 1,082 201 -396 February 1,114 179 -391 March 1,111 147 -106 April 1,135 157 222 May 1,159 87 157 June 1,133 101 252 July 1,137 120 190 August 1,142 116 129 September 1,091 131 78 October 1,080 144 -176 November 1,143 170 -109 December 1,143 170 -109 December 1,127 193 -299 Average 1,121 145 -36 03 January 1,045 165 -606 February 1,068 181 -417 March 1,060 133 -4 April 1,081 95 83 May 1,073 139 327 June 1,045 165 -606 February 1,068 181 -417 March 1,060 133 -49 Average 1,121 145 -36 03 January 1,045 165 -606 February 1,068 181 -417 March 1,060 133 -49 Average 1,121 145 -36 04 January 1,073 139 327 June 1,048 179 380 July 1,073 139 327 June 1,048 179 380 July 1,075 168 -8 May 1,073 139 327 Average 1,110 181 -95 Robert 1,099 309 -270 Robert 1,110 181 -92 February 1,099 309 -270 March 1,105 221 68 April 1,116 95 61 May 1,106 128 147 June 1,094 152 312 July 1,108 214 224 August 1,109 303 319		24	990	32			
192 Average 956 85 -24 193 Average 963 103 34 194 Average 969 124 -13 195 Average 1,021 102 -10 196 Average 1,044 119 (s) 197 Average 1,084 137 56 198 Average 1,097 122 -59 190 Average 1,097 122 -59 100 Average 1,1097 122 -59 101 Average 1,095 145 67 102 January 1,082 201 -396 103 February 1,114 179 -391 March 1,111 147 -106 April 1,135 157 222 May 1,159 87 157 June 1,133 101 252 July 1,137 120 130 August 1,142 116 128 September 1,091 131 78 October 1,080 144 -176 November 1,143 170 -109 December 1,127 193 -299 Average 1,021 145 -36 103 January 1,045 165 -606 February 1,068 181 -417 March 1,060 133 -4 April 1,081 95 83 May 1,073 139 327 June 1,048 179 380 July 1,056 200 307 August 1,070 163 157 September 1,093 182 70 October 1,087 187 69 November 1,110 181 -92 August 1,070 163 157 September 1,093 182 70 October 1,087 187 69 November 1,110 181 -92 August 1,070 163 157 September 1,093 382 70 October 1,087 187 69 November 1,110 181 -92 Average 1,075 168 80 Average 1,075 168 80 Average 1,094 152 312 July 1,106 128 147 June 1,094 152 312 July 1,106 128 147 June 1,094 152 312 July 1,108 214 224 August 1,109 303 316 August 1,108 214 224 August 1,109 303 303 316 July 1,108 214 224 August 1,107 303 303 316 September 1,079 303 303		28	917	49			
993 Average 963 103 34 994 Average 969 124 -13 995 Average 1,021 102 -10 996 Average 1,021 102 -10 996 Average 1,044 119 (s) 997 Average 1,092 113 3 998 Average 1,097 122 -58 999 Average 1,097 122 -58 000 Average 1,1097 122 -58 001 Average 1,095 145 67 002 January 1,082 201 -396 February 1,114 179 -391 March 1,111 147 -106 April 1,35 157 222 May 1,159 87 157 June 1,133 101 252 July 1,137 120 190 August 1,142 116 129 September 1,091 131 78 October 1,080 144 -176 November 1,143 170 -109 December 1,127 193 -299 Average 1,121 145 -36 103 January 1,068 181 -417 March 1,060 133 -4 April 1,081 95 83 May 1,073 139 327 Average 1,121 145 -36 February 1,068 181 -417 March 1,060 133 -4 April 1,081 95 83 May 1,073 139 327 June 1,048 179 380 June 1,048 179 380 August 1,070 163 157 September 1,093 182 70 Cotober 1,080 194 179 380 August 1,070 163 157 September 1,093 182 70 Cotober 1,087 187 69 November 1,110 181 95 R3 May 1,073 139 June 1,048 179 380 August 1,070 163 157 September 1,093 182 70 Cotober 1,087 187 69 November 1,110 181 95 R3 May 1,073 139 August 1,070 163 157 September 1,093 182 70 Cotober 1,087 187 69 November 1,110 181 95 R6 P6 November 1,110 181 95 R7 February 1,099 309 -270 March 1,105 221 68 April 1,116 95 61 May 1,106 128 147 June 1,094 152 312 July 1,108 214 224 August 1,1079 303 303 319		28	982	48			
194 Average 969 124 -13 195 Average 1,021 102 -10 196 Average 1,044 119 (s) 197 Average 1,092 113 3 3 198 Average 1,092 113 3 3 198 Average 1,097 122 -59 100 Average 1,097 122 -59 100 Average 1,095 145 67 101 Average 1,095 145 67 101 Average 1,095 145 67 102 January 1,082 201 -396 102 January 1,082 201 -396 102 January 1,114 179 -391 114 179 -391 114 179 114 179 115 114 179 115		33	1,032	39			
1,021 102 -10 196 Average		26	1,006	51			
96 Average		24	1,082	46			
97 Average	0	38	1,096	43			
197 Average 1,092 113 3 198 Average 1,064 137 56 199 Average 1,097 122 -59 100 Average 1,122 161 -5 101 Average 1,095 145 67 102 January 1,082 201 -396 February 1,114 179 -391 March 1,111 147 -106 April 1,135 157 222 May 1,159 87 157 June 1,133 101 252 June 1,133 101 252 July 1,137 120 190 August 1,142 116 128 September 1,091 131 78 October 1,080 144 -176 November 1,143 170 119 Average 1,121 145 -36 103 January 1,045 165 -606 February 1,068 181 -417	0	28	1,136	43			
1988 Average 1,064 137 56 1999 Average 1,097 122 -59 100 Average 1,122 161 -5 100 Average 1,095 145 67 102 January 1,082 201 -396 February 1,114 179 -391 March 1,111 147 -106 April 1,135 157 222 May 1,159 87 157 June 1,133 101 252 July 1,137 120 190 August 1,142 116 129 September 1,091 131 78 October 1,080 144 -176 November 1,143 170 -109 December 1,127 193 -299 Average 1,121 145 -36 003 January 1,045 165 -606 February 1,068 181 -417 March 1,060 133 -4 <td>0</td> <td>32</td> <td>1,170</td> <td>44</td>	0	32	1,170	44			
1999 Average 1,097 122 -58 1000 Average 1,122 161 -55 101 Average 1,095 145 67 1002 January 1,082 201 -396 February 1,114 179 -391 March 1,111 147 -106 April 1,135 157 222 May 1,159 87 157 June 1,133 101 252 July 1,137 120 190 August 1,142 116 129 September 1,091 131 78 October 1,080 144 -176 November 1,143 170 -109 December 1,127 193 -298 Average 1,121 145 -36 103 January 1,045 165 -606 February 1,068 181 -417 March 1,060 133 -4 April 1,081 95 83	0	25	1,120	65			
1,00 Average 1,122 161 -5 101 Average 1,095 145 67 102 January 1,082 201 -396 February 1,114 179 -391 March 1,111 147 -106 April 1,135 157 222 May 1,159 87 157 June 1,133 101 252 July 1,137 120 190 August 1,142 116 129 September 1,091 131 78 October 1,080 144 -176 November 1,143 170 -109 December 1,127 193 -299 Average 1,121 145 -36 103 January 1,045 165 -606 February 1,068 181 -417 March 1,060 133 -4 April 1,048 179 <td>0</td> <td>33</td> <td>1,246</td> <td>43</td>	0	33	1,246	43			
001 Average 1,095 145 67 002 January 1,082 201 -396 February 1,114 179 -391 March 1,111 147 -106 April 1,135 157 222 May 1,159 87 157 June 1,133 101 252 July 1,137 120 190 August 1,142 116 129 September 1,091 131 78 October 1,080 144 -176 November 1,143 170 -109 December 1,127 193 -299 Average 1,121 145 -36 103 January 1,045 165 -606 February 1,068 181 -417 March 1,060 133 -4 April 1,048 179 386 July 1,056 200		53	1,235	41			
February 1,114 179 -391 March 1,111 147 -106 April 1,135 157 222 May 1,159 87 157 June 1,133 101 252 July 1,137 120 190 August 1,142 116 128 September 1,091 131 78 October 1,080 144 -176 November 1,143 170 -109 December 1,127 193 -298 Average 1,121 145 -36 103 January 1,068 181 -417 March 1,068 181 -417 March 1,060 133 -4 April 1,081 95 83 May 1,073 139 327 June 1,048 179 38 July 1,056 200 307		31	1,142	66			
March 1,111 147 -106 April 1,135 157 222 May 1,159 87 157 June 1,133 101 252 July 1,137 120 190 August 1,142 116 129 August 1,091 131 78 October 1,080 144 176 November 1,143 170 -109 December 1,127 193 -299 Average 1,121 145 -36 103 January 1,045 165 -606 February 1,068 181 -417 March 1,060 133 -4 April 1,081 95 83 May 1,073 139 327 June 1,048 179 380 July 1,056 200 307 August 1,070 163 157 <td></td> <td>42</td> <td>1,636</td> <td>53</td>		42	1,636	53			
April 1,135 157 222 May 1,159 87 157 June 1,133 101 252 July 1,137 120 190 August 1,142 116 128 September 1,091 131 78 October 1,080 144 -176 November 1,143 170 -109 December 1,127 193 -299 Average 1,121 145 -36 O03 January 1,045 165 -606 February 1,068 181 -417 March 1,060 133 -4 April 1,081 95 83 May 1,073 139 327 June 1,048 179 380 July 1,056 200 307 August 1,070 163 157 September 1,093 182 70	0	87	1,597	43			
May 1,159 87 157 June 1,133 101 252 July 1,137 120 190 August 1,142 116 128 September 1,091 131 78 October 1,080 144 -176 November 1,143 170 -109 December 1,127 193 -299 Average 1,121 145 -36 003 January 1,045 165 -606 February 1,068 181 -417 March 1,060 133 -4 April 1,081 95 83 May 1,073 139 327 June 1,048 179 38 July 1,056 200 307 August 1,070 163 157 September 1,093 182 70 October 1,087 187 69	6 0	60	1,304	39			
May 1,159 87 157 June 1,133 101 252 July 1,137 120 190 August 1,142 116 128 September 1,091 131 78 October 1,080 144 -176 November 1,143 170 -109 December 1,127 193 -299 Average 1,121 145 -36 003 January 1,045 165 -606 February 1,068 181 -417 March 1,060 133 -4 April 1,081 95 83 May 1,073 139 327 June 1,048 179 38 July 1,056 200 307 August 1,070 163 157 September 1,093 182 70 October 1,087 187 69	2 0	25	1,046	46			
June 1,133 101 252 July 1,137 120 190 August 1,142 116 129 September 1,091 131 78 October 1,080 144 -176 November 1,143 170 -109 December 1,127 193 -299 Average 1,121 145 -36 103 January 1,045 165 -606 February 1,068 181 -417 March 1,060 133 -4 April 1,081 95 83 May 1,073 139 327 June 1,048 179 380 July 1,056 200 307 August 1,070 163 157 September 1,087 187 69 November 1,110 181 -92 October 1,087 187 69		43	1,046	51			
July 1,137 120 190 August 1,142 116 128 September 1,091 131 78 October 1,080 144 -176 November 1,143 170 -109 December 1,127 193 -299 Average 1,121 145 -36 103 January 1,045 165 -606 February 1,068 181 -417 March 1,060 133 -4 April 1,081 95 83 May 1,073 139 327 June 1,048 179 380 July 1,056 200 307 August 1,070 163 157 September 1,093 182 70 October 1,087 187 68 November 1,110 181 -92 December 1,115 213 <td< td=""><td></td><td>23</td><td>960</td><td>58</td></td<>		23	960	58			
August 1,142 116 128 September 1,091 131 78 October 1,080 144 -176 November 1,143 170 -109 December 1,127 193 -299 Average 1,121 145 -36 103 January 1,045 165 -606 February 1,068 181 -417 March 1,060 133 -4 April 1,081 95 83 May 1,073 139 327 June 1,048 179 38 July 1,056 200 307 August 1,070 163 157 September 1,093 182 70 October 1,087 187 69 November 1,110 181 -92 Average 1,075 168 -8 4 1,094 152 312 </td <td></td> <td>22</td> <td>1,045</td> <td>64</td>		22	1,045	64			
September 1,091 131 78 October 1,080 144 -176 November 1,143 170 -109 December 1,127 193 -298 Average 1,121 145 -36 103 January 1,045 165 -606 February 1,068 181 -417 March 1,060 133 -4 April 1,081 95 83 May 1,073 139 327 June 1,048 179 380 July 1,056 200 307 August 1,070 163 157 September 1,093 182 70 October 1,087 187 69 November 1,110 181 -92 December 1,115 213 -399 Average 1,075 168 -8 104 January 1,101 227		28	1,101	68			
October 1,080 144 -176 November 1,143 170 -109 December 1,127 193 -299 Average 1,121 145 -36 103 January 1,045 165 -606 February 1,068 181 -417 March 1,060 133 -4 April 1,081 95 83 May 1,073 139 327 June 1,048 179 380 July 1,056 200 307 August 1,070 163 157 September 1,093 182 70 October 1,087 187 68 November 1,110 181 -92 Average 1,075 168 -8 104 January 1,101 227 -509 March 1,005 221 68 April 1,116 95 <td< td=""><td></td><td>54</td><td>1,091</td><td>71</td></td<>		54	1,091	71			
November 1,143 170 -109 December 1,127 193 -299 Average 1,121 145 -36 103 January 1,068 181 -417 March 1,060 133 -4 April 1,081 95 83 May 1,073 139 327 June 1,048 179 38 July 1,056 200 307 August 1,070 163 157 September 1,093 182 70 October 1,087 187 69 November 1,110 181 -92 December 1,115 213 -399 Average 1,075 168 -8 104 January 1,101 227 -509 February 1,099 309 -270 March 1,105 221 68 April 1,116 95 <td< td=""><td></td><td>74</td><td>1,327</td><td>65</td></td<>		74	1,327	65			
December 1,127 193 -298 Average 1,121 145 -36 103 January 1,045 165 -606 February 1,068 181 -417 March 1,060 133 -447 March 1,081 95 83 May 1,073 139 327 June 1,048 179 38 July 1,056 200 307 August 1,070 163 157 September 1,093 182 70 October 1,087 187 69 November 1,110 181 -92 December 1,115 213 -399 Average 1,075 168 -8 104 January 1,101 227 -509 February 1,099 309 -270 March 1,105 221 68 April 1,116				62			
Average 1,121 145 -36 003 January 1,045 165 -606 February 1,068 181 -417 March 1,060 133 -4 April 1,081 95 83 May 1,073 139 327 June 1,048 179 380 July 1,056 200 307 August 1,070 163 157 September 1,093 182 70 October 1,087 187 68 November 1,110 181 -92 December 1,115 213 -399 Average 1,075 168 -8 104 January 1,101 227 -509 March 1,099 309 -270 March 1,05 221 68 April 1,116 95 61 May 1,106 128 147		85	1,337				
1,045		119	1,501	53			
February 1,068 181 -417 March 1,060 133 -4 April 1,081 95 83 May 1,073 139 327 June 1,048 179 380 July 1,056 200 307 August 1,070 163 157 September 1,093 182 70 October 1,087 187 68 November 1,110 181 -92 December 1,115 213 -399 Average 1,075 168 -8 104 January 1,101 227 -509 February 1,099 309 -270 March 1,105 221 68 April 1,116 95 61 May 1,106 128 147 June 1,094 152 312 July 1,108 214 224 <td>0</td> <td>55</td> <td>1,248</td> <td>53</td>	0	55	1,248	53			
March 1,060 133 4 April 1,081 95 83 May 1,073 139 327 June 1,048 179 38 July 1,056 200 307 August 1,070 163 157 September 1,093 182 70 October 1,087 187 69 November 1,110 181 -92 December 1,115 213 -399 Average 1,075 168 -8 104 January 1,101 227 -509 February 1,099 309 -270 March 1,105 221 68 April 1,116 95 61 May 1,106 128 147 July 1,108 214 224 July 1,108 214 224 August 1,135 215 226		95 116	1,720	34			
April 1,081 95 83 May 1,073 139 327 June 1,048 179 38 July 1,056 200 307 August 1,070 163 157 September 1,093 182 70 October 1,087 187 69 November 1,110 181 -92 December 1,115 213 -399 Average 1,075 168 -8 104 January 1,101 227 -509 February 1,099 309 -270 March 1,105 221 68 April 1,116 95 61 May 1,106 128 147 June 1,094 152 312 July 1,108 214 224 August 1,135 215 226 September 1,079 303 319 </td <td></td> <td>116</td> <td>1,551</td> <td>22</td>		116	1,551	22			
May 1,073 139 327 June 1,048 179 380 July 1,056 200 307 August 1,070 163 157 September 1,093 182 70 October 1,087 187 68 November 1,110 181 -92 December 1,115 213 -399 Average 1,075 168 -8 04 January 1,101 227 -509 February 1,099 309 -270 March 1,105 221 68 April 1,116 95 61 May 1,106 128 147 June 1,094 152 312 July 1,108 214 224 August 1,135 215 226 September 1,079 303 319		31	1,167	22			
June 1,048 179 386 July 1,056 200 307 August 1,070 163 157 September 1,093 182 70 October 1,087 187 69 November 1,110 181 -92 December 1,115 213 -399 Average 1,075 168 -8 04 January 1,101 227 -509 February 1,099 309 -270 March 1,105 221 68 April 1,116 95 61 May 1,106 128 147 June 1,094 152 312 July 1,108 214 224 August 1,135 215 226 September 1,079 303 319		20	1,072	24			
July 1,056 200 307 August 1,070 163 157 September 1,093 182 70 October 1,087 187 69 November 1,110 181 -92 December 1,115 213 -399 Average 1,075 168 -8 04 January 1,101 227 -509 February 1,099 309 -270 March 1,105 221 68 April 1,116 95 61 May 1,106 128 147 June 1,094 152 312 July 1,108 214 224 August 1,135 215 226 September 1,079 303 319		22	863	35			
August 1,070 163 157 September 1,093 182 70 October 1,087 187 68 November 1,110 181 -92 December 1,115 213 -399 Average 1,075 168 -8 04 January 1,101 227 -509 February 1,099 309 -270 March 1,105 221 68 April 1,116 95 61 May 1,106 128 147 June 1,094 152 312 July 1,108 214 224 August 1,135 215 226 September 1,079 303 319		27	820	46			
September 1,093 182 70 October 1,087 187 69 November 1,110 181 -92 December 1,115 213 -399 Average 1,075 168 -8 04 January 1,101 227 -509 February 1,099 309 -270 March 1,105 221 68 April 1,116 95 61 May 1,106 128 147 June 1,094 152 312 July 1,108 214 224 August 1,135 215 226 September 1,079 303 319		18	931	56			
October 1,087 187 69 November 1,110 181 -92 December 1,115 213 -399 Average 1,075 168 -8 04 January 1,101 227 -509 February 1,099 309 -270 March 1,105 221 68 April 1,116 95 61 May 1,106 128 147 June 1,094 152 312 July 1,108 214 224 August 1,135 215 226 September 1,079 303 319		19	1,058	60			
November 1,110 181 -92 December 1,115 213 -399 Average 1,075 168 -8 04 January 1,101 227 -509 February 1,099 309 -270 March 1,105 221 68 April 1,116 95 61 May 1,106 128 147 June 1,094 152 312 July 1,108 214 224 August 1,135 215 226 September 1,079 303 319		19	1,186	62			
November 1,110 181 -92 December 1,115 213 -399 Average 1,075 168 -8 04 January 1,101 227 -509 February 1,099 309 -270 March 1,105 221 68 April 1,116 95 61 May 1,106 128 147 June 1,094 152 312 July 1,108 214 224 August 1,135 215 226 September 1,079 303 319		20	1,185	65			
December 1,115 213 -399 Average 1,075 168 -8 04 January 1,101 227 -509 February 1,099 309 -270 March 1,105 221 68 April 1,116 95 61 May 1,106 128 147 June 1,094 152 312 July 1,108 214 224 August 1,135 215 226 September 1,079 303 319		24	1,360	62			
Average 1,075 168 -8 04 January 1,101 227 -509 February 1,099 309 -270 March 1,105 221 68 April 1,116 95 61 May 1,106 128 147 June 1,094 152 312 July 1,108 214 224 August 1,135 215 226 September 1,079 303 319		46	1,681	50			
February 1,099 309 -270 March 1,105 221 68 April 1,116 95 61 May 1,106 128 147 June 1,094 152 312 July 1,108 214 224 August 1,135 215 226 September 1,079 303 319	0	37	1,215	50			
March 1,105 221 68 April 1,116 95 61 May 1,106 128 147 June 1,094 152 312 July 1,108 214 224 August 1,135 215 226 September 1,079 303 313		49	1,789	34			
April 1,116 95 61 May 1,106 128 147 June 1,094 152 312 July 1,108 214 224 August 1,135 215 226 September 1,079 303 313		51	1,627	26			
May 1,106 128 147 June 1,094 152 312 July 1,108 214 224 August 1,135 215 226 September 1,079 303 319		21	1,236	28			
May 1,106 128 147 June 1,094 152 312 July 1,108 214 224 August 1,135 215 226 September 1,079 303 319		22	1,127	30			
June 1,094 152 312 July 1,108 214 224 August 1,135 215 226 September 1,079 303 319		19	1,069	34			
July 1,108 214 224 August 1,135 215 226 September 1,079 303 318		25	909	44			
August 1,135 215 226 September 1,079 303 319		22	1,076	51			
September		26	1,099	58			
		26	1,038	67			
1,007		25	1,229	68			
10-Month Average 1,104 206 62		28 28	1,219	68			
03 10-Month Average 1,068 162 40 02 10-Month Average 1,118 138 -2	0	38	1,153	65			

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.
 (s)=Less than 500 barrels per day.
 Note: Geographic coverage is the 50 States and the District of Columbia.
 Web Page: http://www.eia.doe.gov/emeu/mer/petro.html.

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

Table 3.10 Other Petroleum Products Supply and Disposition

	Sup	ply		Dispo	sition		
	Total Production	Imports	Stock Change ^a	Refinery Inputs	Exports	Products Supplied	Stocksb
			Thousand Ba	rrels per Day			Million Barrels
973 Average	2,833 2,722 2,547 2,725 2,939 3,076 3,141 2,957 2,771 2,475 2,437	290 269 144 129 130 80 116 130 188 305 382	1 25 ° -6 (s) 20 -12 24 15 ° -42 -68 ° -6	750 665 537 524 514 492 352 310 723 787 712	162 172 158 172 164 165 208 197 197 205 236	2,211 2,129 2,001 2,158 2,371 2,511 2,673 2,566 2,081 d 1,857 1,877	179 °188 188 188 195 191 200 °205 241 °216
983 Average 984 Average 985 Average 986 Average 987 Average 988 Average 989 Average 990 Average 991 Average 992 Average 993 Average 994 Average 995 Average 996 Average 997 Average 997 Average 998 Average 999 Average 999 Average 999 Average 999 Average	2,437 2,530 2,532 2,704 2,773 2,773 2,771 2,842 2,826 2,928 93,035 2,973 3,031 3,108 3,204 3,253 3,211 3,154 3,053	503 5503 5504 504 543 645 627 705 675 707 770 761 708 879 945 888 943 943 938	-32 -32 -22 -15 -1 22 -32 18 -3 -3 -2 24 -23 -11 30 18 -64 30 20	712 791 886 888 829 799 797 887 936 906 1,081 861 958 1,014 985 1,002 1,061 991	236 227 291 264 294 305 289 277 263 *300 329 348 376 402 380 338 429 434	2,007 1,947 2,045 2,187 2,303 2,285 2,402 2,409 2,470 92,426 2,518 2,457 2,608 2,733 2,741 2,819 2,642 2,681	206 201 200 208 213 201 208 207 206 215 206 202 213 219 196 207 214
Pool January February March April May June July August September October November December Average	2,931 3,005 3,072 3,178 3,140 3,225 3,295 3,312 3,261 3,039 3,109 3,071 3,137	1,079 993 1,123 1,097 1,322 1,162 1,246 1,088 1,078 969 1,014 844 1,085	268 45 277 -53 -64 -164 -100 -309 -45 -59 16 -307 -42	714 1,068 955 1,195 1,253 1,204 1,244 1,240 1,131 1,005 1,024 1,442 1,142 1,123	441 482 436 472 503 445 420 550 479 471 503 547 479	2,586 2,403 2,526 2,660 2,771 2,903 2,977 2,918 2,774 2,592 2,581 2,233 2,662	223 224 232 231 229 224 221 211 210 208 209 199
Reduction of the control of the cont	3,137 2,981 3,178 3,054 3,270 3,057 3,231 3,199 3,367 3,128 3,166 3,269 3,171	1,066 829 1,048 1,110 1,284 1,461 1,183 1,091 1,082 905 1,037 929 1,087	466 8 338 17 35 89 -291 -316 130 -223 184 -179 21	831 796 820 915 1,104 955 1,144 1,156 977 949 913 1,193	526 464 541 459 527 479 464 578 545 518 508 487 509	2,381 2,541 2,527 2,773 2,888 2,996 3,097 2,871 2,797 2,789 2,598 2,698 2,747	213 214 224 225 226 228 219 210 214 207 212 207
Peda January February March April May June July August September October 10-Month Average	2,883 2,945 3,129 2,998 3,163 3,142 3,298 3,251 3,085 3,154 3,106	1,056 1,246 1,417 1,246 1,229 1,316 1,451 1,465 1,327 1,320 1,308	550 543 109 -104 -48 -60 21 -149 -125 -256 46	646 601 1,165 1,232 1,122 902 1,056 1,085 1,111 1,360 1,030	400 554 538 531 465 499 597 516 385 514 500	2,343 2,492 2,734 2,584 2,853 3,116 3,074 3,265 3,041 2,855 2,837	223 239 242 239 238 236 237 232 228 220 220
2003 10-Month Average 2002 10-Month Average	3,162 3,146	1,108 1,117	25 -20	966 1,100	511 470	2,767 2,713	207 208

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

hydrocarbons and alcohol, unfinished oils, gasoline blending components, and all finished petroleum products except finished motor gasoline, distillate fuel oil, residual fuel oil, jet fuel, liquefied petroleum gases, and crude oil that is used as fuel. • Geographic coverage is the 50 States and the District of Columbia.

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

a A negative number indicates a decrease in stocks and a positive number indicates an increase.
b Stocks are at end of period.
c See Note 4 at end of section.
d See Note 6 at end of section.
e Beginning in 1993, other petroleum products production, exports, and products supplied include an adjustment to oxygenates and motor gasoline blending components.
(s)=Less than +500 barrels per day and greater than -500 barrels per day. Notes:
• Other petroleum products include pentanes plus, other

Petroleum

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

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

In 1991, the EIA conducted a frame identifier survey of companies that produce, blend, store, or import oxygenates. A summary of the results from the identification survey was published in the *Weekly Petroleum Status Report* dated February 12, 1992, and in the February 1992 issue of the *Petroleum Supply Monthly*. In order to continue to provide relevant information about U.S. and regional gasoline supply, the EIA conducted a second frame identifier survey of those companies during 1992. As a result, numerous respondents were added to the monthly surveys effective in January 1993. See Explanatory Note 7 in the *Petroleum Supply Monthly*.

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

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

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

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

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

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

Crude Oil: 1982—645 (Total) and 351 (Other Primary).

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

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

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

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

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

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

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

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

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

In January 1984, changes were made in the reporting of natural gas liquids. As a result, unfractionated stream, which was formerly included in the "Other Petroleum Products Supply and Disposition" table, is now reported on

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

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

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

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

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

Section 4. Natural Gas

Total dry natural gas production in the United States during September 2004 was estimated as 1.5 trillion cubic feet, 5 percent lower than production during September 2003.

Consumption of natural and supplemental gas in September 2004 was 1.5 trillion cubic feet, 5 percent higher than the level in September 2003.

Deliveries to residential consumers in September 2004 were 125 billion cubic feet, 2 percent lower than the previous September's deliveries. Total deliveries to industrial consumers during September 2004 were 649 billion cubic feet, 1 percent higher than the previous September's level. The electric power sector's use of natural gas in September

2004 was 509 billion cubic feet, 17 percent higher than the rate in September 2003.

Net imports of natural gas in September 2004 were estimated as 266 billion cubic feet, 2 percent lower than net imports in the previous September.

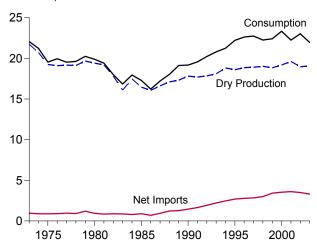
Stocks of working gas¹ in underground natural gas storage reservoirs at the end of September 2004 were 3,057 billion cubic feet, 8 percent higher than the level of stocks available 1 year earlier.

Net injections into underground storage during September 2004 were 325 billion cubic feet, 21 percent less than the amount of net injections during September 2003.

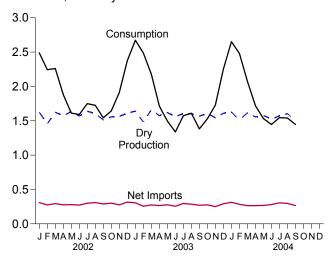
¹Gas available for withdrawal.

Figure 4.1 Natural Gas (Trillion Cubic Feet)

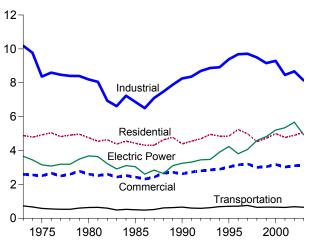
Overview, 1973-2003



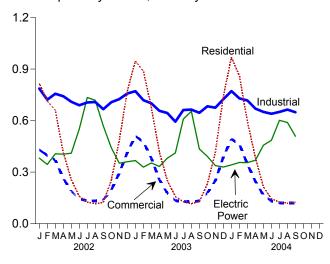
Overview, Monthly



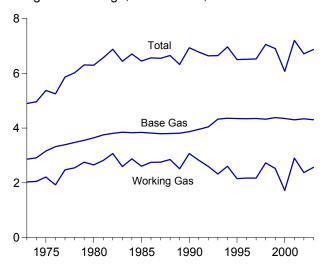
Consumption by Sector, 1973-2003



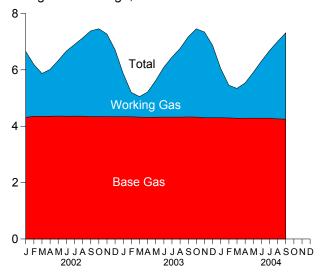
Consumption by Sector, Monthly



Underground Storage, End of Year, 1973-2003



Underground Storage, End of Month



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

Table 4.1 Natural Gas Overview

	Drv Gas	Supplemental Gaseous		Trade		Net	Balancing	
	Production ^a	Fuelsb	Imports	Exports	Net Imports	Withdrawals ^c	Item ^d	Consumptione
973 Total	^f 21,731	NA	1,033	77	956	-442	-196	22.049
974 Total	^f 20,713	NA	959	77	882	-84	-289	21,223
975 Total	f19,236	NA	953	73	880	-344	-235	19,538
976 Total	^f 19,098	NA	964	65	899	165	-216	19,946
977 Total	^f 19,163	NA	1,011	56	955	-557	-41	19,521
978 Total	¹ 19,122	NA	966	53	913	-120	-287	19,627
979 Total	^f 19,663	NA	1,253	56	1,198	-248	-372	20,241
980 Total	19,403	155	985	49	936	23	-640	19,877
981 Total	19,181	176	904	59	845	-297	-500	19,404
982 lotal	17,820	145	933	52	882	-308	d-537	18,001
983 Total	16,094	132	918	55	864	447	d-703	16,835
984 Total	17,466	110	843	55 EE	788 894	-197 235	-217	17,951 17,281
985 Total	16,454 16,059	126 113	950 750	55 61	689	-147	-428 -493	17,281
986 Total	16,621	101	993	54	939	-147 -6	-493 -444	17,211
987 Total		101	1,294	54 74	1.220	-6 59	-444 -453	18.030
988 Total 989 Total	17,103 17.311	107	1,294	107	1,220	326	-453 101	9 19.119
990 Total	17,811	123	1,532	86	1,447	-513	307	9 19,119
991 Total	17,610	113	1,773	129	1,644	-513 80	27	9 19,562
992 Total	17,840	118	2,138	216	1,921	173	176	9 20,228
993 Total	18,095	119	2,350	140	2,210	-36	401	20,790
994 Total	18,821	111	2,624	162	2,462	-286	139	21,247
995 Total	18,599	110	2,841	154	2,687	415	396	22,207
996 Total	18,854	109	2.937	153	2,784	2	860	22,610
997 Total	18.902	103	2.994	157	2.837	24	871	22,737
998 Total	19.024	102	3.152	159	2,993	-530	657	22,246
999 Total	18,832	98	3,586	163	3,422	172	-119	22,405
000 Total	19,182	90	3.782	244	3,538	829	-305	23,333
001 Total	19,616	86	3,977	373	3,604	-1,166	99	22,239
002 January	1,623	6	343	34	309	558	-8	2,488
February	1,455	6	306	30	276	474	33	2,243
March	1,624	6	333	38	294	327	9	2,260
April	1,573	5	315	39	276	-129	156	1,881
May	1,631	5	319	39	280	-330	26	1,612
June	1,569	5	318	45	273	-350	94	1,591
July	1,638	6	345	45	300	-248	54 44	1,749
August	1,607	6 5	356	47 47	310 289	-242	44 13	1,725 1.543
September October	1,511 1.558	5 6	336 343	47 42	301	-276 -89	-132	1,543
November	1,563	6	331	55	276	202	-137	1,911
December	1,612	7	371	55 55	316	572	-133	2,373
Total	18,964	68	4,015	516	3,499	468	19	23,018
			*		*			,
003 January February	E 1,638 E 1,483	E 6 E 6	365 314	60 59	305 255	841 676	^R -118 ^R 65	^R 2,673 ^R 2,485
March	E 1,660	E 5	329	55	275	136	R 101	R 2,176
April	⊑ 1,574	E 4	317	52	266	-158	R 27	R 1,713
May	<u> </u>	E 6	328	50	277	-412	6	1,497
June	E 1,558	E Š	310	54	256	-470	-12	1,337
Julv	E 1,606	E 6	345	50	296	-361	28	R 1,573
August	E 1,604	E 6	337	51	286	-309	R 23	R 1,609
September	E 1.568	E 5	326	55	271	-411	^R -51	R 1.382
October	E 1,605	E 5	336	61	275	-284	R -74	R 1,528
November	E 1.544	E 6	322	71	251	86	^R -160	R 1,728
December	E 1,609	Ĕ 6	367	76	291	473	R-129	R 2,250
Total	E 19,068	E 65	3,996	692	3,305	-193	R -295	R 21,949
004 January	E 1,627	E 6	372	58	314	811	-106	2,652
February	E 1,512	E 6	346	62	283	600	79	2,479
March	E 1,617	E 5 E 5	348	83	265	103	82	R 2,073
April	E 1,555	- 5 - 6	319	54 52	265	-198	92 ^R 59	1,719
May	RE 1,577	- 6 E 1	321	52	269 E 280	-379	R 36	R 1,531
June	RE 1,524 RE 1,573	- 1 E 2	335 RE 359	56 E 54	RE 305	-397	ⁿ 36 ^R 31	^R 1,445 ^R 1,545
July	E 1,573	E 5	E 350	E 53	RE 298	-366 -345	ⁿ 31 ^R -22	ⁿ 1,545 ^R 1,539
August	E 1,604	E 5	E 324	E 58	E 266		-22 E4	
September 9-Month Total	- 1,490 E 14 005	E 40	E 3,073	E 529	E 2,544	-325 -495	E 255	1,446
9-MOHUI FOTAL	E 14,085	- 40	- 3,073	- 529	- 2,544	-495	- 255	16,428
	E 14,309	^E 47						

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

b See Note 1 at end of section.

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

d See Note 3 at end of section. Since 1980, excludes transit shipments that cross the U.S.-Canada border (i.e., natural gas delivered to its destination via the other country).

e See Note 4 at end of section.

f May include unknown quantities of nonhydrocarbon gases.
g For 1989-1992, a small amount of consumption at independent power producers may be counted in both "Other Industrial" and "Electric Power Sector" on Table 4.4. See Note 5 at end of section.

R=Revised. E=Estimate. NA=Not available.
Notes: • Totals may not equal sum of components due to independent rounding.
• Geographic coverage is the 50 States and the District of Columbia.
Web Page: http://www.eia.doe.gov/emeu/mer/natgas.html.
Sources: • Dry Gas Production: Table 4.2. • Supplemental Gaseous Fuels:
1980-1998: Energy Information Administration (EIA), Natural Gas Annual (NGA), annual reports.
1999 forward: EIA, Natural Gas Monthly (NGM), November 2004, Table 2. • Trade: Table 4.3. • Net Withdrawals: 1973-1998: EIA, NGA 2000, Table 94.
1999 forward: EIA, NGM, November 2004, Table 2.
• Consumption: Table 4.4. • Balancing Item: Calculated as consumption minus dry gas production, supplemental gaseous fuels, net imports, and net withdrawals.

Table 4.2 Natural Gas Production

	Gross Withdrawals ^a	Repressuringb	Nonhydro- carbon Gases Removed ^c	Vented and Flared ^d	Marketed Production ^e	Extraction Loss ^f	Dry Gas Production ^g
1973 Total	24,067	1,171	NA	248	^h 22,648	917	^h 21,731
1974 Total	22,850	1,080	NA	169	^h 21,601	887	^h 20,713
1975 Total	21,104	861	NA	134	h 20,109	872	h 19,236
1976 Total	20,944	859 935	NA	132	h 19,952	854	h 19,098
977 Total	21,097 21,309	935 1.181	NA NA	137 153	^h 20,025 ^h 19.974	863 852	^h 19,163 ^h 19,122
1979 Total	21,883	1,245	NA NA	167	h 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
1983 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 988 Total	20,140 20,999	2,208 2,478	376 460	124 143	17,433 17,918	812 816	16,621 17,103
1989 Total	21,074	2,475	362	143	18,095	785	17,103
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
1994 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
997 Total 1998 Total	24,213 24,108	3,492 3.427	599 617	256 103	19,866 19,961	964 938	18,902 19,024
1999 Total	23,823	3,427	615	110	19,805	973	18,832
2000 Total	24,174	3,380	505	91	20,198	1,016	19,182
2001 Total	24,501	3,371	463	97	20,570	954	19,616
2002 January	2,062	305	43	9	1,705	82	1,623
February	1,864	289	39	7	1,528	73	1,455
March	2,066	308	44	8	1,706	82	1,624
April	1,986 2.030	284 264	43 44	8 8	1,652	79 82	1,573
May June	2,030 1.969	264 270	44	8	1,713 1.648	82 79	1,631 1.569
July	2,038	266	44	8	1,720	83	1,638
August	2,023	281	44	9	1,688	81	1,607
September	1,918	279	43	8	1,588	76	1,511
October	1,982	302	37	8	1,636	78	1,558
November	1,987	298	39	8	1,642	79	1,563
December	2,052	309	40	10	1,693	81	1,612
Total	23,977	3,455	502	99	19,921	957	18,964
2003 January	E 2,095	E 333	E 33	E 9 E 8	E 1,721	E 83 E 75	E 1,638
February	E 1,905 E 2,115	E 310 E 331	E 30 E 32	E 9	E 1,558 E 1,743	E 84	E 1,483 E 1,660
March April	E 1,999	E 307	E 30	E 8	E 1,654	E 79	E 1,574
May	E 2 ∩42	E 302	E 30	Eα	E 1,701	E 82	E 1,620
June	E 1.973	E 297	E 31	E 7	±1.637	E 79	E 1.558
July	¹ 2,014	E 287	E 32	E 8	¹ 1.687	E 81	E 1.606
August	E 2 027	E 302	E 33	E 8	¹ 1.684	E 81	E 1.604
September	E 1,981	E 294	E 32	<u> </u>	[∟] 1,647	<u>=</u> 79	¹ 1,568 ± 1,568
October	E 2,044	E 316	E 34	E 8	E 1,686	E 81	E 1,605
November	E 1,977	E 314	E 33 E 34	E 7 _E 8	E 1,622	E 78 E 81	E 1,544
December Total	E 2,072 E 24,243	E 341 E 3,735	E 384	E 95	E 1,690 E 20,030	E 962	E 1,609 E 19,068
2004 January	E 2,095	E 344	E 34	E 8	E 1,709	E 82	E 1,627
February	E 1 950	E 323	E 32	E 7	E 1.588	E 76	E 1 512
March	E 2.090	E 349	E 34	E 8	¹ 1.698	E 82	E 1.617
April	[∟] 1.999	E 325	± 33	E 8	¹ 1.634	E 78	± 1 555
May	E 2,027	E 329	E 34	E 8	¹ 1.656	E 80	HE 1.577
June	E 1,934	E 292	E 33 RE 32	E 8	HE 1.601	E 77 RE 79	HE 1.524
July	RE 1,976	RE 284 RE 311	™ 32 F 0.4	E 8	RE 1,652	n= 79 F 04	RE 1,573
August	RE 2,038 E 1,892	E 282	E 34 E 31	E 8	E 1,685 E 1,571	E 81 E 75	E 1,604 E 1,496
September 9-Month Total	E 18,001	E 2,839	E 297	E 71	E 14,795	E 711	E 14,085
2003 9-Month Total	E 18.151	^E 2.763	^E 283	E 72	E 15.031	^E 722	^E 14,309

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

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

h May include unknown quantities of nonhydrocarbon gases.
R=Revised. NA=Not available. E=Estimate.
Notes: • Totals may not equal sum of components due to independent rounding. • Geographic coverage is the 50 States and the District of Columbia.
Web Page: http://www.eia.doe.gov/emeu/mer/natgas.html.
Sources: • 1973-1998: Energy Information Administration (EIA), Natural Gas Annual 2000, Table 93. • 1999 forward: EIA, Natural Gas Monthly, November 2004, Table 1.

Table 4.3 Natural Gas Trade by Country

				Impo	orts					Exp	orts	
	Algeria ^a	Australia ^a	Canada b	Mexico b	Qatar ^a	Trinidad and Tobago ^a	Other ^c	Total	Canada ^b	Japan ^a	Mexico b	Total
1973 Total 1974 Total 1975 Total 1975 Total 1976 Total 1977 Total 1977 Total 1978 Total 1979 Total 1980 Total 1981 Total 1982 Total 1983 Total 1984 Total 1985 Total 1986 Total 1987 Total 1987 Total 1988 Total 1998 Total 1998 Total 1999 Total 1999 Total 1991 Total 1992 Total 1993 Total 1994 Total 1994 Total 1995 Total 1995 Total 1997 Total 1997 Total 1998 Total 1999 Total 1998 Total 1999 Total 2000 Total 2000 Total	3 0 5 10 11 84 253 86 37 55 131 36 24 0 0 17 42 84 43 85 51 18 86 67 66 67 67 66 67 66 67 66 67 66 67 66 67 67	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	1,028 959 948 954 997 881 1,001 797 762 783 712 752 756 749 993 1,276 1,339 1,448 1,710 2,094 2,267 2,566 2,816 2,883 2,899 3,052 3,368 3,544 3,729	2 (s) 0 102 105 95 75 52 0 0 0 0 0 2 7 7 14 17 15 55 12 10	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 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 1,773 2,138 2,350 2,624 2,841 2,937 2,994 3,152 3,586 3,782 3,977	15 13 10 8 (s) (s) (s) (s) (s) (s) (s) (s) 9 3 20 38 17 68 45 53 28 54 49 73 167	48 50 53 52 48 51 55 65 65 65 66 66 66 66 66 66 66 66 66	14 13 9 7 4 4 4 4 3 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	77 77 73 65 56 53 56 49 59 55 55 55 61 54 107 86 129 216 154 157 159 159 244 373
Populary February March April May June July August September October November December Total	3 0 0 2 7 5 5 0 0 0 3 3 27	0 0 0 0 0 0 0 0	334 298 322 298 291 292 323 332 319 316 309 351 3,785	1 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 5 6 14 5 3 3 0 0 0 3 5	5 8 10 10 10 7 11 16 14 22 19 18	0 0 0 5 0 0 6 0 5 0	343 306 333 315 319 318 345 356 336 343 331 371 4,015	16 16 14 13 15 14 12 13 10 28 26 189	6 4 6 7 2 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6	13 11 18 19 23 25 28 29 28 26 21 23 263	34 30 38 39 39 45 45 47 47 42 55 55 516
2003 January	0 0 3 11 4 3 5 3 8 11 3 3 5 3	0 0 0 0 0 0 0 0	342 293 298 285 282 262 288 272 279 275 327 3,490	0 0 0 0 0 0 0 0	0 0 2 0 0 0 3 0 6 3 0 0	23 21 26 19 30 34 44 35 29 38 40 37 378	0 0 0 3 11 11 5 11 11 6 4 0	365 314 329 317 328 310 345 337 326 336 322 367 3,996	27 28 32 26 18 20 16 21 20 32 38 294	466643755866 64	28 25 17 20 29 30 27 30 28 33 33 32 33	60 59 55 52 50 54 50 51 55 61 71 76 692
2004 January	7 8 11 8 5 16 E 11 E 22 E 7 E 95	0 0 0 3 3 8 6 0 0	319 297 299 273 267 278 289 RE 291 E 268 E 2,580	0 0 0 0 0 0 0	0 0 0 3 3 3 0 E 3 0 0 E 9	43 41 38 35 36 34 533 638 640 640 6438	3 0 0 0 6 4 RE 17 0 9	372 346 348 319 321 335 RE 359 E 350 E 324 E 3,073	24 31 49 26 20 17 E16 E15 E18	5 5 6 6 2 4 6 6 7 46	29 26 28 22 30 35 5 5 2 2 32 6 32 6 32	58 62 83 54 52 56 E 54 E 53 E 58 E 529
2003 9-Month Total 2002 9-Month Total	37 21	0 0	2,609 2,810	0 2	11 35	263 92	52 11	2,971 2,971	204 125	46 47	235 193	484 365

2002.
R=Revised. E=Estimate. (s)=Less than 500 million cubic feet.
Notes: • See Note 9 at end of section. • Totals may not equal sum of

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

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

Web Page: http://www.eia.doe.gov/emeu/mer/natgas.html.
Sources: • 1973-1987: Energy Information Administration (EIA), Form FPC-14, "Annual Report for Importers and Exporters of Natural Gas."
• 1988-1998: EIA, Natural Gas Annual, annual reports. • 1999 forward: EIA, Natural Gas Monthly, November 2004, Tables 5 and 6; and Department of Energy, Office of Fossil Energy, "Natural Gas Imports and Exports."

Table 4.4 Natural Gas Consumption by Sector

					End-Use	Sectors						
					Industrial			Tran	nsportatio	n		
	Resi-	Com-	Lease and		Other Industr		-	Pipelines ^d and Dis-	Vehicle	T -1-1	Electric Power	T.1.1
1973 Total	4,879 4,786 4,924 5,051 4,903 4,965 4,752 4,546 4,633	2,597 2,556 2,508 2,668 2,501 2,601 2,786 2,611 2,520 2,606	1,496 1,477 1,396 1,634 1,659 1,648 1,499 1,026 928 1,109	CHPb	8,689 8,292 6,968 6,964 6,815 6,757 6,899 7,172 7,128 5,831	8,689 8,292 6,968 6,964 6,815 6,757 6,899 7,172 7,128 5,831	10,185 9,769 8,365 8,598 8,474 8,405 8,398 8,198 8,055 6,941	728 669 583 548 533 530 601 635 642 596	NA	728 669 583 548 533 530 601 635 642 590	3,660 3,443 3,158 3,081 3,191 3,188 3,491 3,682 3,640 3,226	22,049 21,223 19,538 19,946 19,521 19,627 20,241 19,877 19,404 18,001
1983 Total 1984 Total 1985 Total 1986 Total 1987 Total 1988 Total 1988 Total 1989 Total 1990 Total 1991 Total 1992 Total 1993 Total 1994 Total 1995 Total 1996 Total 1997 Total 1998 Total 1998 Total 1998 Total 1998 Total 1998 Total 1999 Total 1998 Total 1999 Total 2000 Total 2001 Total	4,381 4,433 4,314 4,315 4,630 4,781 4,556 4,695 4,695 4,848 4,848 4,824 4,520 4,720 4,720 4,721	2,433 2,524 2,432 2,318 2,430 2,670 2,718 2,623 2,729 2,803 2,862 2,895 3,031 3,158 3,215 2,995 3,045 3,182 3,023	978 1,077 966 923 1,149 1,096 1,070 1,236 1,129 1,171 1,172 1,124 1,220 1,250 1,203 1,173 1,173 1,151 1,119	h h h h h h h h h h h h h h h h h h h	5,643 6,154 5,901 5,593 6,383 5,903 5,963 6,170 6,420 6,576 6,613 6,906 7,146 7,229 6,965 6,757 6,035	5,643 6,154 5,901 5,595 6,383 6,816 7,231 7,527 7,790 8,164 8,511 8,320 8,142 7,344	6,621 7,231 6,867 6,567 6,502 7,103 7,479 7,886 8,225 8,360 8,698 8,872 8,913 9,384 9,685 9,714 9,493 9,158 9,293 8,463	490 529 504 485 519 614 629 660 601 588 624 685 700 711 751 635 645 642 625	NA NA NA NA NA (s) 2 3 3 5 6 8 9 12 13 15	499 529 485 514 629 660 602 590 627 689 705 718 760 645 657 655 640	2,911 3,111 3,044 2,602 2,844 2,636 9,13,105 13,245 13,316 13,448 3,473 3,903 4,237 4,065 4,588 4,820 5,206 5,342	16,835 17,951 17,281 16,221 17,211 18,030 19,119 19,174 19,562 20,228 20,790 21,247 22,207 22,207 22,246 22,737 22,246 22,405 23,333 22,239
2002 January February March April May June July August September October November December Total	816 713 661 415 255 160 125 116 124 251 483 771 4,890	430 397 369 264 190 144 133 139 195 295 414 3,103	96 86 96 92 95 92 95 94 89 92 92 95 1,114	114 100 107 97 107 102 111 108 101 97 97 98 1,240	577 535 553 552 507 495 499 506 476 517 535 564 6,316	691 635 660 649 614 597 610 614 577 615 632 662 7,557	786 721 756 742 709 689 705 708 666 706 725 758 8,671	73 66 66 54 46 46 50 50 44 47 55 69 667	E1 E1 E1 E1 E1 E1 E1 E1	74 67 67 56 47 47 52 51 45 49 57 71 682	381 344 407 404 410 551 734 718 569 442 352 360 5,672	2,488 2,243 2,260 1,881 1,612 1,749 1,725 1,543 1,643 1,911 2,373 23,018
2003 January February March April May June July August September October November December Total	947 888 678 416 250 158 127 116 128 R 231 414 742 R 5,095	509 476 381 256 177 134 129 127 133 178 250 388 3,138	E 96 E 87 E 98 E 93 E 95 E 92 E 94 E 94 E 92 E 91 E 95 E 91 E 95	106 93 98 87 85 93 104 83 98 95 98	F 568 F 539 F 505 F 477 464 409 F 468 F 466 F 470 F 490 F 489 F 532 F 5,877	R 674 R 632 R 603 R 564 549 502 R 567 R 570 R 553 R 584 R 630	R 771 R 719 R 700 R 657 644 594 R 661 R 664 R 645 R 683 R 675 R 725	R 77 72 63 50 43 39 46 47 40 44 50 65 R 636	E 1 E 1 E 1 E 1 E 1 E 1 E 1 E 1 E 1	79 73 64 51 45 40 47 48 41 46 51 67	367 329 353 333 381 411 609 654 434 391 338 329 4,930	R 2,673 R 2,485 R 2,176 R 1,773 1,497 1,573 R 1,609 R 1,382 R 1,528 R 1,728 R 1,2250 R 2,250
2004 January	968 860 594 384 214 145 R 125 119 125 3,534	492 462 345 245 8 165 8 132 8 122 8 121 121 2,205	E 96 E 89 E 95 E 91 E 93 E 90 RE 92 RE 94 E 88 E 828	89 92 91 90 104 97 106 107 99	587 548 530 487 453 453 452 463 461 4,434	676 640 R 622 578 557 550 R 558 570 561 5,311	771 729 R 717 669 650 640 R 650 664 649 6,139	77 72 60 50 44 42 45 45 41 475	E1 E1 E1 E1 E1 E1 E1	E 78 E 73 E 61 E 51 E 46 E 43 E 46 E 43 E 487	342 356 355 369 456 486 601 589 509 4,063	2,652 2,479 R 2,073 1,719 R 1,531 R 1,445 R 1,545 R 1,539 1,446 16,428
2003 9-Month Total 2002 9-Month Total	3,709 3,385	2,321 2,199	E 841 835	848 947	4,366 4,700	5,213 5,647	6,054 6,482	476 495	E 11 E 11	488 ^E 506	3,871 4,518	16,443 17,091

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

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

c All industrial sector fuel use other than that in "Lease and Plant Fuel" and "CHP."

d Natural gas consumed in the operation of pipelines, primarily in compressors.
e Natural gas used as fuel in the delivery of natural gas to consumers.
f The electric power sector comprises electricity-only and combined-heat-and-power (CHP) plants within the NAICS 22 category whose primary business is to

sell electricity, or electricity and heat, to the public.

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

h Included in "Non-CHP."

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

See Note 5 at end of section.

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

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

Table 4.5 Natural Gas in Underground Storage

(Volumes in Billion Cubic Feet)

	U	Natural Gas in nderground Storag End of Period	e,	Change in W From San Previou	ne Period	S	torage Activity	
	Base Gas	Working Gas	Totala	Volume	Percent	Withdrawals	Injections	Net ^{b,c}
070 7	2.004	0.004	4.000		47.0	1.500	4.074	440
973 Total	2,864	2,034	4,898	305	17.6	1,533	1,974	-442
974 Total	2,912	2,050	4,962	16	.8	1,701	1,784	-84
975 Total	3,162	2,212	5,374	162	7.9	1,760	2,104	-344
976 Total	3,323	1,926	5,250	-286	-12.9	1,921	1,756	165
977 Total	3,391	2,475	5,866	549	28.5	1,750	2,307	-557
978 Total	3,473	2,547	6,020	72	2.9	2,158	2,278	-120
979 Total	3,553	2,753	6,306	207	8.1	2,047	2,295	-248
980 Total	3,642	2,655	6,297	-99	-3.6	1,910	1,896	14
981 Total	3,752	2,817	6,569	162	6.1	1,887	2,180	-293
982 Total	3,808	3,071	6,879	255	9.0	2,094	2,399	-305
983 Total	3,847	2,595	6,442	-476	-15.5	2,142	1,700	442
984 Total	3,830	2,876	6,706	281	10.8	2,064	2,252	-188
985 Total	3,842	2,607	6,448	-270	-9.4	2,359	2.128	231
986 Total	3,819	2,749	6,567	142	5.5	1,812	1,952	-140
987 Total	3,792	2,756	6,548	7	.3	1,881	1,887	-6
				94				
988 Total	3,800	2,850	6,650 6 225		3.4	2,244	2,174	69
989 Total	3,812	2,513	6,325	-337	-11.8	2,804	2,491	313
990 Total	3,868	3,068	6,936	555	22.1	1,934	2,433	-499
991 Total	3,954	2,824	6,778	-244	-8.0	2,689	2,608	80
992 Total	4,044	2,597	6,641	-227	-8.0	2,724	2,555	168
993 Total	4,327	2,322	6,649	-275	-10.6	2,717	2,760	-43
994 Total	4,360	2,606	6,966	284	12.2	2,508	2,796	-288
995 Total	4,349	2,153	6,503	-453	-17.4	2,974	2,566	408
996 Total	4,341	2,173	6,513	19	.9	2,911	2,906	6
997 Total	4,350	2,175	6,525	2	.1	2,824	2,800	24
998 Total	4,326	2,730		554	25.5	2,379	2,905	-526
			7,056					
999 Total	4,383	2,523	6,906	-207	-7.6	2,772	2,598	174
000 Total	4,352	1,719	6,071	-806	-31.9	3,498	2,684	814
001 Total	4,301	2,904	7,204	1,185	68.9	2,309	3,464	-1,156
002 January	4,313	2,344	6,657	1,078	85.2	606	59	546
February	4,356	1,838	6,194	925	101.4	520	55	464
March	4,355	1,518	5,873	776	104.7	428	108	320
April	4,355	1,659	6,014	666	67.1	112	238	-126
May	4,361	1,968	6,329	528	36.7	60	381	-322
June	4,355	2,308	6,663	426	22.6	56	397	-341
July	4,358	2,539	6,896	278	12.3	101	343	-242
August	4,357	2,773	7,130	198	7.7	90	325	-236
	4,342	3,042	7,384	97	3.3	71	340	-269
September								
October	4,342	3,116	7,458	-28	9	145	232	-87
November	4,344	2,929	7,273	-325	-10.0	322	124	198
December	4,340	2,375	6,715	-528	-18.2	627	66	560
Total	4,340	2,375	6,715	-528	-18.2	3,138	2,670	468
003 January	4,342	1,534	5,876	-810	-34.5	886	44	841
February	4,334	864	5,198	-974	-53.0	723	48	676
March	4,324	730	5,054	-788	-51.9	305	169	136
April	4,315	896	5,211	-763	-46.0	118	277	-158
May	4,322	1,300	5,622	-668	-33.9	41	453	-412
June	4,323	1,768	6,091	-540	-23.4	36	506	-470
July	4,323	2,129	6,451	-410	-16.1	64	426	-361
	4,324	2,129	6,760	-338	-12.2	62	371	-309
August								
September	4,328	2,843	7,171	-199	-6.5	31	441	-411
October	4,327	3,130	7,457	14	.5	59	343	-284
November	4,305	3,038	7,343	110	3.7	228	142	86
December	4,305	2,565	6,869	189	8.0	543	70	473
Total	4,305	2,565	6,869	189	8.0	3,095	3,288	-193
004 January	4,301	1,751	6,052	217	14.1	869	59	811
February	4,297	1,156	5,452	292	33.8	646	47	600
March	4,283	1,058	5,342	328	45.0	269	165	103
April	4,283	1,252	5,535	357	39.8	95	293	-198
May	4,287	1,624	5,911	323	24.9	43	421	-379
	4,284	2,023	6,307	255		31	428	-373
June					14.4			
July	4,287	2,395	6,681	266	12.5	56	422	-366
August	4,262	2,743	7,005	307	12.6	57	402	-345
September	4,254	3,057	7,310	214	7.5	65	390	-325
9-Month Total	-	-	_	-	-	2,132	2,627	-495

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

For total indeground storage capacity at the end of each calendar year, see Note 8 at end of section.

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

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

ending stocks. See Note 2 at end of section.

⁻⁼Not applicable.

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

• Geographic coverage is the 50 States and the District of

Columbia.

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

Sources: See end of section.

Natural Gas

Note 1. Supplemental Gaseous Fuels: Any gaseous substance that, introduced into or commingled with natural gas, increases the volume available for disposition. Such substances include, but are not limited to, propane-air, refinery gas, coke oven gas, still gas, manufactured gas, biomass gas, or air or inert gases added for Btu stabilization.

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

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

Note 2. Storage: Gas in storage at the end of a reporting period may not equal the quantity derived by adding or subtracting net injections or withdrawals from the quantity in storage at the end of the previous period. The difference is due to changes in the quantity of native gas included in the base gas and/or losses in base gas due to migration from storage reservoirs.

Total underground storage capacity at the end of each calendar year since 1975 (first year data were available), in billion cubic feet, was:

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

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

The final monthly and annual storage and withdrawal data for 1980–2001 include both underground and liquefied natural gas (LNG) storage. Annual data on LNG additions and withdrawals are from Form EIA-176. Monthly data are estimated by computing the ratio of each month's underground storage additions and withdrawals to annual underground storage additions and withdrawals and applying the ratio to the annual LNG data.

Note 3. Balancing Item: The balancing item for natural gas represents the difference between the sum of the components of natural gas supply and the sum of components of natural gas disposition. The differences may be due to quantities lost or to the effects of data reporting problems. Reporting problems include differences due to the net result of conversions of flow data metered at varying temperature and pressure bases and converted to a standard temperature and pressure base; the effect of variations in company accounting and billing practices; differences between billing cycle and calendar period time frames; and imbalances resulting from the merger of data reporting systems which vary in scope, format, definitions, and type of respondents.

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

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

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

Note 5. Consumption, **1989-1992**: Prior to 1993, deliveries to nonutility generators were not separately collected from natural gas companies on Form EIA-176, "Annual Report of Natural and Supplemental Gas Supply and Disposition." As a result, for 1989 through 1992, those volumes are probably included in both the industrial and electric power sectors and double-counted in total consumption. In 1993, 0.28 trillion cubic feet was reported as delivered to nonutility generators.

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

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

Note 7. Production.

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

Estimated monthly data—Data for the two most recent months presented are estimated. Some of the data for earlier months are also estimated or computed. For a discussion of computation and estimation procedures, see the EIA *NGM*.

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

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

Note 8. Extraction Loss: Extraction loss is the reduction in volume of natural gas resulting from the removal of natural gas liquid constituents at natural gas processing plants.

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

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

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

Note 9. Imports and Exports: The United States imports natural gas via pipeline from Canada and Mexico and imports liquefied natural gas (LNG) via tanker from Algeria, Australia, Indonesia, Nigeria, Oman, Qatar, Trinidad and Tobago, and the United Arab Emirates. In addition, very small amounts of LNG arrived from Canada in 1973 (667 million cubic feet), 1977 (572 million cubic feet), and 1981 (6 million cubic feet). The United States exports natural gas via pipeline to Canada and Mexico and exports LNG via tanker to Japan. Also, small amounts of LNG have gone to Mexico since 1998.

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

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

Table 4.4 Notes:

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

Table 4.4 Web Page:

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

Table 4.4 Sources:

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

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

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

Other Industrial Total

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

Other Industrial CHP

Table 7.3c.

Electric Power Sector

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

Vehicle Fuel

Annual Data:

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

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

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

All Other Series: Calculated.

Table 4.5 Sources:

Storage Activity

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

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

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

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

Other Data

1973 and 1974: American Gas Association (AGA), Gas

Facts, 1972 Data, Table 57, Gas Facts, 1973 Data, Table 57, and Gas Facts, 1974 Data, Table 40.

1975 and 1976: Federal Energy Administration (FEA), Form FEA-G318-M-O, "Underground Gas Storage Report," and Federal Power Commission (FPC), Form FPC-8, "Underground Gas Storage Report."

1977 and 1978: EIA, Form FEA-G-318-M-O, "Underground Gas Storage Report," and Federal Energy Regulatory Commission (FERC), Form FERC-8, "Underground Gas Storage Report."

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

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

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

Section 5. Crude Oil and Natural Gas Resource Development

The November 2004 rotary rig count was 1,262, 2 percent higher than the count in October 2004 and 14 percent higher than the count in November 2003. Of the total number of rigs in operation, 1,160 were onshore and 102 were offshore. For November 2004, the number of onshore rigs was up 15 percent but the number of offshore rigs was down 4 percent from the November 2003 count. Rotary rigs drilling for natural gas as a share of total rigs stood at 85 percent in November 2004.

Total footage drilled in November 2004 was 17.9 million feet, 2 percent higher than the footage drilled in October 2004 and up 10 percent from that drilled in November 2003.

The number of exploratory and development crude oil and natural gas wells drilled during November 2004 was 2,614, up 2 percent from the number drilled in October 2004 and up 14 percent from the number drilled in

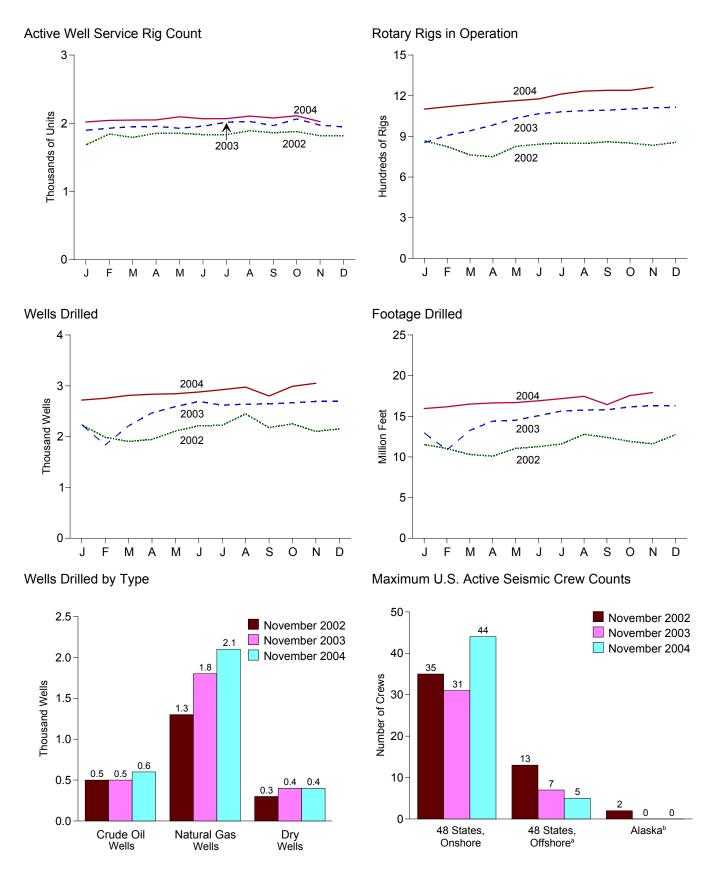
November 2003. The number of crude oil wells drilled was 552, and the number of natural gas wells was 2,062, 16 percent higher and 13 percent higher, respectively, than their November 2003 levels.

The number of dry holes drilled in November 2004 was 436, up 2 percent from the number drilled in October 2004 and up 11 percent from the number drilled in November 2003.

There were 2.0 thousand well service rigs active in November 2004, 4 percent lower than the previous month but 3 percent higher than the count a year ago.

The number of seismic crews active in the 48 States onshore in November 2004 was 44, 13 more than a year earlier. The number of crews active in the 48 States offshore was 5, 2 fewer than a year earlier. No crews were active in Alaska in November 2004, the same as a year ago.

Figure 5.1 Crude Oil and Natural Gas Resource Development Indicators



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

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

Table 5.1 Crude Oil and Natural Gas Drilling Activity Measurements

		Rot	ary Rigs in Opera	tion ^a			
	Ву	Site	By Ob	jective		Total Footage	Active Well Service
	Onshore	Offshore	Crude Oil	Natural Gas	Total ^b	Drilled ^c	Rig Count ^d
			Average			Thousand Feet	Number
1973 Average	1,110	84	NA	NA	1,194	138,223	NA
1974 Average	1,378	94 106	NA NA	NA NA	1,472	153,374	NA NA
1975 Average 1976 Average	1,554 1,529	129	NA NA	NA NA	1,660 1,658	180,494 186,982	NA NA
1977 Average	1,834	167	ŇÄ	NA	2,001	215,866	ŇÃ
1978 Average	2,074	185	NA	NA	2,259	238,669	NA
1979 Average	1,970	207	NA	NA	2,177	244,798	NA
1980 Average	2,678	231	NA	NA	2,909	314,654	NA
981 Average	3,714	256	NA	NA	3,970	413,112	NA
982 Average	2,862	243	NA	NA	3,105	378,295	NA
983 Average	2,033	199	NA	NA	2,232	317,986	NA
984 Average	2,215	213	NA NA	NA NA	2,428	371,392	NA NA
985 Average	1,774 865	206 99	NA NA	NA NA	1,980 964	313,045	NA NA
986 Average987 Average	841	95 95	NA NA	NA NA	936	181,856 162,178	NA NA
988 Average	813	123	554	354	936	156,354	NA NA
989 Average	764	105	453	401	869	134,439	ŇÄ
990 Average	902	108	532	464	1,010	153,701	NA
991 Average	779	81	482	351	860	143,021	NA
992 Average	669	52	373	331	721	121,124	NA
993 Average	672	82	373	364	754	135,118	NA
994 Average	673	102	335	427	775	124,809	NA
995 Average	622	101	323	385	723	117,832	NA
996 Average	671	108	306	464	779	129,045	NA
997 Average	821	122	376	564	943	156,661	NA
998 Average	703	123	264	560	827	143,454	NA
999 Average	519 779	106	128	496	625	99,410	NA NA
2000 Average 2001 Average	778 1,003	140 153	197 217	720 939	918 1,156	141,392 189,967	NA NA
2002 January	741	126	141	725	867	11,513	1,683
February	702	123	144	679	825	11,031	1,843
March	649	114	144	617	763	10,303	1,791
April	645	105	136	612	750	10,102	1,852
May	721	105	134	690	826	11,039	1,856
June	732	110	138	704	842	11,274	1,832
July	740	111	133	716	851	11,590	1,832
August	737 746	111 114	125 122	721 736	848 860	12,782 12,410	1,891 1,861
September October	746 740	111	140	736 709	851	11,907	1,878
November	740 725	109	146	683	834	11,612	1,817
December	742	114	137	714	856	12,747	1,821
Average	717	113	137	691	830	138,310	1,830
003 January	743	111	132	718	854	12,962	1,898
February	797	110	153	750	907	10,866	1,928
March	836	105	171	767	941	13,269	1,950
April	877	106	185	795	983	14,409	1,954
May	921	113	167	864	1,034	14,515	1,927
June	958	109	152	910	1,067	15,080	1,957
July	974	107	153	924	1,081	15,637	2,016
August	979	111 109	153 154	932	1,090	15,776 15,706	2,026
September	984		154	936	1,093	15,796	1,966
October November	997 1.005	105 106	158 158	941 952	1,102 1,111	16,156 16,307	2,064 1,973
December	1,010	104	153	959 959	1,114	16,301	1,946
Average	924	108	157	872	1,032	177,074	1,967
004 January	1,001	100	143	955	1,101	^R 15,957	2,019
February	1,020	99	153	961	1,119	R 16,168	2,043
March	1,041	94	164	968	1,135	R 16,508	2,047
April	1,058	93	154	996	1,151	R 16,642	2,050
May	1,068	96	156	1,007	1,164	R 16,687	2,095
June	1,080	96	164	1,011	1,176	R 16,905	2,067
July	1,116	97	170	1,041	1,213	R 17,174	2,068
August	1,139	95	170	1,063	1,234	R 17,462	2,106
September	1,148	92	166	1,073	1,240	R 16,437	2,078
October	1,145	95 102	171	1,068	1,240	R 17,545	2,111
	1,160	102	183	1,077	1,262	17,917	2,024
November 11-Month Average	1,090	96	163	1,021	1,186	185,402	2,064
	1,090 916	96 108	163 157	1,021	1,186 1,024	185,402 160,773	2,064 1,969

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

b Sum of rigs drilling for crude oil, rigs drilling for natural gas, and other

R=Revised. NA=Not available.

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

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

Sources: • Rotary Rigs in Operation: By Site - Baker Hughes, Inc.,
Houston, Texas, Rotary Rigs Running--by State. By Type - Baker Hughes,
Inc., Houston, Texas, weekly phone recording. • Total Footage Drilled:
Energy Information Administration computations, which are based on well reports submitted to the American Petroleum Institute by the Petroleum Information Corporation, Denver, Colorado. • Active Well Service Rig Count: Weatherford International, Inc., Houston, Texas.

rigs (not shown) drilling for miscellaneous purposes, such as service wells, injection wells, and stratigraphic tests.

C Values shown are totals.
d See Glossary.

Table 5.2 Crude Oil and Natural Gas Wells Drilled

(Number of Wells)

		Explo	ratory			Develo	pment			То	tal	<u> </u>		
	Crude Oil	Natural Gas	Dry	Total	Crude Oil	Natural Gas	Dry	Total	Crude Oil	Natural Gas	Dry	Total		
1973 Total	642	1,067	5,952	7,661	9,525	5,866	4,368	19,759	10,167	6,933	10,320	27,420		
1974 Total	859	1,190	6,833	8,882	12,788	5,948	5,283	24,019	13,647	7,138	12,116	32,901		
1975 Total	982	1,248	7,129	9,359	15,966	6,879	6,517	29,362	16,948	8,127	13,646	38,721		
1976 Total 1977 Total	1,086 1,164	1,346 1,548	6,772 7,283	9,204 9,995	16,602 17,581	8,063 10,574	6,986 7,702	31,651 35,857	17,688 18,745	9,409 12,122	13,758 14,985	40,855 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		
1979 Total	1,321	1,907	7,437	10,665	19,530	13,347	8,662	41,539	20,851	15,254	16,099	52,204		
1980 Total	1,764	2,081	9,039	12,884	30,875	15,252	11,599	57,726	32,639	17,333	20,638	70,610		
1981 Total	2,636	2,514	12,349	17,499	40,962	17,652	15,440	74,054	43,598	20,166	27,789	91,553		
1982 Total 1983 Total	2,431 2,023	2,125 1,593	11,247 10,148	15,803 13,764	36,768 35,097	16,854 12,971	14,972 14,005	68,594 62,073	39,199 37,120	18,979 14,564	26,219 24,153	84,397 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 1989 Total	855 607	743 705	4,693 3,924	6,291 5,236	12,781 9,597	7,812 8,834	5,348 4,264	25,941 22,695	13,636 10,204	8,555 9,539	10,041 8,188	32,232 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	570 542	726 570	2,405 2,198	3,701 3,310	6,151 7,085	8,812 7,784	2,902 2,877	17,865 17.746	6,721 7,627	9,538 8,354	5,307 5,075	21,566 21,056		
1995 Total 1996 Total	483	570 570	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 Total	291	504	1,647	2,442	6,773	10,640	3,193	20,606	7,064	11,144	4,840	23,048		
1999 Total	157	539	1,195	1,891	4,019	10,338	2,217	16,574	4,176	10,877	3,412	18,465		
2000 Total 2001 Total	264 322	602 988	1,288 1,669	2,154 2,979	7,094 7,738	15,853 21,095	2,737 2,415	25,684 31,248	7,358 8,060	16,455 22,083	4,025 4,084	27,838 34,227		
2001 10tal	322	300	1,003	2,313	1,130	21,033	2,413	31,240	0,000	22,000	4,004	34,221		
2002 January	15	60	108	183	513	1,328	207	2,048	528	1,388	315	2,231		
February	16	72	103	191	418	1,231	148	1,797	434	1,303	251	1,988		
March	19	62	96	177	416	1,126	185	1,727	435	1,188	281	1,904		
April May	29 24	39 48	94 103	162 175	459 447	1,142 1,287	182 199	1,783 1,933	488 471	1,181 1,335	276 302	1,945 2,108		
June	18	49	86	153	529	1,310	222	2,061	547	1,359	308	2,100		
July	22	45	97	164	522	1,323	214	2,059	544	1,368	311	2,223		
August	14	59	105	178	540	1,530	200	2,270	554	1,589	305	2,448		
September	18	61	106	185	440	1,349	203	1,992	458	1,410	309	2,177		
October November	13 23	58 56	123 97	194 176	572 516	1,300 1,252	186 158	2,058 1,926	585 539	1,358 1,308	309 255	2,252 2,102		
December	20	50	122	192	455	1,318	187	1,960	475	1,368	309	2,152		
Total	231	659	1,240	2,130	5,827	15,496	2,291	23,614	6,058	16,155	3,531	25,744		
2003 January	23	49	106	178	528	1,326	202	2,056	551	1,375	308	2,234		
February	27 22	35 46	68 68	130 136	434 493	1,113 1,423	157	1,704 2,076	461 515	1,148	225 228	1,834 2,212		
March April	21	65	92	178	621	1,423	160 211	2,076	642	1,469 1,523	303	2,468		
May	22	53	91	166	627	1,601	197	2,425	649	1,654	288	2,591		
June	35	53	98	186	632	1,690	184	2,506	667	1,743	282	2,692		
July	17	76	133	226	444	1,694	255	2,393	461	1,770	388	2,619		
August	17 17	77 77	134	228 225	444	1,708	257	2,409	461 464	1,785	391	2,637		
September October	17	77 78	131 132	225 228	447 458	1,716 1,724	256 258	2,419 2,440	464 476	1,793 1,802	387 390	2,644 2,668		
November	18	78	134	230	458	1,745	260	2,463	476	1,823	394	2,693		
December	17	79	134	230	444	1,758	260	2,462	461	1,837	394	2,692		
Total	254	766	1,321	2,341	6,030	18,956	2,657	27,643	6,284	19,722	3,978	29,984		
2004 January	^R 18	^R 78	^R 131	227	^R 456	^R 1,778	R 258	R 2,492	R 474	R 1,856	R 389	R 2,719		
February	R 19	R 78	R 133	230	R 478	R 1,785	261	R 2,524	R 497	R 1,863	R 394	R 2,754		
March	21 B 10	R 79	136 B 127	R 236	R 513	R 1,797	R 267	R 2,577	R 534	R 1,876	R 403	R 2,812		
April	^R 19 20	^R 81 81	^R 137 137	237 238	^R 480 ^R 488	^R 1,849 1,848	^R 269 ^R 269	^R 2,598 2,605	^R 499 ^R 508	^R 1,930 1,929	^R 406 ^R 406	R 2,835 2,843		
May June	20	81	137	230 240	511	1,855	273	2,639	531	1,929	412	2,879		
July	20	83	141	244	493	R 1,910	R 277	R 2,680	513	R 1,993	R 418	R 2,924		
August	20	85	144	249	493	1,951	282	2,726	513	2,036	426	2,975		
September	18	81	135	234	453	1,848	R 265	R 2,566	471	1,929	R 400	R 2,800		
October	20	86	145	251	496	1,960	283	2,739	516	2,046	428	2,990		
November 11-Month Total	21 216	86 899	147 1,525	254 2,640	531 5,392	1,976 20,557	289 2,993	2,796 28,942	552 5,608	2,062 21,456	436 4,518	3,052 31,583		
2003 11-Month Total	237	687	1,187	2,111	5,586	17,198	2,397	25,181	5,823	17,885	3,584	27,292		
2003 11-Month Total	237 211	609	1,187	1,938	5,372	14,178	2,397 2,104	25,181	5,823 5,583	14,787	3,584 3,222	27,292		

Notes: • These well counts include only the original drilling of a hole intended to discover or further develop already discovered crude oil or natural gas resources. Other drilling activities, such as drilling an old well deeper, drilling of laterals from the original well, drilling of service and injection wells, and drilling for resources other than crude oil or natural gas are excluded. Due to the methodology used to estimate ultimate well counts from the available partially reported data, the counts shown on this page are frequently

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

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

Table 5.3 Maximum U.S. Active Seismic Crew Counts

(Number of Crews)

2000 March		Alaska ^b				a	Offshore	8 States,	4	•	Onshore	48 States,		
2000 March			c	Dimensionsc			,c	mensions	Di		s _c	imensions	Di	
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August		3 1			•				-					
September 3 39 1 43 7 8 0 16 0 0 0 0 0 0 0 0 0		i												
November	59	0	0	0	0	16	0	8	7	43	1	39		
December 5		0												
100 1 1 1 1 1 1 1 1		0												
February	65	0	U	U	U	17	U	8	8	48	ı	41	5	December
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^a Federal and State Jurisdiction waters of the Gulf of Mexico.

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

Intervals. The primary application of 4D is mapping the movement of fluid interfaces in producing oil and gas reservoirs.

d Includes crews with unknown survey dimension.

Notes: • A "seismic crew" is a group of people, of varying number, engaged in a seismic surveying job. • "48 States" is the United States excluding Alaska and Hawaii. • Data are reported on the first and fifteenth of each month, except January when they are reported only on the fifteenth.

When semi-monthly values differ for the month, the larger of the two values is about here. Consequently this table reflects the moving members of is shown here. Consequently this table reflects the maximum number of crews at work at any time during the month.

Web Page: http://www.eia.doe.gov/emeu/mer/resource.html.
Source: World Geophysical News, IHS Energy Group, Denver, CO. used

with permission.

b All onshore.

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

Crude Oil and Natural Gas Resource Development

Table 5.2 Notes

Three well types are considered in the *Monthly Energy Review (MER)* drilling statistics: "completed for crude oil," "completed for natural gas," and "dry hole." Wells that productively encounter both crude oil and natural gas are categorized as "completed for crude oil." Both development wells and exploratory wells (new field wildcats, new pool tests, and extension tests) are included in the statistics. All other classes of wells drilled in connection with the search for producible hydrocarbons are excluded.

Prior to the March 1985 *MER*, drilling statistics consisted of completion data for the above types and classes of wells as reported to the American Petroleum Institute (API) during a given month. Due to time lags between the date of well completion and the date of completion reporting to the API, as-reported well completions proved to be an inaccurate indicator of drilling activity. During 1982, for example,

as-reported well completions rose, while the number of actual completions fell. Consequently, the drilling statistics published since the March 1985 *MER* are Energy Information Administration (EIA) estimates produced by statistically imputing well counts and footage based on the partial data available from the API. These estimates are subject to continuous revision as new data, some of which pertain to earlier months and years, become available. Additional information about the EIA estimation methodology may be found in "Estimating Well Completions," the feature article published in the March 1985 *MER*.

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

Section 6. Coal

Coal production in November 2004 totaled 93 million short tons, 10 percent higher than in November 2003.

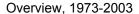
Coal consumed by the electric power sector in September 2004 was 85 million short tons, 2 percent higher than the level in September 2003.

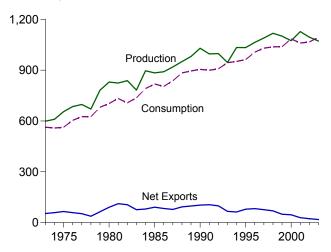
Electric power sector coal stocks were 107 million short tons

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

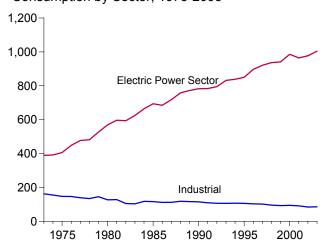
Coal exports in September 2004 totaled 4 million short tons, 13 percent higher than exports in September 2003. Coal imports in September 2004 totaled 3 million short tons, 21 percent higher than imports in September 2003.

Figure 6.1 Coal (Million Short Tons)

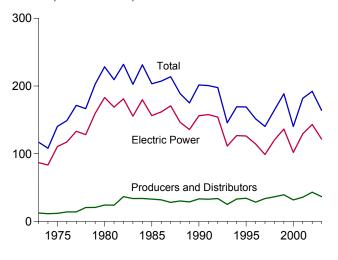




Consumption by Sector, 1973-2003

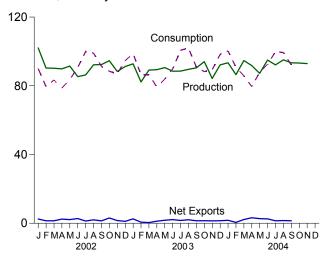


Stocks, End of Year, 1973-2003

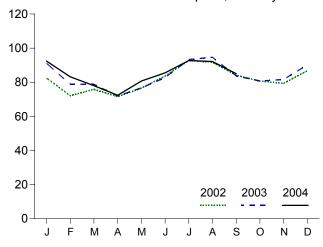


Note: Because vertical scales differ, graphs should not be compared. Web Page: http://www.eia.doe.gov/emeu/mer/coal.html. Sources: Tables 6.1, 6.2, and 6.3.

Overview, Monthly



Electric Power Sector Consumption, Monthly



Electric Power Sector Stocks, End of Month

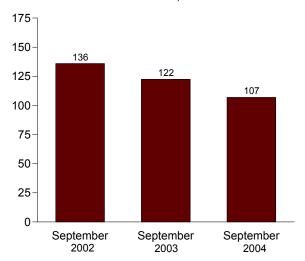


Table 6.1 Coal Overview

(Thousand Short Tons)

	Production ^a	Waste Coal ^{b,c}	Imports	Exports	Stock Changed	Losses and Unaccounted fore	Consumption
1072 Tetal			107				·
1973 Total 1974 Total	598,568 610,023	NA NA	127 2,080	53,587 60,661	(†) -8,918	⁹ -17,476 1,958	562,584 558,402
1975 Total	654.641	NA NA	2,060 940	66,309	32,154	-5,522	562,640
1976 Total	684,913	NA NA	1,203	60,021	8,508	13,797	603,790
1977 Total	697,205	NA NA	1,647	54,312	22,644	-3,395	625,291
1978 Total	670,164	NA NA	2,953	40,714	-4,938	12,116	625,225
1979 Total	781,134	NA NA	2,059	66,042	36,206	421	680,524
1980 Total	829.700	NA NA	1.194	91,742	25,595	10,827	702,730
1981 Total	823,775	NA NA	1,043	112,541	-18,983	-1,366	732,627
1982 Total	838,112	NA	742	106,277	22,614	3,052	706,911
1983 Total	782,091	NA NA	1,271	77,772	-29,453	-1,629	736,672
1984 Total	895,921	NA	1,286	81,483	28,716	-4,288	791,296
1985 Total	883,638	NA	1,952	92,680	-27,934	2,796	818,049
1986 Total	890,315	NA	2,212	85,518	3,953	-1,175	804,231
1987 Total	918,762	ŇÁ	1.747	79,607	6.461	-2,499	836,941
1988 Total	950,265	NA	2,134	95,023	-24,949	-1,316	883.642
1989 Total	980,729	1,407	2,851	100,815	-13,744	2,916	895,000
1990 Total	1,029,076	3,339	2,699	105,804	26,542	-1,730	904,498
1991 Total	995,984	3,950	3,390	108,969	-947	-3,925	899,227
1992 Total	997.545	6,287	3,803	102,516	-2,997	-3,925 461	907,655
1993 Total	945,424	8,137	3,603 8,181	74,519	-2,997 -51,943	-4,916	944,081
1994 Total	1,033,504	8,227	8,870	71,359	23,617	4,340	951,286
1995 Total	1,032,974	8,561	9,473	88,547	-275	4,340 632	962,104
1996 Total	1,063,856	8,778	8,115	90,473	-17,456	1,411	1,006,321
1997 Total	1,089,932	8,096	7,487	83,545	-11,253	3,678	1,000,521
1998 Total	1,117,535	8,690	8,724	78,048	24,228	-4,430	1,037,103
1999 Total	1,100,431	8,683	9,089	58,476	23,988	-2,906	1,038,647
2000 Total	1,073,612	9,089	12,513	58,489	-48,309	938	1,084,095
2001 Total	1,127,689	(°)	19,787	48,666	41,630	-2,966	1,060,146
2001 10101	1,127,003	()	13,707	40,000	41,000	2,500	1,000,140
2002 January	102,056	(C)	1,439	3,873	4,081	5,537	90,004
February	90,311	} c {	1,222	2,630	5,364	3,970	79,569
March	90,206	} c {	1,339	2,749	1,572	3,829	83.395
April	89.849	} c {	1,208	3,584	11,722	-2,938	78,688
May	91,478	} c ⟨	1,227	3,330	1,035	4,681	83,658
June	85,341	} c {	1,422	4,128	-5,678	-2,301	90,613
July	86,326	} c {	1,573	2,843	-10,022	-4,898	99,977
August	92,203	} c ⟨	1,555	3,529	-9,241	457	99,012
September	92,368	} c {	1,526	2,884	-1,726	1,431	91,305
October	94,608	} c {	1,369	4,407	4,288	-1,186	88,469
November	88,352	} c {	1,393	2,930	5,490	-5,690	87,016
December	91,184	} c {	1,602	2,712	3,330	-7,905	94,648
Total	1,094,283	} c {	16,875	39,601	10,215	-5,012	1,066,355
	.,,=	()	,	,	,	-,	1,000,000
2003 January	92,804	(c)	1,134	3,680	^R -5,041	^R -3,476	R 98,774
February	82,264	(c (1,804	2,428	R -6,041	^R 1,259	R 86,422
March	89,134	(c (2,017	2,410	R 3,235	R -889	R 86,395
April	89,378	(°)	2,390	3,571	^R 7,193	^R 1,698	^R 79,305
May	90,610	(c (2,109	3,875	R 4,084	R 930	R 83,830
June	88,511	(c)	1,894	4,003	R -2,515	R-937	R 89,854
July	88,534	(°)	2,619	4,223	^R -11,591	^R -2,192	R 100,712
August	89,586	(c)	2,133	4,164	R -9,221	^R 5,180	R _{101,956}
September	90,444	(c)	2,300	3,707	^R 5,610	R 3,738	R 90,910
October	94,058	(°)	2,545	3,997	^R 2,585	R 1,774	R 88,248
November	84,266	(c)	2,358	3,737	_ R 717	R -7,195	R 89,364
December	92,163	(c)	1,742	3,219	^R -4,650	^R -2,920	R 98,257
Total	1,071,753	(°)	25,044	43,014	-26,856	^R -13,388	R 1,094,028
0004 1	00.000	(0)	4 740	0.447	44 770	P.O. 400	P 400 001
2004 January	93,380	(c)	1,748	3,447	-11,770	R 3,160	R 100,291
February	86,490	(° (1,789	2,276	-3,076	R-1,771	R 90,849
March	94,698	(°)	1,788	3,965	4,690	R 2,047	R 85,784
April	91,759	(c)	2,157	5,359	9,148	R-170	R 79,580
May	87,229	(c)	2,232	4,910	38	R-3,308	R 87,821
June	94,961	\ c \	2,464	4,987	R-6,332	R 6,238	R 92,533
July	R 92,161	(c)	2,531	3,957	R -2,705	R -6,427	R 99,866
August	^R 95,109	(°)	2,494	4,067	^R -5,088	R -722	R 99,346
September	R 93,398	(c)	2,779	4,178	-5,281	5,173	92,107
October	93,240	(°)	NA	NA	NA	NA	NA
November	92,920	(c)	NA	NA	NA	NA	NA
11-Month Total	1,015,344	(°)	NA	NA	NA	NA	NA
2002 11 Manth Tata!	070 500	(0)	22 200	20.705	99.000	10.460	005 774
2003 11-Month Total 2002 11-Month Total	979,590 1,003,099	{ c }	23,302 15,274	39,795 36,889	-22,206 6,885	-10,468 2,892	995,771 971,706
ZOUZ I I-WOIIIII I I IIII	1,003,033	(-)	15,274	30,009	0,000	2,032	311,100

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

increase.

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

and waste coal, minus exports, stock change, and consumption.

f Included in "Losses and Unaccounted for."

g Includes stock change.
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.

For methodology used to calculate production, consumption, and stocks, see Notes 1, 2, and 3 at end of section.

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

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

Table 6.2 Coal Consumption by Sector

(Thousand Short Tons)

•	End-Use Sectors											
			Commerci	al			Industrial					
						0	ther Industria	al		1	Electric	
	Resi- dential	СНРа	Other ^b	Total	Coke Plants	СНРС	Non-CHPd	Total	Total	Trans- portation	Power Sector ^{e,f}	Total
1973 Total 1974 Total 1975 Total 1976 Total 1976 Total 1977 Total 1977 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 1988 Total 1989 Total 1999 Total 1999 Total 1995 Total 1996 Total 1997 Total 1998 Total 1998 Total 1997 Total 1998 Total 1998 Total 1998 Total	4,113 3,653 2,823 2,586 2,586 1,675 1,336 1,401 1,735 1,711 1,763 1,590 1,590 1,295 1,345 1,017 1,107 1,120 902 755 721 711 753 454 481	(9) (9) (9) (9) (9) (9) (9) (9) (9) (9)	7,004 7,764 6,587 6,330 6,447 7,323 6,710 5,097 6,085 6,839 7,096 7,395 6,068 5,904 5,324 5,561 3,747 4,189 3,767 3,769 3,769 3,763 3,633 3,635 4,015 2,879 2,803 2,126 2,441	7,004 7,764 6,587 6,330 6,447 7,323 6,710 5,097 6,085 6,839 7,096 7,395 6,068 5,904 5,324 5,561 4,872 5,379 4,907 5,101 5,111 5,052 5,285 5,752 4,293 3,673 3,888	94,101 90,191 83,598 84,704 77,739 71,394 77,368 66,657 61,014 40,908 34,022 41,056 35,924 36,957 41,888 40,508 38,877 33,854 32,366 31,323 31,740 33,011 31,706 30,203 28,189 28,108 28,108 28,108	(h) (h) (h) (h) (h) (h) (h) (h) (h) (h)	68,038 64,903 63,646 61,787 61,463 63,085 67,717 67,395 64,097 75,583 75,175 76,252 51,268 48,549 48,549 48,549 48,549 48,549 48,549 48,549 48,549 48,549 48,549 48,549 48,549 48,549 48,549 48,549 48,549 48,549 48,549 51,268 48,549 48,549 48,549 51,268 51	68,038 64,903 63,646 61,787 61,463 63,085 67,717 67,395 64,097 75,783 75,175 76,252 76,134 76,330 75,405 75,405 71,689 71,689 71,689 71,689 71,689 71,689 64,738 64,738 64,738 65,268	162,139 155,094 147,244 146,491 139,202 134,479 145,085 127,004 128,409 105,005 103,013 117,767 116,429 111,508 112,132 118,140 116,643 115,207 106,215 106,215 106,919 106,067 103,395 101,318 105,005 106,019 106,01	116 80 24 12 9 6 6 6 6 6 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7	389,212 391,811 405,962 448,371 477,126 481,235 527,051 569,274 596,797 593,666 717,894 685,056 717,894 758,372 772,190 782,567 783,874 795,094 831,645 838,354 850,921 940,922 985,821 964,433	562,584 558,402 562,640 603,790 625,291 625,225 680,524 702,730 732,627 706,911 736,672 791,296 818,049 804,231 836,941 836,941 836,941 836,941 836,941 1,026,321 1,026,321 1,026,321 1,026,344 1,037,103 1,038,647 1,038,647
2002 January	54 47 45 40 30 28 39 34 25 33 49 65	127 102 124 100 105 112 126 127 116 114 116 134 1,405	313 282 239 222 139 113 187 151 84 150 281 391 2,551	440 384 363 322 245 225 313 279 200 264 397 525 3,956	1,861 1,763 1,917 1,932 1,995 1,910 1,973 2,054 2,041 2,186 2,019 2,009 23,656	2,278 1,990 2,150 2,115 2,110 2,101 2,439 2,153 2,150 2,231 2,237 2,279 26,232	2,946 3,240 3,097 2,721 2,750 2,785 2,448 2,739 2,745 3,041 3,016 2,986 34,515	5,224 5,230 5,247 4,835 4,860 4,886 4,887 4,893 4,895 5,272 5,253 5,265 60,747	7,085 6,993 7,164 6,767 6,856 6,796 6,860 6,947 6,936 7,458 7,268 7,274	(h) (h) (h) (h) (h) (h) (h) (h) (h) (h)	82,424 72,144 75,823 71,560 76,528 83,565 92,766 91,752 84,144 80,714 79,301 86,784 977,507	90,004 79,569 83,395 78,688 83,658 90,613 99,977 99,012 91,305 88,469 87,016 94,648 1,066,355
2003 January	57 48 35 40 28 25 35 35 23 28 44 68 466	146 127 125 110 94 118 137 144 121 114 118 137 1,492	315 259 159 212 136 84 149 141 61 110 237 415 2,277	461 386 284 323 230 202 287 285 183 224 355 551 3,770	1,941 1,958 2,105 2,047 1,964 2,059 2,079 2,007 2,024 2,001 1,976 2,087 24,248	2,484 2,169 2,254 2,089 1,952 2,139 2,391 2,397 1,995 2,247 2,180 2,431 26,728	R 2,722 R 3,023 R 2,948 R 2,814 R 2,943 R 2,770 R 2,594 R 2,583 R 2,991 R 3,038 R 3,190 R 2,918 R 34,534	R 5,206 R 5,192 R 5,202 R 4,903 R 4,895 R 4,985 R 4,986 R 4,986 R 5,370 R 5,349	R 7,147 R 7,150 R 7,307 R 6,950 R 6,859 R 6,968 R 7,064 R 6,987 R 7,010 R 7,286 R 7,345 R 7,436	(h) (h) (h) (h) (h) (h) (h) (h) (h) (h)	91,109 78,838 78,770 71,993 76,714 82,659 93,326 94,649 83,695 80,710 81,620 90,201 1,004,283	R 98,774 R 86,422 R 86,395 R 79,305 R 83,830 R 89,854 R 100,712 R 101,956 R 90,910 R 88,248 R 89,364 R 98,257
2004 January	60 48 32 39 28 27 8 36 8 31 25 326	157 148 143 113 127 126 128 128 116 1,187	327 241 115 201 97 90 8 167 8 125 90 1,451	484 389 258 314 224 216 8 295 8 253 206 2,639	1,996 1,829 2,080 2,023 1,974 1,934 R 1,918 R 1,996 1,979 17,728	2,760 2,305 2,278 2,128 1,914 2,226 2,404 2,390 2,162 20,566	R 2,607 R 3,095 R 3,132 R 2,728 R 2,971 R 2,655 R 2,482 R 2,501 2,699 24,870	R 5,366 R 5,400 R 5,410 R 4,855 R 4,885 R 4,881 R 4,886 R 4,891 4,861 45,436	R 7,362 R 7,229 R 7,490 R 6,878 R 6,859 R 6,815 R 6,804 R 6,888 6,840 63,165	(h) (h) (h) (h) (h) (h) (h) (h) (h)	92,386 83,183 78,005 72,349 80,710 85,475 92,731 92,174 85,036 762,048	R 100,291 R 90,849 R 85,784 R 79,580 R 87,821 R 92,533 R 99,866 R 99,346 92,107 828,178
2003 9-Month Total 2002 9-Month Total	326 342	1,123 1,040	1,516 1,729	2,639 2,769	18,184 17,446	19,869 19,485	25,388 25,471	45,258 44,957	63,441 62,403	(h)	751,752 730,707	818,158 796,221

a Commercial combined-heat-and-power (CHP) and a small number of commercial electricity-only plants, such as those at hospitals and universities. See note at end of Section 7.

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

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

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

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

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

in 1989, data also include consumption at independent power producers.

9 Included in "Commercial Other."

h Included in "Industrial Non-CHP."
R=Revised.

Notes: • CHP monthly data are from Table 7.3c; electric power sector monthly data are from Table 7.3b; all other monthly values are estimated. See Note 2 at end of section. • Totals may not equal sum of components due to independent rounding. • Geographic coverage is the 50 States and the District of Columbia.

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

Table 6.3 Coal Stocks by Sector

(Thousand Short Tons)

			E	nd-Use Sectors				
	Producers	Residential		Industrial			Electric	
	and Distributors	and Commercial	Coke Plants	Othera	Total	Total	Power Sector ^{b,c}	Total
1973 Year	12.530	290	6.998	10,370	17,368	17,658	86.967	117.155
1974 Year	11,634	280	6,209	6,605	12,814	13,094	83,509	108,237
1975 Year	12,108	233	8,797	8,529	17,326	17,559	110,724	140,391
1976 Year	14.221	240	9,902	7.100	17,002	17,242	117,436	148.899
1977 Year	14,225	220	12,816	11,063	23,879	24,099	133,219	171,543
1978 Year	20,695	360	8,278	9,048	17,326	17,686	128,225	166,606
1979 Year	20,826	340	10,155	11,777	21,932	22,272	159,714	202,812
1980 Year	24,379	NA	9,067	11,951	21,018	21,018	183,010	228,407
1981 Year	24,149	NA	6,475	9,906	16,381	16,381	168,893	209,423
1982 Year	36,784	NA	4,642	9,479	14,121	14,121	181,132	232,038
1983 Year	33,931	NA	4,346	8,710	13,056	13,056	155,598	202,584
1984 Year	34,090	NA	6,166	11,317	17,483	17,483	179,727	231,300
1985 Year	33,133	NA	3,420	10,438	13,857	13,857	156,376	203,367
1986 Year	32,093	NA	2,992	10,429	13,420	13,420	161,806	207,319
1987 Year	28,321	NA	3,884	10,777	14,662	14,662	170,797	213,780
1988 Year	30,418	NA	3,137	8,768	11,906	11,906	146,507	188,831
1989 Year	29,000	NA	2,864	7,363	10,227	10,227	135,860	175,087
1990 Year	33,418	NA	3,329	8,716	12,044	12,044	156,166	201,629
1991 Year	32,971	NA	2,773	7,061	9,835	9,835	157,876	200,682
1992 Year	33,993	NA	2,597	6,965	9,562	9,562	154,130	197,685
1993 Year	25,284 33,219	NA NA	2,401 2,657	6,716	9,117 9,243	9,117 9,243	111,341	145,742
1994 Year	33,219	NA NA	2,632	6,585 5.702	9,243 8.334	9,243 8,334	126,897 126,304	169,358 169.083
1995 Year1996 Year	28,648	NA NA	2,667	5,702 5,688	8,355	8,355	114,623	151,627
1997 Year	33.973	NA NA	1.978	5,597	7,576	7,576	98,826	140,374
1998 Year	36.530	NA NA	2.026	5,545	7,570 7,571	7,570 7,571	120.501	164,602
1999 Year	39,475	NA NA	1.943	5,569	7,511	7,511	° 141,604	188,590
2000 Year	31,905	NA	1,494	4,587	6,081	6,081	102,296	140,282
2001 Year	35,900	NA	1,510	6,006	7,516	7,516	138,496	181,912
2002 January	39,548	NA	1,427	5,618	7,045	7,045	139,400	185,992
February	41,589	NA	1,387	5,230	6,616	6,616	143,151	191,356
March	40,284	NA	1,360	4,842	6,202	6,202	146,443	192,929
April	44,961	NA	1,399	4,916	6,314	6,314	153,375	204,651
May	43,946	NA	1,437	4,990	6,427	6,427	155,313	205,686
June	41,288	NA	1,522	5,064	6,586	6,586	152,134	200,008
July	40,496	NA	1,535	5,321	6,856	6,856	142,634	189,985
August	36,489 35,662	NA NA	1,548 1,561	5,578 5,834	7,125 7,395	7,125 7,395	137,130 135,962	180,745 179,019
September October	35,662	NA NA	1,495	5,820	7,395 7.315	7,395 7.315	135,962	183.307
November	36,954	NA NA	1,430	5,806	7,236	7,236	144,608	188,797
December	43,257	NA NA	1,364	5,792	7,156	7,256 7,156	141,714	192,127
	•		,	•	,	,	•	*
2003 January	44,648	NA	1,353	5,314	6,667	6,667	135,771	^R 187,085 ^R 181.044
February	46,039	NA	1,341	4,837	6,177	6,177	128,828	
March April	47,429 46.903	NA NA	1,329 1,377	4,359 4,297	5,688 5,674	5,688 5,674	131,162 138,895	184,279 R 191,472
May	46,903	NA NA	1,426	4,234	5,660	5,660	143,884	R 195,556
June	45,070	NA NA	1,474	4,172	5,646	5,646	142,325	193,041
July	42,735	NA NA	1,345	4,407	5,751	5,751	132,964	R 181,450
August	40,647	NA NA	1,215	4,642	5,857	5,857	125,725	R 172,229
September	38,231	NA	1,085	4,878	5,963	5,963	122,425	166,618
October	37,352	NA	1,025	4,824	5,849	5,849	126,002	^R 169,203
November	37,984	NA	965	4,771	5,736	5,736	126,200	R 169,920
December	38,277	NA	905	4,718	5,623	5,623	121,371	165,271
2004 January	^F 33,486	NA	1,020	4,458	5,478	5,478	114,537	153,501
February	F 34,947	NA	1,134	4,198	5,332	5,332	110,145	150,425
March	F 36,618	NA	1,249	3,938	5,187	5,187	113,310	155,115
April	F 37,489	NA	1,278	4,056	5,334	5,334	121,440	164,263
May	F 34,587	NA	1,307	4,175	5,482	5,482	124,232	164,301
June	F 35,299	NA	1,336	4,294	5,630	5,630	R 117,040	R 157,969
July	F 38,147	NA NA	R 1,289	R 4,482	R 5,771	R 5,771	111,346	R 155,264
August	F 35,357 F 31,939	NA	R 1,242	R 4,671	R 5,913	R 5,913	108,906	R 150,176
September	. 31,939	NA	1,196	4,859	6,055	6,055	106,901	144,895

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

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

are estimates derived from collected annual data; end-use sector monthly values are estimates derived from collected annual data; end-use sector monthly values are estimates derived from collected quarterly data; and electric power sector monthly values are data from Table 7.4. See Note 3 at end of section.

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

Geographic coverage is the 50 States and the District of Columbia. Web Page: http://www.eia.doe.gov/emeu/mer/coal.html.

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

plants only.

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

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

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

Coal

Note 1. Production: Preliminary monthly estimates of national coal production are the sum of weekly estimates developed by the Energy Information Administration (EIA) and published in the Weekly Coal Production report. When a week extends into a new month, production is allocated on a daily basis and added to the appropriate month. Weekly estimates are based on Association of American Railroads data showing the number of railcars loaded with coal during the week by Class I and certain other railroads. number is converted into tons of coal by EIA by using the average number of tons of coal per railcar loaded reported in the most recent "Quarterly Freight Commodity Statistics" from the Surface Transportation Board. If an average coal tonnage per railcar loaded is not available for a specific railroad, the national average is used. To derive the estimate of total weekly production, the total rail tonnage for the week is divided by the ratio of quarterly production shipped by rail and total quarterly production. Data for the corresponding quarter of previous years are used to derive this ratio. This method ensures that the seasonal variations are preserved in the production estimates.

When preliminary quarterly data become available, the monthly and weekly estimates are adjusted to conform to the quarterly figure. The adjustment procedure uses State-level production data and is explained in EIA's Quarterly Coal Report. Initial estimates of annual production published in January of the following year are based on preliminary production data covering the first 9 months (three quarters) and weekly/monthly estimates for the fourth quarter. The fourth quarter estimates may or may not be revised when preliminary data become available in March of the following year, depending on the magnitude of the difference between the estimates and the preliminary data. In any event, all quarterly, monthly, and weekly production figures are adjusted to conform to the final annual production data published in the Monthly Energy Review in the fall of the following year.

Note 2. Consumption: Coal consumption data are reported by major end-use sector. Forecast data for the most recent months (designated by an "F") are derived from forecasted values shown in the EIA *Short-Term Energy Outlook* (DOE/EIA-0202) table titled "U.S. Coal Supply and Demand: Mid World Oil Price Case." The monthly estimates are based on the quarterly values, which are released in March, June, September, and December. The estimates are revised quarterly as collected data become available from the data sources. Sector-specific information follows.

Residential and Commercial—Coal consumption by the residential and commercial sectors is reported to the Energy Information Administration (EIA) for the two sectors combined; EIA estimates the amount consumed by the

sectors individually. To create the estimates, it is first assumed that an occupied coal-heated housing unit consumes fuel at the same Btu rate as an oil-heated housing unit. Then, for the years in which data are available on the number of occupied housing units by heating source (1973-1981 and subsequent odd-numbered years), residential consumption of coal is estimated by the following steps: a ratio is created of the number of occupied housing units heated by coal to the number of occupied housing units heated by oil; that ratio is then multiplied times the Btu quantity of oil consumed by the residential sector to derive an estimate of the Btu quantity of coal consumed by the residential sector; and, finally, the amount estimated as the residential sector consumption is subtracted from the residential and commercial sectors' combined consumption to derive the commercial sector's estimated consumption. The 2003 share is applied to 2004 and succeeding years, and the other missing years' shares are interpolated.

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

Industrial Other-Prior to 1978, monthly consumption data for the other industrial sector (all industrial users minus coke plants) were derived by using reported data to modify baseline consumption figures from the most recent Bureau of the Census Annual Survey of Manufactures or Census of Manufactures. For 1978 and 1979, monthly estimates were derived from data reported on Forms EIA-3 and EIA-6. From 1980-1987, monthly figures were estimated by proportioning quarterly data by using the ratios of monthlyto-quarterly consumption data in 1979, the last year in which monthly data were reported on Form EIA-3. Quarterly consumption data were derived by adding beginning stocks at manufacturing plants to current receipts and subtracting ending stocks at manufacturing plants. In this calculation, current receipts were the greater of either reported receipts from manufacturing plants (Form EIA-3) or reported shipments to the other industrial sector (Form EIA-6), thereby ensuring that agriculture, forestry, fishing, mining, and construction consumption data were included where appropriate. Starting in January 1988, monthly consumption for the other industrial sector is estimated from reported quarterly data by using ratios derived from industrial production indices published by the Board of Governors of the Federal Reserve System. Indices for six major industry groups are

used as the basis for calculating the ratios: food manufacturing, which is North American Industry Classification System (NAICS) code 333; paper manufacturing, NAICS 322; chemical manufacturing, NAICS 325; petroleum and coal products, NAICS 324; nonmetallic mineral products manufacturing, NAICS 327; and primary metal manufacturing, NAICS 331. The monthly ratios are computed as the monthly sum of the weighted indices as a proportion of the quarterly sum of the weighted indices by using the 1977 proportion as the weights.

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

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

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

Residential and Commercial—Prior to 1980, stock estimates for the residential and commercial sector were taken directly from reported data. Beginning in 1980, stock estimates for the sector were considered to be statistically insignificant and are no longer collected.

Industrial Coke Plants—Prior to 1980, monthly stocks at coke plants were taken directly from reported data. From 1980 forward, coke plant stocks are estimated by using one-third of the current quarterly change to indicate the monthly change in stocks. Quarterly stocks are taken directly from data reported on Form EIA-5.

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

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

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

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

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

Table 6.1 Sources

Production

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

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

Waste Coal

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

Imports and Exports

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

Stock Change

Calculated from data in Table 6.3.

Losses and Unaccounted for

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

Consumption

Table 6.2.

Table 6.2 Sources

Residential and Commercial

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

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

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

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

Industrial Coke Plants

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

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

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

1985 forward: EIA, Form EIA-5, "Coke Plant Report-Quarterly."

Industrial Other

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

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

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

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

Transportation

1973–1976: DOI, BOM, Minerals Yearbook.

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

Electric Power

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

Table 6.3 Sources

Producers and Distributors

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

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

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

Residential and Commercial

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

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

Industrial Coke Plants

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

October 1977–1980: Energy Information Administration (EIA), Form EIA-5/5A, "Coke and Coal Chemicals-Monthly/Annual."

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

1985 forward: EIA, Form EIA-5, "Coke Plant Report-Quarterly."

Industrial Other

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

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

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

Electric Power

Table 7.4.

Section 7. Electricity

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

Net Generation. In September 2004, total net generation of electricity was 333 billion kilowatthours, 5 percent higher than September 2003.

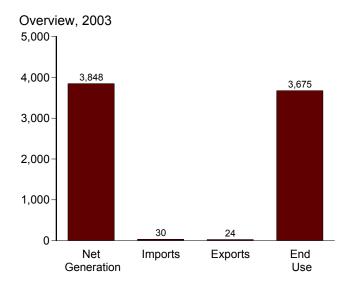
Consumption of Combustible Fuels. The consumption of coal for electricity generation and useful thermal output by all sectors was 87 million short tons in September 2004, 2 percent higher than in September 2003. Total petroleum consumption was 16 million barrels, 1 percent lower than a

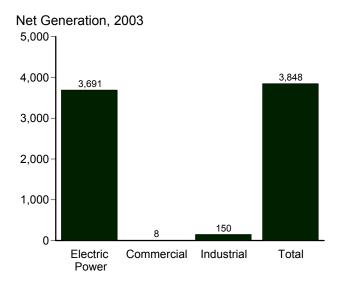
year earlier, and natural gas consumption was 614 billion cubic feet, 18 percent higher than a year ago.

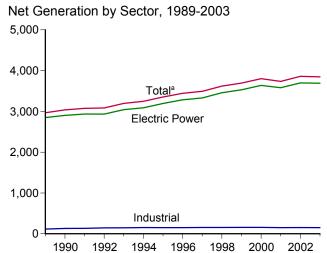
Stocks of Coal and Petroleum. Stocks of coal held by the electric power sector in September 2004 were 107 million short tons, 13 percent below the level held a year earlier. Total petroleum was 49 million barrels in September 2004, 8 percent lower than a year earlier.

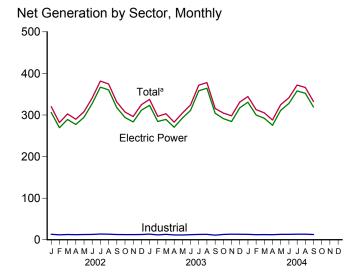
Retail Sales of Electricity. Total retail sales of electricity in September 2004 were 309 billion kilowatthours, 1 percent higher than sales in September 2003. Sales to residential users in September 2004 were 113 billion kilowatthours, 1 percent lower than a year ago; commercial sector sales were 109 billion kilowatthours, 1 percent higher than a year ago; and industrial sector sales were 86 billion kilowatthours, 2 percent higher than a year ago.

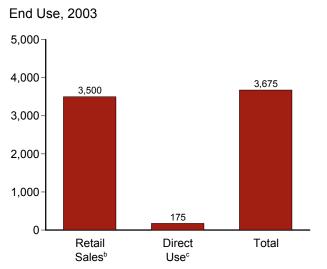
Figure 7.1 Electricity Overview (Billion Kilowatthours)

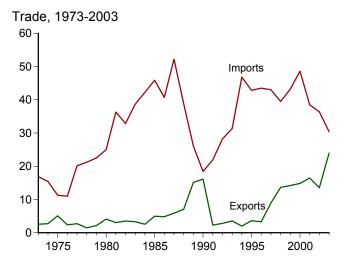












and electricity sales among adjacent or co-located facilities for which revenue information is not available.

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

Sources: Table 7.1.

^aIncludes commercial sector.

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

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

Table 7.1 **Electricity Overview**

(Billion Kilowatthours)

	Net Generation						Losses	End Use			
	Electric Power Sector ^a	Commercial Sector ^b	Industrial Sector ^c	Total	Imports ^d	Exports	and Unaccounted for ^e	Retail Sales ^f	Direct Use ⁹	Total	
1973 Total 1974 Total 1975 Total 1976 Total 1977 Total	1,861 1,867 1,918 2,038 2,124	NA NA NA NA	3 3 3 3 3	1,864 1,870 1,921 2,041 2,127	17 15 11 11 20	3 3 5 2 3	165 177 180 194 197	1,713 1,706 1,747 1,855 1,948	NA NA NA NA NA	1,713 1,706 1,747 1,855 1,948	
1978 Total 1979 Total 1980 Total 1981 Total 1982 Total 1983 Total	2,206 2,247 2,286 2,295 2,241 2,310	NA NA NA NA NA	3 3 3 3 3	2,209 2,251 2,290 2,298 2,244 2,313	21 23 25 36 33 39	1 2 4 3 4 3	211 200 216 184 187 198	2,018 2,071 2,094 2,147 2,086 2,151	NA NA NA NA NA	2,018 2,071 2,094 2,147 2,086 2,151	
1984 Total 1985 Total 1986 Total 1987 Total 1988 Total	2,416 2,470 2,487 2,572 2,704	NA NA NA NA NA	3 3 3 3 3	2,419 2,473 2,490 2,575 2,707	42 46 41 52 39	3 5 5 6 7	173 190 158 164 161	2,286 2,324 2,369 2,457 2,578	NA NA NA NA	2,286 2,324 2,369 2,457 2,578	
1989 Total 1990 Total 1991 Total 1992 Total 1993 Total 1994 Total	2,848 2,901 2,936 2,934 3,044 3,089	4 6 6 7 8	115 131 133 143 146 151	2,967 3,038 3,074 3,084 3,197 3,248	26 18 22 28 31 47	15 16 2 3 4 2	223 214 213 224 236 224	2,647 2,713 2,762 2,763 2,861 2,935	108 114 118 122 128 134	2,755 2,827 2,880 2,886 2,989 3,069	
1995 Total	3,194 3,284 3,329 3,457 3,530	8 9 9 9	151 151 154 154 154 156	3,353 3,444 3,492 3,620 3,695	43 43 43 40 43	4 3 9 14 14	235 237 232 232 221 229	3,013 3,101 3,146 3,264 3,312	144 146 148 161 183	3,157 3,247 3,294 3,425 3,495	
2000 Total 2001 Total	3,638 3,580	8 7	157 149	3,802 3,737	49 39	15 16	231 215	3,421 3,370	183 E 174	3,605 3,544	
2002 January	306 269 289 277 295 328 367 360 318 294 283 312 3,698	1 (s) 1 1 1 1 1 1 1 1 1 7	13 12 13 12 13 13 14 13 13 12 12 12	320 282 303 290 308 341 382 375 331 307 296 325 3,858	3 3 3 3 2 3 4 4 3 2 3 2 3 2 3 2 3 2 3 2	1 1 2 1 2 1 1 1 1 1 1 1 1	15 6 22 19 24 30 33 24 9 11 21 27 241	292 264 267 259 269 298 337 338 309 283 262 284 3,463	E 15 E 14 E 15 E 15 E 15 E 15 E 15 E 15 E 15 E 178	307 278 282 273 284 313 352 353 324 298 276 299 3,641	
2003 January	323 284 289 270 292 311 358 364 304 291	1 1 1 1 1 1 1	14 12 13 12 11 12 13 13 13 13	338 297 303 283 305 324 372 378 316 305	3 3 3 3 3 4 4 2	1 2 3 2 2 2 1 1 2 3	16 1 14 13 21 21 26 24 -6	308 283 274 256 269 289 334 341 307 279	E 15 E 13 E 15 E 14 E 15 E 15 E 15 E 15	323 297 289 270 284 304 348 356 322 293	
November December Total	284 317 3,691	1 1 8	13 13 150	298 331 3,848	1 2 30	2 2 24	19 21 179	264 295 3,500	E 14 E 15 E 175	279 310 3,675	
2004 January	331 300 292 275 311 328 358	1 1 1 1 1	13 12 12 12 13 13	344 313 305 288 325 341 372	2 2 2 2 2 3 4	2 2 3 2 2 2	23 12 11 11 31 20 26	307 287 278 262 279 308 334	E 15 E 14 E 15 E 14 E 15 E 14	322 301 293 277 294 322 349	
August September 9-Month Total	352 319 2,867	1 1 6	13 13 115	366 333 2,988	5 3 25	1 2 18	25 10 168	330 309 2,696	E 15 E 14 E 131	345 323 2,827	
2003 9-Month Total 2002 9-Month Total	2,798 2,809	6	110 115	2,914 2,930	26 29	17 10	130 182	2,662 2,634	E 133	2,793 2,768	

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

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

plants. See note at end of section.

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

power only.

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

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

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

other energy service providers.

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

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

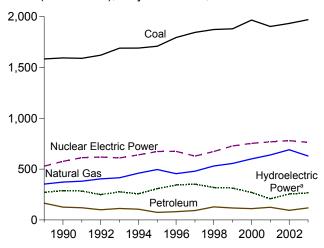
Notes: • Totals may not equal sum of components due to independent rounding. • Geographic coverage is the 50 states and the District of Columbia.

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

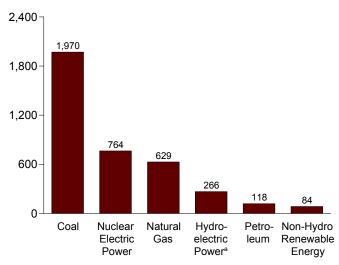
Sources: • Net Generation: Tables 7.2a-7.2c. • Imports and Exports: See end of section. • Losses and Unaccounted for: Calculated as the sum of total context reportion and imports minus total and use and synchological formation. net generation and imports minus total end use and exports. • End Use: Table 7.5.

Figure 7.2 Electricity Net Generation (Billion Kilowatthours)

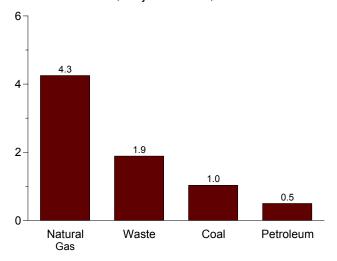
Total (All Sectors), Major Sources, 1989-2003



Total (All Sectors), Major Sources, 2003

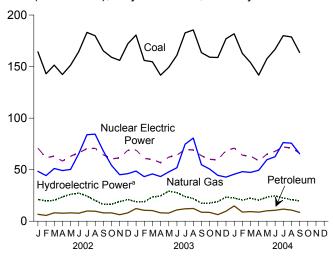


Commercial Sector, Major Sources, 2003

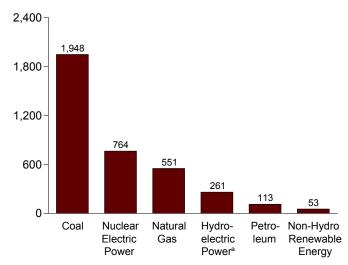


^aConventional and pumped storage hydroelectric power.

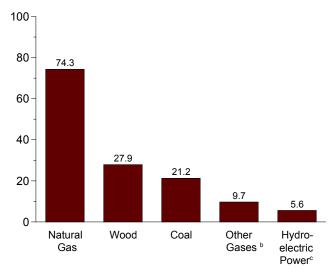
Total (All Sectors), Major Sources, Monthly



Electric Power Sector, Major Sources, 2003



Industrial Sector, Major Sources, 2003



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

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

^cConventional only.

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

(Million Kilowatthours)

		Fossil F	uels						Renewable	Energy			
	Coal ^a	Petro- leum ^b	Natural Gas ^c	Other Gases ^d	Nuclear Electric Power	Hydro- electric Pumped Storage ^e	Conven- tional Hydro- electric Power	Wood ^f	Waste ⁹	Geo- thermal	Solar ^h	Wind	Total ⁱ
1973 Total 1974 Total 1975 Total 1976 Total 1977 Total 1977 Total 1978 Total 1978 Total 1980 Total 1981 Total 1982 Total 1983 Total 1984 Total 1985 Total 1986 Total 1987 Total 1987 Total 1987 Total 1988 Total 1998 Total 1999 Total 1991 Total 1992 Total 1993 Total 1994 Total 1995 Total 1995 Total 1997 Total 1998 Total 1997 Total 1998 Total 1997 Total 1998 Total 1998 Total 1999 Total 1997 Total 1998 Total 1998 Total 1998 Total 1998 Total 1999 Total 1999 Total	1,192,004 1,259,424 1,341,681 1,402,128 1,385,831 1,463,781 1,540,653 1,583,779 1,594,011 1,590,623 1,690,694 1,709,426 1,795,196 1,845,016 1,873,516 1,881,087 1,966,265	314,343 300,931 289,095 319,988 358,179 365,060 303,525 245,994 206,421 146,797 144,499 119,808 100,202 136,585 118,493 148,900 164,518 126,621 119,752 100,154 112,788 105,901 74,554 81,411 92,555 128,800 118,061 111,221 124,880	340,858 320,065 299,778 294,624 305,505 305,391 329,485 346,240 345,777 305,260 274,098 297,394 291,946 248,508 272,621 252,801 352,629 372,765 381,553 404,074 414,927 460,219 496,058 455,056 479,399 531,257 556,396 601,038 639,129	NA NA NA NA NA NA NA NA NA NA NA NA 11,336 13,379 12,956 13,319 13,876 13,492 14,126 13,955 9,039	83,479 113,976 172,505 191,104 250,883 276,403 255,155 251,116 272,674 282,773 327,634 383,691 414,038 455,270 526,973 529,355 576,862 612,565 618,776 610,291 640,440 673,402 674,729 628,644 673,702 728,254 753,893 768,826	(i) (i) (i) (i) (i) (i) (i) (i) (i) (i)	275,431 304,212 303,153 286,924 223,599 283,465 279,182 263,845 312,374 335,291 324,311 294,005 252,856 226,101 271,977 292,866 288,994 260,126 310,833 347,162 356,453 323,336 275,573 216,961	130 69 18 84 307 207 245 196 216 461 743 442 783 27,237 36,529 37,623 37,937 36,521 37,623 37,937 36,521 37,937 36,521 37,937 36,521 37,937 36,521 37,937 36,521 37,937 36,521 37,937 36,521 37,937 36,521 37,937 37	198 182 174 182 173 140 198 158 123 125 640 685 694 738 9,163 13,260 15,665 17,816 18,333 19,129 20,405 20,405 21,709 22,448 22,572 23,131 21,765	1,966 2,453 3,246 3,616 3,582 2,978 3,889 5,686 4,843 5,686 10,775 10,300 14,593 15,434 15,966 16,138 16,789 15,535 13,378 14,726 14,727 14,093 13,741	NA NA NA NA NA NA NA NA NA 111 144 10 9 251 1367 472 402 487 497 497 493 543	NA NA NA NA NA NA NA NA NA NA 1 2,112 2,789 2,951 2,888 3,006 3,447 3,164 4,488 3,023 4,488 5,593 6,737	1,864,057 1,870,319 1,920,755 2,040,914 2,127,447 2,209,377 2,250,665 2,289,600 2,297,973 2,244,372 2,313,446 2,419,465 2,473,002 3,490,471 2,575,288 2,707,411 2,967,306 3,037,988 3,073,799 3,083,882 3,197,191 3,247,522 3,353,487 3,444,188 3,492,172 3,620,295 3,694,810 3,802,105 3,736,644
Populary February February March April May June July August September October November December Total	164,358 143,049 151,486 142,305 151,406 164,668 183,195 179,955 165,366 159,099 156,054 172,190 1,933,130	6,690 5,664 8,217 7,834 8,127 7,796 9,913 9,737 8,075 8,116 6,287 8,112 94,567	48,413 44,308 51,214 49,146 50,275 65,631 83,917 84,477 68,161 54,201 45,161 46,100 691,006	923 760 904 890 910 1,009 1,071 1,117 1,053 908 894 1,025 11,463	70,926 61,658 63,041 58,437 63,032 66,372 70,421 70,778 64,481 60,493 61,520 68,905 780,064	-750 -586 -684 -585 -539 -863 -998 -935 -777 -681 -666 -680	21,795 20,192 21,009 24,247 26,663 28,213 25,471 21,084 17,087 17,171 19,730 21,669 264,329	3,255 2,844 2,961 3,196 3,161 3,395 3,440 3,369 3,313 3,346 3,161 3,222 38,665	1,879 1,666 1,901 1,771 1,925 1,969 2,088 2,096 1,941 1,837 1,849 1,934 22,857	1,287 1,132 1,245 1,115 1,216 1,151 1,262 1,227 1,195 1,235 1,189 1,236	11 24 44 46 58 96 86 75 53 31 28 4 555	811 714 852 1,024 1,078 1,126 890 977 736 734 656 755 10,354	319,941 281,826 302,549 289,848 307,675 341,023 381,542 374,586 331,279 307,059 296,290 324,834 3,858,452
2003 January February March April May June July August September October November December Total	180,632 156,063 154,690 141,676 149,296 161,009 182,761 185,595 163,589 159,162 158,824 176,975 1,970,273	12,338 10,560 10,323 8,148 7,971 10,968 12,102 12,345 8,716 8,599 6,434 9,752 118,256	48,684 43,291 45,901 43,341 47,854 51,899 74,809 80,665 54,833 50,604 44,515 42,810 629,207	908 730 900 734 757 863 898 818 830 1,037 1,233 1,229 10,937	69,211 60,942 59,933 56,776 62,194 64,181 69,653 69,024 63,584 60,016 59,6600 68,612 763,725	-760 -774 -797 -554 -619 -780 -755 -818 -785 -634 -715 -677 -8,668	19,714 19,630 24,349 25,002 29,928 28,500 24,681 22,837 18,215 18,310 19,733 24,107 275,007	2,976 2,681 3,151 2,992 2,792 2,942 3,109 3,009 2,714 3,194 4,064 3,329 36,951	1,741 1,619 1,928 1,905 1,923 1,917 2,027 1,965 1,770 1,948 1,975 2,092	1,144 1,028 1,118 1,043 1,035 1,099 1,099 1,096 1,086 1,077 1,085 1,246	13 18 50 60 68 91 63 62 56 36 14 4 535	558 692 1,008 1,099 891 964 917 779 824 909 995 1,095 10,729	337,504 296,735 303,087 282,721 304,550 324,042 371,782 377,929 315,800 304,711 298,165 330,967 3,847,990
2004 January		14,896 8,924 9,383 8,771 10,102 10,589 11,775 10,791 8,611 93,841	45,585 48,111 47,394 49,485 59,612 62,578 76,329 75,707 65,439 530,240	1,262 1,181 1,264 1,322 1,275 1,332 1,288 1,295 1,368 11,587	70,789 64,103 63,285 58,635 64,917 67,787 71,975 71,064 65,932 598,489	-753 -642 -683 -670 -664 -676 -663 -805 -745	23,228 21,172 23,012 21,110 23,988 25,258 23,213 21,638 20,594 203,211	3,216 3,038 3,041 3,016 2,935 2,926 3,214 3,207 3,007 27,601	1,866 1,709 1,870 1,889 2,022 1,946 2,027 2,011 1,783 17,124	1,254 1,177 1,199 1,119 1,172 1,190 1,241 1,219 1,151 10,723	12 18 53 57 81 88 82 73 60 523	918 967 1,187 1,236 1,635 1,360 1,096 1,098 10,485	344,419 312,843 305,207 287,978 324,908 341,381 371,953 366,270 32,564 2,987,522
2003 9-Month Total 2002 9-Month Total		93,471 72,053	491,278 545,544	7,438 8,636	575,497 589,145	-6,642 -6,716	212,856 205,759	26,365 28,935	16,795 17,236	9,741 10,830	481 491	7,729 8,209	2,914,147 2,930,270

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

synthetic coal.

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

petroleum, and waste oil.

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

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

derived from rossil fuels.

By Pumped storage facility production minus energy used for pumping.

Wood, black liquor, and other wood waste.

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

h Solar thermal and photovoltaic energy.

i "Total" includes batteries, chemicals, hydrogen, pitch, purchased steam, sulfur, and miscellaneous technologies, which are not separately displayed.

J Included in "Conventional Hydroelectric Power."

k Hydroelectric data through 1988 are for generation at electric utilities and industrial plants only; beginning in 1989, data also include generation at independent power producers and commercial plants. For all other series, data through 1988 are for generation at electric utilities only; beginning in 1989, data also include generation at independent power producers, commercial plants, and industrial plants industrial plants.

NA=Not available.

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

Electricity Net Generation: Electric Power Sector Table 7.2b

(Million Kilowatthours)

		Fossil F	uels						Renewable	Energy			
	Coala	Petro- leum ^b	Natural Gas ^c	Other Gases ^d	Nuclear Electric Power	Hydro- electric Pumped Storage ^e	Conven- tional Hydro- electric Power	Wood ^f	Waste ⁹	Geo- thermal	Solar ^h	Wind	Total ⁱ
1973 Total 1974 Total 1975 Total 1976 Total 1976 Total 1977 Total 1978 Total 1978 Total 1980 Total 1981 Total 1982 Total 1983 Total 1984 Total 1985 Total 1986 Total 1987 Total 1987 Total 1987 Total 1988 Total 1989 Total 1999 Total 1991 Total 1992 Total 1993 Total 1994 Total 1994 Total 1995 Total 1994 Total 1995 Total 1996 Total 1997 Total 1997 Total 1998 Total 1997 Total 1998 Total 1998 Total 1998 Total 1999 Total	1,161,562 1,203,203 1,192,004 1,259,424 1,341,681 1,402,128 1,385,831 1,463,781 1,562,366 1,572,109 1,568,846 1,597,714 1,665,464 1,666,276 1,686,056 1,771,973 1,820,762 1,850,193 1,858,0193 1,858,111	314,343 300,931 289,095 319,988 358,179 365,060 303,525 245,994 206,421 146,797 144,499 119,808 100,202 136,585 118,493 148,900 159,005 118,864 112,798 92,238 105,425 98,677 68,146 74,783 86,479 122,211 111,539 105,192 119,149	340,858 320,065 299,778 294,624 305,505 305,391 329,485 346,240 345,777 305,260 274,098 297,394 291,946 248,508 272,621 252,801 297,295 309,486 317,773 334,274 342,222 385,689 419,179 378,757 379,596 449,292 472,996 517,978 554,940	NA NA NA NA NA NA NA NA NA NA NA 454 621 719 1,212 967 1,092 1,927 1,927 1,341 1,533 2,315 1,607 2,028 586	83,479 113,976 172,505 191,104 250,883 276,403 255,1516 272,674 282,773 293,677 327,634 383,691 414,038 455,270 526,973 529,355 576,862 612,565 618,776 640,440 673,402 674,729 628,644 673,702 728,254 753,893 768,826	(j) (j) (j) (j) (j) (j) (j) (j) (j) (j)	272,083 301,032 300,047 283,707 280,419 279,76,021 260,684 309,213 332,130 321,150 281,149 299,844 249,695 222,940 269,189 250,016 277,524 254,005 305,410 341,159 350,648 317,867 314,663 271,338 271,338 213,749	130 69 18 84 308 197 300 275 245 196 216 461 743 492 492 492 7,736 8,491 9,152 9,232 7,597 8,680 8,680 8,680 8,961 8,916 8,294	198 182 174 182 173 140 198 158 123 125 640 685 694 738 7,743 11,500 13,854 15,924 16,223 16,984 17,816 17,816 18,485 19,233 19,433 20,307 19,486	1,966 2,453 3,616 3,616 3,582 2,978 3,889 5,073 5,686 4,843 6,075 7,741 9,325 10,308 14,593 15,434 15,966 16,138 16,789 15,535 13,378 14,726 14,774 14,827 14,093 13,741	NA NA NA NA NA NA NA NA 11 14 10 9 251 472 402 487 497 521 511 502 493 543	NA NA NA NA NA NA NA NA NA NA NA 1 2,112 2,789 2,951 2,888 3,006 3,447 3,164 3,288 3,026 4,488 5,593 6,737	1,860,710 1,867,139 1,917,649 2,037,696 2,124,323 2,206,331 2,247,372 2,286,439 2,294,812 2,241,211 2,3416,304 2,469,841 2,487,310 2,572,127 2,704,250 2,848,227 2,901,322 2,935,561 2,934,374 3,043,897 3,088,725 3,194,230 3,284,141 3,329,375 3,457,416 3,529,382 3,637,529 3,580,053
2002 January	162,521 141,430 149,724 140,498 149,646 162,736 181,001 177,962 163,497 157,195 154,172 170,231	6,265 5,300 7,826 7,463 7,767 7,428 9,504 9,350 7,703 7,690 5,817 7,620 89,733	40,827 37,533 43,875 42,701 43,200 58,686 76,391 76,936 61,381 47,932 38,737 39,484 607,683	201 107 160 131 128 140 198 202 181 171 165 186 1,970	70,926 61,658 63,041 58,437 63,032 66,372 70,421 70,778 64,481 60,493 61,520 68,905 780,064	-750 -586 -684 -585 -539 -863 -998 -935 -777 -681 -666 -680 -8,743	21,498 19,912 20,732 23,929 26,375 27,957 25,196 20,806 16,839 16,828 19,282 21,138 260,491	805 652 776 661 702 749 801 779 808 739 756 782 9,009	1,665 1,481 1,688 1,562 1,694 1,742 1,840 1,836 1,699 1,624 1,619 1,732 20,180	1,287 1,132 1,245 1,115 1,216 1,151 1,262 1,227 1,195 1,235 1,189 1,236	11 24 44 46 58 86 75 53 31 28 4 555	811 714 852 1,024 1,078 1,126 890 977 736 734 656 755 10,354	306,171 269,476 289,322 277,126 294,517 327,553 366,980 360,351 317,976 294,096 283,374 311,516 3,698,458
2003 January	178,525 154,267 152,801 139,899 147,568 159,239 180,771 183,600 161,900 157,345 157,073 175,019 1,948,007	11,653 10,021 9,805 7,743 7,541 10,500 11,630 11,895 8,346 8,111 6,064 9,212	41,058 36,778 39,085 37,302 41,967 45,284 67,944 73,491 49,084 43,940 38,250 36,464 550,647	111 97 99 123 105 94 92 90 94 112 110 103 1,230	69,211 60,942 59,933 56,776 62,194 64,181 69,653 69,024 63,584 60,016 59,600 68,612 763,725	-760 -774 -797 -554 -619 -780 -755 -818 -785 -634 -715 -677	19,295 19,263 23,816 24,577 29,367 27,995 24,173 22,331 17,783 17,899 19,289 23,500 269,289	820 700 754 703 604 688 819 835 721 805 781 816 9,047	1,534 1,429 1,673 1,657 1,670 1,671 1,782 1,706 1,517 1,677 1,727 1,827	1,144 1,028 1,118 1,043 1,035 1,092 1,099 1,096 1,086 1,077 1,085 1,246	13 18 50 60 68 91 63 62 56 36 14 4 535	558 692 1,008 1,009 891 964 917 779 824 909 995 1,095 10,729	323,210 284,466 289,424 270,496 292,431 311,065 358,244 364,220 304,244 291,341 284,297 317,231 3,690,670
2004 January	155,821 164,901 178,005 176,815 162,053 1,470,548	14,152 8,517 8,972 8,368 9,712 10,159 11,334 10,368 8,234 89,816	39,351 41,725 40,843 43,131 52,275 55,515 69,025 68,378 58,472 468,714	145 142 175 223 179 204 283 261 301 1,913	70,789 64,103 63,285 58,635 64,917 67,787 71,975 71,064 65,932 598,489	-753 -642 -683 -670 -664 -676 -663 -805 -745 -6,300	22,710 20,725 22,593 20,736 23,604 24,914 22,872 21,274 20,122 199,550 208,600	826 792 788 690 715 701 850 852 783 6,997	1,648 1,505 1,642 1,634 1,757 1,692 1,763 1,740 1,560 14,942	1,254 1,177 1,199 1,119 1,172 1,190 1,241 1,219 1,151 10,723	12 18 53 57 81 88 82 73 60 523	918 967 1,187 1,236 1,635 1,360 1,096 997 1,088 10,485 7,729	330,891 300,051 292,194 275,242 311,233 327,841 357,879 352,261 319,242 2,866,833 2,797,801
2002 9-Month Total		68,606	481,531	1,449	589,145	-6,716	203,244	6,733	15,206	10,830	491	8,209	2,809,472

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

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

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

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

be identified separately.

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

derived from fossil fuels.

e Pumped storage facility production minus energy used for pumping.

f Wood, black liquor, and other wood waste.

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

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

Table 7.2c Electricity Net Generation: Commercial and Industrial Sectors

(Million Kilowatthours)

		Com	mercial Se	ectora					Industria	I Sector ^b			
	Coalc	Petro- leum ^d	Natural Gas ^e	Waste ^f	Total	Coalc	Petro- leum ^d	Natural Gas ^e	Other Gases ^h	Hydro- power ⁱ	Wood ^j	Waste ^f	Total ^k
1989 Total	736	558	2,155	527	4,251	20,677	4,955	53,179	7,297	2,722	21,557	893	114,828
1990 Total	796	589	3,272	812	5,837	21,107	7,169	60,007	9,641	2,975	25,379	949	130,830
1991 Total	775	413	3,213	883	5,659	21,002	6,540	60,567	10,501	2,844	25,863	927	132,579
1992 Total	749	302	3,867	961	6,228	22,743	7,615	65,933	11,953	2,950	27,916	932	143,280
1993 Total	864	334	4,471	1.018	7,000	23,742	7.028	68,234	11,890	2.871	28,358	1.092	146,294
1994 Total	850	417	4,929	1,162	7,619	23,568	6,808	69,600	12,112	6,028	28,650	983	151,178
1995 Total	998	379	5,162	1,519	8,232	22,372	6,030	71,717	11,943	5,304	28,868	900	151,025
1996 Total	1,051	369	5,249	2,176	9,030	22,172	6,260	71,049	13,015	5,878	28,354	919	151,017
1997 Total	1,040	427	4,725	2,342	8,701	23,214	5,649	75,078	11,814	5,685	28,225	882	154,097
1998 Total	985	383	4,879	2,335	8,748	22,337	6,206	77,085	11,170	5,349	27,693	880	154,132
1999 Total	995	434	4,607	2,393	8,563	21,474	6,088	78,793	12,519	4,758	28,060	686	156,264
2000 Total	1,097	432	4,262	1,985	7,903	22,056	5,597	78,798	11,927	4,135	28,652	839	156,673
2001 Total	995	438	4,434	1,464	7,416	20,135	5,293	79,755	8,454	3,145	26,888	815	149,175
2002 January	85	35	355	111	597	1,752	390	7,231	721	296	2,448	103	13,173
February	70	36	291	92	500	1,548	327	6,484	653	279	2,190	92	11,850
March	84	32	338	110	573	1,677	359	7,001	743	276	2,184	103	12,654
April	66	27	328	117	546	1,741	343	6,118	759	317	2,535	92	12,176
May	69	27	314	145	566	1,691	333	6,761	781	287	2,459	86	12,592
June	83	30	378	141	642	1,848	338	6,567	868	255	2.646	87	12,829
July	101	38	448	145	743	2,092	371	7,079	873	273	2,638	103	13,820
August	102	37	490	157	797	1,891	350	7,051	915	277	2,589	102	13,438
September	88	34	392	153	676	1.782	339	6.388	872	247	2.505	89	12,628
October	78	31	344	138	600	1,827	395	5,925	737	343	2,607	75	12,363
November	78	38	294	142	554	1,804	432	6,131	730	447	2,405	89	12,361
December	88	65	339	120	622	1,872	426	6,277	840	529	2,439	83	12,697
Total	992	431	4,310	1,572	7,415	21,525	4,403	79,013	9,493	3,825	29,643	1,104	152,580
2003 January	90	98	376	132	703	2,017	587	7,250	797	413	2,155	75	13,591
February	86	77	293	121	584	1,710	462	6,220	633	362	1,980	69	11,685
March	85	42	356	168	662	1,804	476	6,460	802	524	2,396	88	13,001
April	81	23	341	171	632	1,696	381	5,698	610	414	2,288	77	11,593
May	66	23	415	168	694	1,663	406	5,472	652	539	2,187	85	11,425
June	83	32	466	165	752	1,686	436	6,150	769	499	2,253	81	12,225
July	100	39	396	164	713	1,890	434	6,468	805	498	2,289	82	12,825
August	103	44	427	161	745	1,892	407	6,748	729	497	2,173	97	12,963
September	87	27	284	152	554	1,602	343	5,465	736	428	1,992	101	11,001
October	79	27	322	171	604	1,738	461	6,342	926	407	2,389	100	12,766
November	82	26	293	146	552	1,669	345	5,973	1,124	440	3,281	102	13,315
December	89	43	284	167	590	1,867	497	6,062	1,125	601	2,511	98	13,146
Total	1,033	499	4,252	1,888	7,785	21,233	5,235	74,308	9,707	5,621	27,895	1,053	149,534
2004 January	97	102	297	137	639	1,929	642	5,937	1,118	514	2,389	81	12,890
February	98	39	313	124	583	1,786	367	6,073	1,039	440	2,245	80	12,209
March	91	37	300	141	581	1,781	374	6,251	1,089	408	2,253	87	12,432
April	72	34	285	149	550	1,659	370	6,069	1,099	363	2,325	107	12,186
May	90	29	337	164	633	1,674	362	7,000	1,096	371	2,219	101	13,042
June	97	30	342	158	638	1,742	400	6,722	1,128	332	2,224	96	12,903
July	105	35	378	160	683	1,905	405	6,926	1,005	335	2,363	104	13,391
August	108	32	376	157	678	1,840	390	6,954	1,034	360	2,355	113	13,331
September	95	25	367	143	635	1,658	352	6,600	1,068	467	2,223	80	12,687
9-Month Total	851	362	2,995	1,332	5,620	15,974	3,663	58,531	9,674	3,590	20,596	850	115,070
2003 9-Month Total	782	403	3,354	1,403	6,039	15,959	3,933	55,931	6,532	4,173	19,714	753	110,308
2002 9-Month Total	748	297	3,333	1,172	5,638	16,024	3,150	60,679	7,187	2,506	22,193	858	115,159

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

derived from fossil fuels.

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

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

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

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

petroleum, and waste oil. e Natural gas, plus a small amount of supplemental gaseous fuels that cannot be identified separately.

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

byproducts, and other biomass.

⁹ Includes a small amount of other gases, wood, and other, which are not

separately displayed.

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

Conventional hydroelectric power.

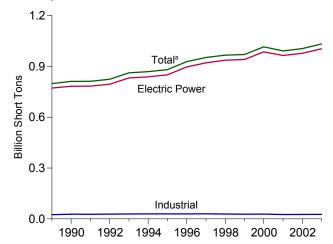
Wood, black liquor, and other wood waste.

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

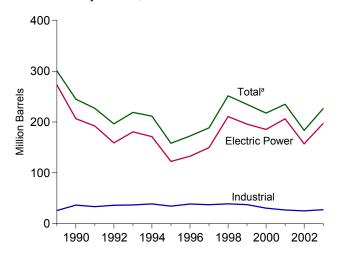
Notes: • Totals may not equal sum of components due to independent rounding. • Geographic coverage is the 50 states and the District of Columbia.

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

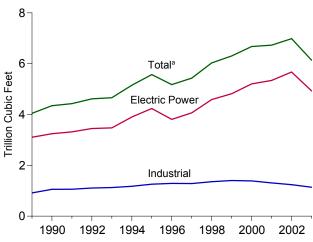




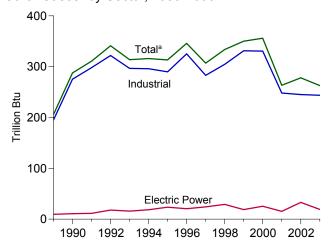
Petroleum by Sector, 1989-2003



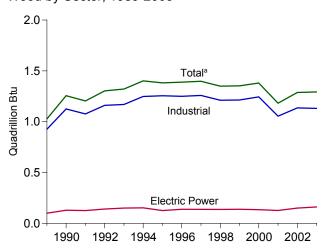
Natural Gas by Sector, 1989-2003



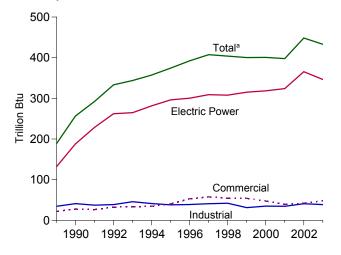
Other Gases^b by Sector, 1989-2003



Wood by Sector, 1989-2003



Waste by Sector, 1989-2003



^aIncludes commercial sector.

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

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

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

				Petroleum							
	Coal ^a	Distillate Fuel Oil ^b	Residual Fuel Oil ^c	Other Liquids ^d	Petroleum Coke ^e	Total ^e	Natural Gas ^f	Other Gases ^g	Wood ^h	Waste ⁱ	Other ^j
	Thousand Short Tons	Tł	nousand Barre	els	Thousand Short Tons	Thousand Barrels	Billion Cubic Feet		Trillic	on Btu	
1000 T-4-1	700 404	00.140	000 044	656	045	000 500	4.040	000	4 000	400	0.0
1989 Total 1990 Total	798,181 811,538	29,143 20,194	266,211 209,314	656 1,332	915 2,832	300,583 244,998	4,049 4,346	206 288	1,028 1,256	189 257	8
1991 Total	812,124	19,590	193,073	1,215	2,566	226.708	4,429	311	1,204	292	11-
1992 Total	824,512	16,852	160,941	1,695	3,366	196,318	4,618	341	1,303	333	9
1993 Total	861,904	19,293	176,992	1,571	4,200	218,855	4,662	314	1,321	344	8
1994 Total	869,405	25,177	164,047	1,539	4,157	211,547	5,151	316	1,401	357	9
1995 Total	881,012	21,697	112,168	1,322	4,590	158,140	5,572	313	1,382	374	9
1996 Total	928,015	22,444	124,607	2,468	4,596	172,499	5,178	346	1,389	392	9
997 Total	952,955	22,893	134,623	526	6,095	188,517	5,433	307	1,397	407	10
1998 Total	966,615	30,006	189,267	1,230	6,196	251,486	6,030	334	1,349	404	9
1999 Total	970,175	30,616	172,319	1,812	5,989	234,694	6,305	350	1,352	400	10
2000 Total		34,572	156,673	2,904	4,669	217,494	6,677	356	1,380	401	10
2001 Total	991,635	33,724	177,137	1,418	4,532	234,940	6,731	263	1,182	398	9
2002 January	84,830	2,073	8,147	295	570	13,365	501	23	109	37	
February	74,236	1,343	6,768	185	566	11,125	449	20	94	33	
March	78,096	2,078	10,451	267	603	15,812	520	22	99	37	
April	73,775	1,904	9,743	259	575	14,779	508	21	100	35	
May	78,744	2,261	9,748	297	634	15,475	523	22	108	37	
June	85,778	1,853	9,761	216	693	15,296	660	24	101	38	
July	95,331	2,849	12,533	309	654	18,963	852	25	116	40	
August	94,033	2,637	12,336	283	709	18,798	833	24	103	40	
September	86,410	1,862	10,086	211	651	15,414	676	25	113	37	
October	83,060	2,172	10,271	261	572	15,563	546	23	120	37	
November	81,654	1,689	8,045	285	533	12,686	454	24	108	37	
December	89,198	2,028	10,747	388	594	16,132	464	25	114	39	
Total	1,005,144	24,749	118,637	3,257	7,353	183,409	6,986	278	1,287	448	9
003 January	93,739	5,235	15,522	398	527	23,791	480	21	97	32	
February	81,134	4,228	13,434	542	438	20,395	427	19	92	30	
March	81,148	3,704	13,768	400	395	19,845	457	23	110	36	
April	74,192	1,783	11,277	353	538	16,103	425	20	103	35	
May	78,760	3,192	9,724	465	516	15,963	472	18	99	36	
June	84,916	3,410	13,330	537	624	20,396	510	22	105	36	
July	95,854	2,531	15,918	623	710	22,623	715	23	110	39	
August	97,190	2,265	16,990	494	684	23,171	766	22	106	38	
September	85,811	1,333	11,095	454	658	16,173	522	19	99	34	
October	83,072	1,686	11,055	448	685	16,614	495	23	119	38	
November	83,918	1,248	7,730	269	680	12,649	437	26	133	38	
December	92,769	1,992	12,909	232	733	18,800	433	28	119	40	
Total		32,608	152,752	5,214	7,190	226,522	6,139	263	1,293	433	5
004 January	95,303	4,575	19,330	875	721	28,387	437	32	118	37	
February	85,636	1,454	12,224	194	607	16,907	454	29	107	33	
March	80,425	1,399	12,759	209	622	17,478	452	33	108	35	
April	74,590	1,261	11,726	178	624	16,288	465	33	111	35	
May	82,751	1,930	13,261	224	653	18,681	567	33	103	39	
June	87,827	1,665	14,635	134	614	19,504	589	31	103	38	
July	95,263	1,465	16,699	185	645	21,576	714	29	112	37	
August	94,692	1,371	14,941	119	704	19,954	703	32	112	38	
September	87,315	1,669	10,946	150	645	15,992	614	32	105	34	
9-Month Total	783,801	16,790	126,522	2,269	5,837	174,765	4,995	284	980	327	3
2003 9-Month Total	772,744	27,681	121,057	4,265	5,091	178,459	4,774	186	922	316	3
002 9-Month Total	751,233	18,859	89,573	2,323	5,655	139,028	5,522	206	945	335	6

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

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

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

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

synthetic coal.

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

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

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

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

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

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

h Wood, black liquor, and other wood waste.

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

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

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

				Petroleum							
	Coala	Distillate Fuel Oil ^b	Residual Fuel Oil ^c	Other Liquids ^d	Petroleum Coke ^e	Total ^e	Natural Gas ^f	Other Gases ^g	Wood ^h	Waste ⁱ	Other ^j
	Thousand Short Tons	TI	housand Barre	els	Thousand Short Tons	Thousand Barrels	Billion Cubic Feet		Trilli	ion Btu	
1989 Total	772,190	26,156	244,179	10	517	272,931	3,105	9	100	132	3
1990 Total	782,567	16,567	184,915	26 59	1,008 974	206,550	3,245	11 11	129 126	188 229	(s) 4
1991 Total	783,874 795,094	14,359 12,623	172,625 138,726	128	974 1,494	191,911 158,948	3,316 3,448	18	140	262	5
1992 Total	831,645	14.849	150,720	239	2.611	180.625	3,446 3.473	16	150	265	5
1994 Total	838,354	20.612	138,222	771	2,315	171,178	3,473	19	152	282	3
1995 Total	850,230	18,553	90.023	499	2,674	122,447	4,237	24	125	296	2
1996 Total	896,921	18,780	99,951	653	2,642	132,593	3,807	20	138	300	2
997 Total	921,364	18,989	113,669	152	3,372	149,668	4.065	24	137	309	1
998 Total	936,619	23,300	166,528	431	4,102	210,769	4,588	29	137	308	Ž
1999 Total	940,922	24.058	152.493	544	3,735	195,769	4,820	19	138	315	1
2000 Total	985.821	30.016	138,513	454	3,735	185.358	5.206	25	134	318	i
2001 Total	964,433	29,274	159,504	377	3,427	206,291	5,342	15	126	324	ċ
2002 January	82,424	1,838	6,872	92	441	11,007	381	3	13	30	(s)
February	72,144	1,137	5,789	45	459	9,265	344	2	10	27	(0)
March	75,823	1,827	9,271	58	486	13,588	407	3	13	30	(s
April	71,560	1.740	8.687	105	464	12,851	404	2	11	28	(s
May	76,528	2,017	8,671	136	523	13,441	410	2	11	30	(-
June	83.565	1.698	8,746	86	564	13.348	551	2	12	31	
July	92.766	2,613	11,437	173	500	16.721	734	3	13	33	
August	91,752	2.430	11,306	166	562	16,710	718	3	13	33	
September	84,144	1,640	9,031	104	511	13,331	569	3	14	31	
October	80,714	1,921	9,091	93	430	13,255	442	3	13	30	(s)
November	79,301	1,343	6,687	79	412	10,171	352	3	13	30	(s)
December	86.784	1,672	9.186	132	464	13,308	360	3	14	32	(s)
Total	977,507	21,876	104,773	1,267	5,816	156,996	5,672	33	150	365	7
2003 January	91,109	4,441	14,061	251	402	20,764	367	2	15	27	(s)
February	78,838	3,691	11,984	387	343	17,778	329	2	12	24	(s
March	78,770	3,273	12,320	260	292	17,311	353	2	13	29	(s
April	71,993	1,590	10,123	87	432	13,960	333	2	12	28	(s
May	76,714	2,378	8,778	87	401	13,249	381	1	11	29	(s)
June	82,659	3,159	12,227	99	493	17,951	411	1	13	29	(s
July	93,326	2,283	14,758	136	589	20,122	609	1	14	32	(s
August	94,649	2,047	15,767	187	575	20,874	654	2	15	30	(s
September	83,695	1,192	10,255	91	547	14,273	434	2	13	27	(s
October	80,710	1,475	9,724	92	559	14,087	391	2	15	30	(s
November	81,620	1,088	6,671	157	577	10,799	338	2	14	30	(s
December	90,201	1,668	11,402	124	588	16,133	329	2	15	32	(s
Total	1,004,283	28,285	138,070	1,959	5,797	197,301	4,930	19	161	346	:
004 January	92,386	4,036	16,948	700	628	24,825	342	2	15	30	(s
February	83,183	1,251	10,723	79	525	14,677	356	2	14	26	(s
March	78,005	1,215	11,352	116	542	15,394	355	3	14	28	(s
April	72,349	1,098	10,484	85	542	14,377	369	3	12	28	(s
May	80,710	1,760	12,136	140	569	16,882	456	3	13	30	(s
June	85,475	1,499	13,401	64	515	17,539	486	3	12	29	(s
July	92,731	1,309	15,409	77	546	19,525	601	3	16	30	(s
August	92,174	1,241	13,722	55	616	18,097	589	3	15	30	(s
September 9-Month Total	85,036 762,048	1,504 14,913	9,817 113,993	89 1,404	567 5,050	14,248 155,562	509 4,063	4 27	13 124	27 258	(s
	•	•	•		•	ŕ	•				
2003 9-Month Total	751,752 730,707	24,055 16,941	110,273 79,809	1,585 963	4,074 4,510	156,282 120,262	3,871 4,518	14 24	117 110	254 274	

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

(s)=Less than 0.5 trillion Btu.

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

Web Page: http://www.eia.doe.gov/emeu/mer/elect.html.
Sources: • 1989-1997: Energy Information Administration (EIA), Form
EIA-759, "Monthly Power Plant Report" and Form EIA-867, "Annual Nonutility
Power Producer Report." • 1998-2000: EIA, Form EIA-759, "Monthly Power Plant Report" and Form EIA-860B, "Annual Electric Generator Report" and 2002: EIA, Form EIA-860, "Annual Electric Generator Report" and Form EIA-906, "Power Plant Report." • 2003 forward: EIA, Form EIA-906, "Power Plant Report."

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

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

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

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

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

Wood, black liquor, and other wood waste.

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

and other biomass.

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

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

1989 Total	Coal ^c Thousand Short Tons 1,125 1,191 1,228 1,175	Petroleum ^d Thousand Barrels 1,967 2,056	Natural Gase Billion Cubic Feet	Waste ^f Trillion Btu	Coal ^c Thousand Short Tons	Petroleum	Natural Gas ^e	Other Gases ^g	Woodh	Waste ^f	Other ⁱ
1990 Total 1991 Total 1992 Total	1,125 1,191 1,228 1,175	Barrels 1,967	Cubic Feet			T					
1990 Total 1991 Total 1992 Total	1,191 1,228 1,175		00		CHOIL TOILS	Thousand Barrels	Billion Cubic Feet		Trillion	Btu	
1990 Total 1991 Total 1992 Total	1,191 1,228 1,175			22	24,867	25,685	914	195	926	35	85
1991 Total 1992 Total	1,228 1,175	_,000	46	28	27,781	36.392	1.055	275	1.125	41	86
1992 Total	1,175	1,337	52	26	27,021	33,460	1,061	298	1,076	37	110
		1,235	62	32	28,244	36,135	1,107	322	1,161	39	87
1993 Total	1,373	1,515	65	33	28,886	36,715	1,124	297	1,169	46	80
1994 Total	1,344	1,625	72	35	29,707	38.744	1,176	296	1,248	41	89
1995 Total	1,419	1,245	78	40	29,363	34,448	1,258	290	1,255	38	95
1996 Total	1,660	1,246	82	53	29,434	38,661	1,289	325	1,249	39	89
1997 Total	1.738	1.584	87	58	29,853	37,265	1,282	283	1,259	41	102
1998 Total	1,443	1,807	87	54	28,553	38.910	1,355	305	1,211	42	93
1999 Total	1,490	1,613	84	54	27,763	37,312	1,401	331	1,213	31	99
2000 Total	1,547	1,615	85	47	28.031	30,520	1,386	331	1,213	35	108
2001 Total	1,448	1,832	79	39	25,755	26,817	1,310	248	1,054	35	94
	1,440	,			25,755	,	1,310	240	1,054		34
2002 January	127	99	6	3	2,278	2,259	114	20	97	4	7
February	102	92	5	3	1,990	1,768	100	18	84	3	7
March	124	88	6	3	2,150	2,136	107	20	86	4	7
April	100	84	6	3	2,115	1,844	97	19	89	3	7
May	105	81	5	4	2,110	1,953	107	20	96	3	6
June	112	87	6	4	2,101	1,861	102	22	89	3	5
July	126	115	7	4	2,439	2,127	111	22	103	3	8
August	127	114	8	4	2,153	1,974	108	21	90	3	6
September	116	90	7	4	2,150	1,993	101	22	99	3	9
October	114	89	6	4	2,231	2,219	97	20	107	3	9
November	116	130	5	4	2,237	2.385	97	21	95	4	8
December	134	181	6	3	2,279	2,643	98	22	100	4	7
Total	1,405	1,250	74	42	26,232	25,163	1,240	245	1,136	41	85
2003 January	146	322	6	3	2,484	2,705	106	19	82	3	4
February	127	270	5	3	2,169	2,347	93	17	79	3	3
March	125	155	6	4	2.254	2.378	98	21	96	3	5
April	110	86	5	4	2,089	2,056	87	18	92	3	4
May	94	67	6	4	1,952	2.647	85	17	88	3	5
June	118	104	7	4	2,139	2,341	93	21	92	3	4
July	137	144	7	4	2,391	2.356	99	21	96	3	4
August	144	155	8	4	2.397	2.142	104	21	91	3	4
September	121	80	5	4	1,995	1,820	83	17	87	4	4
October	114	83	6	4	2,247	2.444	98	21	104	4	4
November	118	80	5	4	2,180	1.770	95	24	119	4	4
December	137	163	5	4	2,431	2,504	98	26	103	4	5
Total	1,492	1,709	71	48	26,728	27,511	1,138	244	1,131	39	50
2004 January	157	338	6	4	2.760	3.223	89	30	103	4	5
2004 January	148	188	6	4	2,760	2.042	92	26	93	3	3
February	148	156	6	4	2,305	1,928	92 91	31	93	3	3
March	113	110	6	4	2,278	1,928	90	30	99	3	2
April	113	98	6	4	1,914	1,702	104	30	99	5	3
May	127	101	6	4	2.226	1,702	97	28	90	5 5	4
June	128	111	7	4	2,220	1,865	106	25 25	90	3	5
July			7	4							5
August	128	105	-	-	2,390	1,751	107	29	98	3	
September 9-Month Total	116 1,187	75 1,282	7 56	4 36	2,162 20,566	1,670 17,921	99 877	29 258	91 855	3 32	3 31
	-				,	-					
2003 9-Month Total 2002 9-Month Total	1,123 1.040	1,383 851	55 57	35 32	19,869 19,485	20,794 17,915	848 947	173 182	804 834	27 29	37 61

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

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

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

plants. See note at end of section.

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

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

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

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

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

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

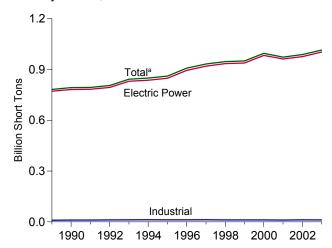
h Wood, black liquor, and other wood waste.

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

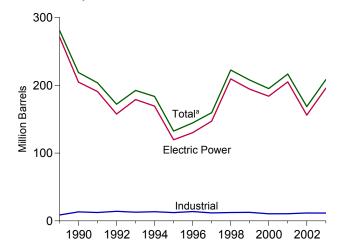
Sources: • 1989-1997: Energy Information Administration (EIA), Form EIA-867, "Annual Nonutility Power Producer Report." • 1998-2000: EIA, Form EIA-860R, "Annual Electric Generator Report—Nonutility." • 2001 and 2002: EIA, Form EIA-860, "Annual Electric Generator Report" and Form EIA-906, "Power Plant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

Figure 7.3b Consumption of Selected Combustible Fuels for Electricity Generation

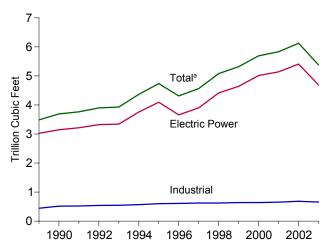




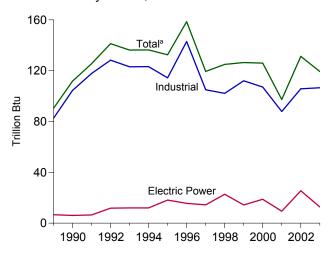
Petroleum by Sector, 1989-2003



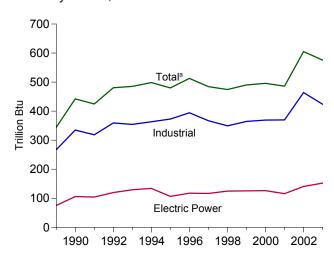
Natural Gas by Sector, 1989-2003



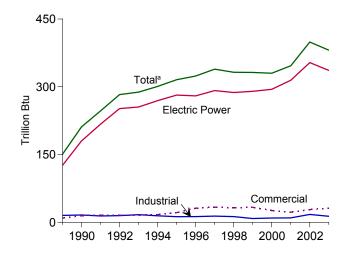
Other Gases^b by Sector, 1989-2003



Wood by Sector, 1989-2003



Waste by Sector, 1989-2003



^aIncludes commercial sector.

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

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

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

				Petroleum							
	Coal ^a	Distillate Fuel Oil ^b	Residual Fuel Oil ^c	Other Liquids ^d	Petroleum Coke ^e	Totale	Natural Gas ^f	Other Gases ^g	Wood ^h	Waste ⁱ	Other ^j
	Thousand Short Tons	ТІ	nousand Barre	els	Thousand Short Tons	Thousand Barrels	Billion Cubic Feet		Trilli	on Btu	
1973 Total	389,212 391,811 405,962 448,371 477,126 481,235 527,051 569,274 596,797 593,666 625,211 664,399 693,841 685,056 717,894	47,058 53,128 38,907 41,843 48,837 47,520 30,691 29,051 21,313 15,337 16,512 15,190 14,635 14,326 15,367 18,769 27,733 18,143 16,564 14,493 16,845	513,190 483,146 467,221 514,077 574,869 588,319 492,606 391,163 329,798 234,434 228,984 189,289 158,779 216,156 184,011 229,327 249,820 190,849 177,780 144,467 159,059	NA NA NA NA NA NA NA NA NA NA NA NA NA N	507 625 70 68 98 398 268 179 139 149 261 252 231 313 348 409 667 1,914 1,789 2,504 3,169	562,781 539,399 506,479 556,261 624,193 637,830 524,636 421,110 351,806 250,517 246,804 205,736 174,571 232,046 201,116 250,141 281,192 218,997 203,669 172,241 192,462	3,660 3,443 3,158 3,081 3,191 3,188 3,491 3,682 3,640 3,226 2,911 3,111 3,044 2,602 2,844 2,636 3,485 3,692 3,765 3,900 3,929	NA NA NA NA NA NA NA NA NA NA NA 112 125 141 136	1 1 (s) 1 3 2 3 3 3 2 2 5 8 8 10 345 442 425 485	2 2 2 2 2 1 1 2 2 1 1 1 2 4 7 7 7 8 151 241 247 283 288	NA NA NA NA NA NA NA NA NA NA NA NA NA N
1994 Total 1995 Total 1996 Total 1997 Total 1997 Total 1998 Total 1999 Total 2000 Total	848,796 860,594 907,209 931,949 946,295 949,802 994,933 972,691	22,365 19,615 20,252 20,309 25,062 25,951 31,675 31,150	135,039 145,225 95,507 106,055 118,741 172,728 158,187 143,381 165,312	929 680 1,712 237 549 974 1,450 855	3,1020 3,355 3,322 4,086 4,860 4,552 3,744 3,871	192,402 183,618 132,578 144,626 159,715 222,640 207,871 195,228 216,672	4,367 4,738 4,312 4,565 5,081 5,322 5,691 5,832	136 133 159 119 125 126 126	498 480 513 484 475 490 496 486	301 316 324 339 332 332 330 347	40 42 37 36 36 41 46 41
2002 January February March April May June July August September October November December Total	83,186 72,845 76,541 72,379 77,322 84,412 93,763 92,604 84,932 81,613 80,234 87,752 987,583	1,963 1,239 1,943 1,819 2,130 1,788 2,730 2,549 1,759 2,049 1,492 1,825 23,286	7,271 6,108 9,696 9,044 9,003 9,076 11,793 11,635 9,359 9,453 7,123 9,674 109,235	148 88 112 143 175 119 208 202 135 183 177 204 1,894	524 527 569 530 590 645 600 660 616 529 498 548 6,836	12,003 10,069 14,594 13,657 14,258 14,209 17,730 17,688 14,333 14,333 11,282 14,442 168,597	424 381 448 439 453 589 777 759 605 475 385 390 6,126	11 9 10 10 10 12 13 12 11 11 11 11 12	51 46 48 50 47 50 53 52 52 52 54 50 605	32 29 32 31 33 34 37 37 34 33 34 399	4 4 4 3 3 3 5 4 5 5 4 3 4 9
Pebruary September Cotober November December September Cotols Total	92,030 79,659 79,600 72,784 77,505 83,468 94,233 95,573 84,466 81,518 82,392 91,078 1,014,307	4,816 3,956 3,427 1,670 2,682 3,270 2,425 2,166 1,267 1,590 1,164 1,856 30,290	14,529 12,367 12,768 10,478 9,095 12,594 15,076 16,077 10,470 10,245 6,982 11,876 142,557	298 415 320 196 257 297 353 345 273 307 195 156 3,411	460 388 338 478 453 560 649 611 598 619 625 659 6,435	21,941 18,679 18,203 14,732 14,299 18,960 21,097 21,642 15,001 15,236 11,465 17,182 208,436	408 365 391 365 417 452 646 697 468 432 374 366 5,380	10 8 9 8 8 10 9 10 8 11 14 14	50 44 49 46 42 46 47 47 43 52 57 53 576	29 26 32 31 32 35 34 30 33 33 35 381	2 2 3 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2
2004 January	93,288 84,006 78,874 73,166 81,436 86,662 94,000 93,432 86,188 771,053	4,236 1,310 1,284 1,192 1,842 1,592 1,402 1,326 1,595 15,778	17,748 11,210 11,817 10,915 12,580 13,943 15,978 14,287 10,372 118,851	725 104 148 132 175 114 173 112 142 1,825	666 560 569 574 605 594 609 686 628 5,491	26,038 15,425 16,093 15,108 17,622 18,621 20,599 19,152 15,250 163,907	376 394 394 407 505 540 661 650 566 4,493	14 13 15 16 16 18 16 19 18	49 45 44 48 49 56 60 59 57 467	31 27 30 31 32 33 34 34 34 30 282	2 1 1 1 2 2 3 2 1 16
2003 9-Month Total 2002 9-Month Total	759,319 737,984	25,679 17,919	113,454 82,985	2,753 1,330	4,533 5,261	164,553 128,540	4,208 4,875	81 97	414 451	280 299	20 36

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

derived from fossil fuels.

Wood, black liquor, and other wood waste.

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

 ^d Anthracite, bituminous coal, subbituminous coal, lignite, waste coal, and synthetic coal.
 ^b For 1973-1979, gas turbine and internal combustion plant use of petroleum.
 For 1980-2000, electric utility data are for light oil (fuel oil nos. 1 and 2, and small amounts of kerosene and jet fuel.)
 ^c For 1973-1979, steam plant use of petroleum. For 1980-2000, electric utility data are for heavy oil (fuel oil nos. 5 and 6, and small amounts of fuel oil no. 4.)
 ^d Jet fuel, kerosene, other petroleum liquids, and waste oil.

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

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

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

be identified separately.

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

Mood, black liquor, and other wood waste.
 Municipal solid waste, landfill gas, sludge waste, tires, agricultural byproducts, and other biomass.
 Batteries, chemicals, hydrogen, pitch, purchased steam, sulfur, and miscellaneous technologies.
 k Through 1988, data are for consumption at electric utilities only. Beginning in 1989, data also include consumption at independent power producers, commercial plants. plants, and industrial plants. NA=Not available. (s)=Less than 0.5 trillion Btu.

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

				Petroleum							
	Coala	Distillate Fuel Oil ^b	Residual Fuel Oil ^c	Other Liquids ^d	Petroleum Coke ^e	Total ^e	Natural Gas ^f	Other Gases ^g	Wood ^h	Waste ⁱ	Other ^j
	Thousand Short Tons	ТІ	nousand Barre	ls	Thousand Short Tons	Thousand Barrels	Billion Cubic Feet		Trillio	n Btu	
1973 Total 1974 Total 1975 Total 1976 Total 1977 Total	389,212 391,811 405,962 448,371 477,126	47,058 53,128 38,907 41,843 48,837	513,190 483,146 467,221 514,077 574,869	NA NA NA NA	507 625 70 68 98	562,781 539,399 506,479 556,261 624,193	3,660 3,443 3,158 3,081 3,191	NA NA NA NA	1 1 (s) 1 3	2 2 2 2 2	NA NA NA NA
1978 Total 1979 Total 1980 Total 1981 Total 1982 Total 1983 Total	481,235 527,051 569,274 596,797 593,666 625,211	47,520 30,691 29,051 21,313 15,337 16,512	588,319 492,606 391,163 329,798 234,434 228,984	NA NA NA NA NA	398 268 179 139 149 261	637,830 524,636 421,110 351,806 250,517 246,804	3,188 3,491 3,682 3,640 3,226 2,911	NA NA NA NA NA	2 3 3 3 2 2	1 2 2 1 1 2	NA NA NA NA NA
1984 Total	664,399 693,841 685,056 717,894 758,372	15,190 14,635 14,326 15,367 18,769	189,289 158,779 216,156 184,011 229,327	NA NA NA NA	252 231 313 348 409	205,736 174,571 232,046 201,116 250,141	3,111 3,044 2,602 2,844 2,636	NA NA NA NA	5 8 5 8 10	4 7 7 7 8	NA NA NA NA NA
1989 Total k	771,551 781,301 782,653 793,390 829,851 836,113	26,036 16,394 14,255 12,469 14,559 20,241	242,708 183,285 171,629 137,681 151,407 137,198	9 25 58 118 213 667	517 1,008 974 1,490 2,571 2,256	271,340 204,745 190,810 157,719 179,034 169,387	3,024 3,147 3,216 3,325 3,344 3,758	7 6 12 12 12	75 106 104 120 129 134	126 180 217 252 255 269	(s) 4 3 3 2
1995 Total 1996 Total 1997 Total 1998 Total 1999 Total 2000 Total	847,854 894,400 919,009 934,126 937,888 982,713	18,066 18,472 18,646 23,166 23,875 29,722	88,895 98,795 112,423 165,875 151,921 138,047	441 567 130 411 514 403	2,452 2,467 3,201 3,999 3,607 3,155	119,663 130,168 147,202 209,447 194,345 183,946	4,094 3,660 3,903 4,416 4,644 5,014	18 16 14 23 14 19	106 117 117 125 125 126	282 280 292 287 290 294	2 2 1 2 1
2001 Total2002 January	961,523 82,197	29,056 1,832	159,150 6,853	374 89	3,308 431	205,119 10,928	5,142 360	9	116	314 29	0 (s)
February	71,972 75,613 71,377 76,367 83,393	1,134 1,823 1,738 2,012 1,696	5,772 9,258 8,680 8,658 8,729	43 57 103 135 85	450 476 456 514 552	9,198 13,515 12,800 13,373 13,268	324 385 384 390 529	2 2 1 2 2	9 12 11 10	26 29 28 29 30	(s) (s) (s) 1
July	92,575 91,543 83,958 80,533 79,132	2,611 2,428 1,638 1,918 1,338	11,419 11,289 9,016 9,070 6,668	170 163 101 91 77	487 553 507 423 405	16,637 16,646 13,292 13,194 10,105	710 693 546 421 330	2 3 2 2 3	12 13 13 12 12	32 32 30 29 29	1 1 1 (s)
December	86,591 975,251	1,642 21,810	9,164 104,577	128 1,243	453 5,705	13,199 156,154	336 5,408	2 25	13 141	31 353	(s) (s) 7
2003 January	90,900 78,666 78,581 71,814 76,535 82,496	4,349 3,641 3,235 1,586 2,376 3,153	13,974 11,906 12,281 10,084 8,754 12,207	237 364 257 86 86 98	392 336 280 419 392 485	20,522 17,589 17,175 13,850 13,178 17,883	343 308 332 312 365 394	1 1 1 1 1	14 11 13 11 10	26 23 28 27 28 28	(s) (s) (s) (s) (s)
July	93,165 94,486 83,551 80,557 81,447 90,010	2,280 2,044 1,190 1,478 1,075 1,655	14,690 15,696 10,187 9,706 6,603 11,333	136 186 91 92 157 123	582 553 539 551 573 583	20,015 20,690 14,164 14,031 10,699 16,027	588 634 416 373 317 306	1 1 1 1 1	14 14 12 14 13	31 30 26 29 29 31	(s) (s) (s) (s) (s)
Total 2004 January	1,002,210 92,181	28,062 3,944	137,421 16,939	1,912 668	5,685 614	195,823 24,619	4,688 323	13	152	336 28	(s)
February March April May June July	82,992 77,821 72,205 80,538 85,321 92,581	1,225 1,199 1,094 1,750 1,495 1,306	10,718 11,348 10,479 12,130 13,396 15,403	77 114 83 133 63 76	513 520 528 561 515 546	14,586 15,259 14,297 16,816 17,527 19,514	340 339 353 440 473 589	1 2 2 2 2 3	13 13 11 12 12 15	25 27 27 29 28 29	(s) (s) (s) (s) (s) (s)
August September 9-Month Total	92,029 84,897 760,565	1,238 1,501 14,751	13,717 9,812 113,942	54 88 1,356	615 567 4,979	18,087 14,237 154,943	577 497 3,933	2 3 20	14 13 115	29 27 249	(s) (s) 1
2003 9-Month Total 2002 9-Month Total	750,196 728,994	23,854 16,912	109,779 79,674	1,540 948	3,979 4,424	155,066 119,656	3,692 4,322	9 18	111 104	247 265	1 6

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

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

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

h Wood, black liquor, and other in the second state of the second state of the second se

h Wood, black liquor, and other wood waste.

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

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

K Through 1988, data are for consumption at electric utilities only. Beginning in 1989, data also include consumption at independent power producers. NA=Not available. (s)=Less than 0.5 trillion Btu. Notes, Web Page, and Sources: See end of section.

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

		Commerci	ial Sector ^a				Indu	strial Sector	b		
	Coalc	Petroleumd	Natural Gas ^e	Waste ^f	Coal ^c	Petroleumd	Natural Gas ^e	Other Gases ⁹	Woodh	Waste ^f	Other ⁱ
	Thousand Short Tons	Thousand Barrels	Billion Cubic Feet	Trillion Btu	Thousand Short Tons	Thousand Barrels	Billion Cubic Feet		Trillion	n Btu	
1989 Total	414	1,165	18	9	9,707	8,688	444	83	267	15	37
1990 Total	417	953	28	15	10,740	13,299	517	104	335	16	36
1991 Total	403	576	27	15	10,610	12,283	522	118	318	14	55
1992 Total	371	429	33	16	11,379	14,093	542	128	359	15	37
1993 Total	404	672	37	16	11,898	12,755	547	123	355	17	31
1994 Total	404	694	41	17	12,279	13,537	568	123	364	14	38
1995 Total	569	649	43	21	12,171	12,265	601	114	373	13	40
1996 Total	656	645	42	31	12,153	13,813	610	143	394	13	35
1997 Total	630	790	39	34	12,311	11,723	623	105	367	14	36
1998 Total	440	802	41	32	11.728	12,392	625	102	349	13	35
1999 Total	481	931	39	33	11,432	12,595	639	112	364	8	39
2000 Total	514	823	37	26	11,706	10,459	640	107	369	10	45
2001 Total	532	1,023	36	22	10,636	10,530	654	88	370	10	41
2002 January	46	67	3	2	943	1,008	61	8	39	1	3
February	30	64	2	2	843	808	55	8	36	1	3
March	42	56	3	2	887	1,022	60	8	36	1	2
	36	49	3	2	966	807	53	8	39	2	3
April	36	51	2	3	919	835	61	8	39	1	2
May	39	56	3	3	980	885	57	10	39	2	
June			3	3						2	
July	41	71		3	1,147	1,022	63	10	41	2	4
August	46 44	73 62	4 3	3	1,015	969	62 56	10 9	40	_	3
September				_	930	979			39	1	5
October		59	3	3	1,041	1,080	52	9	42	1	5
November		92	2	3	1,064	1,084	53	9	38	1	4
December Total	41 477	135 834	2 33	2 28	1,120 11,855	1,108 11,608	52 685	9 106	37 464	1 18	3 41
	48	228	3	2		•	00		00		
2003 January					1,082	1,192	62	9	36	1	2
February	41	186	2	2	952	904	54	7	33	1	2
March	40	90		3	978	938	56	8	37	•	3
April	36	53	3	3	934	829	50	7	35	1	2
May	33	46	3	3	937	1,075	49	8	32	1	3
June	43	71	4	3	929	1,006	54	10	34	1	2
July	50	100		3	1,018	983	55	8	34	1	2
August	51	100	4	3	1,036	852	59	8	33	1	2
September	44	56	2	2	871	781	49	7	31	1	2
October	36	57	3	3	925	1,148	56	10	39	1	2
November	35	58	3	3	910	708	55	13	43	1	2
December Total	44 501	116 1,161	2 35	3 32	1,025 11,596	1,039 11,453	57 656	13 107	38 424	1 13	25
		,				-					
2004 January	48	207	3	2	1,059	1,212	51	12	36	1	2
February	48	87	3	2	966	751	51	12	32	1	1
March	49	80	3	2	1,005	753	52	14	31	1	1
April	36	77	3	3	925	734	51	14	37	1	1
May	44	65	3	2	853	740	62	13	38	1	1
June	52	76	3	3	1,290	1,018	63	15	44	1	2
July	53	89	4	3	1,366	996	68	13	45	1	3
August	56	79	4	3	1,347	986	69	16	45	2	2
September	47	57	4	2	1,245	956	65	16	44	1	
9-Month Total	432	818	29	22	10,055	8,147	530	125	351	10	16
2003 9-Month Total	386	929	27	24	8,737	8,559	488	72	304	9	19
2002 9-Month Total	360	548	25	21	8,630	8,336	528	79	347	14	30

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

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

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

plants. See note at end of section.

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

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

synthetic coal. $\stackrel{\circ}{\text{d}}$ Distillate fuel oil, residual fuel oil, petroleum coke, jet fuel, kerosene, other

petroleum, and waste oil.

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

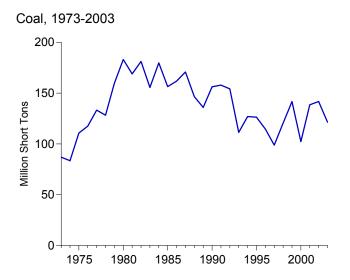
be identified separately. Municipal solid waste, landfill gas, sludge waste, tires, agricultural byproducts, and other biomass.

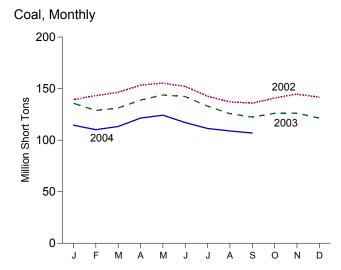
^g Blast furnace gas, propane gas, and other manufactured and waste gases derived from fossil fuels.

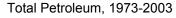
h Wood, black liquor, and other wood waste.

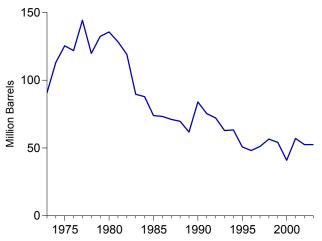
i Batteries, chemicals, hydrogen, pitch, purchased steam, sulfur, and miscellaneous technologies.

Figure 7.4 Stocks of Coal and Petroleum: Electric Power Sector

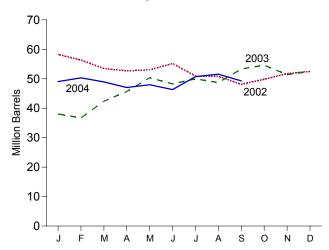




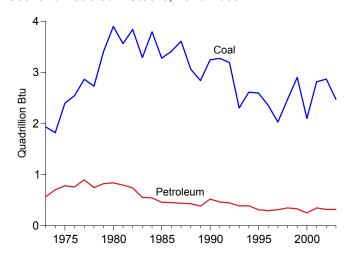




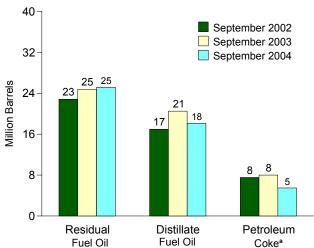
Total Petroleum, Monthly



Coal and Petroleum Stocks, 1973-2003



Petroleum by Type, End of Month



^aConverted from short tons to barrels by multiplying by 5. Note: Because vertical scales differ, graphs should not be compared.

Web Page: http://www.eia.doe.gov/emeu/mer/elect.html. Source: Tables 7.4, A1, and A5.

Table 7.4 Stocks of Coal and Petroleum: Electric Power Sector

				Petroleum		
	Coal ^a	Distillate Fuel Oilb	Residual Fuel Oilc	Other Liquids ^d	Petroleum Coke ^e	Totale
	Thousand Short Tons		Thousand Barrels		Thousand Short Tons	Thousand Barrel
973 Total	86,967	10,095	79,121	NA	312	90,776
974 Total	83,509	15,199	97,718	NA	35	113,091
975 Total	110,724	16,432	108,825	NA	31	125,413
76 Total	117,436	14,703	106,993	NA	32	121,857
977 Total	133,219	19,281	124,750	NA	44	144,252
78 Total	128,225	16,386	102,402	NA	198	119,778
79 Total	159,714	20,301	111,121	NA	183	132,338
80 Total	183,010	30,023	105,351	NA	52	135,635
81 Total	168,893	26,094	102,042	NA	42	128,345
82 Total	181,132	23,369	95,515	NA	41	119,090
83 Total	155,598	18,801	70,573	NA NA	55	89,652
84 Total	179,727	19,116	68.503	NA NA	50	87,870
85 Total	156,376	16,386	57,304	NA NA	49	73,933
					49	
86 Total	161,806	16,269	56,841	NA		73,313
87 Total	170,797	15,759	55,069	NA	51	71,084
88 Total	146,507	15,099	54,187	NA	86	69,714
89 Total	135,860	13,824	47,446	NA	105	61,795
90 Total	156,166	16,471	67,030	NA	94	83,970
91 Total	157,876	16,357	58,636	NA	70	75,343
92 Total	154,130	15,714	56,135	NA	67	72,183
93 Total	111,341	15,674	46,770	NA	89	62,890
94 Total	126,897	16,644	46,344	NA	69	63,333
95 Total	126,304	15,392	35,102	NA	65	50,821
96 Total	114,623	15,216	32,473	NA	91	48,146
97 Total	98,826	15,456	33,336	NA	469	51,138
98 Total ,	120,501	16,343	37.451	NA	559	56,591
99 Total f	141,604	17,995	34,256	NA	372	54,109
00 Total	102,296	15,127	24,748	NA	211	40,932
01 Total	138,496	20,486	34,594	NA	390	57,031
02 January	139,400	18,558	34,833	903	798	58,283
February	143,151	18,314	32,792	688	912	56,353
March	146,443	18,866	28,447	774	1,082	53,500
April	153,375	17,693	28,485	774 787	1,144	52,683
		18,305		758		
May	155,313		28,241		1,149	53,047
June	152,134	18,113	30,412	638	1,206	55,190
July	142,634	17,206	26,986	692	1,208	50,921
August	137,130	17,439	25,697	718	1,393	50,820
September	135,962	16,967	22,841	768	1,508	48,117
October	140,800	16,838	23,926	731	1,667	49,829
November	144,608	16,959	25,127	1,111	1,714	51,767
December	141,714	17,413	25,723	800	1,711	52,490
03 January	135,771	15,431	20,870	NA	350	38,051
February	128,828	14,564	20,621	NA	306	36,713
March	131,162	19,849	20,961	NA	315	42,385
April	138,895	15,351	22,737	NA	1,519	45,681
May	143,884	15,058	26,772	NA	1,702	50,339
June	142,325	15,426	24,447	NA	1,675	48,250
July	132,964	16,570	25,029	NA	1,672	49,957
August	125.725	15,771	24.758	NA NA	1,638	48,722
September	122,425	20,509	24,796	NA NA	1,601	53,309
October						
	126,002	21,213	25,831	NA NA	1,514	54,617
November December	126,200 121,371	16,776 19,563	26,699 25,653	NA NA	1,585 1,455	51,400 52,489
	•	•			•	•
04 January	114,537	18,567	24,020	38	1,286	49,053
February	110,145	18,502	25,609	38	1,235	50,322
March	113,310	18,137	24,489	38	1,254	48,936
April	121,440	17,568	24,291	38	1,026	47,025
May	124,232	18,156	24,853	38	987	47,981
June	^R 117,040	R 16,142	^R 24,783	R 0	^R 1,082	R 46,334
July	111,346	19,018	25,885	470	1,068	50,714
August	108,906	19,180	26,253	488	1,128	51,562

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

R=Revised. NA=Not available.

Notes: • The electric power sector comprises electricity-only and combined-heat-and-power (CHP) plants within the NAICS 22 category whose primary business is to sell electricity, or electricity and heat, to the public. Web Page: http://www.eia.doe.gov/emeu/mer/elect.html.

Web Page: http://www.eia.doe.gov/emeu/mer/elect.html.
Sources: • 1973-September 1977: Federal Power Commission, Form FPC-4,
"Monthly Power Plant Report." • October 1977-1981: Federal Energy
Regulatory Commission, Form FPC-4, "Monthly Power Plant Report."
• 1982-1988: Energy Information Administration (EIA), Form EIA-759, "Monthly
Power Plant Report." • 1989-1997: EIA, Form EIA-759, "Monthly Power Plant
Report" and Form EIA-867, "Annual Nonutility Power Producer Report."
• 1998-2000: EIA, Form EIA-759, "Monthly Power Plant Report" and Form
EIA-860B, "Annual Electric Generator Report—Nonutility." • 2001: EIA, Form
EIA-860, "Annual Electric Generator Report" and Form EIA-906, "Power Plant
Report." • 2002 forward: EIA, Form EIA-906, "Power Plant Report."

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

and small amounts of kerosene and jet fuel).

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

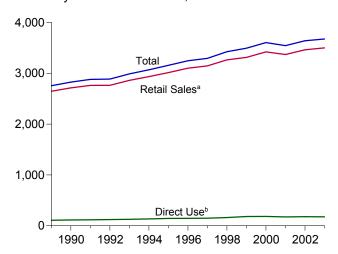
d Jet fuel, kerosene, other petroleum liquids, and waste oil.

Petroleum coke is converted from short tons to barrels by multiplying by 5 f Through 1998, data are for stocks at electric utilities only. Beginning in 1999, data also include stocks at independent power producers.

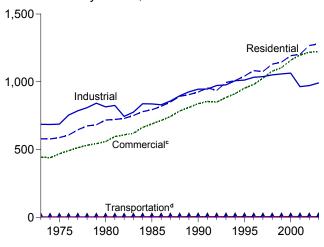
[•] Stocks are at end of year. • Totals may not equal sum of components due to independent rounding. • Geographic coverage is the 50 States and the District of

Figure 7.5 Electricity End Use (Billion Kilowatthours)

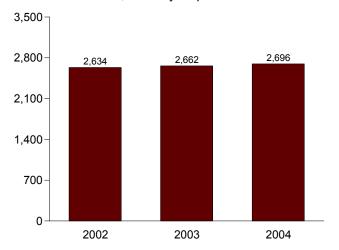
Electricity End Use Overview, 1989-2003



Retail Sales^a by Sector, 1973-2003

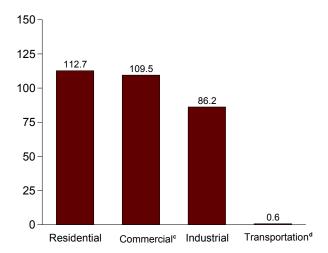


Retail Sales^a Total, January-September

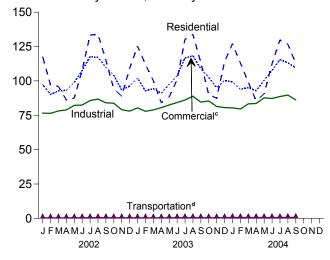


^aElectricity retail sales to ultimate customers reported by electric utilities and other energy service providers.

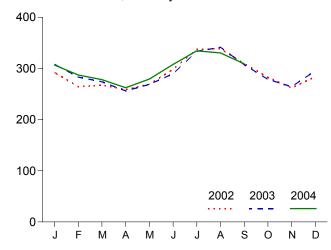
Retail Sales^a by Sector, September 2004



Retail Sales^a by Sector, Monthly



Retail Sales^a Total, Monthly



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

^dTransportation sector, including sales to railroads and railways.

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

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

Source: Table 7.5.

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

Table 7.5 Electricity End Use

(Million Kilowatthours)

					Retail Sales	a					
		Old Bas	sis			New Ba	sis				
	Residential	Commercialb	Industrialc	Otherd	Residential	Commerciale	Industrial ^f	Transpor- tation ^g	Total ^h	Direct Use ⁱ	Total
1973 Total	579,231	388,266	686,085	59,326	579,231	E 444,505	686,085	E 3,087	1,712,909	NA	1,712,909
1974 Total 1975 Total	578,184 588,140	384,826 403,049	684,875 687,680	58,039 68,222	578,184 588,140	E 440,016 E 468,296	684,875 687,680	E 2,849 E 2,974	1,705,924 1,747,091	NA NA	1,705,924 1,747,091
1976 Total	606,452	425,094	754,069	69,631	606,452	E 491,777	754,069	E 2,948	1,855,246	NA	1,855,246
1977 Total		446,514	786,037	70,571	645,239	E 514,029	786,037	^E 3,056	1,948,361	NA	1,948,361
1978 Total 1979 Total	674,466 682,819	461,163 473,307	809,078 841,903	73,215 73,070	674,466 682,819	E 531,439 E 543,412	809,078 841,903	E 2,939 E 2,965	2,017,922 2,071,099	NA NA	2,017,922 2,071,099
1980 Total		488,155	815,067	73,732	717,495	E 558,643	815,067	E 3,244	2,094,449	NA	2,094,449
1981 Total	722,265	514,338	825,743	84,756	722,265	E 595,908	825,743	E 3.186	2,147,103	NA	2,147,103
1982 Total	729,520 750.948	526,397 542,700	744,949	85,575	729,520	E 608,748 E 620,292	744,949	E 3,224 E 3,715	2,086,441	NA NA	2,086,441
1983 Total 1984 Total	780,946 780.092	543,788 582,621	775,999 837,836	80,219 85,248	750,948 780,092	E 663,680	775,999 837,836	E 4,189	2,150,955 2,285,796	NA NA	2,150,955 2,285,796
1985 Total	793,934	605,989	836,772	87,279	793,934	E 689,121	836,772	E 4,147	2,323,974	NA	2,323,974
1986 Total	819,088	630,520	830,531	88,615	819,088	E 714,721	830,531	^E 4,413	2,368,753	NA	2,368,753
1987 Total	850,410 892,866	660,433	858,233	88,196	850,410	E 744,067 E 784,029	858,233	E 4,562 E 4,669	2,457,272	NA NA	2,457,272
1988 Total 1989 Total		699,100 725,861	896,498 925,659	89,598 89,765	892,866 905,525	E 810,856	896,498 925,659	E 4,770	2,578,062 2,646,809	108,145	2,578,062 2,754,954
1990 Total	924,019	751,027	945,522	91,988	924,019	E 838,263	945,522	^E 4,751	2,712,555	114,036	2,826,591
1991 Total	955,417	765,664	946,583	94,339	955,417	E 855,244	946,583	E 4,758	2,762,003	118,033	2,880,036
1992 Total 1993 Total	935,939 994,781	761,271 794,573	972,714 977,164	93,442 94,944	935,939 994,781	E 850,007 E 884,746	972,714 977,164	^E 4,706 ^E 4,771	2,763,365 2,861,462	122,251 127,503	2,885,616 2,988,966
1994 Total	1,008,482	820,269	1,007,981	97,830	1,008,482	E 913,106	1,007,981	E 4,994	2,934,563	134,111	3,068,674
1995 Total		862,685	1,012,693	95,407	1,042,501	E 953,117	1,012,693	E 4,975	3,013,287	144,063	3,157,350
1996 Total 1997 Total		887,445 928,633	1,033,631 1,038,197	97,539 102,901	1,082,512 1,075,880	E 980,061 E 1,026,626	1,033,631 1,038,197	^E 4,923 ^E 4,907	3,101,127 3,145,610	145,857 148,428	3,246,984 3,294,039
1998 Total		979,401	1,050,197	102,901	1,130,109	E 1,077,957	1,050,197	E 4,962	3,264,231	160,897	3,425,128
1999 Total	1,144,923	1,001,996	1,058,217	106,952	1,144,923	E 1,103,821	1,058,217	E 5,126	3,312,087	182,508	3,494,595
2000 Total 2001 Total	1,192,446 1,202,647	1,055,232 1,089,154	1,064,239 964,224	109,496 113,756	1,192,446 1,202,647	E 1,159,347 E 1,197,426	1,064,239 964,224	E 5,382 E 5,484	3,421,414 3,369,781	183,263 ^E 174,370	3,604,677 3,544,151
			•	-	, ,	E 97,280	•	E 401			
2002 January February	117,742 97,309	89,366 82,526	76,600 76,413	8,315 8,028	117,742 97,309	E 90,166	76,600 76,413	E 387	292,023 264,275	E 15,131 E 13,667	307,154 277,942
March	95,919	85,055	78,122	8,010	95,919	E 92,678	78,122	E 386	267,105	E 15,131	282,237
April	86,103	85,549	78,918	8,009	86,103	E 93,171	78,918	E 386	258,578	E 14,643	273,221
May June	87,494 107,853	90,819 98,638	82,242 82,432	8,501 9,306	87,494 107,853	E 98,910 E 107,496	82,242 82,432	E 410 E 449	269,055 298,230	E 15,131 E 14,643	284,186 312,873
July	133,389	108,091	85,724	10,064	133,389	E 117,670	85,724	E 485	337,268	E 15,131	352,400
August	133,951	107,439	86,739	10,183	133,951	E 117,131	86,739	<u> </u>	338,312	E 15,131	353,444
September	114,951	100,138	84,107	10,266	114,951	E 109,909	84,107	E 495 E 456	309,462	E 14,643 E 15,131	324,105
October November	94,237 88,926	95,188 85,363	83,783 79,057	9,456 8,464	94,237 88,926	E 104,189 E 93,419	83,783 79,057	E 408	282,665 261,810	E 14,643	297,796 276,454
December	109,085	88,076	78,032	8,546	109,085	E 96,209	78,032	E 412	283,738	_ ^E 15,131	298,870
Total	1,266,959	1,116,248	972,168	107,146	1,266,959	E 1,218,228	972,168	E 5,166	3,462,521	E 178,161	3,640,681
2003 January		93,712	80,351	8,743	125,307	E 102,034	80,351	E 422	308,113	E 14,878	322,992
February March	112,021 100,154	84,886 86,482	77,901 78,914	8,327 8,265	112,021 100,154	E 92,812 E 94,349	77,901 78,914	E 401 E 398	283,136 273,816	E 13,439 E 14,878	296,574 288,694
April	84,102	83,470	80,561	7,924	84,102	E 91,012	80,561	E 382	256,057	E 14,399	270,456
May	88,340	89,391	82,495	8,581	88,340	E 97,558	82,495	E 414	268,807	E 14,878	283,686
June July	100,912 130,254	94,911 106,961	84,296 86.064	9,353 10,232	100,912 130,254	E 103,813 E 116.699	84,296 86,064	E 451 E 493	289,472 333,510	E 14,399 E 14,878	303,871 348,389
August	133,889	108,218	88,825	10,550	133,889	E 118,259	88,825	E 509	341,481	E 14,878	356,360
September		99,408	84,526	9,939	113,506	E 108,868	84,526	E 479	307,379	E 14,399	321,778
October		93,497	85,438 81.374	9,525	90,044	E 102,563 E 95,134	85,438	E 459 E 426	278,504	E 14,878 E 14,399	293,383 278,807
November December		86,722 91,592	80,612	8,838 9,176	87,474 113,903	E 100,326	81,374 80,612	E 442	264,408 295,283	E 14,878	310,161
Total		1,119,250	991,359	109,452	1,279,907	E 1,223,425	991,359	^E 5,277	3,499,968	E 175,182	3,675,150
2004 January		_	_	_	126,963	99,245	80,385	610	307,203	E 14,838	322,041
February		_	_	-	113,075	93,853	79,568	614	287,110	E 13,881	300,991
March April		_	_	_	99,047 85,439	95,208 92,830	83,325 83,540	540 560	278,119 262,370	E 14,838 E 14,359	292,957 276,729
May		_	_	_	90,658	100,384	87,687	548	279,278	E 14,838	294,116
June	_	_	_	-	112,373	107,616	87,242	559	307,790	E 14,359	322,149
July August		<u>-</u> -	_	_	129,759 126,724	115,501 113,211	88,601 89,701	602 657	334,463 330,293	E 14,838 E 14,838	349,301
September	_	_	_	_	126,724	109,490	86,164	648	308,994	E 14,838	345,131 323,353
9-Month Total	-	_	-	-	996,731	927,339	766,214	5,338	2,695,621	E 131,147	2,826,768
2003 9-Month Total	988,486	847,438	743,935	81,914	988,486	E 925,403	743,935	E 3,949	2,661,772	E 131,027	2,792,799
2002 9-Month Total	974,710	847,621	731,296	80,680	974,710	E 924,412	731,296	^E 3,890	2,634,308	E 133,254	2,767,562

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

all years, data for "Electricity Helian Sales in Tables E.E. and Sales, and other sales to public authorities.

C Industrial sector, excluding agriculture and irrigation.

4 Public street and highway lighting, interdepartmental sales, other sales to public authorities, agriculture and irrigation, and transportation including railroads and railways.

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

Commercial" and approximately 95 percent of "Other"; beginning in 2004, data are actual survey

Commercial" and approximately 35 percent of Carlot, 250,000 and algorithms and irrigation; beginning in 2004, includes agriculture and irrigation.

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

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

The sufficiency of the local collections and electricity generation; and electricity sales among adjacent, or co-located facilities for which revenue information is not available.

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

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

Electricity

Note. Classification of Power Plants Into Energy-Use Sectors

The Energy Information Administration (EIA) classifies power plants (both electricity-only and combined-heat-andpower plants) into energy-use sectors based on the North American Industry Classification System (NAICS), which replaced the Standard Industrial Classification (SIC) system in 1997. Plants with a NAICS code of 22 are assigned to the Electric Power Sector. Those with NAICS codes beginning with 11 (agriculture, forestry, fishing, and hunting); 21 (mining, including oil and gas extraction); 23 (construction); 31-33 (manufacturing); 2212 (natural gas distribution); and 22131 (water supply and irrigation systems) are assigned to the Industrial Sector. Those with all other codes are assigned to the Commercial Sector. Form EIA-860, "Annual Electric Generator Report," asks respondents to indicate the primary purpose of the facility by assigning a code **NAICS** from the universal list www.census.gov/epcd/naics02/naicod02.htm.

Table 7.1 Sources: Imports and Exports of Electricity

Electricity Trade With Canada and Mexico, 1973-1989:

1973–September 1977: Unpublished Federal Power Commission data.

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

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

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

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

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

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

Electricity Trade with Canada, 1990 Forward:

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

Electricity Trade with Mexico, 1990 Forward:

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

Table 7.2a Notes:

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

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

Table 7.2a Web Page:

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

Table 7.2a Sources:

See sources for Tables 7.2b and 7.2c.

Table 7.2b Notes:

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

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

Table 7.2b Web Page:

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

Table 7.2b Sources:

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

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

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

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

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

2001 and 2002: EIA, Form EIA-860, "Annual Electric Generator Report" and Form EIA-906, "Power Plant Report."

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

Table 7.3d Notes:

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

Table 7.3d Web Page:

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

Table 7.3d Sources:

See sources for Tables 7.3e and 7.3f.

Table 7.3e Notes:

• Data are for fuels consumed to produce electricity; they exclude fuels consumed to produce useful thermal output. Consumption for electricity generation at combined-heat-and-power (CHP) plants is estimated. • The electric power sector comprises electricity-only and combined-heat-and-power (CHP) plants within the NAICS 22 category whose primary business is to sell electricity, or electricity and heat, to the public. • Totals may not equal sum of components due to independent rounding. • Geographic coverage is the 50 States and the District of Columbia.

Table 7.3e Web Page:

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

Table 7.3e Sources:

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

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

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

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

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

2001 and 2002: EIA, Form EIA-860, "Annual Electric Generator Report" and Form EIA-906, "Power Plant Report."

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

Table 7.5 Notes:

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

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

Table 7.5 Sources:

Retail Sales:

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

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

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

1983: Energy Information Administration (EIA), Form EIA-826, "Monthly Electric Utility Sales and Revenue Report with State Distributions" (formerly "Electric Utility Company Monthly Statement").

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

1990 forward: EIA, *Electric Power Monthly*, December 2004, Table 5.1.

Direct Use, Annual:

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

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

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

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

Section 8. Nuclear Energy

U.S. nuclear electricity net generation during September 2004 was 66 net terawatthours (billion kilowatthours) of electricity, 4 percent higher than the level in September 2003.

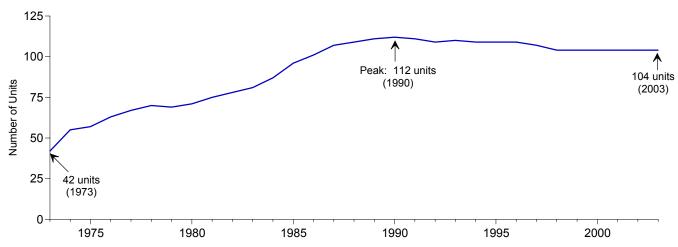
Nuclear units generated at an average capacity factor of 92.7 percent in September 2004, 3.3 percentage points higher than the capacity factor in September 2003.

The nuclear share of total electricity net generation in September 2004 was 19.8 percent, compared with 20.1 percent 1 year earlier.

On September 30, 2004, there were 104 operable nuclear generating units in the United States, with a collective net summer capacity of 98.8 million kilowatts of electricity.

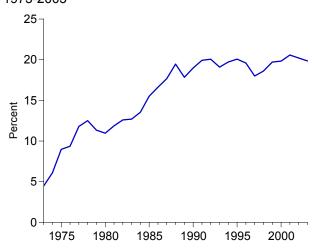
Figure 8.1 Nuclear Energy Overview

Operable Units, End of Year, 1973-2003

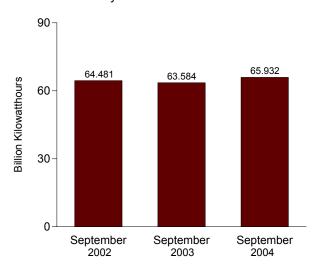


Electricity Net Generation, 1973-2003

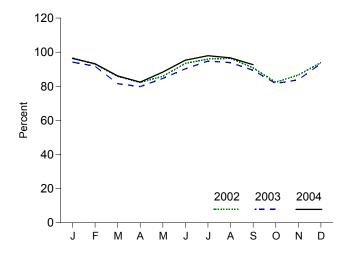
Nuclear Share of Electricity Net Generation, 1973-2003



Nuclear Electricity Net Generation



Capacity Factor, Monthly



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

Table 8.1 Nuclear Energy Overview

	Total Operable Units ^{a,b}	Net Summer Capacity of Operable Units ^{b,c}	Nuclear Electricity Net Generation	Nuclear Share of Electricity Net Generation	Capacity Factor
	Number	Million Kilowatts	Million Kilowatthours	Per	cent
73 Year	42	22.683	83,479	4.5	53.5
74 Year	55	31.867	113,976	6.1	47.8
'5 Year	57	37.267	172,505	9.0	55.9
'6 Year	63	43.822	191,104	9.4	54.7
7 Year	67	46.303	250,883	11.8	63.3
8 Year	70	50.824	276,403	12.5	64.5
9 Year	69	49.747	255,155	11.3	58.4
0 Year	71	51.810	251,116	11.0	56.3
1 Year	75	56.042	272,674	11.9	58.2
2 Year	78	60.035	282,773	12.6	56.6
3 Year	81	63.009	293,677	12.7	54.4
	87	69.652		13.5	56.3
4 Year			327,634		
5 Year	96	79.397	383,691	15.5	58.0
6 Year	101	85.241	414,038	16.6	56.9
7 Year	107	93.583	455,270	17.7	57.4
8 Year	109	94.695	526,973	19.5	63.5
9 Year	111	98.161	529,355	17.8	62.2
0 Year	112	99.624	576,862	19.0	66.0
1 Year	111	99.589	612,565	19.9	70.2
2 Year	109	98.985	618,776	20.1	70.9
3 Year	110	99.041	610,291	19.1	70.5
4 Year	109	99.148	640,440	19.7	73.8
5 Year	109	99.515	673,402	20.1	73.6 77.4
6 Year	109	100.784	674,729	19.6	76.2
7 Year	107	99.716	628,644	18.0	71.1
8 Year	104	97.070	673,702	18.6	78.2
9 Year	104	97.411	728,254	19.7	85.3
0 Year	104	97.860	753,893	19.8	88.1
11 Year	104	98.159	768,826	20.6	89.4
12 January	104	98.657	70,926	22.2	96.6
February	104	98.657	61,658	21.9	93.0
March	104	98.657	63,041	20.8	85.9
April	104	98.657	58,437	20.2	82.3
May	104	98.657	63,032	20.5	85.9
June	104	98.657	66,372	19.5	93.4
July	104	98.657	70,421	18.5	95.9
August	104	98.657	70,778	18.9	96.4
September	104	98.657	64,481	19.5	90.8
October	104	98.657	60,493	19.7	82.4
November	104		61,520	20.8	86.6
		98.657			
December Year	104 104	98.657 98.657	68,905 780,064	21.2 20.2	93.9 90.3
3 January	104	98.794	69,211	20.5	94.2
	104	98.794	60,942	20.5	94.2 91.8
February	104				
March		98.794	59,933	19.8	81.5
April	104	98.794	56,776	20.1	79.8
May	104	98.794	62,194	20.4	84.6
June	104	98.794	64,181	19.8	90.2
July	104	98.794	69,653	18.7	94.8
August	104	98.794	69,024	18.3	93.9
September	104	98.794	63,584	20.1	89.4
October	104	98.794	60,016	19.7	81.7
November	104	98.794	59,600	20.0	83.8
December	104	98.794	68,612	20.7	93.3
Year	104	98.794	763,725	19.8	88.2
4 January	104	98.794	70,789	20.6	96.3
February	104	98.794	64,103	20.5	93.2
March	104	98.794	63,285	20.7	86.1
April	104	98.794	58,635	20.4	82.4
May	104	98.794	64,917	20.0	88.3
	104				95.3
June		98.794	67,787	19.9	
July	104	98.794	71,975	19.4	97.9
August	104	98.794	71,064	19.4	96.7
September	104	98.794	65,932	19.8	92.7
9 Months	104	98.794	598,489	20.0	92.1
3 9 Months	104	98.794	575,497	19.7	88.9

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

^b At end of period.

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

^c For the definition of "Net Summer Capacity," see Note 2(a) at end of section. ^d For an explanation of the method of calculating the capacity factor, see Note 2

at end of section.

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

Nuclear electricity net generation totals may not equal sum of components due to independent rounding. • Geographic coverage is the 50 States and the District of Columbia.

Nuclear Energy

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

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

- **Note 2.** Capacity: Nuclear generating units may have more than one type of net capacity rating, including the following:
- (a) Net Summer Capacity—The steady hourly output that generating equipment is expected to supply to system load, exclusive of auxiliary power, as demonstrated by test at the time of summer peak demand. Auxiliary power of a typical nuclear power plant is about 5 percent of gross generation.
- b) Net Design Capacity or Net Design Electrical Rating (DER)—The nominal net electrical output of a unit, specified by the utility and used for plant design.

The monthly capacity factors are computed as the actual monthly generation divided by the maximum possible generation for that month. The maximum possible generation is the number of hours in the month multiplied by the net summer capacity at the end of the month. That fraction is then multiplied by 100 to obtain a percentage. Annual capacity factors are averages of the monthly values for that year.

Table 8.1 Sources

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

Nuclear Electricity Net Generation and Nuclear Share of Electricity Net Generation: See Table 7.2a for actual data.

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

Section 9. Energy Prices

Crude Oil. The average price of domestic crude oil at the wellhead was \$40.48 per barrel in September 2004, 60 percent above the level of September 2003. The refiner acquisition cost of imported crude oil in September 2004 was \$40.51 per barrel, 58 percent higher than the September 2003 level. The average cost of domestic crude oil in September 2004 was \$42.77, 54 percent more than the September 2003 average.

Motor Gasoline. The national city average retail price of unleaded regular gasoline at all types of stations was \$2.03 per gallon in October 2004, 27 percent higher than the price in October 2003. The price of unleaded premium gasoline averaged \$2.22 in October 2004, 24 percent higher than the price in October 2003.

Residual Fuel Oil. The average price, excluding taxes, of residual fuel oil sold to end users in September 2004 was 77 cents per gallon, 5 percent higher than the previous month's price and 20 percent higher than the September 2003 average. The average resale price, excluding taxes, of residual fuel oil in September 2004 was 67 cents, 1 percent lower than the August 2004 price but 15 percent higher than the price 1 year earlier.

Jet Fuel. The average price, excluding taxes, of kerosene-type jet fuel sold to end users in September 2004 was \$1.33 per gallon, 5 percent higher than the previous month's average price and 63 percent more than the September 2003 average price.

No. 2 Distillate Fuel Oil. The September 2004 national average price, excluding taxes, of heating oil sold to residential customers was \$1.59 per gallon, 6 percent higher than the August 2004 price and 34 percent higher than the September 2003 price. The average price of No. 2 fuel oil sold to all end users was \$1.30 per gallon in September

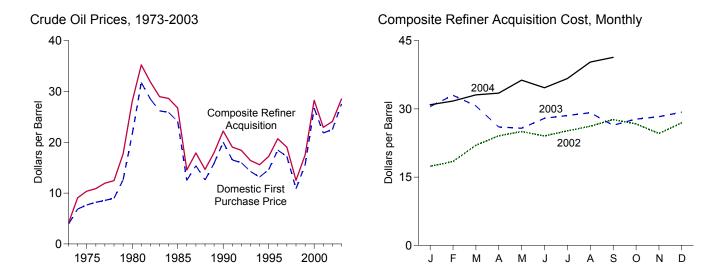
2004, 6 percent higher than the August 2004 price and 60 percent higher than the price 1 year earlier.

Electricity. The average retail price of electricity sold to all ultimate consumers in the United States in September 2004 (latest month for which data are available) was 7.92 cents per kilowatthour, 5 percent higher than the average price in September 2003. The price of electricity sold to residential consumers in September 2004 averaged 9.37 cents per kilowatthour, 5 percent higher than the September 2003 price. The price of electricity sold to commercial consumers averaged 8.53 cents per kilowatthour in September 2004, 4 percent higher than the September 2003 price. The price of electricity sold to transportation users in September 2004 averaged 6.50 cents per kilowatthour. The price of electricity sold to industrial users in September 2004 averaged 5.26 cents per kilowatthour, 5 percent higher than the price 1 year earlier.

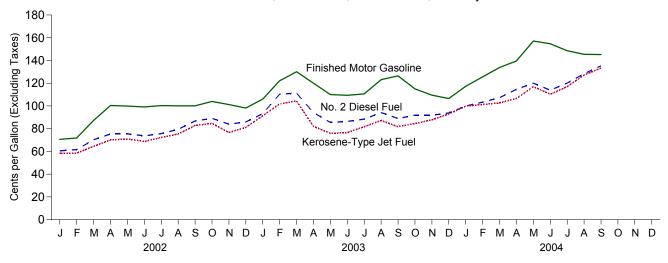
Natural Gas. The average wellhead price of natural gas for September 2004 (latest month for which data are available) was estimated as \$4.86 per thousand cubic feet, 6 percent higher than the September 2003 price.

The average price of natural gas delivered to the electric power sector was \$5.97 per thousand cubic feet in August 2004, 14 percent higher than the August 2003 price. The average price of natural gas used by residential consumers in September 2004 was \$13.28 per thousand cubic feet, 8 percent higher than the September 2003 price. The average price of natural gas used by commercial consumers in September 2004 was \$9.24 per thousand cubic feet, 11 percent higher than the September 2003 price. The average price of natural gas used by industrial consumers in September 2004 was \$5.55 per thousand cubic feet, 5 percent above the September 2003 price.

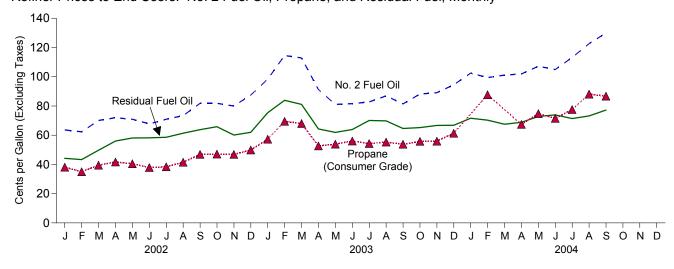
Figure 9.1 Petroleum Prices



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



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



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

Table 9.1 Crude Oil Price Summary

(Dollars per Barrel)

				Re	finer 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
75 Average	7.67	11.18	12.70	8.39	13.93	10.38
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
984 Average	25.88	27.60	28.54	28.53	28.88	28.63
985 Average	24.09	25.84	26.67	26.66	26.99	26.75
86 Average	12.51	12.52	13.49	14.82	14.00	14.55
NOT Average	15.40	16.69	17.65	17.76	18.13	17.90
987 Average	12.58	13.25	14.08	14.74	14.56	14.67
88 Average	15.86	16.89	17.68	17.87	18.08	17.97
989 Average						
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
992 Average	15.99	16.77	17.75	18.63	18.20	18.43
993 Average	14.25	14.71	15.72	16.67	16.14	16.41
994 Average	13.19	14.18	15.18	15.67	15.51	15.59
995 Average	14.62	15.69	16.78	17.33	17.14	17.23
996 Average	18.46	19.32	20.31	20.77	20.64	20.71
997 Average	17.23	16.94	18.11	19.61	18.53	19.04
998 Average	10.87	10.76	11.84	13.18	12.04	12.52
999 Average	15.56	16.47	17.23	17.90	17.26	17.51
000 Average	26.72	26.27	27.53	29.11	27.70	28.26
01 Average	21.84	20.46	21.82	24.33	22.00	22.95
002 January	15.89	16.01	17.29	17.84	17.04	17.38
February	16.93	17.67	19.17	18.70	18.24	18.43
March	20.28	21.60	22.24	21.61	22.29	22.00
April	22.52	23.04	24.15	24.26	23.98	24.10
May	23.51	23.16	24.49	25.78	24.44	25.03
June	22.59	22.63	23.95	24.81	23.45	24.05
July	23.51	23.72	25.01	25.37	24.99	25.16
August	24.76	24.57	25.93	26.87	25.68	26.19
September	26.08	25.80	26.78	28.40	27.14	27.66
October	25.29	24.32	25.58	27.82	25.99	26.70
November	23.38	22.42	24.22	26.02	23.68	24.60
December	25.29	25.86	27.08	27.25	26.68	26.93
Average	22.51	22.63	23.91	24.65	23.71	24.10
003 January	28.42	29.15	30.34	30.82	30.30	30.52
February	31.85	29.78	31.34	34.05	32.23	33.00
March	30.10	26.32	28.86	32.70	29.23	30.65
April	25.45	22.74	25.20	28.55	24.48	26.02
May	24.95	23.48	25.40	26.75	25.15	25.74
June	26.84	25.34	27.36	29.07	27.22	27.92
July	27.52	26.10	27.72	29.54	27.95	28.55
August	27.94	26.87	28.01	30.28	28.50	29.15
September	25.23	24.07	25.91	27.75	25.66	26.39
October	26.53	26.06	27.37	28.43	27.32	27.75
November	27.21	26.03	27.68	29.55	27.47	28.28
December	28.53	26.77	28.80	30.27	28.63	29.28
Average	27.56	25.86	27.69	29.82	27.71	28.53
M lanuary	30.35	20 16	30.76	32.01	30.24	30.92
004 January		28.16				
February	31.21	28.50	31.14	33.19	30.77	31.72
March	32.86	30.02	32.30	34.53	32.25	33.09
April	33.23	30.98	32.88	35.25	32.42	33.46
May	36.07	33.81	35.09	37.23	35.82	36.31
June	34.53	32.20	34.37	36.57	33.58	34.65
July	36.54	R 34.92	R 36.82	37.90	35.98	36.67
August	40.10	^R 37.14	R 39.32	^R 41.54	39.57	R 40.29
September	40.48	38.14	39.90	42.77	40.51	41.34

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

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

current 2 months are preliminary. • F.O.B. and landed costs through 1980 reflect the period of reporting; prices since then reflect the period of loading.
• Annual averages are the averages of the monthly prices, weighted by volume. • Geographic coverage is the 50 States, the District of Columbia, Puerto Rico, the Virgin Islands, and all U.S. Territories and Possessions.
Web Page: http://www.eia.doe.gov/emeu/mer/prices.html.
Sources: See end of section.

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

(Dollars per Barrel)

			S	elected Cou	ntries					
	Angola	Colombia	Mexico	Nigeria	Saudi Arabia	United Kingdom	Venezuela	Persian Gulf Nations ^a	Total OPEC ^b	Total Non-OPEC
1973 Average ^c 1974 Average	W 11.87	W W	NA W	7.81 12.44	3.25 10.17	NA NA	5.39 10.71	3.68 10.60	5.43 11.33	4.80 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	(d)	13.24	14.05	12.70	13.82	12.38	12.77	13.31	13.23
1979 Average	19.85 33.45	w	20.27 31.06	21.69 35.93	17.28 28.17	21.70 34.36	16.90 24.81	18.77 28.92	19.88 32.21	20.92 32.85
1980 Average 1981 Average	35.55	(d)	33.01	38.31	32.60	36.06	28.95	33.00	35.17	32.65 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	}d{	25.20	29.81	27.53	29.91	21.48	27.70	28.46	27.20
1984 Average	27.46	(b)	26.39	29.51	27.67	28.87	24.23	27.48	27.79	27.45
1985 Average	26.30	(b)	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 18.41	18.49 18.02	15.37	20.29 19.98	14.62 15.85	20.81 19.61	14.91 14.39	15.22 16.35	16.99 16.87	16.77 16.66
1992 Average 1993 Average	16.23	15.87	15.26 13.74	17.79	13.77	16.64	12.46	14.21	14.78	14.65
1994 Average	15.40	14.99	13.68	16.32	14.12	15.66	12.21	13.97	14.00	14.34
1995 Average	16.58	16.73	15.64	17.40	W	16.94	13.86	W	15.36	16.02
1996 Average	20.71	21.33	19.14	21.27	19.28	19.43	17.73	19.22	18.94	19.65
1997 Average	18.81	18.85	16.72	19.43	15.16	18.59	15.33	15.24	16.26	17.51
1998 Average	12.11	12.56	10.49	12.97	8.87	12.52	9.31	9.09	10.20	11.21
1999 Average	17.46	17.20	15.89	17.32	17.65	19.14	14.33	17.15	15.90	16.84
2000 Average	27.90	29.04	25.39	28.70	24.62	27.21	24.45	24.72	25.56	26.77
2001 Average	23.25	24.25	18.89	24.85	18.98	23.30	18.01	18.89	19.73	21.04
2002 January	19.12	18.93	14.25	19.63	W	W	13.49	17.46	15.79	16.17
February	18.76	19.28	15.91	20.73	21.11	W	14.84	19.77	17.61	17.71
March	22.65	23.88	20.21	24.39	23.42	W	19.31	23.08	21.49	21.67
April	24.36	25.57	22.42	25.66 W	23.17	W	20.02	23.38	22.48	23.38
May	24.49 22.93	26.11 24.30	22.83 22.05	24.39	23.19 23.55	24.52 23.24	19.90 20.50	22.78 23.56	22.26 22.26	23.72 22.84
June July	24.63	24.30 W	22.50	26.01	25.12	25.39	21.71	24.99	23.46	23.92
August	25.93	26.10	23.70	27.28	25.10	W	22.67	25.33	24.12	24.89
September	27.97	29.11	25.31	28.56	24.67	28.41	23.98	24.71	25.09	26.30
October	26.57	27.03	23.68	27.28	23.46	28.20	21.59	23.06	22.88	25.29
November	23.58	24.14	20.63	24.93	25.12	25.10	20.18	24.58	22.36	22.46
December	28.75	27.75	24.25	29.98	26.75	W	23.41	26.64	26.53	25.51
Average	24.09	24.64	21.60	25.38	23.92	24.50	20.13	23.38	22.18	22.93
2003 January	31.59	32.94	28.32	31.76	27.79	31.66	W	27.83	29.05	29.21
February	33.49	35.25	28.43	33.64	26.67	32.97	28.50	27.17	28.65	30.52
March	29.34	31.28	24.97	30.82	24.87	28.78	22.83	25.09	25.39	26.99
April	24.81	24.85	21.53	25.27	20.97	W	21.00	21.08	21.83	23.40
May	25.63	25.13	22.56	27.03	22.52	25.28	21.61	22.57	22.78	23.99
June	26.66	27.63	24.39	27.79	26.45	W	22.98	26.37	24.88	25.67
July	27.83	W	25.60	29.14	25.54	W	24.51	25.58	25.63	26.41
August	28.76 26.13	28.97 27.44	25.88 23.33	30.08 27.28	26.22 23.82	29.42 W	24.87 22.76	25.99 23.80	26.33 23.78	27.20 24.32
September October	29.47	28.91	23.33 23.77	30.02	23.62 W	W	23.77	26.29	25.76 25.84	24.32 26.21
November	28.94	W	24.92	29.78	27.70	29.32	23.75	26.88	26.09	25.99
December	29.58	30.02	25.56	30.60	27.70	W	25.71	27.32	27.05	26.56
Average	28.22	28.89	24.83	29.40	25.03	28.76	23.81	25.17	25.36	26.21
2004 January	W	33.14	26.65	31.25	W	W	25.94	27.98	27.88	28.40
February	30.06	W	26.24	32.03	w	w	26.70	28.05	28.70	28.33
March	W	33.17	28.26	33.80	W	33.72	28.15	29.76	30.08	29.97
April	32.43	34.47	29.46	34.21	W	W	31.23	29.89	31.54	30.47
May	W	36.46	32.40	38.16	W	W	33.18	32.49	34.50	33.25
June	36.57	35.10	30.33	35.63	32.91	W	30.92	32.31	32.46	32.01
July	R 36.95	39.28	32.56	39.80	R 35.17	(^d)	32.46	R 34.90	R 35.28	R 34.58
August		W 41.70	R 34.24	R 43.18	W	41.89 W	R 33.93	R 36.48	R 37.24	R 37.06
September	39.87	41.79	35.15	44.65	38.05	VV	38.77	38.87	39.85	36.91

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

section. • Values for the current 2 months are preliminary. • Prices through 1980 reflect the period of reporting; prices since then reflect the period of loading. • Annual averages are averages of the monthly prices, including prices not published, weighted by volume. • Cargoes that are purchased on a "netback" basis, or under similar contractual arrangements whereby the actual purchase price is not established at the time the crude oil is acquired actual putchase price is not established at the time time drude of its acquired for importation into the United States, are not included in the published data until the actual prices have been determined and reported. • U.S. geographic coverage is the 50 States and the District of Columbia.

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

Sources: See end of section.

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

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

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

individual company data.

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

Table 9.3 Landed Costs of Crude Oil Imports From Selected Countries

(Dollars per Barrel)

		<u> </u>		Selected	Countries						
	Angola	Canada	Colombia	Mexico	Nigeria	Saudi Arabia	United Kingdom	Venezuela	Persian Gulf Nations ^a	Total OPEC ^b	Total Non-OPEC
1973 Average 1974 Average 1975 Average 1976 Average 1977 Average 1977 Average 1978 Average 1979 Average 1980 Average 1981 Average 1982 Average 1984 Average 1985 Average 1986 Average 1987 Average 1987 Average 1998 Average 1999 Average 1991 Average 1991 Average 1993 Average 1993 Average 1993 Average 1994 Average 1995 Average 1997 Average 1996 Average 1997 Average 1997 Average 1998 Average 1997 Average 1999 Average	W 12.48 11.81 12.71 14.07 21.06 34.76 36.84 33.08 29.31 28.49 27.39 14.09 18.20 14.48 18.36 21.51 19.90 17.40 16.36 17.40 16.36 21.8	5.33 11.48 12.84 13.36 14.13 14.41 20.22 30.11 32.32 27.15 25.63 26.56 25.71 13.43 17.04 13.50 16.81 20.48 17.16 15.27 14.83 17.16 17.63 17.63 17.63 17.64 17.63 17.64 17.63 17.64 17.65 19.94 17.65 17.64 17.65 17.64 17.65 17.65 17.65 17.64 17.65 1	W W (d)	NA W 12.61 12.64 13.56 20.77 31.77 33.70 28.63 25.78 26.85 25.63 12.17 16.69 12.58 16.35 19.64 15.89 14.11 14.09 19.64 17.30 19.64 1	9.08 13.16 12.70 13.81 15.29 14.88 22.97 37.15 39.66 36.16 30.36 28.96 15.29 19.32 15.88 19.19 23.33 21.39 20.78 18.73 17.21 18.73 17.21 17.63 30.04 26.55	5.37 11.63 12.50 13.06 13.69 13.94 18.95 29.80 34.20 34.20 34.92 29.27 29.20 24.72 12.84 16.81 13.37 17.34 21.82 17.48 15.40 15.11 16.84 20.49 17.52 11.16 17.48 20.58 20.98	NA NA NA W 14.53 22.97 35.68 37.29 34.25 30.87 29.45 28.36 14.63 18.78 15.82 18.74 22.65 21.37 20.63 17.92 16.64 17.91 20.88 20.64 13.55 18.26 29.32	5.99 11.25 12.36 11.89 13.11 12.84 17.65 25.92 29.91 24.93 22.94 25.19 24.43 11.52 15.76 13.66 16.78 20.31 15.91 15.91 14.81 18.59 16.35 10.16 15.58 26.05 19.81	5.91 12.21 12.64 13.03 13.85 14.01 20.42 30.59 34.61 34.94 29.07 25.50 12.92 17.47 13.51 17.37 20.55 17.34 15.26 15.00 16.78 20.45 17.44 11.18 17.37 26.77 20.73	6.85 12.49 12.70 13.32 14.35 14.34 21.29 33.56 36.60 34.81 29.06 26.86 13.46 17.64 14.18 17.78 21.23 18.08 15.08 15.08 15.08 15.08 15.08 16.61 20.14 17.73 11.46 16.94 27.29 21.52	5.64 11.81 12.70 13.35 14.42 14.38 22.10 33.99 36.14 31.47 28.08 28.14 26.53 13.52 17.66 13.96 17.54 20.98 17.93 17.67 15.78 15.29 16.95 20.47 18.45 12.22 17.51 27.80 22.17
2002 January February March April May June July August September October November December Average	20.03 19.70 22.99 25.24 25.52 24.48 26.06 26.99 28.93 27.75 25.06 30.65 25.43	15.64 18.00 20.05 23.37 23.97 23.15 24.38 25.63 26.00 25.16 23.24 24.53 22.98	19.86 20.33 24.54 26.22 25.85 24.99 25.99 27.00 29.77 28.07 25.28 25.28 25.28	14.87 16.29 20.38 22.90 23.45 22.61 23.09 24.21 25.76 24.14 21.24 24.63 22.09	20.41 21.57 24.33 26.47 26.56 25.55 26.89 27.75 29.44 28.59 26.53 30.58 26.45	19.02 21.99 24.01 24.18 24.48 24.61 25.97 26.67 25.93 25.02 26.37 28.20 24.77	W 20.83 23.72 25.35 25.93 25.12 26.36 27.00 28.20 28.90 26.96 29.38 26.35	15.07 16.49 20.82 22.02 21.92 22.30 23.34 24.43 25.45 23.06 22.02 25.09 21.93	18.02 20.67 23.31 24.06 24.33 24.48 25.77 26.51 25.97 24.92 25.86 25.86 27.91 24.13	17.57 19.68 22.79 24.03 24.11 23.98 25.06 25.94 26.37 24.73 24.53 28.07 23.83	16.95 18.58 21.72 24.26 24.78 23.93 24.98 25.92 27.16 26.30 23.92 26.32 23.97
2003 January February March April May June July August September October November December Average	33.28 36.01 32.00 27.77 27.39 28.52 29.60 30.04 27.91 31.07 30.57 31.60 30.14	27.91 30.10 29.93 26.06 24.98 26.91 26.88 27.48 25.17 25.57 25.06 26.16 26.76	34.11 36.79 32.73 26.15 26.85 29.35 30.17 30.24 28.13 29.88 30.38 32.63 30.55	28.71 29.28 26.18 22.24 23.12 25.09 26.05 26.37 23.76 24.37 25.54 26.27 25.48	33.40 35.65 34.29 29.54 28.33 29.49 30.40 31.10 29.13 30.38 31.45 32.51 31.07	30.55 29.25 26.23 24.46 25.40 28.22 27.54 27.08 25.81 28.23 29.13 30.56 27.50	32.89 34.74 31.32 28.23 26.75 29.58 29.83 30.52 28.95 31.14 31.60 31.46 30.62	29.38 30.80 26.51 23.33 23.42 25.06 26.11 26.23 24.09 25.48 27.70 25.70	30.22 29.85 27.01 24.26 25.15 28.11 27.50 26.93 25.88 28.01 26.13 30.17 27.54	30.79 30.73 28.24 24.86 25.30 27.38 27.58 27.70 25.99 27.76 29.84 27.70	29.99 31.94 29.52 25.62 25.50 27.33 27.84 28.27 25.84 26.97 26.95 27.79 27.68
2004 January	38.44 R 39.19 R 44.92	29.37 30.21 30.95 31.20 32.70 33.05 35.00 R 38.28 38.78	34.85 35.99 35.34 35.30 37.78 36.19 38.49 42.30 43.02	27.81 27.10 28.92 29.82 32.84 30.89 32.84 8 34.66 35.50	33.63 35.09 36.06 36.65 39.33 38.05 41.00 R 44.74 46.02	31.73 31.98 33.11 33.37 34.89 36.14 R 38.68 R 41.41 41.19	32.89 33.30 36.41 35.11 38.14 36.50 40.93 42.51 42.14	28.79 28.98 30.00 32.39 34.16 32.29 33.78 8 36.03 39.81	31.43 31.70 32.89 33.21 34.68 35.43 R 38.32 R 40.29 40.96	31.20 31.86 32.92 33.69 35.70 35.21 R 37.85 R 40.29 41.78	30.32 30.35 31.60 31.97 34.45 33.55 8 35.65 8 38.30 38.34

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

a Banrain, Iran, I

individual company data.

Notes: • See Note 3 at end of section. • Values for the current 2 months are preliminary. • Prices through 1980 reflect the period of reporting; prices since then reflect the period of loading. • Annual averages are averages of the monthly prices, including prices not published, weighted by volume.

[•] Cargoes that are purchased on a "netback" basis, or under similar contractual arrangements whereby the actual purchase price is not established at the time the crude oil is acquired for importation into the United States, are not included in the published data until the actual prices have been determined and reported. • U.S. geographic coverage is the 50 States and the District of Columbia. and the District of Columbia

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

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

1973 Average		Leaded Regular	Unleaded Regular	Unleaded Premium	All Types ^a
974 Average	072 Averes	20.0	, bia	, bia	, ALA
775 Average					
176 Average					
177 Average 62.2 65.6 NA NA NA 65.2 778 Average 62.6 67.0 NA 65.2 779 Average 62.6 67.0 NA 65.2 779 Average 62.6 67.0 NA 65.2 779 Average 719 Average 711 Average 719 Average 711 Average 719 Average 719 Average 719 Average 719 Average 719 Average 710 Average					
778 Average					
179 Average					
880 Average					
81 Average 131.1 137.8 5147.0 135.3 E22 Average 122.2 129.6 141.5 128.1 E33 Average 115.7 124.1 138.3 122.5 E34 Average 115.7 124.1 138.3 122.5 E34 Average 112.9 132.2 136.6 119.8 E35 Average 85.7 92.7 105.5 132.1 E36 Average 88.7 94.8 109.3 95.7 E36 Average 89.9 94.6 110.7 96.3 E36 Average 99.8 102.1 119.7 106.0 E36 Average 99.8 102.1 119.7 106.0 E36 Average 14.9 116.4 134.9 121.7 E36 Average 14.9 116.8 130.2 117.3 E36 Average 14.9 14.1 13.5 130.5 E36 Average 14.9 14.1 13.5 130.5 E36 Average 14.9 14.1 14.3 130.5 E36 Average 14.9 14.1 14.3 128.8 E36 Average 14.9 14.1 14.3 128.8 E36 Average 14.9 14.1 14.1 13.1 E36 Average 14.9 14.1 14.1 13.1 E36 Average 14.9 14.1 14.1 E36 Average 14.9 14.1 E36 Average 14.1 14.1 E37 Average 14.1 14.1 E38 Average					
82 Average 122.2 129.6 141.5 128.1 83.3 122.5 244 Average 1115.7 124.1 138.3 122.5 244 Average 1112.9 121.2 136.6 119.8 85 Average 1112.9 121.2 136.6 119.8 85 Average 1115.5 120.2 134.0 119.5 85 Average 185.7 92.7 136.6 136.5 35.1 136.5 136				NA C 1 4 7 . O	
83 Average					
84 Average 112.9 121.2 136.6 119.8 65 Average 111.5 120.2 134.0 119.6 66 Average 85.7 92.7 108.5 93.1 87 Average 85.7 92.7 108.5 93.1 87 Average 88.7 94.8 109.3 95.7 94.8 109.3 95.7 94.8 109.3 95.7 94.8 109.3 95.7 94.8 109.3 95.7 94.8 109.3 95.7 94.8 109.3 95.7 96.0 96.0 96.0 96.0 96.0 96.0 96.0 96.0					
86 Average 111.5 120.2 134.0 119.6 86 Average 85.7 92.7 108.5 93.1 87 Average 89.7 94.8 109.3 95.7 88 Average 99.8 102.1 110.7 96.3 88 Average 99.8 102.1 110.7 96.3 91 Average NA 114.0 132.1 119.0 92 Average NA 112.7 131.6 119.0 93 Average NA 110.8 130.2 117.3 94 Average NA 111.2 130.5 117.4 95 Average NA 111.2 130.5 117.4 95 Average NA 111.7 133.6 120.5 95 Average NA 112.1 141.3 128.8 96 Average NA 122.1 141.3 128.8 97 Average NA 152.3 152.3 162.0 10 Average NA 151.0 169.3 155.3 10 Average NA 151.0 169.3 155.3					
86 Average 85.7 92.7 108.5 93.1 87 Average 89.9 94.6 110.7 96.3 88 Average 99.8 102.1 119.7 106.0 90 Average 114.9 116.4 134.9 121.7 19 Average NA 114.0 132.9 119.6 19 Average NA 112.0 130.2 119.3 20 Average NA 112.7 133.6 119.3 40 Average NA 114.7 133.6 120.5 56 Average NA 114.7 133.6 120.5 57 Average NA 114.7 133.6 120.5 58 Average NA 123.1 141.3 128.8 59 Average NA 105.9 125.0 111.5 59 Average NA 105.9 125.0 111.5 59 Average NA 116.5 135.7 122.1 00 Average NA 165.9 125.0 111.5					
87 Average					
88 Average 89.9 94.6 110.7 96.3 99 Average 114.9 116.4 134.9 121.7 91 Average NA 114.0 132.1 119.6 92 Average NA 112.7 131.6 119.0 93 Average NA 110.8 130.2 117.3 94 Average NA 111.2 130.5 117.4 95 Average NA 111.7 133.6 120.5 96 Average NA 111.7 133.6 120.5 97 Average NA 111.7 133.6 120.5 98 Average NA 122.1 141.3 128.8 98 Average NA 122.3 125.0 111.5 98 Average NA 108.9 125.0 111.5 98 Average NA 115.9 125.0 111.5 98 Average NA 115.9 122.3 120.9 7 February NA 113.0 133.0 121.0 02 January NA 113.0 133.0 121.0					
89 Average 99.8 102.1 119.7 106.0 90 Average 114.9 116.4 134.9 121.7 91 Average NA 114.0 132.1 119.6 92 Average NA 112.7 131.6 119.0 93 Average NA 110.8 130.2 117.3 95 Average NA 111.7 133.6 220.5 95 Average NA 111.7 133.6 220.5 96 Average NA 112.1 141.6 223.1 98 Average NA 1105.9 125.0 111.5 98 Average NA 116.5 135.7 122.1 100 Average NA 116.5 135.7 122.1 100 Average NA 151.0 169.3 156.3 101 Average NA 113.9 132.3 120.9 February NA 113.9 132.3 120.9 February NA 113.9 132.3 120.9 February NA 113.9 132.3 120.9					
99 Average					
92 Average NA 112.7 131.6 119.0 93 Average NA 110.8 130.2 117.3 94 Average NA 111.2 130.5 117.4 95 Average NA 114.7 133.6 120.5 96 Average NA 123.1 141.3 128.8 97 Average NA 105.9 125.0 111.5 98 Average NA 106.5 135.7 122.1 00 Average NA 116.5 135.7 122.1 00 Average NA 151.0 169.3 156.3 10 Average NA 113.9 132.3 120.9 February NA 113.0 133.0 121.0 March NA 113.0 133.0 121.0 March NA 140.7 162.2 149.3 May NA 140.7 162.2 149.3 May NA 140.7 162.2 149.3 July NA 140.7 162.2 149.3 May NA					
93 Average NA 110.8 130.2 117.3 94 Average NA 111.2 130.5 117.4 95 Average NA 111.2 130.5 117.4 95 Average NA 111.2 130.5 117.4 95 Average NA 111.4 133.6 120.5 96 Average NA 123.1 141.3 128.8 97 Average NA 123.1 141.3 128.8 97 Average NA 123.4 141.6 129.1 99 Average NA 105.9 125.0 111.5 135.7 122.1 00 Average NA 116.5 135.7 122.1 00 Average NA 151.0 169.3 156.3 101 Average NA 146.1 165.7 153.1 102 January NA 146.1 165.7 153.1 102 January NA 113.9 132.3 120.9 February NA 113.0 133.0 121.0 122.4 April NA 124.1 145.0 132.4 April NA 140.4 140.7 146.2 150.8 140.4 140.4 140.6					
1994 Average					
1995 Average NA 114.7 133.6 120.5 1967 Average NA 123.1 141.3 128.8 1977 Average NA 123.4 141.6 129.1 1989 Average NA 116.5 135.7 122.1 1999 Average NA 116.5 135.7 122.1 100 Average NA 116.5 135.7 122.1 1002 January NA 113.9 132.3 120.9 February NA 113.0 133.0 121.0 March NA 114.0 165.7 153.1 March NA 113.0 133.0 121.0 March NA 114.0 145.0 132.4 April NA 140.7 162.2 149.3 May NA 140.7 162.2 149.3 May NA 140.4 160.6 148.9 July NA 141.2 160.7 149.6 August NA 142.2 161.9 150.7 October NA					
995 Average NA 114.7 133.6 120.5 996 Average NA 123.1 141.3 128.8 197 Average NA 123.4 141.6 129.1 198 Average NA 105.9 125.0 111.5 199 Average NA 116.5 135.7 122.1 100 Average NA 151.0 169.3 156.3 101 Average NA 116.1 165.7 153.1 102 January NA 113.9 132.3 120.9 February NA 113.0 133.0 121.0 March NA 114.1 145.0 132.4 April NA 140.7 162.2 149.3 May NA 140.7 162.2 149.3 May NA 140.4 160.6 148.9 Jule NA 141.2 160.7 149.6 August NA 141.2 160.7 149.6 August NA 142.2 161.9 150.7 October NA					
996 Average NA 123.1 141.3 128.8 129.1 141.6 129.1 129.1 141.6 129.1 129.1 141.6 129.1 129.1 129.1 129.0 111.5 129.1 129.1 129.0 111.5 129.1 129					
197 Average	96 Average		123.1		
1988 Average			123.4	141.6	
199 Average	98 Average	NA	105.9	125.0	111.5
100 Average		NA	116.5	135.7	122.1
NA 146.1 165.7 153.1 102 January NA 113.9 132.3 120.9 February NA 113.0 133.0 121.0 March NA 113.0 133.0 121.0 March NA 140.7 162.2 149.3 May NA 140.7 162.2 149.3 May NA 140.7 162.5 150.8 June NA 142.1 162.5 150.8 June NA 140.4 160.6 149.6 July NA 141.2 160.7 149.6 August NA 142.2 160.7 149.6 August NA 142.2 160.7 149.6 November NA 144.2 164.3 153.5 November NA 144.8 164.3 153.4 December NA 144.8 164.3 153.4 December NA 135.4 <th< td=""><td></td><td>NA</td><td>151.0</td><td>169.3</td><td>156.3</td></th<>		NA	151.0	169.3	156.3
February NA 113.0 133.0 121.0 March NA 124.1 145.0 132.4 April NA 140.7 162.2 149.3 May NA 140.7 162.5 150.8 June NA 140.4 160.6 148.9 July NA 141.2 160.7 149.6 August NA 141.2 160.7 149.6 August NA 141.2 160.7 149.6 September NA 142.2 161.9 150.7 October NA 142.2 161.9 150.7 October NA 144.8 164.3 153.5 November NA 144.8 164.3 153.4 December NA 139.4 158.9 147.7 Average NA 147.3 166.6 155.7 February NA 164.1 182.8 168.6 March NA		NA	146.1	165.7	153.1
March NA 124.1 145.0 132.4 April NA 140.7 162.2 149.3 May NA 142.1 162.5 150.8 June NA 140.4 160.6 148.9 July NA 141.2 160.7 149.6 August NA 142.3 162.0 150.8 September NA 142.2 161.9 150.7 October NA 144.9 164.3 153.5 November NA 144.9 164.3 153.5 November NA 144.9 164.3 153.4 December NA 139.4 158.9 147.7 Average NA 139.4 158.9 147.7 Average NA 147.3 166.6 155.7 February NA 147.3 166.6 155.7 February NA 164.1 182.8 168.6 May NA	02 January				
April NA 140.7 162.2 149.3 May NA 142.1 162.5 150.8 June NA 140.4 160.6 148.9 July NA 141.2 160.7 149.6 August NA 142.2 161.9 150.7 Cotober NA 144.9 164.3 153.5 November NA 144.8 164.3 153.5 November NA 144.8 164.3 153.5 November NA 144.8 164.3 153.4 December NA 144.8 164.3 153.4 Na 139.4 158.9 147.7 Average NA 135.8 155.6 144.1 103 January NA 147.3 166.6 155.7 February NA 147.3 166.6 155.7 February NA 154.1 182.8 168.6 Mary NA 154.2	February	NA	113.0	133.0	121.0
May NA 142.1 162.5 150.8 June NA 140.4 160.6 148.9 July NA 141.2 160.7 149.6 August NA 141.2 160.7 149.6 August NA 142.3 162.0 150.8 September NA 142.2 161.9 150.7 October NA 144.9 164.3 153.5 November NA 144.8 164.3 153.5 November NA 144.8 164.3 153.5 November NA 144.8 164.3 153.5 Neember NA 144.9 164.3 153.5 Neember NA 144.1 182.8 168.6 October NA 147.3 166.6 155.7 February NA 164.1 182.8 168.6 March NA 174.8 192.4 179.1 April NA	March	NA	124.1	145.0	132.4
June NA 140.4 160.6 148.9 July NA 141.2 160.7 149.6 August NA 142.3 162.0 150.8 September NA 142.2 161.9 150.7 October NA 144.9 164.3 153.5 November NA 144.8 164.3 153.5 November NA 144.8 164.3 153.4 December NA 144.8 164.3 153.4 December NA 135.8 155.6 144.1 Overage NA 135.8 155.6 144.7 Average NA 147.3 166.6 155.7 February NA 147.3 166.6 155.7 February NA 164.1 182.8 168.6 March NA 164.1 182.8 168.6 March NA 154.2 172.9 158.7 June NA	April	NA	140.7	162.2	149.3
July NA 141.2 160.7 149.6 August NA 142.3 162.0 150.8 September NA 142.2 161.9 150.7 October NA 144.9 164.3 153.5 November NA 144.8 164.3 153.5 December NA 139.4 158.9 147.7 Average NA 135.8 155.6 144.1 03 January NA 147.3 166.6 155.7 February NA 164.1 182.8 168.6 March NA 174.8 192.4 179.1 April NA 166.9 184.6 170.4 May NA 165.9 184.6 170.4 May NA 154.2 172.9 158.7 July NA 151.4 170.0 155.8 July NA 152.4 171.0 156.7 August NA <t< td=""><td>May</td><td>NA</td><td>142.1</td><td>162.5</td><td>150.8</td></t<>	May	NA	142.1	162.5	150.8
July NA 141.2 160.7 149.6 August NA 142.3 162.0 150.8 September NA 142.2 161.9 150.7 October NA 144.9 164.3 153.5 November NA 144.8 164.3 153.5 December NA 139.4 158.9 147.7 Average NA 139.4 158.9 147.7 Average NA 135.8 155.6 144.1 103 January NA 147.3 166.6 155.7 Average NA 147.3 166.6 155.7 February NA 164.1 182.8 168.6 March NA 174.8 192.4 179.1 April NA 166.9 184.6 170.4 May NA 165.9 184.6 170.4 May NA 154.2 172.9 158.7 Jule NA	June	NA	140.4	160.6	148.9
August NA 142.3 162.0 150.8 September NA 142.2 161.9 150.7 October NA 144.9 164.3 153.5 November NA 144.8 164.3 153.4 December NA 139.4 158.9 147.7 Average NA 135.8 155.6 144.1 03 January NA 147.3 166.6 155.7 February NA 164.1 182.8 168.6 March NA 174.8 192.4 179.1 April NA 154.2 172.9 158.7 June NA 154.2 172.9 158.7 July NA 152.4 171.0 155.8 July NA 152.4 171.0 156.7 August NA 162.8 <t< td=""><td></td><td>NA</td><td>141.2</td><td>160.7</td><td>149.6</td></t<>		NA	141.2	160.7	149.6
September NA 142.2 161.9 150.7 October NA 144.9 164.3 153.5 November NA 144.8 164.3 153.5 December NA 139.4 158.9 147.7 Average NA 135.8 155.6 144.1 03 January NA 147.3 166.6 155.7 February NA 164.1 182.8 168.6 March NA 164.1 182.8 168.6 March NA 174.8 192.4 179.1 April NA 165.9 184.6 170.4 April NA 154.2 172.9 158.7 June NA 151.4 170.0 155.8 July NA 152.4 171.0 155.8 July NA 162.8 180.8 167.1 September NA 160.3 178.9 164.6 November NA		NA	142.3	162.0	150.8
October NA 144.9 164.3 153.5 November NA 144.8 164.3 153.4 December NA 139.4 158.9 147.7 Average NA 135.8 155.6 144.1 103 January NA 147.3 166.6 155.7 February NA 164.1 182.8 168.6 March NA 174.8 192.4 179.1 April NA 165.9 184.6 170.4 May NA 151.4 170.0 155.8 Jule NA 151.4 170.0 155.8 July NA 152.4 171.0 156.7 August NA 162.8 180.8 167.1 September NA 162.8 180.8 167.1 October NA 153.5 172.4 177.9 November NA 153.5 172.4 157.8 December NA					
November NA 144.8 164.3 153.4 December NA 139.4 158.9 147.7 Average NA 135.8 155.6 144.1 103 January NA 147.3 166.6 155.7 February NA 164.1 182.8 168.6 March NA 165.9 184.6 179.1 May NA 165.9 184.6 179.1 Jule NA 154.2 172.9 158.7 Jule NA 151.4 170.0 155.8 August NA 152.4 171.0 167.2 September NA 162.8 180.8 167.1 September NA					
December NA 139.4 158.9 147.7 Average NA 135.8 155.6 144.1 103 January NA 147.3 166.6 155.7 February NA 164.1 182.8 168.6 March NA 164.1 182.8 168.6 March NA 164.1 182.8 168.6 April NA 165.9 184.6 170.4 May NA 165.9 184.6 170.4 May NA 154.2 172.9 158.7 July NA 151.4 170.0 155.8 July NA 152.4 171.0 156.7 August NA 162.8 180.8 167.1 August NA 162.8 180.8 167.1 August NA 160.3 178.9 164.6 NA 153.5 172.4 157.8 NA 149.4 168.6 153.					
Average NA 135.8 155.6 144.1 03 January NA 147.3 166.6 155.7 February NA 164.1 182.8 168.6 March NA 174.8 192.4 179.1 April NA 165.9 184.6 170.4 May NA 165.9 184.6 170.4 May NA 154.2 172.9 158.7 July NA 151.4 170.0 155.8 July NA 152.4 171.0 156.7 August NA 152.4 171.0 156.7 August NA 162.8 180.8 167.1 September NA 172.8 191.1 177.1 October NA 160.3 178.9 164.6 November NA 153.5 172.4 157.8 December NA 149.4 168.6 153.8 Average NA					
February NA 164.1 182.8 168.6 March NA 174.8 192.4 179.1 April NA 165.9 184.6 170.4 May NA 154.2 172.9 158.7 June NA 151.4 170.0 155.8 July NA 152.4 171.0 156.7 August NA 162.8 180.8 167.1 September NA 162.8 191.1 177.1 October NA 160.3 178.9 164.6 November NA 153.5 172.4 157.8 December NA 153.5 172.4 153.8 Average NA 159.1 177.7 163.8 O4 January NA 159.1 177.7 163.8 O4 January NA 167.2 185.8 171.5 March NA 167.2 185.8 171.5 May NA					
February NA 164.1 182.8 168.6 March NA 174.8 192.4 179.1 April NA 165.9 184.6 170.4 May NA 154.2 172.9 158.7 June NA 151.4 170.0 155.8 July NA 152.4 171.0 156.7 August NA 162.8 180.8 167.1 September NA 162.8 191.1 177.1 October NA 160.3 178.9 164.6 November NA 153.5 172.4 157.8 December NA 149.4 168.6 153.8 Average NA 159.1 177.7 163.8 February NA 159.2 177.9 163.5 February NA 159.2 177.9 163.5 March NA 167.6 194.9 180.9 April NA	03 January	NA	147.3	166.6	155.7
March NA 174.8 192.4 179.1 April NA 165.9 184.6 170.4 May NA 154.2 172.9 158.7 June NA 151.4 170.0 155.8 July NA 152.4 171.0 156.7 August NA 152.4 171.0 156.7 August NA 162.8 180.8 167.1 September NA 172.8 191.1 177.1 October NA 160.3 178.9 164.6 November NA 153.5 172.4 157.8 December NA 149.4 168.6 153.8 Average NA 159.1 177.7 163.8 104 January NA 159.1 177.7 163.8 104 January NA 167.2 185.8 171.5 March NA 167.2 185.8 171.5 May NA		NA	164.1	182.8	168.6
April NA 165.9 184.6 170.4 May NA 154.2 172.9 158.7 June NA 151.4 170.0 155.8 July NA 152.4 171.0 156.7 August NA 162.8 180.8 167.1 September NA 162.8 191.1 177.1 October NA 160.3 178.9 164.6 November NA 153.5 172.4 157.8 December NA 149.4 168.6 153.8 Average NA 159.1 177.7 163.8 104 January NA 159.2 177.9 163.5 February NA 167.2 185.8 171.5 March NA 176.6 194.9 180.9 April NA 183.3 201.2 187.5 May NA 183.3 201.2 187.5 May NA 200.9 218.6 205.0 June NA 204.1 222.		NA	174.8	192.4	179.1
May NA 154.2 172.9 158.7 June NA 151.4 170.0 155.8 July NA 152.4 171.0 155.8 August NA 162.8 180.8 167.1 September NA 162.8 191.1 177.1 October NA 160.3 178.9 164.6 November NA 153.5 172.4 157.8 December NA 149.4 168.6 153.8 Average NA 159.1 177.7 163.8 104 January NA 159.1 177.7 163.8 104 January NA 167.2 185.8 171.5 March NA 167.2 185.8 171.5 March NA 176.6 194.9 180.9 April NA 183.3 201.2 187.5 May NA 183.3 201.2 187.5 May NA					
June NA 151.4 170.0 155.8 July NA 152.4 171.0 156.7 August NA 162.8 180.8 167.1 September NA 162.8 191.1 177.1 October NA 160.3 178.9 164.6 November NA 160.3 178.9 164.6 November NA 153.5 172.4 157.8 December NA 149.4 168.6 153.8 Average NA 159.1 177.7 163.8 O4 January NA 159.1 177.7 163.8 O4 January NA 167.2 185.8 171.5 March NA 167.2 185.8 171.5 March NA 176.6 194.9 180.9 April NA 183.3 201.2 187.5 May NA 183.3 201.2 187.5 May NA					
July NA 152.4 171.0 156.7 August NA 162.8 180.8 167.1 September NA 172.8 191.1 177.1 October NA 160.3 178.9 164.6 November NA 153.5 172.4 157.8 December NA 149.4 168.6 153.8 Average NA 159.1 177.7 163.8 O4 January NA 159.1 177.9 163.5 February NA 167.2 185.8 171.5 March NA 176.6 194.9 180.9 April NA 183.3 201.2 187.5 May NA 183.3 201.2 187.5 May NA 200.9 218.6 205.0 June NA 204.1 222.5 208.3 July NA 193.9 213.0 198.2 August NA <t< td=""><td></td><td></td><td></td><td></td><td></td></t<>					
August NA 162.8 180.8 167.1 September NA 172.8 191.1 177.1 October NA 160.3 178.9 164.6 November NA 153.5 172.4 157.8 December NA 149.4 168.6 153.8 Average NA 159.1 177.7 163.8 04 January NA 159.2 177.9 163.5 February NA 167.2 185.8 171.5 March NA 176.6 194.9 180.9 April NA 183.3 201.2 187.5 May NA 183.3 201.2 187.5 May NA 200.9 218.6 205.0 June NA 204.1 222.5 208.3 July NA 193.9 213.0 198.2 August NA 189.8 209.1 194.1					
September NA 172.8 191.1 177.1 October NA 160.3 178.9 164.6 November NA 153.5 172.4 157.8 December NA 149.4 168.6 153.8 Average NA 159.1 177.7 163.8 04 January NA 159.2 177.9 163.5 February NA 167.2 185.8 171.5 March NA 176.6 194.9 180.9 April NA 183.3 201.2 187.5 May NA 183.3 201.2 187.5 May NA 200.9 218.6 205.0 June NA 204.1 222.5 208.3 July NA 193.9 213.0 198.2 August NA 189.8 209.1 194.1					
October NA 160.3 178.9 164.6 November NA 153.5 172.4 157.8 December NA 149.4 168.6 153.8 Average NA 159.1 177.7 163.8 04 January NA 159.2 177.9 163.5 February NA 167.2 185.8 171.5 March NA 176.6 194.9 180.9 April NA 183.3 201.2 187.5 May NA 183.3 201.2 187.5 June NA 200.9 218.6 205.0 June NA 204.1 222.5 208.3 July NA 193.9 213.0 198.2 August NA 189.8 209.1 194.1					
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December NA 149.4 168.6 153.8 Average NA 159.1 177.7 163.8 04 January NA 159.2 177.9 163.5 February NA 167.2 185.8 171.5 March NA 176.6 194.9 180.9 April NA 183.3 201.2 187.5 May NA 200.9 218.6 205.0 June NA 204.1 222.5 208.3 July NA 193.9 213.0 198.2 August NA 189.8 209.1 194.1					
Average NA 159.1 177.7 163.8 04 January NA 159.2 177.9 163.5 February NA 167.2 185.8 171.5 March NA 176.6 194.9 180.9 April NA 183.3 201.2 187.5 May NA 200.9 218.6 205.0 June NA 204.1 222.5 208.3 July NA 193.9 213.0 198.2 August NA 189.8 209.1 194.1					
February NA 167.2 185.8 171.5 March NA 176.6 194.9 180.9 April NA 183.3 201.2 187.5 May NA 200.9 218.6 205.0 June NA 204.1 222.5 208.3 July NA 193.9 213.0 198.2 August NA 189.8 209.1 194.1					
February NA 167.2 185.8 171.5 March NA 176.6 194.9 180.9 April NA 183.3 201.2 187.5 May NA 200.9 218.6 205.0 June NA 204.1 222.5 208.3 July NA 193.9 213.0 198.2 August NA 189.8 209.1 194.1	04 January	NA	159.2	177.9	163.5
March NA 176.6 194.9 180.9 April NA 183.3 201.2 187.5 May NA 200.9 218.6 205.0 June NA 204.1 222.5 208.3 July NA 193.9 213.0 198.2 August NA 189.8 209.1 194.1					
April NA 183.3 201.2 187.5 May NA 200.9 218.6 205.0 June NA 204.1 222.5 208.3 July NA 193.9 213.0 198.2 August NA 189.8 209.1 194.1					
May NA 200.9 218.6 205.0 June NA 204.1 222.5 208.3 July NA 193.9 213.0 198.2 August NA 189.8 209.1 194.1					
June NA 204.1 222.5 208.3 July NA 193.9 213.0 198.2 August NA 189.8 209.1 194.1					
July NA 193.9 213.0 198.2 August NA 189.8 209.1 194.1					
August					
September NA 189.1 208.2 193.4 October NA 202.9 221.5 207.2	September	NA	189.1	208.2	193.4

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

Web Page: http://www.eia.doe.gov/emeu/mer/prices.html.
Sources: • Monthly Data: U.S. Department of Labor, Bureau of Labor
Statistics, Consumer Prices: Energy. • Annual Data: 1973—Platt's
Oil Price Handbook and Oilmanac, 1974, 51st Edition. 1974
forward—calculated by the Energy Information Administration as the simple averages of monthly data.

^a Also includes types of motor gasoline not shown separately.
^b In September 1981, the Bureau of Labor Statistics changed the weights used in the calculation of average motor gasoline prices. From September 1981 forward, gasohol is included in the average for all types, and unleaded premium is weighted more heavily.

^c Based on September through December data only.

NA=Not available.

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

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
978 Average	29.3	31.4	24.5	27.5	26.3	29.8
979 Average	45.0	46.8	36.6	38.9	39.9	43.6
980 Average	60.8	67.5	47.9	52.3	52.8	60.7
81 Average	74.8	82.9	62.2	67.3	66.3	75.6
82 Average	69.5	74.7	57.2	61.1	61.2	67.6
83 Average	64.3	69.5	59.1	61.1	60.9	65.1
84 Average	68.5	72.0	63.9	65.9	65.4	68.7
85 Average	61.0	64.4	56.0	58.2	57.7	61.0
86 Average	32.8	37.2	28.9	31.7	30.5	34.3
87 Average	41.2	44.7	36.2	39.6	38.5	42.3
88 Average	33.3	37.2	27.1	30.0	30.0	33.4
89 Average	40.7	43.6	33.1	34.4	36.0	38.5
90 Average	47.2	50.5	37.2	40.0	41.3	44.4
91 Average	36.4	40.2	29.2	30.6	31.4	34.0
92 Average	35.1	38.9	28.6	31.2	30.8	33.6
93 Average	33.7	39.7	25.6	30.3	29.3	33.7
94 Average	34.5	40.1	28.7	33.0	31.7	35.2
95 Average	38.3	43.6	33.8	37.7	36.3	39.2
96 Average	45.6	52.6	38.9	43.3	42.0	45.5
		48.8		40.3		
97 Average	41.5		36.6		38.7	42.3
98 Average	29.9	35.4	26.9	28.7	28.0	30.5
99 Average	38.2	40.5	32.9	36.2	35.4	37.4
00 Average	62.7	70.8	51.2	56.6	56.6	60.2
01 Average	52.3	64.2	42.8	49.2	47.6	53.1
02 January	40.4	51.8	33.7	41.6	38.2	44.2
February	37.1	52.2	33.7	40.9	35.9	43.3
Moroh	46.0	53.5	40.5	48.3	43.7	49.7
March						
April	53.8	59.4	48.0	55.0	51.2	56.0
May	56.3	63.5	52.1	56.6	54.5	58.1
June	53.5	61.4	53.3	57.2	53.4	58.2
July	55.7	63.2	50.9	56.8	53.7	58.6
August	60.6	67.4	55.8	59.2	58.4	61.4
	60.1	67.8	56.8	62.6	58.7	63.8
September						
October	65.1	72.7	54.5	63.7	60.7	65.8
November	59.1	73.6	58.2	54.8	58.7	60.1
December	67.6	73.9	59.7	56.6	64.1	62.0
Average	54.6	64.0	50.8	54.4	53.0	56.9
03 January	79.7	86.6	NA	71.2	73.1	75.4
February	94.4	97.2	76.0	77.1	87.3	83.9
Moreh						
March	88.1	98.1	62.4	72.1	77.4	81.1
April	60.3	77.3	51.9	59.5	56.9	64.3
May	62.8	74.9	53.2	58.8	57.2	61.9
June	62.6	71.9	54.1	60.0	58.0	63.9
July	64.9	74.5	58.9	67.8	61.7	70.1
August	67.2	75.4	60.7	67.2	63.4	69.8
September	62.6	72.0	56.1	61.2	58.6	64.6
October	65.2	70.7	56.6	62.8	60.1	65.2
November	67.3	76.7	58.7	62.2	62.7	66.7
December	66.7	79.3	54.5	60.7	62.3	66.8
Average	72.8	80.4	58.8	65.1	66.1	69.8
04 January	75.3	84.4	57.6	64.9	69.0	71.6
	76.3	80.7	59.3	64.0	69.7	70.3
February						
March	67.3	76.3	57.1	62.5	62.8	67.5
April	69.9	75.8	58.4	64.8	64.4	68.8
May	76.4	79.1	62.9	69.8	68.9	72.8
June	75.7	78.7	62.7	71.6	69.6	73.9
	72.2	76.3	60.4	69.3	66.4	71.4
July						
August	75.2	79.8	60.8 61.3	70.1 70.7	67.8 67.3	73.2 77.2
September	74.8	88.3				

NA=Not available.

Notes: • Sales for resale are those made to purchasers other than ultimate consumers. Sales to end users are those made directly to ultimate consumers, including bulk consumers (such as agriculture, industry, and electric utilities) and commercial consumers. • Values for the current month

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

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

Table 9.6 Refiner Prices of Petroleum Products for Resale

	Finished Motor	Finished Aviation	Kerosene-		No. 2 Fuel	No. 2 Diesel	Propane (Consum
	Gasoline ^a	Gasoline	Type Jet Fuel	Kerosene	Oil	Fuel	Grade)
78 Average	43.4	53.7	38.6	40.4	36.9	36.5	23.7
	63.7	72.1	66.0	62.4	56.9	57.4	29.1
79 Average			86.8			80.1	
80 Average	94.1	112.8		86.4	80.3		41.5
81 Average	106.4	125.0	101.2	106.6	97.6	97.2	46.6
82 Average	97.3	122.8	95.3	101.8	91.4	91.4	42.7
83 Average	88.2	117.8	85.4	89.2	81.5	80.8	48.4
84 Average	83.2	116.5	83.0	91.6	82.1	80.3	45.0
85 Average	83.5	113.0	79.4	87.4	77.6	77.2	39.8
86 Average	53.1	91.2	49.5	60.6	48.6	45.2	29.0
87 Average	58.9	85.9	53.8	59.2	52.7	53.4	25.2
88 Average	57.7	85.0	49.5	54.9	47.3	47.3	24.0
89 Average	65.4	95.0	58.3	66.9	56.5	56.7	24.7
90 Average	78.6	106.3	77.3	83.9	69.7	69.4	38.6
91 Average	69.9	100.1	65.0	72.2	62.2	61.5	34.9
92 Average	67.7	99.1	60.5	63.2	57.9	59.1	32.8
	62.6	96.5	57.7	60.4	54.4	57.0	35.1
93 Average							
94 Average	59.9	93.3	53.4	61.8	50.6	52.9	32.4
95 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
97 Average	70.0	106.5	61.3	65.3	59.0	60.6	41.6
98 Average	52.6	91.2	45.0	46.5	42.2	44.4	28.8
999 Average	64.5	100.7	53.3	55.0	49.3	54.6	34.2
000 Average	96.3	133.0	88.0	96.9	88.6	89.8	59.5
01 Average	88.6	125.6	76.3	82.1	75.6	78.4	54.0
02 January	61.2	97.5	57.2	61.9	57.6	54.6	37.4
February	62.8	99.8	57.1	61.1	57.8	56.7	36.4
March	78.4	105.1	63.9	69.8	64.5	66.6	39.7
April	87.1	118.9	69.1	70.5	68.3	70.9	41.6
May	85.9	114.4	69.6	71.1	68.4	70.6	40.8
June	85.6	116.7	67.8	69.4	66.0	68.2	37.9
July	87.8	118.9	71.4	73.2	68.9	71.0	37.5
	87.4	115.5	73.8	76.4	71.3	71.0 75.7	41.5
August							
September	88.9	119.2	81.5	85.5	78.3	83.4	47.1
October	93.0	123.7	84.5	88.5	79.6	85.7	48.9
November	85.0	116.1	75.1	81.3	74.8	78.7	49.4
December	85.9	113.2	79.9	87.9	80.8	82.0	53.3
Average	82.8	114.6	71.6	75.2	69.4	72.4	43.1
03 January	94.7	122.4	89.8	98.8	90.0	89.2	60.5
February	110.0	130.1	103.1	118.4	108.6	107.8	72.7
March	112.9	135.0	102.4	116.6	105.3	102.5	69.2
April	99.7	125.8	82.3	86.1	83.0	86.4	53.8
May	93.6	122.6	75.1	75.4	75.8	79.2	54.3
June	95.6	NA	76.9	77.4	76.9	81.0	57.1
July	98.2	129.5	81.3	82.8	78.9	83.7	55.9
August	110.2	139.7	86.2	88.2	83.6	88.8	58.6
	102.5	134.9	80.8	82.7	77.3	80.7	56.7
September	98.2				77.3 84.2		
October		131.3	83.7	91.6		87.0	59.7
November	94.3	124.4	86.5	89.5	84.2	86.5	58.7
December Average	93.9 100.2	124.4 128.8	90.7 87.1	97.0 95.5	88.6 88.1	89.2 88.3	64.8 60.7
_							
04 January	105.0	135.3	99.7	110.9	97.0	96.2	71.7
February	112.7	143.6	100.0	114.6	93.0	96.8	70.1
March	119.9	148.9	101.4	104.3	93.6	101.0	61.9
April	125.4	155.7	103.3	104.3	95.5	107.6	60.4
May	143.5	172.8	115.1	119.4	102.9	112.4	65.6
June	133.5	174.0	108.5	108.0	101.9	107.2	66.1
July	134.1	170.6	115.6	118.8	109.4	115.6	72.1
August	131.0	R 168.1	126.9	R 127.9	118.8	124.4	83.0
			132.5		126.8	133.1	80.6
September	132.8	165.8	134.3	139.9	120.0	133.1	0.00

a See Note 5 at end of section.

Notes:
• Sales for resale are those made to purchasers other than ultimate consumers. Sales to end users are shown in Table 9.7; they are sales made directly to ultimate consumers, including bulk consumers (such as agriculture, industry, and electric utilities) and residential and commercial consumers. • Values for the current month are preliminary. • Prices prior to 1983 are Energy Information Administration (EIA) estimates. See Note 6 at end of section. • Geographic coverage is the 50 States and the District of

Columbia.

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

Source: EIA, Petroleum Marketing Monthly, December 2004, Table 4.

NA=Not available. R=Revised.

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 (Consume Grade)
	Guoomie	Guoomie	oct i dei	Reference	U	1 40.	Grade)
978 Average	48.4	51.6	38.7	42.1	40.0	37.7	33.5
979 Average	71.3	68.9	54.7	58.5	51.6	58.5	35.7
980 Average	103.5	108.4	86.8	90.2	78.8	81.8	48.2
981 Average	114.7	130.3	102.4	112.3	91.4	99.5	56.5
982 Average	106.0	131.2	96.3	108.9	90.5	94.2	59.2
983 Average	95.4	125.5	87.8	96.1	91.6	82.6	70.9
984 Average	90.7	123.4	84.2	103.6	91.6	82.3	73.7
985 Average	91.2	120.1	79.6	103.0	84.9	78.9	71.7
986 Average	62.4	101.1	52.9	79.0	56.0	47.8	74.5
	66.9	90.7	54.3	77.0	58.1	55.1	70.1
987 Average	67.3	89.1	54.3 51.3	77.0	54.4	50.0	71.4
988 Average							
989 Average	75.6	99.5	59.2	70.9	58.7	58.5	61.5
990 Average	88.3	112.0	76.6	92.3	73.4	72.5	74.5
991 Average	79.7	104.7	65.2	83.8	66.5	64.8	73.0
992 Average	78.7	102.7	61.0	78.8	62.7	61.9	64.3
993 Average	75.9	99.0	58.0	75.4	60.2	60.2	67.3
994 Average	73.8	95.7	53.4	66.0	57.2	55.4	53.0
995 Average	76.5	100.5	54.0	58.9	56.2	56.0	49.2
996 Average	84.7	111.6	65.1	74.0	67.3	68.1	60.5
997 Average	83.9	112.8	61.3	74.5	63.6	64.2	55.2
998 Average	67.3	97.5	45.2	50.1	48.2	49.4	40.5
999 Average	78.1	105.9	54.3	60.5	55.8	58.4	45.8
000 Average	110.6	130.6	89.9	112.3	92.7	93.5	60.3
001 Average	103.2	132.3	77.5	104.5	82.9	84.2	50.6
-							
002 January	70.6	111.8	58.2	98.0	63.6	60.5	38.1
February	71.8	110.6	58.5	99.6	62.3	61.6	35.0
March	87.2	122.6	64.4	101.3	70.1	70.2	39.5
April	100.4	129.8	70.1	87.3	72.0	75.3	41.7
May	99.9	128.9	70.9	91.5	70.9	75.5	40.5
June	99.1	127.3	68.8	83.6	67.8	73.7	37.9
July	100.3	139.2	72.2	80.7	70.9	75.6	38.4
August	100.1	136.9	75.3	79.8	73.4	79.5	41.5
September	100.1	139.1	82.8	99.1	81.8	86.7	46.9
October	104.0	143.0	84.7	111.1	81.8	89.1	47.1
November	101.2	141.8	76.7	104.4	80.0	84.0	46.9
November							
December	98.1 94.7	139.8 128.8	81.1 72.1	115.2 99.0	87.5 73.7	85.9 76.2	49.9 41.9
Average	94.7	120.0	72.1	99.0	13.1	76.2	41.9
003 January	106.0	139.7	91.4	121.0	98.3	93.2	57.3
February	122.1	W	101.8	137.2	114.5	110.3	69.5
March	130.1	W	104.3	138.6	112.9	111.3	68.0
April	120.0	W	82.1	127.7	91.2	94.2	52.7
May	110.0	139.8	75.9	NA	81.1	85.5	53.9
	109.4	145.7	76.6	90.8	81.6	86.4	56.0
June	110.6	151.9	81.7	89.8	82.8	88.4	54.3
July							
August	123.1	162.2	87.2	100.7	86.9	94.2	55.3
September	126.5	158.9	81.7	NA	81.4	88.9	53.8
October	115.0	150.8	84.5	117.2	88.2	91.9	55.8
November	109.5	W	87.8	120.9	89.1	91.7	55.9
December	106.5	146.6	92.9	NA	94.5	93.8	61.3
Average	115.6	149.3	87.2	122.4	93.3	94.4	57.7
004 January	117.3	W	99.8	132.5	102.5	99.9	NA
February	125.6	w	101.3	93.9	99.4	103.3	87.7
March	133.8	W	102.7	NA	101.1	107.3	NA
	139.6	177.4	106.6	139.8	101.1	114.6	67.4
April	157.1	177.4	117.0	111.7	107.2	120.0	74.8
May							
June	154.7	193.2	110.3	105.2	104.9	113.9	71.5
July	148.6	187.0	116.9	W	113.2	120.1	77.6
August	145.4	185.8	R 127.2	125.8	122.6	R 128.3	88.1
September	145.2	189.2	133.3	W	129.9	135.3	86.7

^a See Note 5 at end of section.

individual company data.

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

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

Web Page: http://www.eia.doe.gov/emeu/mer/prices.html. Source: EIA, Petroleum Marketing Monthly, December 2004, Table 2.

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

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

	Maine	New Hampshire	Vermont	Massachusetts	Rhode Island	Connecticut	New York	New Jersey	Pennsylvania
1978 Average	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
1981 Average	120.4	123.7	125.4	121.3	123.8	121.7	123.2	121.5	118.1
1982 Average	115.5	117.4	120.1	117.6	120.1	118.3	120.5	117.4	113.7
1983 Average	102.8	104.1	112.9	109.1	110.5	109.1	112.1	107.9	105.8
1984 Average	103.9	108.4	111.9	111.6	111.4	112.1	115.5	111.0	107.9
1985 Average	99.7	102.4	107.7	107.0	106.7	108.0	111.3	105.9	102.3
1986 Average	74.4	75.9	86.6	82.1	82.8	89.0	91.1	90.2	81.4
1987 Average	74.7	76.5	81.1	80.6	82.5	83.4	85.2	84.3	76.9
1988 Average	77.7	78.2	82.6	82.1	83.6	85.3	86.3	84.8	77.8
1989 Average	89.4	89.3	90.5	92.6	93.9	92.9	95.8	91.8	85.1
1990 Average	98.9	102.8	107.0	108.4	108.6	109.8	112.5	108.7	102.6
1991 Average	96.0	91.6	101.9	103.0	99.9	106.2	111.3	104.0	99.7
1992 Average	87.1	85.6	92.1	92.5	91.2	94.7	102.8	93.9	89.0
1993 Average	82.6	82.8	90.4	89.7	89.3	91.9	100.1	92.4	86.3
1994 Average	81.8	79.2	87.6	87.0	88.5	89.0	96.6	89.5	85.7
1995 Average	78.7	77.9	85.3	84.4	87.4	86.4	95.5	88.8	82.6
1996 Average	97.2	94.0	96.9	97.6	98.6	98.6	106.3	102.4	95.3
1997 Average	94.2	94.2	98.7	96.0	98.9	96.3	106.5	103.3	95.0
1998 Average	78.8	78.8	87.3	81.8	86.8	83.1	94.8	89.2	81.4
1999 Average	81.3	77.0	85.4	83.6	85.8	85.2	96.9	91.3	81.5
2000 Average	129.7	128.1	125.5	127.3	125.9	129.1	144.2	140.4	122.4
2001 Average	121.7	125.6	126.1	122.1	123.6	123.9	136.3	131.4	115.9
.002 January	109.5	113.2	117.9	107.4	112.1	108.3	121.5	113.8	102.9
February	108.6	114.1	117.6	106.9	110.9	106.6	119.9	113.4	100.2
March	112.2	110.1	116.2	111.2	107.7	109.1	119.0	117.0	104.6
April	111.4	109.7	117.7	114.0	112.0	109.6	120.0	121.0	106.6
May	111.5	108.4	118.1	113.6	109.8	108.9	117.6	119.6	104.3
June	110.1	104.6	114.0	110.9	106.1	110.6	115.9	116.7	102.8
July	109.5	101.4	111.5	111.3	105.6	106.4	114.2	113.4	95.2
August	107.7	102.2	112.1	112.5	107.7	107.3	NA	114.7	96.1
September	111.2	106.0	114.3	113.7	110.6	110.7	116.6	120.7	101.4
October	116.7	111.4	117.6	116.2	110.5	112.0	120.1	123.6	106.6
November	115.4	113.4	117.9	118.5	114.4	115.5	125.1	127.5	111.3
December	119.4	118.1	120.5	125.0	120.8	121.5	130.1	135.4	117.5
Average	112.9	111.9	117.2	114.1	112.4	111.8	121.8	122.0	106.4
003 January	128.0	127.2	126.4	135.0	132.3	130.9	139.2	145.8	127.4
February	142.5	145.0	138.9	152.4	151.8	149.6	156.1	166.6	147.7
March	147.0	148.4	144.0	153.9	151.4	152.2	160.0	170.5	153.7
April	130.1	132.6	131.9	136.0	131.5	133.5	141.6	146.1	132.8
May	125.2	126.4	125.8	132.7	123.9	127.8	137.8	135.9	124.0
June	124.5	121.4	122.3	129.5	119.9	124.6	130.0	133.9	NA
July	121.3	118.7	120.3	127.1	117.3	120.6	128.4	128.5	105.6
August	120.6	119.1	121.0	127.4	NA	120.8	124.9	NA	108.8
September	121.5	119.4	121.3	125.9	120.6	122.6	128.9	126.1	110.7
October	122.8	120.4	126.0	126.0	121.1	124.4	131.8	133.3	116.3
November	124.3	121.8	126.9	129.8	127.3	129.8	137.5	136.5	121.4
December Average	129.4 131.4	126.1 131.2	129.0 130.9	134.9 138.6	133.1 134.4	133.6 135.5	142.4 143.6	144.7 148.9	128.4 130.4
_									
004 January	135.4	136.4	135.6	143.1	143.4	140.8	148.9	152.1	138.0
February	138.3	139.8	137.3	144.3	141.7	139.8	150.9	155.5	138.6
March	137.0	135.2	137.9	142.9	137.0	138.7	147.2	153.9	136.9
April	136.9	133.6	138.9	142.0	137.4	137.7	146.8	151.1	135.6
May	138.6	133.7	138.8	145.1	141.1	139.7	148.4	152.3	136.1
June	141.6	135.8	144.0	144.6	137.8	143.3	148.5	151.9	134.8
July	145.1	138.8	150.6	149.4	140.1	146.9	151.8	151.8	133.2
August	R 153.2	R 146.5	155.1	R 156.4	R 148.3	R 152.1	155.5	158.6	R 142.1
September	161.7	153.3	160.0	165.7	155.7	161.6	163.1	165.5	152.4

R=Revised. NA=Not available.

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

• Prices prior to 1983 are Energy Information Administration (EIA) estimates.

See Note 6 at end of section.

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

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

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

		District of			West						
	Delaware	Columbia	Maryland	Virginia	Virginia	Ohio	Michigan	Indiana	Illinois	Wisconsin	Minnesot
978 Average	47.8	50.7	49.2	49.1	46.2	47.4	47.9	48.5	46.5	44.7	47.8
979 Average	68.2	74.2	70.1	70.4	65.1	68.6	70.9	72.7	68.8	67.3	72.4
980 Average	95.4	102.6	97.9	98.5	92.2	91.9	97.8	99.6	95.8	91.5	99.9
981 Average	117.3	127.4	121.4	120.5	115.0	113.2	118.3	118.5	114.9	109.1	118.4
982 Average	111.3	124.5	117.1	117.7	109.3	110.2	113.9	114.3	110.9	107.8	115.1
983 Average	106.0	117.0	110.3	108.7	101.0	101.3	106.4	100.7	100.4	101.2	103.1
984 Average	109.6	118.7	113.5	110.5	102.1	102.1	105.0	103.1	100.1	101.0	104.1
985 Average	104.6	114.3	108.8	106.3	98.0	99.7	102.1	99.1	97.5	98.3	101.9
986 Average	85.0	93.1	91.4	86.6	74.6	77.7	81.0	74.8	NA	75.6	79.2
987 Average	79.3	91.8	86.6	79.5	76.4	74.7	77.5	75.4	79.8	75.1	74.6
988 Average	80.1	91.6	87.0	80.5	74.2	74.7	77.5	75.4	77.6	73.9	73.5
989 Average	88.2	98.6	93.8	87.0	83.0	81.6	85.3	83.2	80.9	81.1	82.4
990 Average	105.8	107.8	111.9	110.6	99.1	98.1	100.9	99.3	96.1	94.2	101.4
991 Average	99.7	112.2	108.4	101.1	93.4	91.0	94.2	91.8	92.7	89.5	91.1
992 Average	92.3	105.7	100.0	92.8	86.4	83.6	87.2	81.2	87.7	81.6	82.6
993 Average	89.9	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 Average	85.8	102.2	90.2	85.6	81.8	76.7	80.4	74.8	73.5	80.1	73.8
999 Average	88.4	101.1	90.7	87.0	78.9	82.0	88.3	79.3	71.6	84.7	77.4
000 Average	127.0	W	135.1	126.9	125.1	122.0	NA	120.7	109.5	117.1	115.6
001 Average	123.4	143.1	134.2	120.2	113.9	116.0	NA	113.3	112.1	118.0	112.2
002 January	114.2	W	115.8	101.7	96.7	94.2	102.2	91.7	87.0	97.0	91.2
February	111.0	W	115.1	99.9	95.7	94.3	101.8	95.7	84.4	95.9	91.6
March	113.0	W	117.6	102.2	99.5	101.4	103.6	93.9	85.0	100.3	94.0
April	116.2	129.2	118.9	100.7	101.5	103.1	108.3	94.9	84.7	105.3	102.0
May	106.1	NA	114.2	97.2	102.3	100.6	106.4	W	83.7	106.4	102.6
June	100.5	111.5	111.5	97.1	101.6	96.9	107.0	W	NA	101.7	101.7
July	98.2	W	109.4	98.0	101.5	95.3	106.8	W	96.6	102.0	101.9
August	99.5	W	110.9	100.2	102.4	100.5	107.4	W	NA	103.3	105.2
September	111.2	W	116.4	103.1	107.1	107.1	113.1	W	101.2	112.3	111.1
October	114.8	129.2	120.1	108.7	111.1	114.5	120.9	W	105.6	118.0	116.6
November	119.8	W	124.7	111.1	113.7	115.8	122.2	114.0	111.9	120.2	114.9
December	129.1	W	131.3	120.2	121.1	119.5	124.7	121.0	111.0	121.5	117.0
Average	116.4	W	120.1	105.7	105.4	105.8	110.9	102.5	97.5	107.3	105.1
003 January	138.4	W	141.4	130.9	131.7	129.4	130.5	130.3	116.6	127.1	120.5
February	161.4	W	158.2	147.2	155.5	144.8	148.5	146.7	130.5	138.5	135.3
March	168.5	W	165.5	143.4	155.9	141.3	148.8	142.4	131.8	140.2	133.7
April	142.2	NA	145.2	127.7	130.9	126.0	130.5	W	112.5	125.4	119.6
May	130.0	NA	135.7	119.3	116.5	115.4	120.9	W	108.1	117.9	113.4
June	125.5	127.6	128.4	120.3	113.2	113.4	114.0	W	106.1	113.6	114.6
July	119.7	W	124.4	118.5	109.5	111.5	113.5	W	NA	112.1	113.8
August	117.2	W	125.6	120.4	113.8	113.9	119.6	106.0	114.9	114.1	115.4
September	121.7	128.6	126.9	121.1	112.3	114.1	119.8	W	114.0	117.5	113.3
October	125.6	W	133.8	122.7	117.2	120.5	122.1	W	116.5	121.9	119.6
November	130.0	W	136.5	123.8	119.3	122.3	125.9	112.8	117.7	122.7	118.3
December	139.8	W	143.0	129.0	128.9	125.3	126.5	123.0	119.9	123.8	119.1
Average	143.3	W	145.5	131.1	130.4	128.4	132.1	120.2	119.8	126.9	121.8
004 January	147.3	NA	152.2	135.6	137.6	132.4	133.2	130.1	125.4	132.6	125.4
February	150.6	W	155.9	134.7	140.4	134.9	137.8	133.3	126.6	132.0	126.5
March	148.6	w	153.6	134.2	137.2	137.6	140.4	134.0	132.6	132.3	127.9
April	148.6	w	153.1	130.0	136.3	140.3	139.8	W	134.2	134.1	133.0
May	146.7	160.4	150.1	NA	140.3	137.7	141.0	w	136.2	NA	134.9
June	140.2	154.7	145.9	125.8	NA	134.9	138.1	w	134.5	136.2	135.1
July	140.8	W	150.3	134.3	137.2	141.4	143.2	w	139.8	141.8	139.4
August	140.6	W	R 156.6	R 141.7	R 147.3	R 147.4	R 150.0	W	144.9	R 148.6	R 150.2

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

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

Source: EIA, Petroleum Marketing Monthly, December 2004, Table 18.

Prices prior to 1983 are Energy Information Administration (EIA) estimates. See Note 6 at end of section.
Web Page: http://www.eia.doe.gov/emeu/mer/prices.html.

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

	ldaho	Washington	Oregon	Alaska	U.S. Average
978 Average	43.6	48.6	45.8	53.2	49.0
979 Average	62.1	69.7	68.0	68.2	70.4
980 Average	91.6	100.8	97.3	97.8	97.4
981 Average	110.4	116.5	111.4	118.0	119.4
982 Average	110.4	117.6	111.6	117.4	116.0
983 Average	101.8	109.0	103.6	108.8	107.8
984 Average	98.5	102.6	99.3	106.9	109.1
985 Average	97.2	101.1	97.1	108.3	105.3
986 Average	73.8	77.5	70.4	94.9	83.6
987 Average	68.8	79.5	72.5	86.5	80.3
	68.8	78.5 78.5	70.9	86.9	81.3
988 Average					
989 Average	77.8	87.4	80.2	96.4	90.0
990 Average	97.4	102.9	97.0	110.1	106.3
991 Average	95.1	101.6	93.3	105.0	101.9
992 Average	85.7	94.0	87.6	94.1	93.4
993 Average	86.2	99.9	91.8	96.1	91.1
994 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
998 Average	78.4	97.8	86.1	85.2	85.2
999 Average	76.2	106.5	93.8	96.6	87.6
000 Average	117.0	144.5	136.8	133.7	131.1
001 Average	103.8	133.6	121.1	137.7	125.0
002 January	74.7	108.9	93.7	114.0	109.7
February	74.5	108.2	94.4	114.5	108.4
March	82.2	117.0	104.3	110.4	110.0
April	92.6	124.1	108.0	111.8	111.6
May	90.0	124.9	107.5	104.6	109.3
June	89.0	122.4	103.9	106.0	105.7
July	88.0	117.7	NA 107.0	102.7	102.9
August	89.9	117.0	107.6	105.8	103.8
September	96.6	124.2	115.5	110.0	109.9
October	103.4	128.5	118.5	110.5	114.8
November	103.5	131.2	119.3	113.0	118.0
December	103.0	131.2	118.0	113.9	123.8
Average	91.9	120.4	106.0	108.7	112.9
003 January	107.6	137.9	124.4	115.7	133.2
February	120.5	155.4	144.6	121.1	150.8
March	133.9	179.5	158.6	137.4	153.9
	121.1	154.8	130.6	129.9	134.6
April					
May	111.4	143.0	120.6	122.2	126.7
June	NA	143.3	125.3	122.6	121.7
July	107.4	141.0	131.1	NA	116.4
August	114.3	145.4	130.3	127.2	117.6
September	114.0	137.0	119.1	NA	118.8
October	NA	135.1	116.8	NA	123.6
November	122.4	141.8	123.5	126.6	128.3
December	120.7	146.2	125.6	127.3	134.1
Average	118.8	148.7	130.3	124.3	135.5
104 January	122.6	147.7	129.0	129.1	141.7
	124.1	157.7	140.3	130.8	143.2
February					
March	134.2	166.4	144.6	136.8	141.3
April	144.3	178.7	159.3	143.5	141.1
May	162.5	191.5	177.0	155.3	142.0
June	148.9	185.5	163.5	159.2	140.8
July	142.7	182.2	171.8	165.4	142.9
August	155.2	180.9	^R 164.2	^R 163.3	149.8

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.

Web Page: http://www.eia.doe.gov/emeu/mer/prices.html. Source: EIA, *Petroleum Marketing Monthly*, December 2004, Table 18.

See Note 6 at end of section.

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

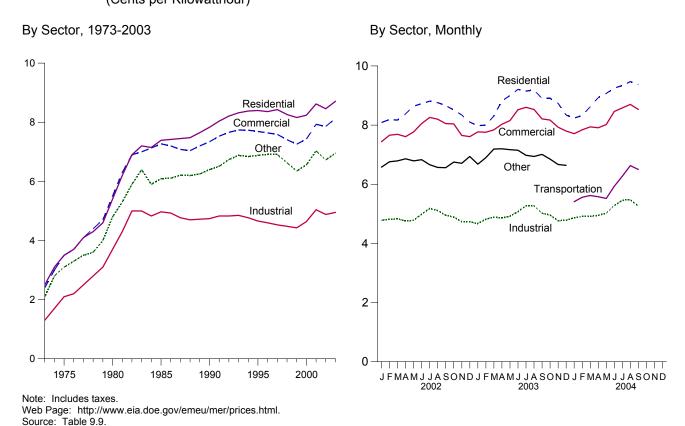
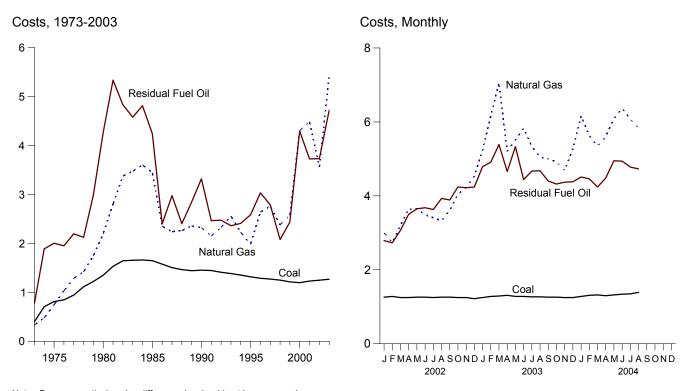


Figure 9.3 Cost of Fossil-Fuel Receipts at Electric Generating Plants (Dollars per Million Btu)



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

Source: Table 9.10.

Table 9.9 Average Retail Prices of Electricity

(Cents per Kilowatthour, Including Taxes)

	Residential	Commerciala	Industrial ^b	Transportation ^c	Otherd	Total
73 Average	2.5	2.4	1.3	NA	2.1	2.0
774 Average	3.1	3.0	1.7	NA	2.8	2.5
775 Average	3.5	3.5	2.1	NA	3.1	2.9
76 Average	3.7	3.7	2.2	NA NA	3.3	3.1
770 Average	3.7 4.1	3. <i>7</i> 4.1	2.5	NA NA	3.5	3.4
77 Average						3. 4 3.7
78 Average	4.3	4.4	2.8	NA NA	3.6	
79 Average	4.6	4.7	3.1	NA	4.0	4.0
80 Average	5.4	5.5	3.7	NA	4.8	4.7
81 Average	6.2	6.3	4.3	NA	5.3	5.5
82 Average	6.9	6.9	5.0	NA	5.9	6.1
83 Average	7.2	7.0	5.0	NA	6.4	6.3
84 Average	7.15	7.13	4.83	NA	5.90	6.25
85 Average	7.39	7.27	4.97	NA	6.09	6.44
86 Average	7.42	7.20	4.93	NA	6.11	6.44
087 Average	7.45	7.08	4.77	NA	6.21	6.37
)88 Average	7.48	7.04	4.70	NA	6.20	6.35
89 Average	7.65	7.20	4.72	NA	6.25	6.45
90 Average	7.83	7.34	4.74	NA	6.40	6.57
91 Average	8.04	7.53	4.83	NA NA	6.51	6.75
92 Average	8.21	7.66	4.83	NA NA	6.74	6.82
93 Average	8.32	7.74	4.85	NA NA	6.88	6.93
	8.38	7.74 7.73	4.65 4.77	NA NA	6.84	6.93 6.91
94 Average						
95 Average	8.40	7.69	4.66	NA	6.88	6.89
96 Average	8.36	7.64	4.60	NA	6.91	6.86
97 Average	8.43	7.59	4.53	NA	6.91	6.85
98 Average	8.26	7.41	4.48	NA	6.63	6.74
99 Average	8.16	7.26	4.43	NA	6.35	6.64
00 Average	8.24	7.43	4.64	NA	6.56	6.81
01 Average	8.62	7.93	5.04	NA	7.03	7.32
ŭ						
02 January	8.09	7.44	4.78	NA	6.58	6.98
February	8.19	7.66	4.82	NA	6.76	7.01
March	8.17	7.69	4.83	NA	6.79	7.00
April	8.38	7.61	4.76	NA	6.86	6.97
May	8.64	7.77	4.78	ŇÁ	6.79	7.11
June	8.72	8.05	4.99	NA	6.83	7.41
	8.81	8.26	5.18	NA	6.66	7.65
July						
August	8.76	8.20	5.11	NA	6.57	7.58
September	8.66	8.05	4.95	NA	6.56	7.38
October	8.51	8.04	4.89	NA	6.75	7.22
November	8.34	7.65	4.73	NA	6.71	6.97
December	8.10	7.61	4.73	NA	6.94	6.99
Average	8.46	7.86	4.88	NA	6.73	7.21
03 January	7.98	7.77	4.67	NA	6.68	7.02
February	8.00	7.76	4.82	NA	6.90	7.02
March	8.31	7.84	4.89	NA	7.19	7.14
April	8.82	8.03	4.86	NA	7.20	7.27
May	9.00	8.15	4.92	NA	7.17	7.40
June	9.21	8.52	5.07	NA	7.15	7.71
July	9.15	8.60	5.28	NA	6.98	7.91
August	9.19	8.53	5.27	NA	6.94	7.89
September	8.90	8.21	5.02	ŇÁ	7.01	7.55
October	8.90	8.17	4.96	NA	6.85	7.38
November	8.74	7.93	4.77	NA NA	6.67	7.18
				NA NA	6.64	
December	8.34 8.71	7.80 8.13	4.78 4.95	NA NA	6.95	7.15 7.40
Average	0.7 1	0.13	4.90	NA	0.30	7.40
M January	8.24	7.71	4.87	5.41	_	7.18
04 January	8.32	7.71	4.91	5.56	_	7.16 7.21
February						
March	8.62	7.94	4.91	5.62	-	7.27
April	8.93	7.91	4.95	5.58	_	7.29
May	9.07	8.02	5.02	5.52	-	7.41
June	9.25	8.46	5.28	5.93	-	7.84
July	9.34	8.58	5.46	6.27	_	8.05
August	9.47	8.70	5.48	6.63	_	8.12
September	9.37	8.53	5.26	6.50	_	7.92
9-Month Average	8.96	8.21	5.13	5.91	_	7.61
		V.E.1	5.10	J.J.		
03 9-Month Average	8.73	8.18	4.99	NA	7.02	7.46

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

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

NA=Not available. —=Not applicable.

Notes: • Beginning in 2004, the category "Other" has been replaced by "Transportation," and the categories "Commercial" and "Industrial" have been redefined. • Prices are calculated by dividing revenue by sales. Revenue may not correspond to sales for a particular month because of energy service provider billing and accounting procedures. That lack of correspondence could result in uncharacteristic increases or decreases in the monthly prices. • Prices include State and local taxes, energy or demand charges, customer service charges, environmental surcharges, franchise fees, fuel adjustments,

and other miscellaneous charges applied to end-use customers during normal

and other miscellaneous charges applied to end-use customers during normal billing operations. Prices do not include deferred charges, credits, or other adjustments, such as fuel or revenue from purchased power, from previous reporting periods. • See Note 7 at end of section for plant coverage, and for information on preliminary and final values. • Geographic coverage is the 50 States and the District of Columbia.

Web Page: http://www.eia.doe.gov/emeu/mer/prices.html.
Sources: • 1973-September 1977: Federal Power Commission, Form FPC-5, "Monthly Statement of Electric Operating Revenues and Income."
• October 1977-February 1980: Federal Energy Regulatory Commission (FERC), Form FPC-5, "Monthly Statement of Electric Operating Revenues and Income." • March 1980-1982: FERC, Form FERC-5, "Electric Utility Company Monthly Statement." • 1983: Energy Information Administration (EIA), Form EIA-826, "Electric Utility Company Monthly Statement."
• 1984-1989: EIA, Form EIA-861, "Annual Electric Utility Report." • 1990 forward: EIA, Electric Power Monthly, December 2004, Table 5.3.

Previously, this table indicated that taxes were not included in the prices shown. Recent investigation resulted in a conclusion that, in fact, taxes are included in the prices. See the third bullet under "Notes" for more information.

Industrial sector. For 1979-2003, prices exclude agriculture and irrigation.

6 Transportation sector, including railroads and railways.

d Public street and highway lighting, interdepartmental sales, other sales to public authorities, agriculture and irrigation, and transportation including railroads and railways.

NA=Not available. –=Not applicable.

Table 9.10 Cost of Fossil-Fuel Receipts at Electric Generating Plants

(Dollars per Million Btu)

			Petroleu	m			
	Coal	Residual Fuel Oila	Distillate Fuel Oilb	Petroleum Coke	Total ^c	Natural Gas ^d	All Fossil Fuels
973 Average	0.41	0.79	NA	NA	0.80	0.34	0.48
974 Average	.71	1.89	NA NA	NA NA	1.91	.48	.91
975 Average	.81	2.01	NA NA	NA	2.02	.75	1.04
	.85	1.95	NA NA	NA NA	1.99	1.03	1.12
976 Average							
77 Average	.95	2.20	NA	NA	2.25	1.29	1.30
78 Average	1.12	2.13	NA	NA	2.19	1.42	1.41
79 Average	1.22	2.99	NA	NA	3.07	1.75	1.64
80 Average	1.35	4.27	NA	NA	4.35	2.20	1.93
81 Average	1.53	5.33	NA	NA	5.43	2.81	2.26
82 Average	1.65	4.83	NA	NA	4.92	3.38	2.25
183 Average	1.66	4.58	NA	NA	4.63	3.47	2.21
84 Average	1.66	4.81	NA	NA	4.86	3.60	2.19
85 Average	1.65	4.24	NA	NA	4.32	3.44	2.09
86 Average	1.58	2.40	NA NA	NA NA	2.44	2.35	1.75
	1.51	2.98	NA NA	NA NA	3.01	2.24	1.75
87 Average							
88 Average	1.47	2.41	NA	NA	2.44	2.26	1.64
89 Average	1.45	2.85	NA	NA	2.89	2.36	1.68
90 Average	1.45	3.32	5.38	.80	3.35	2.32	1.69
91 Average	1.45	2.47	4.83	.81	2.53	2.15	1.60
92 Average	1.41	2.48	4.51	.75	2.51	2.33	1.59
93 Average	1.39	2.36	4.22	.70	2.37	2.56	1.59
94 Average	1.36	2.41	3.99	.69	2.42	2.23	1.52
95 Average	1.32	2.59	3.99	.65	2.57	1.98	1.45
96 Average	1.29	3.03	4.87	.78	3.03	2.64	1.52
		2.79	4.49			2.76	1.52
97 Average	1.27			.91	2.73		
98 Average	1.25	2.08	3.30	.71	2.02	2.38	1.44
99 Average	1.22	2.44	4.03	.65	2.36	2.57	1.44
00 Average	1.20	4.29	6.65	.58	4.18	4.30	1.74
01 Average	1.23	3.73	6.30	.78	3.69	4.49	1.73
002 January ^f	1.26	2.79	4.51	0.90	2.55	3.00	1.51
February	1.28	2.73	4.15	.94	2.42	2.74	1.49
March	1.25	3.07	4.46	.82	2.68	3.20	1.51
April	1.25	3.50	5.15	.75	3.16	3.64	1.48
May	1.26	3.65	5.24	.75	3.30	3.65	1.52
June	1.26	3.68	4.87	.76	3.34	3.49	1.51
July	1.25	3.63	5.19	.71	3.29	3.41	1.51
August	1.26	3.93	5.30	.72	3.46	3.33	1.53
September	1.26	3.89	6.05	.91	3.38	3.61	1.47
October	1.25	4.24	6.19	.70	3.74	4.04	1.53
November	1.25	4.22	5.78	1.02	3.96	4.23	1.57
December	1.22	4.24	6.39	.56	3.88	4.53	1.55
Average	1.25	3.73	5.34	.78	3.34	3.56	1.52
03 January	1.25	4.79	6.39	.65	4.37	5.24	2.09
February	1.28	4.91	7.77	.63	4.90	6.16	2.36
March	1.29	5.39	8.29	.72	5.39	7.06	2.54
April	1.31	4.66	6.55	.52	4.34	5.21	2.17
May	1.28	5.33	6.06	.65	4.74	5.51	2.27
June	1.28	4.44	5.96	.66	4.27	5.83	2.30
July	1.27	4.67	6.05	.79	4.28	5.34	2.42
August							
	1.27	4.68	6.43	.69	4.06	5.05	2.33
September	1.26	4.40	6.08	.75	3.75	5.00	2.15
October	1.26	4.32	6.49	.69	3.81	4.92	2.04
November	1.25	4.37	6.32	.70	3.51	4.69	1.95
December	1.25	4.38	6.61	.75	3.90	5.27	2.10
Average	1.27	4.72	6.70	.69	4.31	5.42	2.22
14 January	1.28	4.51	7.27	.74	4.34	6.16	2.32
February	1.31	4.46	7.29	.75	4.32	5.63	2.36
March	1.32	4.24	6.67	.82	3.87	5.35	2.23
April	1.30	4.48	7.34	.75	3.96	5.60	2.32
May	1.32	4.95	7.74	.75	4.26	6.09	2.50
June	1.34	4.94	7.24	.80	4.37	6.37	2.64
July	1.35	4.78	8.11	.84	4.30	6.07	2.77
August	1.39	4.73	8.87	.74	4.19	5.83	2.72
8-Month Average	1.33	4.65	7.37	.78	4.21	5.91	2.49
03 8-Month Average	1.28	4.88	6.80	.67	4.57	5.61	2.31

^a For 1973-2001, electric utility data are for heavy oil (fuel oil nos. 5 and 6, and

Notes: • Receipts are purchases of fuel. • Yearly costs are averages of monthly values, weighted by quantities in Btu. • Geographic coverage is the 50 States and the District of Columbia.

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

For 1973-2001, electric utility data are for neavy oil (fuel oil nos. 5 and 6, and small amounts of fuel oil no. 4).

b For 1973-2001, electric utility data are for light oil (fuel oil nos. 1 and 2).

c Distillate fuel oil, residual fuel oil, petroleum coke, jet fuel, kerosene, other petroleum, and waste oil. For 1973-1982, data do not include refined motor oil, bunker oil, and liquefied petroleum gases. For 1973-1989, data do not include

petroleum coke.

d Natural gas, plus a small amount of supplemental gaseous fuels that cannot be identified separately. For 1973-2000, data also include a small amount of blast furnace gas and other gases derived from fossil fuels.

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

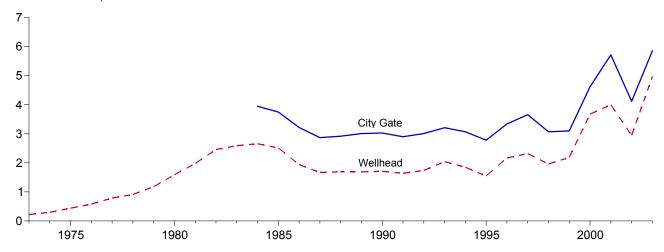
Gas."

f Through 2001, data are for electric utilities only. Beginning in 2002, data also include independent power producers, and electric generating plants in the commercial and industrial sectors. See Note 8 at end of section for plant coverage. NA=Not available.

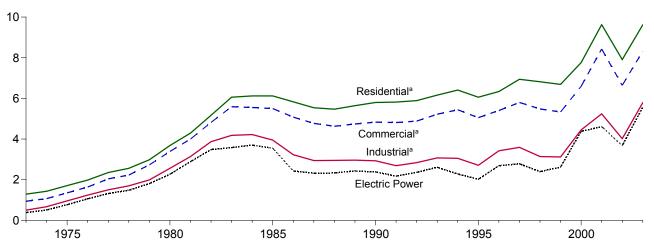
Figure 9.4 Natural Gas Prices

(Dollars per Thousand Cubic Feet)

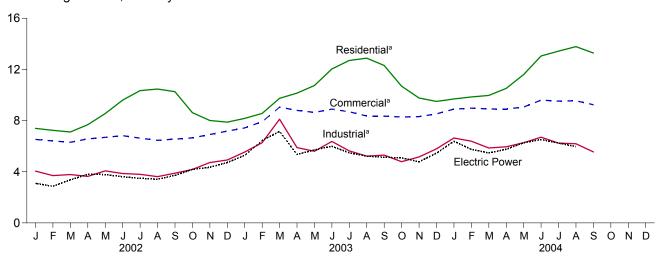
Selected Prices, 1973-2003



Consuming Sectors, 1973-2003



Consuming Sectors, Monthly



^aIncludes taxes.

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

Web Page: http://www.eia.doe.gov/emeu/mer/prices.html. Source: Table 9.11.

Table 9.11 Natural Gas Prices

(Dollars per Thousand Cubic Feet)

						Consumino	Sectors ^a			
		Oit.	Res	idential	Com	mercial ^b	Indu	ustrial ^c	Electr	ic Powerd
	Wellhead Price	City Gate Price	Pricee	Percentage of Sector ^f	Pricee	Percentage of Sector ^f	Price	Percentage of Sector ^f	Price	Percentage of Sector ^f
1973 Average	0.22	NA	1.29	NA	0.94	NA	0.50	NA	0.38	92.1
1974 Average	.30	NA	1.43	NA	1.07	NA	.67	NA	.51	92.7
1975 Average	.44	NA	1.71	NA	1.35	NA	.96	NA	.77	96.1
1976 Average	.58	NA	1.98	NA	1.64	NA	1.24	NA	1.06	96.2
1977 Average	.79	NA	2.35	NA	2.04	NA	1.50	NA	1.32	97.1
1978 Average	.91	NA	2.56	NA	2.23	NA	1.70	NA	1.48	98.0
1979 Average	1.18	NA	2.98	NA	2.73	NA	1.99	NA	1.81	96.1
1980 Average	1.59	NA	3.68	NA	3.39	NA	2.56	NA	2.27	96.9
1981 Average	1.98	NA	4.29	NA	4.00	NA	3.14	NA	2.89	97.6
1982 Average	2.46	NA	5.17	NA	4.82	NA	3.87	85.1	3.48	92.6
1983 Average	2.59	NA	6.06	NA	5.59	NA	4.18	80.7	3.58	93.9
1984 Average	2.66 2.51	3.95	6.12	NA NA	5.55 5.50	NA NA	4.22 3.95	74.7	3.70	94.4
1985 Average	1.94	3.75 3.22	6.12	NA NA	5.08	NA NA	3.93	68.8 59.8	3.55 2.43	94.0 91.7
1986 Average	1.67	2.87	5.83 5.54	NA NA	4.77	93.1	3.23 2.94	47.4	2.43	91.7 91.6
1987 Average1988 Average	1.69	2.92	5.47	NA NA	4.63	90.7	2.95	42.6	2.33	89.6
1989 Average	1.69	3.01	5.64	99.9	4.74	89.1	2.96	36.9	2.43	88.6
1990 Average	1.71	3.03	5.80	99.3	4.83	86.6	2.93	35.2	2.38	89.2
1991 Average	1.64	2.90	5.82	99.2	4.81	85.1	2.69	32.7	2.18	93.2
1992 Average	1.74	3.01	5.89	99.1	4.88	83.2	2.84	30.3	2.36	93.2
1993 Average	2.04	3.21	6.16	99.1	5.22	83.9	3.07	29.7	2.61	93.4
1994 Average	1.85	3.07	6.41	99.1	5.44	79.3	3.05	25.5	2.28	93.5
1995 Average	1.55	2.78	6.06	99.1	5.05	76.7	2.71	24.5	2.02	92.0
1996 Average	2.17	3.34	6.34	99.1	5.40	77.6	3.42	19.4	2.69	92.2
1997 Average	2.32	3.66	6.94	98.8	5.80	70.8	3.59	18.1	2.78	91.0
1998 Average	1.96	3.07	6.82	97.7	5.48	67.0	3.14	16.1	2.40	82.5
1999 Average	2.19	3.10	6.69	95.2	5.33	66.1	3.12	18.8	2.62	75.3
2000 Average2001 Average	3.68 4.00	4.62 5.72	7.76 9.63	92.6 92.4	6.59 8.43	63.9 66.0	4.45 5.24	19.8 20.8	4.38 4.61	64.3 41.9
2002 January	2.50	3.79	7.39	NA	6.53	80.8	4.05	20.1	^d 3.10	^d 80.8
February	2.19	3.76	7.24	NA	6.41	81.2	3.70	20.4	2.86	87.4
March	2.40	3.84	7.11	NA	6.30	82.3	3.78	20.0	3.37	86.1
April	2.94	4.21	7.68	NA	6.57	77.8	3.64	26.1	3.80	84.4
May	2.94	4.07	8.55	NA	6.69	74.1	4.07	23.8	3.78	81.8
June	2.96	4.15	9.60	NA	6.82	74.4	3.86	25.4	3.61	78.7
July	2.92	3.95	10.34	NA	6.63	72.7	3.80	23.8	3.49	74.5
August	2.76	3.67	10.47	NA	6.46	73.3	3.62	22.4	3.42	78.6
September	2.97	3.99	10.26	NA	6.55	71.0	3.89	22.4	3.71	79.1
October	3.24	4.32	8.62	NA	6.65	74.7	4.18	21.6	4.19	81.0
November	3.59	4.65	8.01	NA	6.91	79.5	4.72	21.7	4.35	84.9
December Average	3.96 2.95	4.74 4.12	7.88 7.91	NA 91.4	7.18 6.64	80.7 78.4	4.92 4.02	23.0 22.5	4.72 3.68	88.2 81.1
	E 4.47	5.32	8.17			79.0	R 5.54	R 21.1	R 5.28	83.8
2003 JanuaryFebruary	E 5.45	5.32 5.86	8.17 8.56	NA NA	7.43 7.91	79.0 79.6	R 6.27	R 22.0	R 6.44	83.8 83.5
March	E 6.69	7.60	9.74	NA NA	9.05	79.6 80.2	8.11	21.2	R 7.16	86.1
April	E 4.71	5.61	10.15	NA	8.80	76.9	R 5.89	R 21.2	R 5.35	89.8
May	E 4.97	5.67	10.74	NA	8.64	73.7	R 5.60	R 20.5	5.71	88.5
June	E 5.35	6.37	12.04	NA	8.90	72.6	R 6.37	R 20.0	5.99	83.0
July	E 4.91	5.82	12.70	NA	8.69	71.4	5.63	^R 25.7	5.48	79.1
August	E 4.72	5.50	12.88	NA	8.36	73.6	5.22	R 23.7	5.22	78.1
September	E 4.58	R 5.59	12.31	NA	8.35	R 72.5	5.30	R 23.1	5.14	85.7
October	E 4.43	5.30	R 10.69	NA	8.28	R 72.2	R 4.79	R 23.4	R 5.09	78.5
November	E 4.34	5.55	9.77	NA	8.31	77.3	5.16	R 22.3	R 4.78	83.6
December	E 5.08	5.90	9.50	NA F 00 4	8.52	79.9	5.79	R 23.3	R 5.45	93.1
Average	E 4.98	5.86	9.62	^E 92.1	8.32	77.3	5.79	R 22.3	^R 5.55	R 81.9
2004 January	E 5.53 E 5.15	6.39	9.69	NA NA	8.90	80.7 80.7	6.64	22.2 R 23.2	6.38 5.75	92.4 80.7
February March	E 4.97	6.34 6.24	9.85 9.97	NA NA	8.97 8.91	80.7 78.4	6.39 5.86	R 22.4	5.75 5.47	89.7 93.4
April	E 5.20	6.33	10.52	NA NA	8.90	76.4 76.5	5.95	R 23.0	5.76	95.4 95.9
May	E 5.63	6.48	11.60	NA NA	R 9.06	R 73.1	6.27	22.7	6.27	90.6
June	E 5.85	6.92	13.05	NA NA	R 9.60	R 71.5	6.70	24.4	6.52	89.7
July	E 5.60	6.68	R 13.43	NA	R 9.52	R 71.2	6.24	24.6	6.24	87.6
August	E 5.36	R 6.46	13.78	ŇÁ	R 9.55	R 70.5	6.19	23.8	R 5.97	R 93.2
September	E 4.86	6.07	13.28	NA	9.24	70.1	5.55	22.7	NA	NA
9-Month Average	E 5.35	6.40	10.52	NA	9.05	77.1	6.21	23.2	NA	NA
2003 9-Month Average 2002 9-Month Average	E 5.09 2.73	5.95 3.90	9.56 7.85	NA NA	8.29 6.51	77.3 78.2	5.98 3.82	22.0 22.7	5.67 3.49	81.8 NA

f The percentage of the sector's consumption in Table 4.4 for which price data are available.

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

Notes: • Prices are for natural gas, plus a small amount of supplemental gaseous fuels that cannot be identified separately. • Prices are intended to include all taxes. See Note 9 at end of section. • Wellhead annual and year-to-date prices are simple averages of the monthly prices; all other annual and year-to-date prices are volume-weighted averages of the monthly prices. • Geographic coverage is the 50 States and the District of Columbia.

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

Sources: See end of section.

a See Note 9 at end of section.
 b Commercial sector, including commercial combined-heat-and-power (CHP) and commercial electricity-only plants. See note at end of Section 7.
 c Industrial sector, including industrial combined-heat-and-power (CHP) and industrial electricity-only plants. See note at end of Section 7.
 d The electric power sector comprises electricity-only and combined-heat-and-power (CHP) plants within the NAICS 22 category whose primary business is to sell electricity, or electricity and heat, to the public. Through 2001, data are for electric utilities only; beginning in 2002, data also include independent power producers.
 See Note 8 at end of section for plant coverage.
 e Includes taxes.

Energy Prices

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

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

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

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

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

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

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

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

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

Note 6. Starting in January 1983, Form EIA-782, "Monthly Petroleum Product Sales Report," replaced 10 previous surveys. Every attempt was made to continue the most important price series. However, prices published through December 1982 and those published since January 1983 do not necessarily form continuous data series due to changes in survey forms, definitions, instructions, populations, samples, processing systems, and statistical procedures. To provide historical data, continuous series were generated for annual data 1978-1982 and for monthly data 1981 and 1982 by estimating the prices that would have been published had Form EIA-782 survey and system been in operation at that time. This form of estimation was performed after detailed adjustment was made for product and sales type matching and for discontinuity due to other factors. An important difference between the previous and present prices is the distinction between wholesale and resale and between retail and end user. The resale category continues to include sales among resellers. However, sales to bulk consumers, such as utility, industrial, and commercial accounts previously included in the wholesale category, are now counted as

made to end users. The end-user category continues to include retail sales through company-owned and operated outlets but also includes sales to the bulk consumers such as agriculture, industry, and electric utilities. Additional information may be found in "Estimated Historic Time Series for the EIA-782," a feature article reprinted from the December 1983 [3] *Petroleum Marketing Monthly*, published by EIA.

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

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

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

Note 8. Data for 1973–1982 cover all regulated electric generating plants at which the generator nameplate capacity of all steam-electric units combined totaled 25 megawatts or greater. From 1974-1982, peaking units were included in the data and counted towards the 25-megawatt-or-greater total. Data for 1983-1990 cover all regulated electric generating plants at which the generator nameplate capacity of all steam-electric units combined totaled 50 megawatts or greater. Data for 1991-2001 cover all regulated electric generating plants at which the generator nameplate capacity of all steam-electric units and combined-cycle units together totaled 50 megawatts or greater. Data for 2002 forward cover the aforementioned regulated generating plants plus unregulated generating plants (independent power producers, as well as combined-heat-and-power generating plants and electricity-only plants in the commercial and industrial sector) whose total facility fossil-fueled nameplate generating capacity is 50 or more megawatts, regardless of unit type.

Note 9. Natural gas prices are intended to include all taxes. Instructions on the data collection forms specifically direct that all Federal, State, and local taxes, surcharges, and/or adjustments billed to consumers are to be included. However, sales and other taxes itemized on more than 3,000 consumers' bills are sometimes excluded by the reporting utilities. Delivered-to-consumers prices for 1987 forward represent natural gas delivered and sold to residential, commercial, industrial, and electric power consumers. They do not include the price of natural gas delivered to industrial and commercial consumers on behalf of third parties. Volumes of natural gas delivered on behalf of third parties are included in the consumption data shown in Table 4.4. Additional information is available in the EIA *Natural Gas Monthly*, Appendix C.

Table 9.1 Sources

Domestic First Purchase Price

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

1977: Federal Energy Administration (FEA), based on Form FEA-P124, "Domestic Crude Oil Purchaser's Monthly Report."

1978 forward: Energy Information Administration (EIA), *Petroleum Marketing Monthly*, December 2004, Table 1.

F.O.B. and Landed Cost of Imports

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

1978 forward: EIA, *Petroleum Marketing Monthly*, December 2004, Table 1.

Refiner Acquisition Cost

1973: EIA estimates. The domestic price was derived by adding estimated transportation costs to the reported domestic first purchase price. The imported price was derived by adding an estimated ocean transport cost to the average "Free Alongside Ship" value published by the U.S. Bureau of the Census.

1974–1976: DOI, BOM, *Minerals Yearbook*, "Crude Petroleum and Petroleum Products" chapter.

1977: January–September, FEA, based on Form FEA-P110-M-1, "Refiners' Monthly Cost Allocation Report." October–December, EIA, based on Form FEA-P110-M-1, "Refiners' Monthly Cost Allocation Report."

1978 forward: EIA, *Petroleum Marketing Monthly*, December 2004, Table 1.

Table 9.2 Sources

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

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

1978 forward: EIA, *Petroleum Marketing Monthly*, December 2004, Table 24.

Table 9.10 Sources

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

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

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

1980–1989: EIA, *Electric Power Monthly*, May issues. 1990–2000: EIA, *Electric Power Monthly*, March 2003, Table 26.

2001 forward: EIA, *Electric Power Monthly*, December 2004, Table 4.1; Federal Energy Regulatory Commission, Form FERC-423, "Monthly Report on Cost and Quality of Fuels for Electric Utility Plants"; and EIA, Form EIA-423, "Monthly Cost and Quality of Fuels for Electric Plants Report."

Table 9.11 Sources

Wellhead Price:

1973–1998: Energy Information Administration (EIA), *Natural Gas Annual 2000*, Table 96.

1999 forward: EIA, *Natural Gas Monthly*, November 2004, Table 4.

City Gate Price:

1984-1987: EIA, *Natural Gas Monthly*, March 1990, Table 4; 1988–1992: EIA, *Natural Gas Monthly*, March 1995, Table 4;

1993–1998: EIA, *Natural Gas Monthly*, December 1999, Table 4.

1999 forward: EIA, *Natural Gas Monthly*, November 2004, Table 4.

Residential, Commercial, and Industrial Sector Prices:

1973–1998: EIA, *Natural Gas Annual 2001*, Table 96. 1999 forward: EIA, *Natural Gas Monthly*, November 2004, Table 4.

Percentage of Residential, Commercial, and Industrial Sectors, Annual

Calculated from EIA, *Natural Gas Annual, Volume 1*, report series, Table 1, "Summary Statistics for Natural Gas in the

United States," as total amount of natural gas delivered to the sector's consumers minus the amount delivered for the account of others (to derive the amount on system) divided by the total amount delivered to the sector.

Percentage of Commercial, and Industrial Sectors, Monthly

EIA, table titled, "Percentage of Total Deliveries Represented by Onsystem Sales, by State," in the *Natural Gas Monthly* issues as follows:

April 1988–March 1989	Table C-1
April 1989–December 1991	Table 33
January 1992–February 1993	Table 32
March 1993–October 1995	Table 28
November 1995–December 1997	Table 24
January 1998-Present	Table 25

Electric Power Sector Price:

1973–1998: EIA, *Natural Gas Annual 2000*, Table 96. 1999–2002: EIA, *Natural Gas Monthly*, October 2004, Table 4.

2003: Federal Energy Regulatory Commission, Form FERC-423, "Monthly Report on Cost and Quality of Fuels for Electric Utility Plants," and EIA, Form EIA-423 "Monthly Cost and Quality of Fuels for Electric Plants Report."

2004: EIA, Natural Gas Monthly, November 2004, Table 4.

Percentage of Electric Power Sector:

1973–2001: Calculated by EIA as the quantity of natural gas receipts reported on FERC Form-423, "Monthly Report on Cost and Quantity of Fuels for Electric Utility Plants" (and predecessor forms) divided by the quantity of natural gas consumed in the electric power sector, as shown on Monthly Energy Review Table 7.3b. Natural gas receipts, 1973 -1975: Federal Power Commission, "Annual Summary of Cost and Quality of Steam-Electric Plant Fuels," 1973 edition (page ii), 1974 edition (page ii), and 1975 edition (Table 3); 1976–1981: EIA, Electric Power Annual, November 1982, Table 68; 1982-1985: EIA, Electric Power Annual 1986, September 1987, Table 16; 1986-1995: EIA, Electric Power Monthly, December 1996, Table 26; 1996-2000: EIA, Electric Power Monthly, March 2002, Table 26; and 2001: EIA, Electric Power Monthly, June 2004, Table 4.1.

2002 forward: Calculated by EIA as the quantity of natural gas receipts reported on FERC Form-423, "Monthly Report on Cost and Quantity of Fuels for Electric Utility Plants" (and published in EIA, *Electric Power Monthly*, December 2004, Table 4.1), and Form EIA-423, "Monthly Cost and Quality of Fuels for Electric Plants Report," divided by the quantity of natural gas consumed in the electric power sector, as shown on *Monthly Energy Review* Table 7.3b.

Section 10. Renewable Energy

Sources. The Nation consumed 6.2 quadrillion Btu of renewable energy in 2003, accounting for 6 percent¹ of total energy consumption during the year. At 2.8 quadrillion Btu, conventional hydroelectric power was the largest component of the renewable energy total, measuring 45 percent of the total. Wood was the next largest component at 2.1 quadrillion Btu and 34 percent of the total. Waste, the third largest component of the renewable energy total, contributed 0.6 quadrillion Btu in 2003, a 9-percent share of the total.

Electric Power Sector. In 2003, the electric power sector consumed 3.6 quadrillion Btu of renewable energy resources, 1.1 quadrillion Btu more than all of the end-use sectors combined and a share of 59 percent of the total. Conventional hydroelectric power recorded 2.7 quadrillion Btu in 2003, for 75 percent of the electric power sector total. Waste, at 0.3 quadrillion Btu, was the second largest

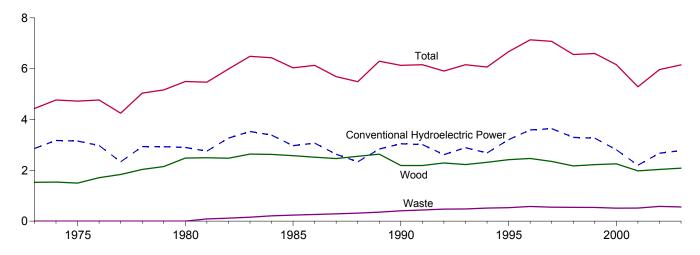
source consumed for electricity generation, followed by geothermal and wood.

End-Use Sectors. Of the end-use sectors, the industrial sector was the largest consumer of renewable energy in 2003. Industrial facilities used 1.8 quadrillion Btu of renewable energy in 2003, 87 percent in the form of wood. The residential sector was the next largest end-use sector in the use of renewable energy, consuming 0.4 quadrillion Btu---83 percent in the form of wood, 13 percent solar, and 4 percent geothermal. The transportation sector consumed renewable energy in the form of alcohol fuels used in the blending of motor gasoline; in 2003, alcohol fuel use was 0.2 quadrillion Btu. The commercial sector used 0.1 quadrillion Btu in 2003, 45 percent of it as waste and 39 percent as wood.

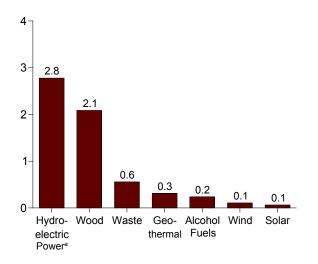
¹A small amount of alcohol fuel (ethanol blended into motor gasoline) is both fossil fuel (as petroleum) and renewable energy and is counted in both those subtotals but counted only once in total energy consumption.

Figure 10.1 Renewable Energy Consumption (Quadrillion Btu)

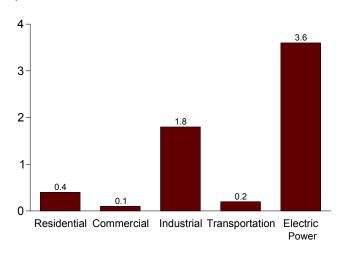
Total and Major Sources, 1973-2003



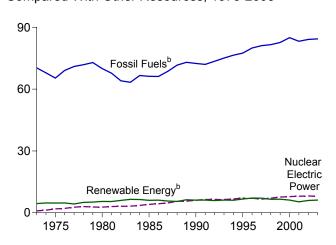
By Source, 2003



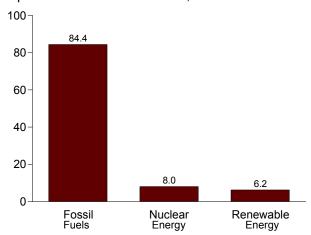
By Sector, 2003



Compared With Other Resources, 1973-2003



Compared With Other Resources, 2003



^aConventional hydroelectric power.

^bA small amount of alcohol (ethanol blended into motor gasoline) is both fossil fuel (as petroleum) and renewable energy and is counted in both

those subtotals but counted only once in total energy consumption. Web Page: http://www.eia.doe.gov/emeu/mer/renew.html. Sources: Tables 1.3 and 10.1-10.2c.

Table 10.1 Renewable Energy Consumption by Source

(Trillion Btu)

	Conventional Hydroelectric Power ^a	Woodb	Waste ^c	Alcohol Fuels ^d	Geothermal ^e	Solar ^f	Wind ⁹	Total
1070 Tatal	0.061	1 507		. NA	42	NA	NA	4 422
1973 Total	2,861	1,527	2	NA	43	NA	NA	4,433
1974 Total	3,177	1,538	2	NA	53	NA	NA	4,769
1975 Total	3,155	1,497	2	NA	70 70	NA	NA	4,723
1976 Total	2,976	1,711	2	NA	78 77	NA	NA	4,768
1977 Total	2,333	1,837	2	NA	77	NA	NA	4,249
1978 Total	2,937	2,036	1	NA	64	NA	NA	5,039
1979 Total	2,931	2,150	2	NA	84	NA	NA	5,166
1980 Total	2,900	2,483	2	N <u>A</u>	110	NA	NA	5,494
1981 Total	2,758	2,495	88	7	123	NA	NA	5,471
1982 Total	3,266	2,477	119	19	105	NA	ŅĄ	5,985
1983 Total	3,527	2,639	157	35	129	ŅĄ	(s)	6,488
1984 Total	3,386	2,629	208	43	165	(s)	(s)	6,431
1985 Total	2,970	2,576	236	52	198	(s)	(s)	6,033
1986 Total	3,071	2,518	263	60	219	(s)	(s)	6,132
1987 Total	2,635	2,465	289	69	229	(s)	(s)	5,687
1988 Total	2,334	2,552	315	70	217	(s)	(s)	5,489
1989 Total	2,837	2,637	354	71	317	55	22	6,294
1990 Total	3,046	2,191	408	63	336	60	29	6,133
1991 Total	3,016	2,190	440	73	346	63	31	6,158
1992 Total	2,617	2,290	473	83	349	64	30	5,907
1993 Total	2,892	2,227	479	97	364	66	31	6,156
1994 Total	2,683	2,315	515	109	338	69	36	6,065
1995 Total	3,205	2,420	531	117	294	70	33	6,669
1996 Total	3,590	2,467	577	84	316	71	33	7,137
1997 Total	3.640	2,350	551	106	325	70	34	7,075
1998 Total	3,297	2,175	542	117	328	70 70	31	6,561
1999 Total	3,268	2,224	540	122	331	69	46	6,599
2000 Total	2,811	2,257	511	139	317	66	57	6,158
2001 Total	2,201	1,980	514	147	311	65	68	5,286
2002 January	221	173	49	13	29	5	8	497
February	204	152	43	12	26	5	7	449
March	213	163	49	12	28	5	9	478
April	245	162	46	12	25	5	10	506
May	270	171	48	14	28	6	11	547
June	285	163	49	12	26	6	11	552
July	258	180	52	15	29	6	9	547
August	213	167	51	14	28	6	10	490
September	173	175	48	15	27	5	7	450
October	174	184	48	17	28	5	7	464
November	200	170	48	20	27	5	7	476
December	219	178	50	19	28	5	8	506
Total	2,675	2,036	581	174	328	64	105	5,963
2003 January	199	165	43	17	27	5	6	462
February	198	153	40	20	25	5	7	446
March	246	177	47	17	27	5	10	529
April	253	169	46	20	25	5	11	528
May	302	167	46	19	25	6	9	574
June	288	170	46	19	26	6	10	564
July	249	178	50	20	26	6	9	537
August	231	174	48	21	26	6	8	513
September	184	165	44	18	26	5	8	451
October	185	187	49	21	26	5	9	482
November	199	199	48	24	26	5	10	511
December	244	186	51	25	29	5	11	552
Total	2,779	2,087	559	239	314	63	108	6,150
2004 January	235	185	48	24	30	5	9	536
February	214	170	43	22	28	5	10	491 524
March	233	175	46 46	24	28	5	12	524 504
April	213	176	46	24	27	5	12	504
May	242	170	50	25	28	6	17	538
June	255	168	48	25	28	6	14	544
July	235	179	48	25	29	6	11	533
August	219	180	48	24	29	6	10	515
September	208	170	44	26	27	5	11	492
9-Month Total	2,054	1,574	421	219	254	49	106	4,677
2003 9-Month Total 2002 9-Month Total	2,151 2,082	1,516 1,505	411 434	169 119	233 245	48 49	78 83	4,606 4,517

^a Hydroelectricity generated by pumped storage is not included in renewable

direct use energy.

^g Wind electricity net generation.

NA=Not available. (s)=Less than 0.5 trillion Btu.
Notes: • Totals may not equal sum of components due to independent rounding. • Geographic coverage is the 50 states and the District of Columbia.
Web Page: http://www.eia.doe.gov/emeu/mer/renew.html.
Sources: Tables 10.2a, 10.2b, and 10.2c.

<sup>d Hydroelectricity generated by pumped storage is not included in Terrewaule energy.
b Wood, black liquor, and other wood waste.
c Municipal solid waste, landfill gas, sludge waste, tires, agricultural byproducts, and other biomass.
d Ethanol blended into motor gasoline.
e Geothermal electricity net generation, heat pump, and direct use energy.
f Solar thermal and photovoltaic electricity net generation, and solar thermal</sup>

Table 10.2a Estimated Renewable Energy Consumption: **Residential and Commercial Sectors**

(Trillion Btu)

		Residentia	al Sector		Commercial Sector ^a						
	Wood ^b	Geothermal ^c	Solar ^d	Total	Hydropower ^e	Wood ^b	Waste ^f	Geothermal ^C	Total		
73 Total	354	NA	NA	354	NA	7	NA	NA	7		
74 Total	371	NA	NA	371	NA	7	NA	NA	7		
75 Total	425	NA	NA	425	NA NA	8	NA	NA	8		
76 Total	482	NA	NA	482	NA	9	NA	NA	9		
77 Total	542	NA	NA	542	NA.	10	NA	NA	10		
78 Total	622	NA	NA	622	NA NA	12	NA	NA	12		
79 Total	728 859	NA NA	NA NA	728 859	NA NA	14 21	NA NA	NA NA	14 21		
80 Total 81 Total	869	NA NA	NA NA	869	NA NA	21	NA NA	NA NA	21		
82 Total	937	NA NA	NA NA	937	NA NA	22	NA NA	NA NA	22		
33 Total	925	NA NA	NA NA	925	NA NA	22	NA	NA NA	22		
34 Total	923	NA	NA	923	NA	22	NA	NA	22		
35 Total	899	NA	NA	899	NA	24	NA	NA	24		
86 Total	876	NA	NA	876	NA	27	NA	NA	27		
87 Total	852	NA	NA	852	NA	29	NA	NA	29		
88 Total	885	NA	NA	885	NA.	32	NA	NA	32		
89 Total	918	5	53	976	1 1	36	22	3	61		
90 Total	581	6	56 50	642	1 1	39	28	3	71		
91 Total	613 645	6	58	677	1 1	41 44	26 22	3 3	72 91		
92 Total 93 Total	645 548	6 7	60 62	711 616		44 46	32 33	3	81 84		
94 Total	537	6	64	607	i	46	35	4	86		
95 Total	596	7	65	667	i	46	40	5	92		
96 Total	595	7	65	667	1 i	50	53	5	110		
97 Total	433	8	65	506	1	49	58	6	113		
98 Total	387	8	65	459	1	48	54	7	111		
99 Total	414	9	64	486	1	52	54	7	114		
00 Total	433	9	61	503	1 1	53	47	8	109		
01 Total	370	9	60	439	1	40	39	8	89		
02 January February	27 24	1	5 5	32 29	(s) (s)	4 3	3 3	1 1	7 7		
March	27	i	5	32	(s)	4	3	i	7		
April	26	1	5	31	(s)	3	3	i	7		
May	27	i	5	32	(s)	4	4	i	8		
June	26	1	5	31	(s)	3	4	i	8		
July	27	1	5	32	(s)	4	4	1	8		
August	27	1	5	32	(s)	4	4	1	8		
September	26	1	5	31	(s)	3	4	1	8		
October	27	1	5	32	(s)	4	4	1	8		
November	26	1	5	31	(s)	3	4	1	8		
December	27	. 1	5	32	(s)	4	3	1	7		
Total	313	10	59	382	(s)	42	42	9	93		
03 January February	30 28	2 1	5 4	37 33	(s) (s)	4 3	3 3	1 1	8		
March	30	2	5	37	(s)	4	4	i	9		
April	30	1	5	36	(s)	3	4	i	9		
May	30	2	5	37	(s)	4	4	i	9		
June	30	1	5	36	(s)	3	4	i	9		
July	30	2	5	37	(s)	4	4	1	9		
August	30	2	5	37	(s)	4	4	1	9		
September	30	1	5	36	(s)	3	4	1	8		
October	30	2	5	37	(s)	4	4	1	9		
November	30	1	5	36	(s)	3	4	1	9		
December	30	2	5 5 0	37 425	(s)	4	4	1	107		
Total	359	18	58	435	1	42	48	15	107		
94 January February	30 28	2 1	5 5	37 34	(s) (s)	4 3	4 4	1 1	9		
March	30	2	5	37	(s)	4	4	i	9		
April	29	1	5	36	(s)	4	4	i	9		
May	30	2	5	37	(s)	4	4	i	9		
June	29	1	5	36	(s)	3	4	i	9		
July	30	2	5	37	(s)	4	4	i	9		
August	30	2	5	37	(s)	4	4	1	9		
September	29	1	5	36	(s)	4	4	1	9		
9-Month Total	269	13	43	326	1	32	36	11	81		
3 9-Month Total	269	13	43	325	1	32	35	11	79		

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

Section 7.

b Wood, black liquor, and other wood waste.

c Geothermal heat pump and direct use energy.

d Solar thermal direct use energy and photovoltaic electricity generation. Small amounts of commercial sector use are included in the residential sector.

e Conventional hydroelectric power.

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

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

NA=Not available: (s)=Less trial to 5 trillor bit.

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

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

Sources: See end of section.

Table 10.2b Estimated Renewable Energy Consumption: Industrial and Transportation Sectors

(Trillion Btu)

			Industrial Sector ^a	1		Transportation Sect
	Hydropowerb	Wood ^c	Wasted	Geothermal ^e	Total	Alcohol Fuels ^f
72 Tatal	05	1 165	NA	N/A	1 000	NA.
73 Total	35	1,165	NA NA	NA NA	1,200	NA NA
74 Total	33	1,159	NA	NA	1,192	NA NA
75 Total	32	1,063	NA	NA	1,096	NA NA
76 Total	33	1,220	NA	NA	1,253	NA
77 Total	33	1,281	NA	NA	1,314	NA NA
78 Total	32	1,400	NA	NA	1,432	NA NA
79 Total	34	1,405	NA	NA	1.439	NA.
80 Total	33	1,600	NA NA	NA NA	1,633	NA NA
B1 Total	33	1,602	87	NA	1,722	7
32 Total	33	1,516	118	NA	1,667	19
33 Total	33	1,690	155	NA	1,879	35
34 Total	33	1,679	204	NA	1,916	43
35 Total	33	1,645	230	NA	1,908	52
36 Total	33	1,610	256	NA	1,899	60
	33			NA NA		
37 Total		1,576	282		1,891	69
38 Total	33	1,625	308	NA	1,965	70
39 Total	28	1,584	200	2	1,814	71
0 Total	31	1,442	192	2	1,667	63
1 Total	30	1,410	185	2	1,626	73
2 Total	31	1,461	179	2	1,672	83
3 Total	30	1,483	181	2	1,696	97
94 Total	62			3		
		1,580	199		1,844	109
5 Total	55	1,652	195	3	1,905	117
6 Total	61	1,683	224	3	1,971	84
7 Total	58	1,731	184	3	1,976	106
98 Total	55	1,603	180	3	1,841	117
9 Total	49	1,620	171	4	1,843	122
0 Total	42	1.636	145	4	1,828	139
1 Total	32	1,443	150	5	1,630	147
)2 <u>January</u>	3	130	15	(s)	149	13
February	3	114	13	(s)	131	12
March	3	120	15	(s)	138	12
April	3	121	14	(s)	139	12
May	3	130	14	(s)	147	14
	3	122	14		139	12
June	3			(s)		
July		137	14	(s)	154	15
August	3	124	14	(s)	141	14
September	2	132	14	(s)	148	15
October	3	141	15	(s)	159	17
November	5	128	15	(s)	148	20
December	5	133	16	(s)	155	19
	39	1,531	174	(s) 5		174
Total	39	1,551	174	3	1,748	1/4
3 January	4	116	13	(s)	134	17
February	4	110	12	(s)	126	20
March	5	130	14	(s)	149	17
April	4	124	13	(s)	142	20
	5	122			141	19
May			14	(s)		
June	5	125	13	(s)	143	19
July	5	129	13	(s)	148	20
August	5	125	14	(s)	144	21
September	4	119	14	(s)	137	18
October	4	138	15	(s)	157	21
November	4	151	14	(s)	170	24
	•					
December	_6	137	15	(s) 5	158	25
Total	57	1,524	164	5	1,750	239
14 January	5	136	14	(s)	156	24
February	4	124	13	(s)	142	22
March	4	127	14	(s)	145	24
	•			(5)		
April	4	131	14	(s)	149	24
May	4	124	15	(s)	143	25
June	3	123	15	(s)	141	25
July	3	130	14	(s)	147	25
August	4	131	14	(s)	149	24
September	5	124	13	(s)	142	26
9-Month Total	36	1,150	126	4	1,316	219
3-WUILLI TULAI	30	1,100	120	4	1,310	219
0 0 M	42	1,098	121	4	1,265	169
3 9-Month Total 2 9-Month Total	25	1,129	128	4	1,286	119

a Industrial sector fuel use, including that at industrial combined-heat-and-power (CHP) and industrial electricity-only plants. See note at end of Section 7.

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

Geothermal heat pump and direct use energy.
 Ethanol blended into motor gasoline.
 NA=Not available. (s)=Less than 0.5 trillion Btu.

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

Table 10.2c Renewable Energy Consumption: Electric Power Sector (Trillion Btu)

973 Total	2,827 3,143 3,122 2,943 2,301 2,905 2,897 2,867 2,725 3,233 3,494 3,353 2,937 3,038 2,602 2,302 2,808	1 (s) 1 3 2 3 3 3 2 2 5 8 5	2 2 2 2 1 2 2 1 1 2 4 7	43 53 70 78 77 64 84 110 123 105 129 165	NA NA NA NA NA NA NA NA	NA NA NA NA NA NA NA	2,873 3,199 3,194 3,024 2,383 2,973 2,986 2,982 2,852 3,341
974 Total 975 Total 976 Total 977 Total 978 Total 979 Total 980 Total 981 Total 982 Total 983 Total 984 Total 985 Total 986 Total	3,143 3,122 2,943 2,301 2,905 2,897 2,725 3,233 3,434 3,353 2,937 3,038 2,602 2,302	1 (s) 1 3 2 3 3 3 2 2 5 8 5 8	2 2 2 1 2 1 1 2 4 7	53 70 78 77 64 84 110 123 105 129	NA NA NA NA NA NA NA	NA NA NA NA NA NA NA	3,199 3,194 3,024 2,383 2,973 2,986 2,982 2,852 3,341
975 Total 976 Total 977 Total 978 Total 979 Total 980 Total 981 Total 982 Total 983 Total 984 Total 985 Total 987 Total	3,122 2,943 2,301 2,905 2,897 2,867 2,725 3,233 3,494 3,353 2,937 3,038 2,602 2,302	(s) 1 3 2 3 3 3 2 2 5 8 5	2 2 1 2 2 1 1 2 4 7	70 78 77 64 84 110 123 105 129	NA NA NA NA NA NA NA	NA NA NA NA NA NA	3,194 3,024 2,383 2,973 2,986 2,982 2,852 3,341
976 Total 977 Total 978 Total 979 Total 980 Total 981 Total 982 Total 983 Total 984 Total 985 Total 985 Total 987 Total	2,943 2,301 2,905 2,897 2,725 3,233 3,494 3,353 2,937 3,038 2,602 2,302	1 3 2 3 3 3 2 2 5 8 5 8	2 2 1 2 2 1 1 2 4 7	78 77 64 84 110 123 105 129	NA NA NA NA NA NA	NA NA NA NA NA	3,024 2,383 2,973 2,986 2,982 2,852 3,341
977 Total 978 Total 979 Total 980 Total 981 Total 982 Total 983 Total 984 Total 985 Total 986 Total	2,301 2,905 2,897 2,867 2,725 3,233 3,494 3,353 2,937 3,038 2,602 2,302	3 2 3 3 2 2 5 8 5 8	2 1 2 2 1 1 2 4 7	77 64 84 110 123 105 129	NA NA NA NA NA	NA NA NA NA NA	2,383 2,973 2,986 2,982 2,852 3,341
978 Total	2,905 2,897 2,867 2,725 3,233 3,494 3,353 2,937 3,038 2,602 2,302	2 3 3 2 2 5 8 5 8	1 2 2 1 1 2 4 7	64 84 110 123 105 129	NA NA NA NA	NA NA NA NA	2,973 2,986 2,982 2,852 3,341
979 Total 980 Total 981 Total 982 Total 983 Total 984 Total 985 Total 986 Total 987 Total	2,897 2,867 2,725 3,233 3,494 3,353 2,937 3,038 2,602 2,302	3 3 2 2 5 8 5 8	2 2 1 1 2 4 7	84 110 123 105 129	NA NA NA NA	NA NA NA NA	2,986 2,982 2,852 3,341
980 Total 981 Total 982 Total 983 Total 984 Total 985 Total 986 Total	2,867 2,725 3,233 3,494 3,353 2,937 3,038 2,602 2,302	3 3 2 2 5 8 5 8	2 1 1 2 4 7	110 123 105 129	NA NA NA	NA NA NA	2,982 2,852 3,341
981 Total 982 Total 983 Total 984 Total 985 Total 986 Total 987 Total	2,725 3,233 3,494 3,353 2,937 3,038 2,602 2,302	3 2 2 5 8 5 8	1 1 2 4 7	123 105 129	NA NA	NA NA	2,852 3,341
982 Total 983 Total 984 Total 985 Total 986 Total 987 Total	3,233 3,494 3,353 2,937 3,038 2,602 2,302	2 2 5 8 5 8	1 2 4 7	105 129	NA	NA	3,341
983 Total 984 Total 985 Total 986 Total 987 Total	3,494 3,353 2,937 3,038 2,602 2,302	2 5 8 5 8	2 4 7	129			
984 Total 985 Total 986 Total 987 Total	3,353 2,937 3,038 2,602 2,302	5 8 5 8	4 7		NA	/^\	
985 Total 986 Total 987 Total	2,937 3,038 2,602 2,302	8 5 8	7	165		(s)	3,627
985 Total 986 Total 987 Total	3,038 2,602 2,302	5 8			(s)	(s)	3,527
987 Total	2,602 2,302	8	7	198	(s)	(s)	3,150
987 Total	2,302			219	(s)	(s)	3,270
	2,302		7	229	(s)	(s)	2,846
988 Total		10	8	217	(s)	(s)	2,536
989 Total ^g		100	132	308	3	22	3,372
990 Total	3,014	129	188	326	4	29	3,689
001 Total	2,985	126	229	335	5	31	3,710
991 Total		140	262	338	5 4	30	
992 Total	2,586				•		3,360
993 Total	2,861	150	265	351 305	5	31 26	3,662
94 Total	2,620	152	282	325	5_	36	3,420
995 Total	3,149	125	296	280	5	33	3,889
96 Total	3,528	138	300	300	5	33	4,305
97 Total	3,581	137	309	309	5	34	4,375
98 Total	3,241	137	308	311	5	31	4,032
999 Total	3,218	138	315	312	5	46	4,034
000 Total	2,768	134	318	296	5	57	3,579
01 Total	2,169	126	324	289	6	68	2,982
	,						*
002 January	218	13	30	27	(s)	8	296
February	201	10	27	24	(s)	7	270
March	210	13	30	26	(s)	9	288
April	242	11	28	23	(s)	10	316
May	267	11	30	26	1	11	345
June	283	12	31	24	4	11	362
	255	13	33	27	i	9	337
July					•		
August	211	13	33	26	1	10	293
September	170	14	31	25	1	7	248
October	170	13	30	26	(s)	7	247
November	195	13	30	25	(s)	7	270
December	214	14	32	26	(s)	8	293
Total	2,636	150	365	305	6	105	3,567
202 Januari	105	15	07	24	(a)	6	267
003 January	195		27		(s)		
February	195	12	24	22	(s)	7	260
March	241	13	29	23	1	10	317
April	248	12	28	22	1	11	322
May	297	11	29	22	1	9	368
June	283	13	29	23	1	10	358
July	244	14	32	23	1	9	323
August	226	15	30	23	1	8	302
September	180	13	27	23	1	8	251
October	181	15	30	23	(s)	9	258
November	195	14	30	23	(s)	10	272
December	238	15	32	26	(s)	11	322
Total	2,722	161	346	276	5	108	3,619
	-,- 		J.U		•		-,•.•
04 January	230	15	30	26	(s)	9	310
February	209	14	26	25	(s)	10	284
March	228	14	28	25	1	12	309
April	210	12	28	24	i	12	286
	239	13	30	25	i	17	323
May					•		
June	252	12	29	25	1	14	333
July	231	16	30	26	1	11	315
August	215	15	30	26	1	10	296
September	203	13	27	24	1	11	280
9-Month Total	2,017	124	258	225	5	106	2,735
102 0 Month Total	2 100	117	054	005	-	70	0.767
003 9-Month Total 002 9-Month Total	2,108 2,057	117 110	254 274	205 228	5 5	78 83	2,767 2,757

 ^a Conventional hydroelectric power.
 ^b Wood, black liquor, and other wood waste.
 ^c Municipal solid waste, landfill gas, sludge waste, tires, agricultural byproducts, and other biomass.
 ^d Geothermal electricity net generation.

<sup>d Geothermal electricity net generation.
Solar thermal and photovoltaic electricity net generation.
Wind electricity net generation.
Through 1988, data are for consumption at electric utilities only. Beginning</sup> in 1989, data also include consumption at independent power producers. NA=Not available. (s)=Less than 0.5 trillion Btu.

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

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

Web Page: http://www.eia.doe.gov/emeu/mer/renew.html.
Sources: Wood and Waste • 1973-1988: Table 7.3d. • 1989 forward:
Table 7.3b. Hydropower, Geothermal, Solar, and Wind: Tables 7.2b and

Renewable Energy

Tables 10.2a and 10.2b Sources

Wood, Residential

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

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

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

1985 and 1986: Values interpolated.

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

1988: Value interpolated.

1989: EIA, Estimates of U.S. Biofuels Consumption 1990, Table 1.

1990–2001: EIA, *Renewable Energy Annual*, annual reports, Table 6. Includes revisions published in the EIA, *Annual Energy Review 2000*, Table 10.2a.

2002 forward: EIA, Office of Coal, Nuclear, Electric and Alternate Fuels (CNEAF), estimates.

Wood, Commercial

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

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

1984: EIA, CNEAF, estimate.

1985–1992: Values interpolated.

1993–2001: EIA, *Renewable Energy Annual*, annual reports, Table 6. Includes revisions published in the EIA, *Annual Energy Review 2000*, Table 10.2a.

2002 forward: EIA, CNEAF, estimates.

Wood, Industrial

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

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

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

1985 and 1986: Values interpolated.

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

1988: Value interpolated.

1989: American Paper Institute, *Fact Sheet on 1990 Energy Use in the U.S. Pulp and Paper Industry* (July 1991), total pulp and paper industry wood consumption, minus nonutility power producers' use of wood to produce electricity (see Table 10.3b).

1990–2001: EIA, *Renewable Energy Annual 2001* (November 2002), Table B1, and CNEAF staff for subsequent data updates.

2002 forward: EIA, CNEAF, estimates.

Waste, Commercial

Table 7.3c

Waste, Industrial

1981: EIA, *Estimates of U.S. Biofuels Consumption 1990*, Table 8, total waste consumption, minus electric utilities' use of waste to produce electricity (see Table 10.3a).

1982 and 1983: EIA, CNEAF, estimates for total waste consumption, minus electric utilities' use of waste to produce electricity (see Table 10.3a).

1984: EIA, *Estimates of U.S. Biofuels Consumption 1990*, Table 8, total waste consumption, minus electric utilities' use of waste to produce electricity (see Table 10.3a).

1985 and 1986: Values interpolated.

1987: EIA, *Estimates of U.S. Biofuels Consumption 1990*, Table 8, total waste consumption, minus electric utilities' use of waste to produce electricity (see Table 10.3a).

1988: Value interpolated.

1989: EIA, *Estimates of U.S. Biofuels Consumption 1990*, Table 8, total waste consumption, minus electric utilities' and nonutility power producers' use of waste to produce electricity (see Tables 10.3a and 10.3b).

1990–2001: EIA, *Renewable Energy Annual 2001* (November 2002), Table B1, and CNEAF staff for subsequent data updates.

2002 forward: EIA, CNEAF, estimates.

Hydroelectric, Commercial

Hydroelectric total (all sectors) from Table 7.2a minus electric power sector hydroelectric from Table 7.2b minus industrial sector hydroelectric from Table 7.2c, times the fossil-fueled steam-electric plants heat rate from Table A6.

Hydroelectric, Industrial

1973–1978: Federal Power Commission (FPC), Form FPC-4, "Monthly Power Plant Report," for plants with generating capacity exceeding 10 megawatts, and FPC, Form FPC-12C, "Industrial Electric Generating Capacity," for all other plants, and Table A6.

1979: FPC, Form FPC-4, "Monthly Power Plant Report," for plants with generating capacity exceeding 10 megawatts, and EIA estimates for all other plants; and Table A6.

1980–1988: Estimated by EIA as the average generation over the 6-year period of 1974-1979, and Table A6.

1989 forward: Tables 7.2c and A6.

Alcohol Fuels

1981: EIA, Estimates of U.S. Biofuels Consumption 1990, Table 10.

1982 and 1983: EIA, CNEAF, estimates.

1984: EIA, Estimates of U.S. Biofuels Consumption 1990, Table 10.

1985 and 1986: Values interpolated.

1987: EIA, Estimates of U.S. Biofuels Consumption 1990, Table 10.

1988: Value interpolated.

1989: EIA, Estimates of U.S. Biofuels Consumption 1990, Table 10.

1990: EIA, Estimates of U.S. Biomass Energy Consumption 1992, Table D1.

1991: Value interpolated.

1992: EIA, Estimates of U.S. Biomass Energy Consumption 1992, Table D1.

1993 forward: EIA, *Petroleum Supply Monthly (PSM)*, Tables 2 and 28, and *Monthly Energy Review (MER)* Table A1. Ten percent of the "Field Production" of "Oxygenated Finished Motor Gasoline" from *PSM* Table 2 is added to the "Refinery Input of Fuel Ethanol" from *PSM* Table 28. The sum is multiplied by the conversion factor of 3.539 million Btu per barrel as shown in the *MER* Table A1.

Geothermal

1989 forward: John Lund, Oregon Institute of Technology Geoheat Center, unpublished data.

Solar

1989-1991: EIA, CNEAF, estimates.

1992–2001: EIA *Renewable Energy Annual*, annual reports, Table 2. Includes revisions published in the EIA, *Annual Energy Review 2000*, Table 10.2a and 10.2b.

2002 forward: EIA, CNEAF, estimates.

Section 11. International Petroleum

Crude Oil Production. World crude oil production during September 2004 was 73 million barrels per day, up 0.7 million barrels per day from the level in the previous month. World crude oil production in the first 3 quarters of 2004 averaged 72 million barrels per day, up 5 percent compared with production in the first 3 quarters of 2003.

Organization of Petroleum Exporting Countries (OPEC) production during September 2004 averaged 31 million barrels per day, up 0.5 million barrels per day from the level in the previous month. OPEC production during the first 3 quarters of 2004 averaged 30 million barrels per day, an 8-percent increase from the levels of the first 3 quarters of 2003. During September 2004, production increased in Iraq by 500 thousand barrels per day. Production remained unchanged in Saudi Arabia, Iran, the United Arab Emirates, Venezuela, Nigeria, Kuwait, Algeria, Libya, Indonesia, and Qatar.

Among the non-OPEC nations, production during September 2004 increased in Norway by 109 thousand barrels per day; Mexico by 77 thousand barrels per day; China by 74 thousand barrels per day; Canada by 37 thousand per day; Russia by 29 thousand barrels per day; and Egypt by 9 thousand barrels per day. Production decreased in the United States by 189 thousand barrels per

day and the United Kingdom by 106 thousand barrels per day.

Petroleum Consumption. In August 2004, consumption in all Organization for Economic Cooperation and Development (OECD) countries was 48.9 million barrels per day, 2 percent¹ higher than the August 2003 rate. Comparing August rates in 2004 and 2003, consumption was higher in 2004 in the United Kingdom (+12 percent); Germany (+9 percent); Japan (+7 percent); Canada (+5 percent); South Korea (+4 percent); and the United States (+1 percent). The August 2004 consumption rate was lower in Italy and France (both -1 percent), compared with the rate 1 year earlier.

Petroleum Stocks. For all OECD countries, petroleum stocks at the end of August 2004 totaled 4.0 billion barrels, 2 percent¹ higher than the ending stock level in August 2003. Stock levels were higher in August 2004 in Canada (+11 percent); the United States (+5 percent); France (+1 percent); and South Korea (less than +1 percent). Stock levels were lower in the United Kingdom (-7 percent); Japan (-4 percent); and Italy and Germany (both -2 percent), compared with levels 1 year earlier.

¹Percentage changes are based on unrounded data.

Table 11.1a World Crude Oil Production: OPEC Members

(Thousand Barrels per Day)

				1						1		
									Saudi	United Arab		
	Algeria	Indonesia	Iran	Iraq	Kuwaita	Libya	Nigeria	Qatar	Arabia ^a	Emirates	Venezuela	OPEC b
1072 Averege	1,097	1 220	5,861	2,018	3,020	0.175	2,054	570	7,596	1 500	2 266	20 620
1973 Average 1974 Average	1,097	1,339 1,375	6,022	1,971	2,546	2,175 1,521	2,054	518	8,480	1,533 1,679	3,366 2,976	30,629 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	1,075	1,504	5,883	2,415	2,145	1,933	2,067	497	8,577	1,936	2,294	30,327
1977 Average	1,152	1,686	5,663	2,348	1,969	2,063	2,085	445	9,245	1,999	2,238	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 1981 Average	1,106 1,002	1,577 1,605	1,662 1,380	2,514 1,000	1,656 1,125	1,787 1,140	2,055 1,433	472 405	9,900 9,815	1,709 1,474	2,168 2,102	26,606 22,481
1982 Average	987	1,339	2,214	1,012	823	1,150	1,295	330	6,483	1,250	1,895	18,778
1983 Average	968	1,343	2,440	1,005	1,064	1,105	1,241	295	5,086	1,149	1,801	17,497
1984 Average	1,014	1,412	2,174	1,209	1,157	1,087	1,388	394	4,663	1,146	1,798	17,442
1985 Average	1,037	1,325	2,250	1,433	1,023	1,059	1,495	301	3,388	1,193	1,677	16,181
1986 Average	945	1,390	2,035	1,690	1,419	1,034	1,467	308	4,870	1,330	1,787	18,275
1987 Average	1,048	1,343	2,298	2,079	1,585	972	1,341	293	4,265	1,541	1,752	18,517
1988 Average	1,040	1,342	2,240	2,685	1,492	1,175	1,450	346	5,086	1,565	1,903	20,324
1989 Average 1990 Average	1,095 1,175	1,409 1,462	2,810 3,088	2,897 2,040	1,783 1,175	1,150 1,375	1,716 1,810	380 406	5,064 6,410	1,860 2,117	1,907 2,137	22,071 23,195
1991 Average	1,175	1,592	3,312	305	190	1,483	1,892	395	8,115	2,386	2,137	23,195
1992 Average	1,214	1,504	3,429	425	1,058	1,433	1,943	423	8,332	2,266	2,371	24,398
1993 Average	1,162	1,511	3,540	512	1,852	1,361	1,960	413	8,198	2,159	2,450	25,119
1994 Average	1,180	1,510	3,618	553	2,025	1,378	1,931	415	8,120	2,193	2,588	25,510
1995 Average	1,202	1,503	3,643	560	2,057	1,390	1,993	442	8,231	2,233	2,750	26,004
1996 Average	1,242	1,547	3,686	579	2,062	1,401	2,001	510	8,218	2,278	2,938	26,461
1997 Average	1,277	1,520	3,664	1,155	2,007	1,446	2,132	550	8,362	2,316	3,280	27,710
1998 Average 1999 Average	1,246 1,202	1,518 1,472	3,634 3,557	2,150 2,508	2,085 1,898	1,390 1,319	2,153 2,130	696 665	8,389 7,833	2,345 2,169	3,167 2,826	28,774 27,579
2000 Average	1,254	1,472	3,696	2,571	2,079	1,410	2,165	737	8,404	2,169	3,155	29,262
2001 Average	1,310	1,340	3,724	2,390	1,998	1,367	2,256	714	8,031	2,205	3,010	28,344
2002 January	1,221	1,310	3,385	2,315	1,850	1,260	2,150	625	7,300	2,060	2,630	26,106
February	1,215	1,280	3,365	2,545	1,803	1,280	2,100	625	7,210	2,050	2,600	26,073
March	1,235	1,280	3,385	2,515	1,850	1,290	2,120	635	7,310	2,055	2,620	26,295
April	1,245	1,270	3,375	1,215	1,860	1,300	2,130	655 675	7,455	2,070	2,530	25,105
May June	1,275 1,285	1,270 1,270	3,395 3,415	1,865 1,525	1,880 1,890	1,310 1,320	2,070 2,060	665	7,450 7,500	2,060 2,060	2,730 2,735	25,980 25,725
July	1,305	1,265	3,425	1,835	1,910	1,330	2,050	675	7,700	2,080	2,735	26,310
August	1,315	1,260	3,440	1,505	1,910	1,330	2,100	685	7,730	2,090	2,765	26,130
September	1,345	1,260	3,485	1,825	1,930	1,350	2,143	695	7,880	2,103	2,955	26,971
October	1,395	1,260	3,535	2,425	1,930	1,350	2,140	725	7,900	2,113	2,980	27,753
November	1,383	1,250	3,535	2,395	1,940	1,350	2,150	730	8,100	2,100	2,972	27,905
December	1,445	1,230	3,585	2,325	1,970	1,350	2,200	755 6 70	8,050	2,140	1,020	26,069
Average	1,306	1,267	3,444	2,023	1,894	1,319	2,118	679	7,634	2,082	2,604	26,370
2003 January	1,490	1,230	3,660	2,555	1,990	1,375	2,310	760	8,570	2,200	630	26,769
February	1,495	1,225	3,735	2,490	2,050	1,400	2,360	785 785	8,870	2,250	1,450	28,110
March April	1,555 1,645	1,200 1,180	3,760 3,755	1,373 53	2,300 2,400	1,405 1,430	2,030 1,965	785 785	9,460 9,600	2,450 2,450	2,390 2,555	28,708 27,818
May	1,645	1,170	3,755	293	2,285	1,435	2,050	785	9,400	2,400	2,665	27,883
June	1,625	1,165	3,755	453	2,100	1,430	2,150	735	8,700	2,350	2,640	27,103
July	1,645	1,165	3,785	573	2,100	1,430	2,185	735	8,610	2,350	2,640	27,218
August	1,645	1,150	3,785	1,053	2,100	1,425	2,260	735	8,610	2,340	2,640	27,743
September	1,645	1,150	3,785	1,403	2,100	1,425	2,360	735	8,550	2,300	2,640	28,093
October	1,645	1,145	3,785	1,753	2,200	1,420	2,360	735	8,650	2,330	2,640	28,663
November December	1,645 1,645	1,140 1,140	3,835 3,950	1,853 1,953	2,200 2,300	1,420 1,450	2,410 2,460	785 785	8,500 8,660	2,350 2,400	2,540 2,540	28,678 29,283
Average	1,611	1,171	3,779	1,312	2,178	1,421	2,241	762	8,848	2,348	2,335	28,006
2004 January	1,645	1,130	3,950	2,103	2,300	1,450	2,530	785	8,700	2,400	2,540	29,533
February	1,645	1,130	3,950	2,003	2,300	1,450	2,530	795	8,700	2,420	2,540	29,463
March	1,645	1,120	3,960	2,203	2,355	1,450	2,530	795	8,400	2,370	2,540	29,368
April	1,645	1,120	3,970	2,303	2,350	1,450	2,530	795	8,400	2,220	2,540	29,323
May	1,645	1,115	3,980	1,903	2,400	1,450	2,530	795	8,500	2,280	2,540	29,138
June	1,665 1,695	1,105 1,100	3,990 4,010	1,703 2,003	2,400 2,400	1,500 1,550	2,580 2,580	835 835	9,500 9,500	2,510 2,530	2,540 2,540	30,328 30,743
July August	1,695	1,100	4,010	1,803	2,400	1,560	2,380	835	9,500	2,600	2,540	30,743
September	1,695	1,100	4,030	2,303	2,400	1,560	2,480	835	9,500	2,600	2,540	31,043
9-Mo. Avg	1,664	1,113	3,986	2,036	2,368	1,491	2,530	812	8,967	2,437	2,540	29,943
2003 9-Mo. Avg 2002 9-Mo. Avg	1,600 1,272	1,181 1,274	3,753 3,408	1,129 1,902	2,159 1,876	1,417 1,308	2,184 2,102	760 660	8,930 7,506	2,344 2,070	2,255 2,701	27,712 26,079
	-,	-,	-,	-,,,,,	.,	-,,,,,,	_,· - _		.,,,,,	_,,	=,- • •	,

^a Except for the period from August 1990 through May 1991, includes about one-half of the production in the Kuwait-Saudi Arabia Neutral Zone. Kuwait Neutral Zone output was discontinued following Iraq's invasion of Kuwait on August 2, 1990, but was resumed in June 1991. In September 2004, Neutral Zone production

by both Kuwait and Saudi Arabia totaled about 610 thousand barrels per day.

b Current members of OPEC are Algeria, Indonesia, Iran, Iraq, Kuwait, Libya, Nigeria, Qatar, Saudi Arabia, the United Arab Emirates, and Venezuela. Ecuador and Gabon, which withdrew from OPEC membership at the end of 1992 and 1994,

respectively, are excluded from all OPEC totals.

Notes: • Crude oil includes lease condensate but excludes natural gas plant liquids. • Monthly data are often preliminary figures and may not average to the annual totals because of rounding or because updates to the preliminary monthly

data are not available.

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

Sources: See end of section.

Table 11.1b World Crude Oil Production: Persian Gulf Nations, Non-OPEC, and World

(Thousand Barrels per Day)

	Persian Gulf Nations ^a											
1973 Average		Canada	China	Egypt	Mexico	Norway	Former U.S.S.R.	Russia	United Kingdom	United States	Total Non- OPEC	World
	20,668	1,798	1,090	165	465	32	8,324	NA	2	9,208	25,050	55,679
	21,282 18,934	1,551 1,430	1,315 1,490	150 235	571 705	35 189	8,912 9,523	NA NA	2 12	8,774 8,375	25,366 26,058	55,716 52,828
	21,514	1,314	1,490	330	831	279	10,060	NA NA	245	8,132	27,018	52,626 57,344
	21,725	1,321	1,874	415	981	280	10,603	NA	768	8,245	28,814	59,707
	20,606	1,316	2,082	485	1,209	356	11,105	NA	1,082	8,707	30,694	60,158
	21,066	1,500	2,122	525	1,461	403	11,384	NA	1,568	8,552	32,094	62,674
	17,961 15,245	1,435 1,285	2,114 2,012	595 598	1,936 2,313	528 501	11,706 11,850	NA NA	1,622 1,811	8,597 8,572	32,994 33,595	59,600 56,076
	12,156	1,271	2,045	670	2,748	520	11,912	NA	2,065	8,649	34,703	53,481
	11,081	1,356	2,120	727	2,689	614	11,972	NA	2,291	8,688	35,759	53,256
	10,784	1,438	2,296	822	2,780	697	11,861	NA	2,480	8,879	37,047	54,489
1985 Average	9,630	1,471	2,505	887	2,745	788	11,585	NA	2,530	8,971	37,801	53,982
	11,696 12,103	1,474 1,535	2,620 2,690	813 896	2,435 2,548	870 1,022	11,895 12,050	NA NA	2,539 2,406	8,680 8,349	37,952 38,149	56,227 56,666
	13,457	1,616	2,730	848	2,512	1,158	12,053	NA	2,232	8,140	38,413	58,737
	14,837	1,560	2,757	865	2,520	1,554	11,715	NA	1,802	7,613	37,792	59,863
	15,278	1,553	2,774	873	2,553	1,704	10,975	NA	1,820	7,355	37,371	60,566
	14,741	1,548	2,835	874	2,680	1,890	9,992	NA 7.620	1,797	7,417	36,932	60,207
	15,970 16,715	1,605 1,679	2,845 2,890	881 890	2,669 2,673	2,229 2,350	_	7,632 6,730	1,825 1,915	7,171 6,847	35,815 35,117	60,213 60,236
	16,964	1,746	2,939	896	2,685	2,521	_	6,135	2,375	6,662	35,481	60,991
	17,208	1,805	2,990	920	2,618	2,768	-	5,995	2,489	6,560	36,331	62,335
	17,367	1,837	3,131	922	2,855	3,104	-	5,850	2,568	6,465	37,250	63,711
	18,095 19,337	1,922	3,200	856 834	3,023 3,070	3,143	-	5,920	2,518 2,616	6,452	37,980	65,690 66,921
	18,667	1,981 1,907	3,198 3,195	852	2,906	3,017 3,018	_	5,854 6,079	2,684	6,252 5,881	38,147 38,269	65,848
	19,892	1,977	3,249	748	3,012	3,197	_	6,479	2,275	5,822	39,081	68,342
	19,098	2,029	3,300	698	3,157	3,117	-	6,917	2,282	5,801	39,598	67,942
	17,570	2,091	3,365	627	3,253	3,079	-	7,017	2,396	5,848	40,350	66,456
	17,633	2,167	3,330	629	3,142	3,150	_	7,094	2,392	5,871	40,469	66,542
	17,785 16,665	2,159 2,204	3,350 3,333	624 630	3,125 3,178	2,787 3,157	_	7,157 7,179	2,334 2,388	5,883 5,859	40,088 40,679	66,383 65,784
	17,360	2,130	3,365	667	3,176	3,028	_	7,173	2,338	5,924	40,398	66,378
	17,090	2,155	3,415	635	3,158	2,918	_	7,337	2,323	5,915	40,499	66,224
	17,660	2,201	3,395	628	3,145	3,114	_	7,441	2,114	5,770	40,413	66,723
	17,395 17,953	2,165 2,135	3,490 3,430	624 628	3,214 3,162	2,896 2,752	_	7,574 7,686	1,953 2,186	5,811 5,411	40,412 40,155	66,542 67,126
	18,663	2,179	3,447	625	3,257	2,732	_	7,735	2,364	5,363	40,704	68,457
	18,835	2,224	3,379	629	3,080	3,059	_	7,753	2,350	5,597	40,691	68,596
	18,859	2,238	3,371	630	3,269	2,962	_	7,721	2,375	5,699	40,808	66,877
Average	17,792	2,171	3,390	631	3,177	2,990	-	7,408	2,292	5,746	40,472	66,842
	19,769	2,220	3,354	630	3,330	2,935	-	R 7,678	2,256	5,785	R 40,766	R 67,535
	20,215 20,163	2,215 2,235	3,375 3,385	630 625	3,325 3,317	3,015 2,965	_	^R 7,789 ^R 7,836	2,275 2,250	5,791 5,817	^R 41,003 ^R 40,940	^R 69,113 ^R 69,648
	19.078	2,185	3,445	625	3,282	2,860	_	R 7,873	2,145	5,774	R 40,763	R 68,581
	18,953	2,190	3,430	625	3,320	2,845	-	^R 7,991	2,005	5,733	R 40,703	R 68,586
	18,128	2,250	3,450	620	3,396	2,576	-	R 8,106	1,950	5,701	R 40,676	R 67,779
	18,188 18,658	2,405 2,365	3,405 3,425	610 605	3,400 3,426	2,840 2,699	_	^R 8,238 ^R 8,291	1,988 1,892	5,526 5,595	^R 41,169 ^R 41,100	^R 68,387 ^R 68,843
	18,908	2,350	3,371	614	3,420	2,689	_	R 8,426	2,047	5,683	R 41,455	R 69,548
	19,488	2,325	3,401	615	3,398	2,816	_	R 8,448	2,171	5,635	R 41,762	R 70,425
November	19,558	2,440	3,426	610	3,380	2,941	-	R 8,445	1,956	5,560	^R 41,960	R 70,638
	20,083	2,480	3,438	610	3,455	2,978	_	R 8,444	2,192	5,579	R 42,625	R 71,908
-	19,262	2,306	3,409	618	3,371	2,846	_	R 8,132	2,093	5,681	R 41,246	^R 69,252
	20,273	2,414	3,440	610	3,417	3,143	-	R 8,457	2,041	E 5,644	R 42,418	R 71,951
	20,203 20,118	2,470 2,440	3,474 3,393	607 590	3,360 3,368	3,179 3,089	_	^R 8,503 ^R 8,562	1,898 2,028	E 5,584 E 5,622	^R 42,387 ^R 42,434	^R 71,850 ^R 71,802
	20,110	2,363	3,435	580	3,439	3,064	_	R 8,639	1,966	E 5,568	R 42,445	R 71,768
May	19,893	2,384	3,420	591	3,394	3,028	_	R 8,708	1,800	E 5,612	R 42,348	R 71,486
	20,973	2,430	3,460	585	3,436	3,068	-	R 8,883	R 1,926	E 5,403	R 42,734	R 73,062
	21,313 21,203	2,410 2,370	3,486 R 3,500	595 596	3,363 3,354	3,079 2,625	_	^R 8,924 ^R 9,013	^R 1,824 ^R 1,698	E 5,404 E 5,280	^R 42,576 ^R 41.964	^R 73,319 ^R 72,507
	21,203	2,370	3,574	605	3,431	2,025	_	9,013	1,592	E 5,260	42,131	73,174
	20,639	2,409	3,464	595	3,396	3,000	-	8,749	1,864	E 5,468	42,382	72,324
	19,110 17,457	2,269 2,156	3,405 3,386	620 632	3,357 3,168	2,824 2,985	-	8,027 7,298	2,088 2,268	5,711 5,811	40,952 40,383	68,664 66,462

^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.

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

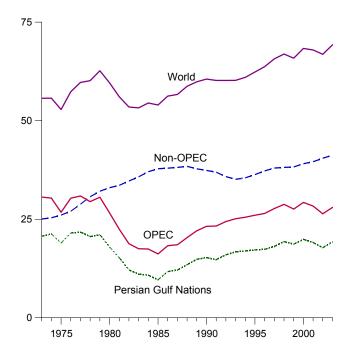
Web Page: http://www.eia.doe.gov/emeu/mer/inter.html.

Sources: See end of section.

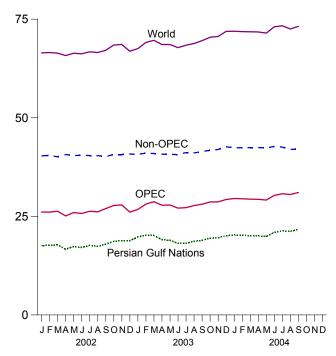
Notes: • Crude oil includes lease condensate but excludes natural gas plant liquids. • Monthly data are often preliminary figures and may not

Figure 11.1a Crude Oil Production Overview (Million Barrels per Day)

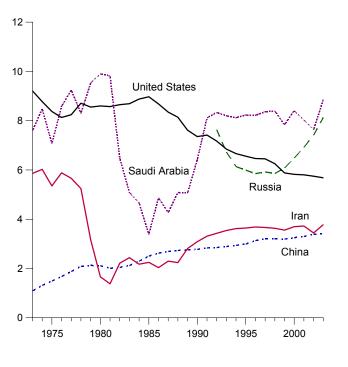
World Production, 1973-2003



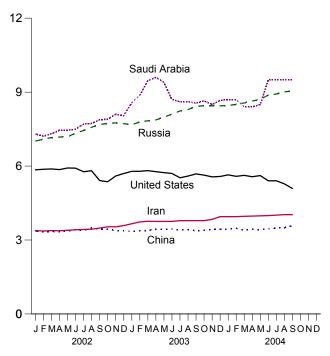
World Production, Monthly



Selected Producers, 1973-2003



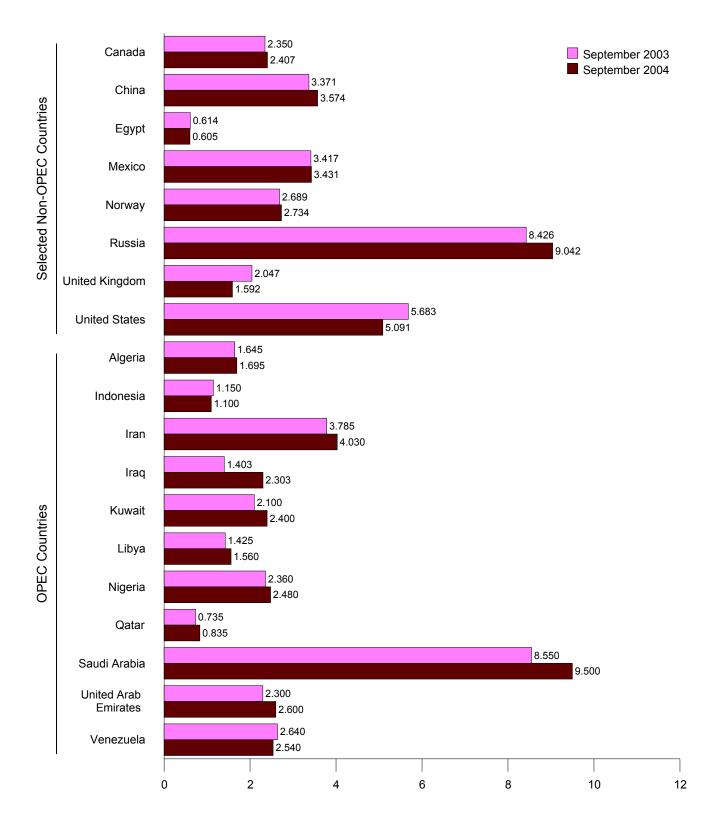
Selected Producers, Monthly



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

Web Page: http://www.eia.doe.gov/emeu/mer/inter.html. Source: Tables 11.1a and 11.b.

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

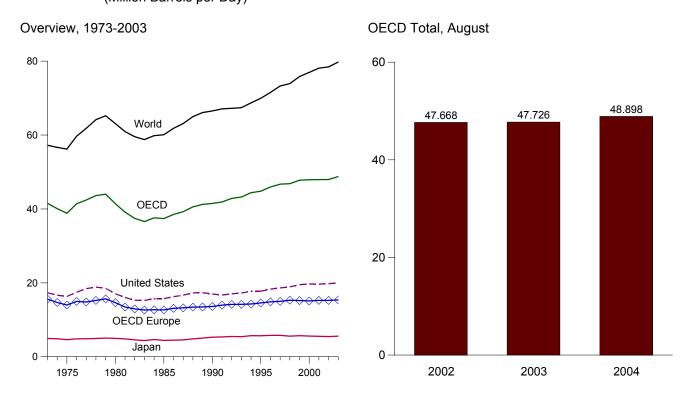


Note: OPEC is the Organization of Petroleum Exporting Countries.

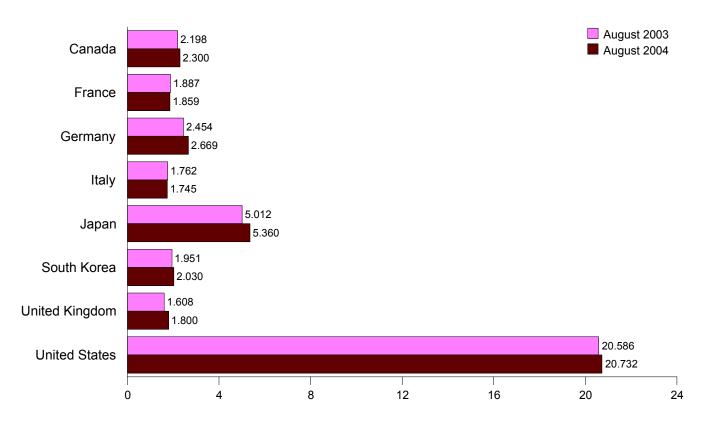
Web Page: http://www.eia.doe.gov/emeu/mer/inter.html.

Sources: Tables 11.1a and 11.1b.

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



By Selected OECD Country



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

Web Page: http://www.eia.doe.gov/emeu/mer/inter.html. Source: Table 11.2.

Table 11.2 Petroleum Consumption in OECD Countries

(Thousand Barrels per Day)

1974 Average		,			,,								
1973 Average 1,729 2,001 3,324 2,088 4,949 281 2,341 17,308 15,508 1,658 41,523 57,237 1974 Average 1,779 2,447 3,030 2,004 4,864 281 2,341 17,308 15,508 1,658 41,623 57,237 1974 Average 1,779 2,447 3,030 2,004 4,864 281 317 1,191 16,322 11,395 1,180 38,822 56,679 1975 Average 1,779 2,447 3,030 1,00										OECD			
1974 Average		Canada	France	Germanya	Italy	Japan	Korea	Kingdom	States	Europeb	OECDc	OECD ^d	World
1974 Average													
1975 Average	1973 Average							2,341					
1976 Average													
1977 Average 1,650 2,294 3,212 1,897 4,880 422 1,995 18,431 41,810 2,033 42,428 61,826 1978 Average 1,502 2,008 3,290 1,552 4,454 545 1,938 1,841 15,247 12,144 43,616 64,158 1980 Average 1,678 2,223 2,041 1,674 4,582 534 1,590 15,088 14,540 2,247 41,408 63,108 1980 Average 1,678 1,680 1,781 4,582 534 1,590 15,089 14,540 2,247 93,141 60,944 1982 Average 1,678 1,781 4,582 534 1,590 15,286 11,295 2,484 37,439 59,443 1983 Average 1,481 1,781 4,582 534 1,590 15,286 11,295 2,484 37,439 59,443 1985 Average 1,536 1,783 2,651 1,786 4,436 552 1,871 15,221 12,655 2,484 37,439 59,443 1985 Average 1,526 1,783 2,651 1,785 4,585 552 1,871 15,281 12,965 2,484 37,439 59,443 1985 Average 1,526 1,783 2,651 1,785 4,585 552 1,871 15,281 12,965 2,484 37,439 59,443 1985 Average 1,526 1,783 2,651 1,785 4,595 520 1,837 16,281 13,114 2,491 38,512 61,826 1987 Average 1,531 1,784 2,792 1,734 4,458 552 1,837 15,281 12,182 2,499 37,382 60,087 1987 Average 1,607 1,788 2,223 1,181 4,567 5,058 80 1,731 17,125 1,182 1,18													56,198
1978 Average 1,902 2,408 3,2290 1,952 4,945 492 1,938 18,847 15,247 2,194 43,616 64,188 1979 Average 1,971 2,408 3,371 2,039 5,060 53,719 1,000											1,946		
1979 Average	1977 Average								18,431				
1980 Average	1978 Average												
1981 Average 1,768 2,023 2,804 1,874 4,848 536 1,590 15,088 13,452 2,479 39,141 60,944 1982 Average 1,578 1,880 2,743 1,781 4,582 536 1,590 15,289 12,965 2,484 37,439 59,484 1,890 1,448 1,833 2,661 1,750 4,436 586 1,528 15,281 12,650 2,303 35,588 58,779 1,785 4,436 586 1,528 1,521 1,265 2,303 35,588 58,779 1,985 4,786 1,528 1,576 4,436 586 1,528 1,521 1,265 1,26													
1982 Average													
1983 Average 1,448 1,835 2,661 1,750 4,395 561 1,531 15,231 12,650 2,303 36,588 58,779 1,794 1,994	1961 Average												
1984 Average 1,520 1,771 2,557 1,720 4,666 554 1,825 15,726 12,727 2,408 37,601 59,829 1986 Average 1,526 1,531 1,754 2,732 1,624 4,936 59,21 1,637 15,226 1,248 2,491 38,512 61,825 1,637 1,6													
1985 Average 1,526 1,753 2,651 1,705 4,436 552 1,617 15,726 12,683 2,469 37,392 60,087 1985 Average 1,531 1,764 2,723 1,734 4,503 552 1,637 16,281 13,114 2,491 38,512 61,826 1987 Average 1,607 1,735 2,723 1,815 4,507 627 61,611 16,656 13,240 2,549 38,255 63,127 1990 Average 1,745 1,844 2,581 1,857 5,058 86 1,731 1,736 1,344 2,249 13,240 2,249 38,255 63,127 1990 Average 1,746 1,826 2,682 1,874 5,296 1,048 1,776 16,388 13,607 2,204 11,499 66,514 1,991 Average 1,674 1,940 2,829 1,862 5,589 1,048 1,527 1,815 1,030 14,149 2,919 42,860 67,236 1992 Average 1,755 1,577 2,908 1,899 5,448 1,525 1,853 1,802 1,733 14,168 2,919 42,860 67,236 1,993 4,993 4,993 1,755 1,777 2,993 1,994 4,995 1,994 4,995 1,995 2,994 1,995 1,995 2,994 2,995													
1986 Average 1,531 1,764 2,792 1,734 4,503 592 1,637 16,625 13,114 2,491 38,8512 61,826 1,827 1,828 1,827 1,828 1,82	1985 Average												
1987 Average													
1988 Average 1,681 1,801 2,723 1,829 4,849 746 1,692 17,283 13,429 2,578 40,567 64,991 9190 Average 1,776 1,846 2,248 1,847 5,256 1,848 1,776 1,698 13,607 2,904 41,489 66,514 9190 4,999 4,99													
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1991 Average 1, 1,674 1,940 2,829 1,862 5,369 1,263 1,802 16,714 13,966 2,897 41,883 67,090 1992 Average 1,775 1,877 2,801 1,881 5,874 1,883 1,527 1,815 17,033 1,4168 2,919 4,2860 67,236 1993 Average 1,775 1,877 2,801 1,881 5,741 1,884 1,829 17,237 14,193 2,942 43,225 67,400 1994 Average 1,775 1,877 2,801 1,881 5,703 1,881 5,703 1,815 17,033 1,7237 14,193 2,942 43,225 66,67 2,736 1,991 1,992 1,992 1,993 1,994 1		1,746	1,826	2,682	1,874	5,296	1,048	1,776	16,988	13,607		41,489	66,514
1993 Average 1,755 1,877 2,908 1,891 5,414 1,684 1,829 17,237 14,193 2,942 43,225 67,400 1995 Average 1,819 1,819 2,882 1,942 5,766 2,008 1,815 17,725 14,4567 3,005 44,799 68,951 1996 Average 1,870 1,949 2,922 1,920 5,785 2,101 1,851 13,091 14,867 3,005 44,799 68,951 1997 Average 1,956 1,956 2,912 1,934 5,797 2,255 1,803 1,809 14,867 2,996 45,922 7,1517 1997 Average 1,956 1,952 2,640 2,932 1,947 2,255 1,803 1,802 1,498 3,091 46,717 73,283 1998 Average 1,956 2,009 2,783 1,947 1,854 5,607 2,135 1,754 1,754 1,754 1,510 3,195 47,789 76,958 2001 Average 2,043 2,051 2,772 1,854 5,607 2,135 1,758 1,758 1,754 15,526 3,210 48,442 NA February 2,117 2,068 2,684 2,032 6,147 2,266 1,797 19,444 15,526 3,210 48,442 NA April 1,966 1,932 2,675 1,828 5,034 2,144 1,786 1,955 1,499 3,319 47,798 NA April 1,966 1,932 2,491 1,814 4,578 1,865 1,865 1,865 1,865 1,447 1,865	1991 Average												
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February 2,117 2,068 2,684 2,032 6,147 2,266 1,797 19,444 15,554 3,418 49,926 NA March 2,072 1,984 1,886 5,555 2,286 1,806 19,676 14,998 3,211 47,798 NA April 1,986 1,932 2,675 1,828 5,034 2,144 1,786 19,552 14,979 3,319 47,013 NA May 2,001 1,785 2,491 1,811 4,638 1,865 1,778 19,728 14,496 3,231 45,958 NA June 2,056 1,936 2,775 1,831 4,721 1,886 1,679 19,875 15,031 3,189 46,757 NA July 2,089 2,093 2,921 1,941 5,199 1,866 1,801 2,076 15,647 3,293 48,171 NA August 2,144 1,865 2,789 1,757 5,170 1,965 1,725 20,221 14,870 3,299 47,668 NA October 2,142 2,069 2,771 1,934 5,273 2,118 1,808 19,678 15,762 3,339 48,313 NA November 2,170 1,978 2,746 1,794 6,099 2,334 1,801 19,991 15,378 3,207 49,197 NA Average 2,079 1,983 2,721 1,870 5,465 2,149 1,756 1,757 19,943 15,255 3,376 49,997 NA Average 2,113 1,927 2,530 1,821 6,241 2,206 1,769 2,017 8,148 1,572 3,414 47,954 NA April 2,166 1,972 2,735 1,884 5,002 1,970 1,740 19,830 8,14,572 3,414 47,954 NA April 2,166 1,972 2,735 1,884 5,002 1,970 1,740 19,830 8,14,823 3,343 47,565 NA April 2,168 1,972 2,735 1,884 5,002 1,970 1,740 19,830 8,15,272 3,414 47,954 NA April 2,168 1,972 2,735 1,884 5,002 1,970 1,740 19,830 8,15,272 3,414 47,954 NA April 2,168 1,885 2,752 1,886 5,073 1,991 1,684 19,344 19,43 13,470 3,488 47,565 NA April 2,168 2,188 2,867 1,986 5,108 1,991 1,684 19,344 1,949 1,949 1,565 1,466 1,479 1,479 1,470	2002 January	2.038	2.213	2.583	1.947	5.811	2.404	1.737	19.454	15.526	3.210	48.442	NA
March 2,072 1,954 2,648 1,866 5,555 2,286 1,806 19,562 14,998 3,211 47,798 NA April 1,1986 1,932 2,675 1,828 5,034 2,144 1,786 19,552 14,979 3,319 47,013 NA May 2,001 1,785 2,491 1,811 4,638 1,865 1,777 18,011 2,0076 1,564 3,231 45,958 NA July 2,089 2,093 2,921 1,941 5,199 1,866 1,807 1,757 15,001 3,189 46,757 NA August 2,144 1,865 2,783 1,757 5,170 1,965 1,725 20,221 1,4870 3,293 48,171 NA September 2,142 2,069 2,771 1,894 5,273 2,118 1,806 1,5762 20,271 3,44 47,562 NA Average 2,079 1,983 2,721 <													
April 1,986 1,932 2,675 1,828 5,034 2,144 1,786 1,9,552 14,979 3,319 47,013 NA May 2,001 1,785 2,491 1,811 4,638 1,865 1,778 19,728 14,496 3,231 45,958 NA June 2,056 1,936 2,775 1,831 4,721 1,886 16,679 19,875 15,031 3,189 46,757 NA July 2,089 2,093 2,921 1,941 5,199 1,866 1,801 20,076 15,647 3,293 48,171 NA August 2,144 1,865 2,789 1,757 5,170 1,965 1,725 20,221 14,870 3,299 47,668 NA September 2,025 1,998 2,933 1,842 5,216 2,107 1,738 19,461 15,471 3,281 47,562 NA October 2,142 2,069 2,771 1,934 5,273 2,118 1,808 19,678 15,762 3,339 48,313 NA November 2,170 1,978 2,746 1,794 6,099 2,334 1,801 19,991 15,378 3,207 49,179 NA Average 2,079 1,983 2,721 1,870 5,465 2,149 1,768 19,761 15,243 3,360 47,978 78,444 2003 January 2,125 2,173 2,359 1,796 6,224 2,520 1,759 20,017 8,152 3,339 8,49,05 NA March 2,113 1,927 2,530 1,821 6,241 2,206 1,742 19,708 8,14,997 3,484 8,503 NA May 2,189 1,885 2,752 1,808 5,073 1,991 1,684 19,344 8,14,973 3,448 8,503 NA May 2,128 2,141 2,641 1,972 2,735 1,834 5,302 1,970 1,740 19,830 8,152 3,343 8,45,031 NA May 2,128 2,141 2,641 1,918 4,994 1,920 1,714 1,934 1,4997 3,448 8,170 NA September 2,218 2,188 2,867 1,954 5,012 1,951 1,755 1,933 1,757 1,943 1,525 3,448 8,470 NA September 2,218 2,188 2,867 1,945 5,102 1,951 1,752 1,933 1,752 3,414 8,4795 NA September 2,226 2,198 2,742 1,924 5,572 2,851 1,808 5,073 1,991 1,884 1,979 8,144,997 3,448 8,47041 NA June 2,111 2,026 2,676 1,870 5,127 2,051 1,844 1,945 1,944 1,944 1,945 1,944		2,072	1,954	2,648	1,866	5,555	2,286	1,806	19,676	14,998	3,211	47,798	NA
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August 2,144 1,865 2,789 1,757 5,170 1,965 1,725 20,221 14,870 3,299 47,668 NA September 2,025 1,998 2,933 1,842 5,216 2,107 1,738 1,9461 15,471 3,281 47,562 NA October 2,142 2,069 2,771 1,934 5,273 2,118 1,808 19,678 15,762 3,339 48,313 NA November 2,170 1,978 2,746 1,794 6,099 2,334 1,801 19,991 15,378 3,207 49,179 NA Average 2,105 1,908 2,642 1,869 6,753 2,555 1,757 19,943 15,255 3,376 49,997 NA Average 2,079 1,983 2,721 1,870 5,465 2,149 1,768 19,761 15,243 3,280 47,978 78,444 2003 January 2,125 2,173 2,359 1,796 6,224 2,520 1,759 20,017 R 15,220 3,299 R 49,405 NA March 2,113 1,927 2,530 1,821 6,241 2,206 1,742 19,708 R 14,892 3,343 R 48,503 NA April 2,166 1,972 2,735 1,834 5,302 1,970 1,740 19,830 R 15,272 3,414 R 47,954 NA May 2,189 1,885 2,752 1,808 5,073 1,991 1,684 19,344 R 14,997 3,448 R 47,041 NA June 2,111 2,026 2,676 1,870 5,127 2,051 1,684 19,783 R 15,100 3,383 R 47,565 NA October 2,168 2,188 2,867 1,945 5,102 2,031 1,759 2,031 1,759 2,168 1,979 3,448 R 47,041 NA October 2,275 2,183 2,742 1,924 5,377 2,203 1,720 2,018 2 R 16,053 3,468 R 47,726 NA October 2,275 2,183 2,742 1,924 5,377 2,203 1,720 2,018 2 R 16,053 3,468 R 47,726 NA October 2,275 2,183 2,742 1,924 5,377 2,203 1,720 2,018 2 R 16,053 3,468 R 48,707 NA October 2,229 2,168 2,591 1,976 6,372 2,489 1,784 2,069 R 15,583 3,55 R 51,196 NA April 2,229 2,168 2,591 1,976 6,372 2,489 1,784 2,069 R 15,833 3,523 R 50,268 NA May 2,188 1,778 2,203 1,870 2,203 1,720 2,018 R 15,103 3,498 R 50,284 NA October 2,229 2,168 2,591 1,976 6,372 2,489 1,784 2,069 R 15,833 3,553 R 50,268 NA May 2,188 1,778 2,340 1,994 3,994 2,248 1,887 2,016 R 16,091 3,498 R 50,284 NA May 2,188 1,778 2,340 1,787 4,803 1,972 1,794 2,009 R 15,833 3,523 R 50,268 NA May 2,188 1,778 2,340 1,787 4,803 1,972 1,794 2,009 R 15,833 8,353 R 48,761 R 779,771 2004 January 2,210 2,122 2,050 2,687 1,965 5,201 1,897 R 1,844 2,060 R 15,573 R 3,491 R 49,171 NA August 2,188 1,778 2,340 1,787 4,803 1,972 1,794 2,009 R 15,803 3,399 R 3,491 R 49,171 NA August 2,246 2,094 2,643 1,843 5,586 2,201 1,897	June											46,757	
September 2,025 1,998 2,933 1,842 5,216 2,107 1,738 19,461 15,471 3,281 47,562 NA October 2,142 2,069 2,771 1,934 5,273 2,118 1,808 19,678 15,762 3,339 48,313 NA November 2,170 1,978 2,746 1,794 6,099 2,334 1,801 19,991 15,378 3,207 49,179 NA December 2,115 1,908 2,642 1,869 6,763 2,555 1,757 19,943 15,255 3,376 49,997 NA Average 2,079 1,983 2,721 1,870 5,465 2,149 1,768 19,761 15,243 3,280 47,978 78,444 2003 January 2,125 2,173 2,359 1,796 6,624 2,520 1,759 20,017 815,220 3,299 849,405 NA February 2,267 2,244 2,688 2,047 6,665 2,408 1,746 20,375 816,060 3,395 851,171 NA March 2,113 1,927 2,530 1,821 6,241 2,206 1,742 19,708 814,892 3,343 848,503 NA April 2,166 1,972 2,735 1,834 5,302 1,970 1,740 19,830 815,272 3,414 847,954 NA May 2,189 1,885 2,752 1,808 5,073 1,991 1,684 19,344 814,997 3,448 847,041 NA July 2,128 2,141 2,641 1,918 4,994 1,920 1,714 20,094 815,511 3,470 848,117 NA August 2,188 1,887 2,454 1,762 5,012 1,951 1,608 20,586 814,644 3,336 84,7706 NA September 2,188 2,188 2,867 1,945 5,108 1,991 1,755 19,933 816,055 3,466 848,720 NA October 2,229 2,168 2,188 2,608 1,808 5,510 2,331 1,737 19,873 815,158 3,355 848,820 NA December 2,239 2,168 2,591 1,976 6,372 2,489 1,784 20,699 815,642 3,575 85,196 NA March 2,230 2,168 2,591 1,976 6,372 2,489 1,784 20,699 815,842 3,575 85,196 NA March 2,230 2,168 2,591 1,976 6,372 2,489 1,784 20,699 815,842 3,575 85,196 NA March 2,230 2,168 2,591 1,976 6,372 2,489 1,784 20,699 815,842 3,575 85,196 NA March 2,230 2,168 2,591 1,976 6,372 2,489 1,784 20,699 815,842 3,575 85,196 NA March 2,307 2,117 2,764 1,949 5,980 2,248 1,887 20,161 816,091 3,488 85,028 NA March 2,307 2,117 2,764 1,949 5,980 2,248 1,887 20,161 816,091 3,488 85,028 NA March 2,307 2,117 2,764 1,949 5,980 2,248 1,887 20,161 816,091 3,488 85,028 NA March 2,246 2,246 2,048 1,851 5,569 2,124 1,993 2,020 814,502 3,349 84,504 NA March 2,230 2,168 2,691 1,965 5,501 1,897 1,884 20,691 815,592 3,349 84,945 NA March 2,246 2,942 82,040 2,668 1,885 5,510 2,331 1,797 20,393 815,593 3,491 84,9171 NA March 2,246 2,942 8	July												
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February 2,267 2,244 2,698 2,047 6,665 2,408 1,746 20,375	Average	2,079	1,903	2,721	1,070	5,465	2,149	1,700	19,761	15,243	3,200	47,976	70,444
February 2,267 2,244 2,698 2,047 6,665 2,408 1,746 20,375	2003 January	2 125	2 173	2 359	1 796	6 224	2 520	1 759	20.017	R 15 220	3 299	R 49 405	NA
March	February												
April 2,166 1,972 2,735 1,834 5,302 1,970 1,740 19,830 R15,272 3,414 R47,954 NA May 2,189 1,885 2,752 1,808 5,073 1,991 1,684 19,344 R14,997 3,448 R47,041 NA June 2,111 2,026 2,676 1,870 5,127 2,051 1,684 19,793 R15,100 3,383 R47,565 NA July 2,128 2,141 2,641 1,918 4,994 1,920 1,714 20,094 R15,511 3,470 R48,117 NA August 2,198 1,887 2,454 1,762 5,012 1,951 1,608 20,586 R14,644 3,336 R47,726 NA September 2,168 2,188 2,867 1,945 5,108 1,991 1,755 19,933 R16,055 3,466 R48,720 NA October 2,275 2,193 2,742 1,924 5,377 2,203 1,720 20,182 R16,014 3,402 R49,454 NA November 2,209 1,928 2,608 1,808 5,510 2,331 1,737 19,873 R15,158 3,355 R48,436 NA December 2,239 2,168 2,591 1,976 6,372 2,489 1,784 20,679 R15,842 3,575 R51,196 NA Average 2,182 2,060 2,636 1,874 5,578 2,168 1,722 20,034 R15,392 3,407 R48,761 R79,771 2004 January 2,219 2,122 2,502 1,796 6,002 2,376 1,797 20,393 R15,205 3,391 R49,585 NA February 2,301 2,159 2,677 1,903 6,203 2,247 1,866 20,549 R15,838 3,523 R50,661 NA April 2,246 2,094 2,643 1,831 5,184 2,041 1,993 20,207 R15,820 3,369 R48,866 NA May 2,188 1,778 2,340 1,787 4,803 1,972 1,794 20,209 R14,502 3,435 R50,661 NA August 2,188 1,778 2,340 1,787 4,803 1,972 1,794 20,209 R14,502 3,435 R47,110 NA June R2,313 2,009 2,641 1,929 4,868 2,033 1,858 20,333 R15,690 3,479 R48,716 NA August 2,242 R2,020 2,687 1,965 5,201 1,897 R1,844 20,601 R15,739 R3,491 R49,171 NA August 2,264 2,018 2,614 1,863 5,447 2,105 1,854 20,398 15,494 3,444 49,152 NA 2003 8-Mo. Avg. 2,264 2,018 2,614 1,863 5,447 2,105 1,854 20,398 15,494 3,444 49,152 NA 2003 8-Mo. Avg. 2,161 2,029 2,664 1,855 5,569 2,124 1,709 19,965 15,202 3,386 48,407 NA	March							1,742					
May 2,189 1,885 2,752 1,808 5,073 1,991 1,684 19,344 R14,997 3,448 R47,041 NA June 2,111 2,026 2,676 1,870 5,127 2,051 1,684 19,793 R15,100 3,383 R47,565 NA July 2,128 2,141 2,641 1,918 4,994 1,920 1,714 20,094 R15,510 3,470 R48,117 NA August 2,198 1,887 2,454 1,762 5,012 1,951 1,608 20,586 R14,644 3,336 R47,726 NA September 2,168 2,188 2,867 1,945 5,108 1,991 1,755 19,933 R16,055 3,466 R48,720 NA October 2,275 2,193 2,742 1,924 5,377 2,203 1,720 20,182 R16,014 3,402 R49,454 NA November 2,209 1,928 2,608 1,808 5,510 2,331 1,737 19,873 R15,158 3,355 R48,436 NA December 2,239 2,168 2,591 1,976 6,372 2,489 1,784 20,679 R15,842 3,575 R51,196 NA Average 2,182 2,060 2,636 1,874 5,578 2,168 1,722 20,034 R15,392 3,407 R48,761 R79,771 2004 January 2,219 2,122 2,502 1,796 6,002 2,376 1,797 20,393 R15,205 3,391 R49,585 NA February 2,301 2,159 2,677 1,903 6,203 2,247 1,866 20,549 R15,838 3,523 R50,661 NA March 2,307 2,117 2,764 1,949 5,980 2,248 1,887 20,161 R16,091 3,498 R50,284 NA April 2,307 2,117 2,764 1,949 5,980 2,248 1,887 20,161 R16,091 3,498 R50,284 NA April 2,307 2,117 2,764 1,949 5,980 2,248 1,887 20,161 R16,091 3,498 R50,284 NA April 2,313 2,009 2,641 1,993 4,868 2,033 1,858 20,333 R15,690 3,479 R48,761 NA June R2,313 2,009 2,641 1,929 4,868 2,033 1,858 20,333 R15,690 3,479 R48,716 NA July R2,242 R2,020 2,687 1,965 5,201 1,897 R1,844 20,601 R15,739 R3,491 R49,171 NA August 2,300 1,859 2,669 1,745 5,560 2,030 1,800 20,732 15,106 3,369 48,898 NA 8-Mo. Avg 2,264 2,018 2,614 1,863 5,447 2,105 1,854 20,398 15,494 3,444 49,152 NA 2003 8-Mo. Avg 2,161 2,029 2,604 1,855 5,569 2,124 1,709 19,965 15,202 3,386 48,407 NA	April												
June 2,111 2,026 2,676 1,870 5,127 2,051 1,684 19,793	May	2,189	1,885	2,752	1,808	5,073	1,991	1,684	19,344	R 14,997	3,448	R 47,041	NA
July 2,128 2,141 2,641 1,918 4,994 1,920 1,714 20,094 15,511 3,470 148,117 NA August 2,198 1,887 2,454 1,762 5,012 1,951 1,608 20,586 14,644 3,336 147,726 NA September 2,168 2,188 2,867 1,945 5,108 1,991 1,755 19,933 16,055 3,466 148,720 NA October 2,275 2,193 2,742 1,924 5,377 2,203 1,720 20,182 16,014 3,402 149,454 NA November 2,209 1,928 2,608 1,808 5,510 2,331 1,737 19,873 15,158 3,355 148,436 NA December 2,239 2,168 2,591 1,976 6,372 2,489 1,784 20,679 15,842 3,575 1851,196 NA Average 2,182 2,060 2,636 1,874 5,578 2,168 1,722 20,034 15,392 3,407 148,761 179,771 2004 January 2,219 2,122 2,502 1,796 6,002 2,376 1,797 20,393 15,392 3,407 148,761 179,771 2004 January 2,301 2,159 2,677 1,903 6,203 2,247 1,866 20,549 15,838 3,523 150,661 NA March 2,307 2,117 2,764 1,949 5,980 2,248 1,887 20,161 1816,091 3,498 150,284 NA April 2,246 2,094 2,643 1,831 5,184 2,041 1,993 20,207 15,820 3,369 148,866 NA May 2,188 1,778 2,340 1,787 4,803 1,972 1,794 20,209 114,502 3,435 147,110 NA June 12,313 2,009 2,641 1,929 4,868 2,033 1,858 20,333 15,690 3,479 148,716 NA August 2,264 2,018 2,614 1,929 4,868 2,033 1,858 20,333 15,690 3,479 1848,716 NA August 2,264 2,018 2,614 1,863 5,447 2,105 1,854 20,398 15,494 3,444 49,152 NA 2003 8-Mo. Avg. 2,161 2,029 2,604 1,855 5,569 2,124 1,709 19,965 15,202 3,386 48,407 NA	June	2,111	2,026	2,676	1,870	5,127	2,051	1,684	19,793	^R 15,100	3,383	^R 47,565	NA
August 2,198 1,887 2,454 1,762 5,012 1,951 1,608 20,586 H14,644 3,336 H47,726 NA September 2,168 2,188 2,867 1,945 5,108 1,991 1,755 19,933 H16,055 3,466 H48,720 NA October 2,275 2,193 2,742 1,924 5,377 2,203 1,720 20,182 H16,014 3,402 H49,454 NA November 2,209 1,928 2,608 1,808 5,510 2,331 1,737 19,873 H15,158 3,355 H48,436 NA December 2,239 2,168 2,591 1,976 6,372 2,489 1,784 20,679 H15,842 3,575 H51,196 NA Average 2,182 2,060 2,636 1,874 5,578 2,168 1,722 20,034 H15,392 3,407 H48,761 H79,771 2004 January 2,219 2,122 2,502 1,796 6,002 2,376 1,792 20,034 H15,392 3,407 H48,761 H79,771 2004 January 2,219 2,122 2,502 1,796 6,002 2,376 1,797 20,393 H15,205 3,391 H49,585 NA February 2,301 2,159 2,677 1,903 6,203 2,247 1,866 20,549 H15,838 3,523 H50,661 NA March 2,307 2,117 2,764 1,949 5,980 2,248 1,887 20,161 H16,091 3,498 H50,284 NA April 2,246 2,094 2,643 1,831 5,184 2,041 1,993 20,207 H15,820 3,369 H48,866 NA May 2,188 1,778 2,340 1,787 4,803 1,972 1,794 20,209 H14,502 3,435 H47,110 NA June H2,313 2,009 2,641 1,929 4,868 2,033 1,858 20,333 H15,690 3,479 H48,716 NA July H2,242 H2,020 2,687 1,965 5,201 1,897 H1,844 20,601 H15,739 H3,491 H49,171 NA August 2,264 2,018 2,614 1,863 5,447 2,105 1,854 20,398 15,494 3,444 49,152 NA 2003 8-Mo. Avg. 2,161 2,029 2,604 1,855 5,569 2,124 1,709 19,965 15,202 3,386 48,407 NA	July									^R 15,511		R 48,117	
September 2,168 2,188 2,867 1,945 5,108 1,991 1,755 19,933 #16,055 3,466 #48,720 NA October 2,275 2,193 2,742 1,924 5,377 2,203 1,720 20,182 #16,014 3,402 #49,454 NA November 2,209 1,928 2,608 1,808 5,510 2,331 1,737 19,873 #15,158 3,355 #48,436 NA December 2,239 2,168 2,591 1,976 6,372 2,489 1,784 20,679 #15,158 3,355 #8,761 #79,771 2004 January 2,182 2,060 2,636 1,874 5,578 2,168 1,722 20,034 #15,392 3,407 #48,761 #79,771 2004 January 2,219 2,122 2,502 1,796 6,002 2,376 1,797 20,393 #15,892 3,391 #49,585 NA February 2,301 2,159	August									^R 14,644		H 47,726	
November 2,209 1,928 2,608 1,808 5,510 2,331 1,737 19,873 R 15,158 3,355 R 48,436 NA December 2,239 2,168 2,591 1,976 6,372 2,489 1,784 20,679 R 15,158 3,355 R 48,436 NA Average 2,182 2,060 2,636 1,874 5,578 2,168 1,722 20,034 R 15,392 3,407 R 48,761 R 79,771 2004 January 2,219 2,122 2,502 1,796 6,002 2,376 1,797 20,393 R 15,205 3,391 R 49,585 NA February 2,301 2,159 2,677 1,903 6,203 2,247 1,866 20,549 R 15,838 3,523 R 50,661 NA March 2,307 2,117 2,764 1,949 5,980 2,248 1,887 20,161 R 16,091 3,498 R 50,284 NA April 2,246 2,094 <t< th=""><th></th><th></th><th></th><th></th><th></th><th></th><th></th><th></th><th></th><th>^R 16,055</th><th></th><th></th><th></th></t<>										^R 16,055			
December 2,239 2,168 2,591 1,976 6,372 2,489 1,784 20,679 F15,842 3,575 F51,196 NA Average 2,182 2,060 2,636 1,874 5,578 2,168 1,722 20,034 F15,392 3,407 F48,761 F79,771 2004 January 2,219 2,122 2,502 1,796 6,002 2,376 1,797 20,393 F15,205 3,391 F49,585 NA February 2,301 2,159 2,677 1,903 6,203 2,247 1,866 20,549 F15,838 3,523 F50,661 NA March 2,307 2,117 2,764 1,949 5,980 2,248 1,887 20,161 F16,091 3,498 F50,284 NA April 2,246 2,094 2,643 1,831 5,184 2,041 1,993 20,207 F15,820 3,369 F48,866 NA May 2,188 1,778 2,340 1,787 4,803 1,972 1,794 20,209 F14,502 3,435 F47,110 NA June F2,313 2,009 2,641 1,929 4,868 2,033 1,858 20,333 F15,690 3,479 F48,716 NA July F2,242 F2,020 2,687 1,965 5,201 1,897 F1,844 20,601 F15,739 F3,491 F49,171 NA August 2,300 1,859 2,669 1,745 5,360 2,030 1,800 20,732 15,106 3,369 48,898 NA 8-Mo. Avg. 2,161 2,029 2,604 1,855 5,569 2,124 1,709 19,965 15,202 3,386 48,407 NA												^H 49,454	
Average 2,182 2,060 2,636 1,874 5,578 2,168 1,722 20,034 # 15,392 3,407 # 48,761 # 79,771 2004 January 2,219 2,122 2,502 1,796 6,002 2,376 1,797 20,393 # 15,205 3,391 # 49,585 NA February 2,301 2,159 2,677 1,903 6,203 2,247 1,866 20,549 # 15,838 3,523 # 50,661 NA March 2,307 2,117 2,764 1,949 5,980 2,248 1,887 20,161 # 16,091 3,498 # 50,284 NA April 2,246 2,094 2,643 1,831 5,184 2,041 1,993 20,207 # 15,820 3,349 # 48,866 NA May 2,188 1,778 2,340 1,787 4,803 1,972 1,794 20,209 # 14,502 3,435 # 47,110 NA July # 2,213 2,020 2,687 1,965 5,201 1,887 1,844 20,601 # 15,739 # 3,491<												ⁿ 48,436	
2004 January 2,219 2,122 2,502 1,796 6,002 2,376 1,797 20,393 815,205 3,391 849,585 NA February 2,301 2,159 2,677 1,903 6,203 2,247 1,866 20,549 815,838 3,523 850,661 NA March 2,307 2,117 2,764 1,949 5,980 2,248 1,887 20,161 816,091 3,498 850,284 NA April 2,246 2,094 2,643 1,831 5,184 2,041 1,993 20,207 815,820 3,369 848,866 NA May 2,188 1,778 2,340 1,787 4,803 1,972 1,794 20,209 814,502 3,435 847,110 NA June 82,313 2,009 2,641 1,929 4,868 2,033 1,858 20,333 815,690 3,479 848,716 NA July 82,242 82,020 2,687 1,965 5,201 1,897 81,844 20,601 815,739 83,491 849,171 NA August 2,300 1,859 2,669 1,745 5,360 2,030 1,800 20,732 15,106 3,369 48,898 NA 8-Mo. Avg. 2,264 2,018 2,614 1,863 5,447 2,105 1,854 20,398 15,494 3,444 49,152 NA										n 15,842		ⁿ 51,196	
February 2,301 2,159 2,677 1,903 6,203 2,247 1,866 20,549 F15,838 3,523 F50,661 NA March 2,307 2,117 2,764 1,949 5,980 2,248 1,887 20,161 F16,091 3,498 F50,284 NA April 2,246 2,094 2,643 1,831 5,184 2,041 1,993 20,207 F15,820 3,369 F48,866 NA May 2,188 1,778 2,340 1,787 4,803 1,972 1,794 20,209 F14,502 3,435 F47,110 NA June F2,313 2,009 2,641 1,929 4,868 2,033 1,858 20,333 F15,690 3,479 F48,716 NA July F2,242 F2,020 2,687 1,965 5,201 1,897 F1,844 20,601 F15,739 F3,491 F49,171 NA August 2,300 1,859 2,669 1,745 5,360 2,030 1,800 20,732 15,106 3,369 48,898 NA 8-Mo. Avg 2,264 2,018 2,614 1,863 5,447 2,105 1,854 20,398 15,494 3,444 49,152 NA	Average	2,182	2,060	2,636	1,874	5,578	2,168	1,722	20,034	¹¹ 15,392	3,407	¹¹ 48,761	¹¹ 79,771
February 2,301 2,159 2,677 1,903 6,203 2,247 1,866 20,549 F15,838 3,523 F50,661 NA March 2,307 2,117 2,764 1,949 5,980 2,248 1,887 20,161 F16,091 3,498 F50,284 NA April 2,246 2,094 2,643 1,831 5,184 2,041 1,993 20,207 F15,820 3,369 F48,866 NA May 2,188 1,778 2,340 1,787 4,803 1,972 1,794 20,209 F14,502 3,435 F47,110 NA June F2,313 2,009 2,641 1,929 4,868 2,033 1,858 20,333 F15,690 3,479 F48,716 NA July F2,242 F2,020 2,687 1,965 5,201 1,897 F1,844 20,601 F15,739 F3,491 F49,171 NA August 2,300 1,859 2,669 1,745 5,360 2,030 1,800 20,732 15,106 3,369 48,898 NA 8-Mo. Avg 2,264 2,018 2,614 1,863 5,447 2,105 1,854 20,398 15,494 3,444 49,152 NA	2004 January	2 210	2 122	2 502	1 706	6.002	2 276	1 707	30 303	R 15 205	3 301	R 40 585	NΙΛ
March 2,307 2,117 2,764 1,949 5,980 2,248 1,887 20,161 F16,091 3,498 F50,284 NA April 2,246 2,094 2,643 1,831 5,184 2,041 1,993 20,207 F15,820 3,369 F48,866 NA May 2,188 1,778 2,340 1,787 4,803 1,972 1,794 20,209 F14,502 3,435 F47,110 NA June F2,313 2,009 2,641 1,929 4,868 2,033 1,858 20,333 F15,690 3,479 F48,716 NA July F2,242 F2,020 2,687 1,965 5,201 1,897 F1,844 20,601 F15,739 F3,491 F49,171 NA August 2,300 1,859 2,669 1,745 5,360 2,030 1,800 20,732 15,106 3,369 48,898 NA 8-Mo. Avg 2,264 2,018 2,614 1,863 5,447 2,105 1,854 20,398 15,494 3,444 49,152										R 15,203		R 50 661	
April 2,246 2,094 2,643 1,831 5,184 2,041 1,993 20,207 R 15,820 3,369 R 48,866 NA May 2,188 1,778 2,340 1,787 4,803 1,972 1,794 20,209 R 14,502 3,435 R 47,110 NA June R 2,313 2,009 2,641 1,929 4,868 2,033 1,858 20,333 R 15,690 3,479 R 48,716 NA July R 2,242 R 2,020 2,687 1,965 5,201 1,897 R 1,844 20,601 R 15,739 R 3,491 R 49,171 NA August 2,300 1,859 2,669 1,745 5,360 2,030 1,800 20,732 15,106 3,369 48,898 NA 8-Mo. Avg 2,264 2,018 2,614 1,863 5,447 2,105 1,854 20,398 15,494 3,444 49,152 NA 2003 8-Mo. Avg 2,161 2,029 2,604 1,855 5,569 2,124 1,709 19,965 15,202 3,386										R 16 091		R 50 284	
May 2,188 1,778 2,340 1,787 4,803 1,972 1,794 20,209 \$\bar{1}4,502 3,435 \$\bar{1}4,710 NA June \$\bar{2},213 2,009 2,641 1,929 4,868 2,033 1,858 20,333 \$\bar{1}5,690 3,479 \$\bar{4}8,716 NA July \$\bar{2},242 \$\bar{2},020 2,687 1,965 5,201 1,887 \$\bar{1}8,44 20,601 \$\bar{1}5,739 \$\bar{3},491 \$\bar{4}9,171 NA August 2,300 1,859 2,669 1,745 5,360 2,030 1,800 20,732 15,106 3,369 48,898 NA 8-Mo. Avg 2,264 2,018 2,614 1,863 5,447 2,105 1,854 20,398 15,494 3,444 49,152 NA 2003 8-Mo. Avg 2,161 2,029 2,604 1,855 5,569 2,124 1,709 19,965 15,202 3,386 48,407 NA										R 15 820		R 48 866	
June R2,313 2,009 2,641 1,929 4,868 2,033 1,858 20,333 R15,690 3,479 R48,716 NA July R2,242 R2,020 2,687 1,965 5,201 1,897 R1,844 20,601 R15,739 R3,491 R49,171 NA August 2,300 1,859 2,669 1,745 5,360 2,030 1,800 20,732 15,106 3,369 48,898 NA 8-Mo. Avg 2,264 2,018 2,614 1,863 5,447 2,105 1,854 20,398 15,494 3,444 49,152 NA		2 188								R 14 502		R 47 110	
July		R 2.313								R 15.690		R 48.716	
August		R 2.242						R 1.844		R 15.739	R 3,491	R 49,171	
8-Mo. Avg 2,264 2,018 2,614 1,863 5,447 2,105 1,854 20,398 15,494 3,444 49,152 NA 2003 8-Mo. Avg 2,161 2,029 2,604 1,855 5,569 2,124 1,709 19,965 15,202 3,386 48,407 NA											3,369		
2003 8-Mo. Avg 2,161 2,029 2,604 1,855 5,569 2,124 1,709 19,965 15,202 3,386 48,407 NA													
	_				,						•	*	
2002 8-Mo. Avg 2,062 1,980 2,696 1,875 5,277 2,084 1,763 19,757 15,131 3,269 47,581 NA	2003 8-Mo. Avg												
	2002 8-Mo. Avg	2,062	1,980	2,696	1,875	5,277	2,084	1,763	19,757	15,131	3,269	47,581	NA

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

a Data are to turning Schman, Germany, OECD Europe" consists of Austria, Belgium, Czech Republic (beginning in 1993), Denmark, Finland, France, Germany, Greece, Hungary, Iceland, Ireland, Italy, Luxembourg, the Netherlands, Norway, Poland, Portugal, Spain, Sweden, Switzerland, Turkey, and the United Kingdom.

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

Territories.

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

R=Revised. NA=Not available.

Notes: • Data through 1996 are final. Subsequent data are preliminary.

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

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

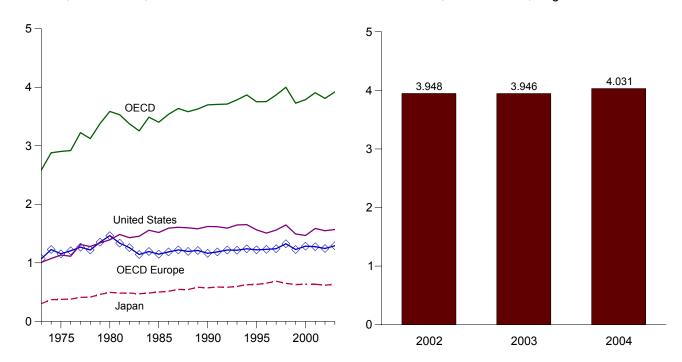
Web Page: http://www.eia.doe.gov/emeu/mer/inter.html.

Sources: • United States: Table 3.1a. • All Other Data: 1973-1981—International Energy Agency (IEA), Quarterly Oil Statistics and Energy Balances in OECD Countries, various issues. 1982-1983—IEA, Monthly Oil and Gas Statistics Database. 1984-2004—IEA, Monthly Oil Data Service, July 13, 2004.

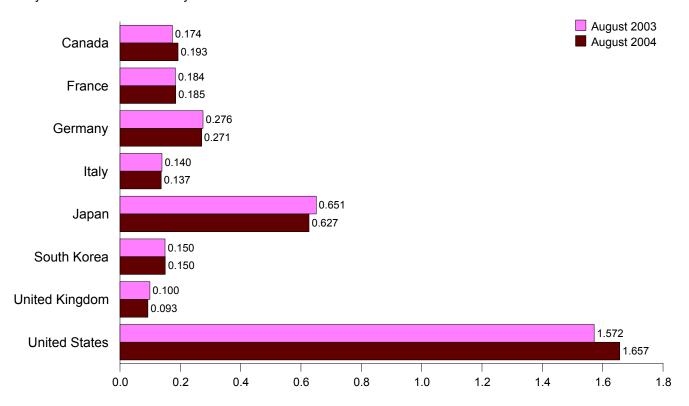
Figure 11.3 Petroleum Stocks in OECD Countries (Billion Barrels)

Overview, End of Year, 1973-2003

OECD Stocks, End of Month, August



By Selected OECD Country



Note: OECD is the Organization for Economic Cooperation and Development.

Web Page: http://www.eia.doe.gov/emeu/mer/inter.html. Source: Table 11.3.

Table 11.3 Petroleum Stocks in OECD Countries

(Million Barrels)

	Canada	France	Germanya	Italy	Japan	South Korea ^b	United Kingdom	United States	OECD Europe ^c	Other OECD ^d	OECDe
4070 1/	440	204	404	450			450	4 000	4.070		
1973 Year		201	181	152	303	NA	156	1,008	1,070	67	2,588
1974 Year		249 225	213 187	167 143	370 375	NA NA	191 165	1,074 1,133	1,227 1,154	64 67	2,880 2,903
1975 Year 1976 Year		234	208	143	380	NA NA	165	1,112	1,154	68	2,903 2,918
1977 Year		234	206 225	161	409	NA NA	148	1,312	1,205	68	3,224
1978 Year	144	201	238	154	413	NA NA	157	1,278	1,219	68	3,122
1979 Year	150	226	272	163	460	NA	169	1,341	1,353	75	3,379
1980 Year		243	319	170	495	NA	168	1,392	1,464	72	3,587
1981 Year		214	297	167	482	NA	143	1.484	1.337	67	3.531
1982 Year	136	193	272	179	484	NA	125	1,430	1,258	68	3,376
1983 Year	121	153	249	149	470	NA	118	1,454	1,142	68	3,255
1984 Year	129	153	280	158	483	NA	129	1,556	1,193	112	3,488
1985 Year	112	139	277	156	500	NA	131	1,519	1,148	110	3,402
1986 Year	. 111	127	295	154	514	NA	133	1,593	1,186	113	3,538
1987 Year	. 128	127	304	168	545	NA	133	1,607	1,221	115	3,637
1988 Year	119	140	303	155	543	NA	126	1,597	1,194	114	3,583
1989 Year	. 118	138	310	162	582	NA	131	1,581	1,211	114	3,629
1990 Year	143	143	265	143	572	NA	103	1,621	1,163	117	3,700
1991 Year	140	<u> 161</u>	288	134	586	NA	109	1,617	1,185	113	3,707
1992 Year	127	157	311	149	582	NA	104	1,592	1,219	115	3,712
1993 Year	128	153	310	139	597	NA	109	1,647	1,215	115	3,785
1994 Year		153	314	143	625	NA	109	1,653	1,239	114	3,869
1995 Year		155	302	141	631	NA	101 103	1,563	1,222	113	3,753
1996 Year	127 144	154 161	303 299	135 147	651 685	NA 124	103	1,507 1,560	1,229 1,241	118 115	3,756 3,869
1997 Year 1998 Year		161	323	135	649	129	104	1,647	1,325	111	4.000
1999 Year		160	290	130	629	132	104	1,493	1,323	105	3,727
2000 Year	144	170	272	140	634	140	100	1,468	1,285	117	3,788
2001 Year		165	273	134	634	143	116	1,586	1,275	112	3,906
2002 January	156	164	277	140	631	142	116	1 501	1.304	114	3.937
2002 January February		167	277 276	138	620	137	114	1,591 1,576	1,304	116	3,937
March		163	276 276	132	630	144	109	1,573	1,310	110	3,910
April		164	276	133	624	140	111	1,588	1,204	114	3,902
May		173	274	136	626	144	108	1,611	1,291	110	3,936
June		170	269	132	634	154	116	1.616	1.289	112	3.960
July		169	264	137	633	153	116	1,611	1,283	111	3.949
August		171	264	142	633	152	108	1,596	1,281	123	3,948
September		174	259	136	627	149	107	1,574	1,261	115	3,889
October		176	254	140	628	150	113	1,573	1,282	111	3,906
November	. 159	170	253	143	616	149	113	1,578	1,260	114	3,876
December	155	175	253	138	615	140	105	1,548	R 1,245	105	R 3,810
2003 January	155	170	265	140	618	140	105	1.504	R 1,251	107	R 3.774
February	150	162	260	128	614	140	103	1.460	R 1,221	110	R 3,695
March		175	266	136	619	137	105	1,474	R 1.272	115	R 3,773
April		174	266	139	619	141	106	1,496	R 1,276	104	3,797
May		180	267	137	632	142	108	1,533	R 1,269	110	R 3,849
June		173	268	135	647	152	101	1,560	1,265	107	3,899
July	. 174	174	270	136	650	158	103	1,570	R 1,273	103	R 3,930
August	. 174	184	276	140	651	150	100	1,572	R 1,298	101	R 3,946
September		179	266	141	654	155	98	1,598	R 1,282	103	R 3,968
October		176	269	139	642	148	98	1,602	R 1,277	99	R 3,945
November	. 175	183	272	139	636	149	106	1,598	^R 1,298	107	R 3,962
December	175	185	272	135	636	155	102	1,568	1,291	96	3,921
2004 January	171	183	277	132	631	143	105	1,552	1,309	99	3,904
February	. 170	178	275	132	625	151	102	1,547	1,284	100	3,877
March		176	270	136	614	143	101	1,566	1,287	.97	3,879
April	. 171	181	267	134	612	148	98	1,574	1,272	108	R 3,886
May		186	270	131	625	146	98	1,600	1,288	104	R 3,928
June		184	267	135	622	153	R 98	1,629	R 1,287	99	R 3,962
July		R 184	269	133	630	154	102	1,647	R 1,286	99	R 3,996
August	193	185	271	137	627	150	93	1,657	1,305	99	4,031

R=Revised. NA=Not available.

Notes: • Stocks are at end of period. • Petroleum stocks include crude oil (including strategic reserves), unfinished oils, natural gas plant liquids, and refined

products. Petroleum stocks include all nonmilitary petroleum held for storage, regardless of ownership, within each country in bulk terminals, refinery tanks, pipeline tankage, intercoastal tankers, tankers in port, and inland ship bunkers. Data exclude oil held in pipelines (except for those in the United States), rail and truck cars, sea-going ships' bunkers, service stations, retail stores, and tankers 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.

Web Page: http://www.eia.doe.gov/emey/mer/inter.html.

Web Page: http://www.eia.doe.gov/emeu/mer/inter.html.
Sources: • United States: Table 3.1a. • All Other Data: International Energy Agency, quarterly and monthly computer tapes supporting Quarterly Oil Statistics and Energy Balances.

^a Through December 1990, the data for Germany are for the former West Germany only. Beginning with January 1991, the data for Germany are for the unified Germany, i.e., the former East Germany and West Germany.

^b Beginning in January 2002, data include previously confidential South Korean government-controlled oil stocks.

^c "OECD Europe" consists of Austria, Belgium, Denmark, Finland, France, Germany, Greece, Iceland, Ireland, Italy, Luxembourg, the Netherlands, Norway, Portugal, Spain, Sweden, Switzerland, Turkey, and the United Kingdom, and, for 1997 forward, Czech Republic, Hungary, and Poland.

^d "Other OECD" consists of Australia, New Zealand, and the U.S. Territories, and for 1997 forward Mexico.

and, for 1997 forward, Mexico.

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

International Petroleum

Tables 11.1a and 11.1b Sources

United States: See Table 3.1a.

All Other Countries: Monthly Data

2002 forward: Energy Information Administration (EIA),

International Petroleum Monthly.

All Other Countries: Annual Data

1973–1979: Energy Information Administration (EIA), *International Energy Annual 1981*, Table 8.

1980–2002: Office of Energy Markets and End Use,

International Energy Database, February 2004.

2003: Average of monthly data.

World: Monthly Data

2002 forward: EIA, *International Petroleum Monthly*, sum of all countries' monthly data.

World: Annual Data

1973–1979: EIA, International Energy Annual 1981, Table

1980–2002: Office of Energy Markets and End Use,

International Energy Database, February 2004.

2003: Average of monthly data.

Appendix A. Thermal Conversion Factors

The thermal conversion factors presented in the following tables can be used to estimate the heat content in British thermal units (Btu) of a given amount of energy measured in physical units, such as barrels or cubic feet. For example, 10 barrels of asphalt has a heat content of approximately 66.36 million Btu (10 barrels x 6.636 million Btu per barrel = 66.36 million Btu).

The heat content rates (i.e., thermal conversion factors) provided in this section represent the gross (or upper) energy content of the fuels. Gross heat content rates are applied in all Btu calculations for the *Monthly Energy Review* and are commonly used in energy calculations in the United States; net (or lower) heat content rates are typically used in European energy calculations. The difference between the two rates is the amount of energy that is consumed to vaporize water that is created during the combustion process. Generally, the difference ranges from 2 percent to 10 percent, depending on the specific fuel and its hydrogen content. Some fuels, such as unseasoned wood, can be more than 40 percent different in their gross

and net heat content rates. See **British Thermal Unit** (**Btu**) in the Glossary for more information.

Thermal conversion factors for hydrocarbon mixes (Table A1) are weighted averages of the thermal conversion factors for each hydrocarbon included in the mix. For example, in calculating the thermal conversion factor for a 60-40 butane-propane mixture, the thermal conversion factor for butane is weighted 1.5 times the thermal conversion factor for propane.

In general, the annual thermal conversion factors presented in Tables A2 through A6 are computed from final annual data or from the best available data and labeled "preliminary." Often, the previous year's factor is used as a preliminary value until data become available to calculate the factor appropriate to the year. The source of each factor is described in the section entitled "Thermal Conversion Factor Source Documentation," which follows Table A6 in this appendix.

Table A1. Approximate Heat Content of Petroleum Products (Million Btu per Barrel)

Petroleum Product	Heat Content	Petroleum Product	Heat Content
Asphalt	6.636	Natural Gasoline and Isopentane	4.620
Aviation Gasoline	5.048	Pentanes Plus	4.620
Butane	4.326	Petrochemical Feedstocks	
Butane-Propane Mixture ^a	4.130	Naptha Less Than 401°F	5.248
Distillate Fuel Oil	5.825	Other Oils Equal to or Greater Than 401°F	5.825
Ethane	3.082	Still Gas	6.000
Ethane-Propane Mixture ^b	3.308	Petroleum Coke	6.024
Isobutane	3.974	Plant Condensate	5.418
Jet Fuel, Kerosene Type	5.670	Propane	3.836
Jet Fuel, Naphtha Type	5.355	Residual Fuel Oil	6.287
Kerosene	5.670	Road Oil	6.636
Lubricants	6.065	Special Naphthas	5.248
Motor Gasoline		Still Gas	6.000
Conventional ^c	5.253	Unfinished Oils	5.825
Reformulated ^c	5.150	Unfractionated Stream	5.418
Oxygenated ^c	5.150	Waxes	5.537
Fuel Ethanold	3.539	Miscellaneous	5.796

^a 60 percent butane and 40 percent propane

^b 70 percent ethane and 30 percent propane

[°] See Table A3 for motor gasoline annual weighted averages beginning in 1994.

^d Fuel ethanol, which is derived from agricultural feedstocks (primarily corn), is not a petroleum product but is blended into motor gasoline. Its gross heat content (3.539 million Btu per barrel) is used in *Monthly Energy Review* calculations; its net heat content (3.192 million Btu per barrel) is used in the Energy Information Administration's *Renewable Energy Annual* calculations.

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

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

Table A2. Approximate Heat Content of Petroleum Production, Imports, and Exports (Million Btu per Barrel)

	Pro	duction		Imports			Exports	
	Crude Oil	Natural Gas Plant Liquids	Crude Oil	Petroleum Products	Total	Crude Oil	Petroleum Products	Total
973	5.800	4.049	5.817	5.983	5.897	5.800	5.752	5.752
974	5.800	4.011	5.827	5.959	5.884	5.800	5.773	5.774
975	5.800	3.984	5.821	5.935	5.858	5.800	5.747	5.748
976	5.800	3.964	5.808	5.980	5.856	5.800	5.743	5.745
977	5.800	3.941	5.810	5.908	5.834	5.800	5.796	5.797
978	5.800	3.925	5.802	5.955	5.839	5.800	5.814	5.808
979	5.800	3.955	5.810	5.811	5.810	5.800	5.864	5.832
980	5.800	3.914	5.812	5.748	5.796	5.800	5.841	5.820
981	5.800	3.930	5.818	5.659	5.775	5.800	5.837	5.821
982	5.800	3.872	5.826	5.664	5.775	5.800	5.829	5.820
983	5.800	3.839	5.825	5.677	5.774	5.800	5.800	5.800
984	5.800	3.812	5.823	5.613	5.745	5.800	5.867	5.850
985	5.800	3.815	5.832	5.572	5.736	5.800	5.819	5.814
986	5.800	3.797	5.903	5.624	5.808	5.800	5.839	5.832
987	5.800	3.804	5.901	5.599	5.820	5.800	5.860	5.858
988	5.800	3.800	5.900	5.618	5.820	5.800	5.842	5.840
989	5.800	3.826	5.906	5.641	5.833	5.800	5.869	5.857
990	5.800	3.822	5.934	5.614	5.849	5.800	5.838	5.833
991	5.800	3.807	5.948	5.636	5.873	5.800	5.827	5.823
992	5.800	3.804	5.953	5.623	5.877	5.800	5.774	5.777
993	5.800	3.801	5.954	5.620	5.883	5.800	5.777	5.779
994	5.800	3.794	5.950	5.534	5.861	5.800	5.777	5.779
995	5.800	3.796	5.938	5.483	5.855	5.800	5.740	5.746
996	5.800	3.777	5.947	5.468	5.847	5.800	5.728	5.736
997	5.800	3.762	5.954	5.469	5.862	5.800	5.726	5.734
998	5.800	3.769	5.953	5.462	5.861	5.800	5.710	5.720
999	5.800	3.744	5.942	5.421	5.840	5.800	5.684	5.699
000	5.800	3.733	5.959	5.432	5.849	5.800	5.651	5.658
001	5.800	3.735	5.976	5.443	5.862	5.800	5.751	5.752
2002	5.800	3.729	5.971	5.451	5.863	5.800	5.687	5.688
2003	5.800	3.739	5.970	5.438	5.857	5.800	5.739	5.740
2004 ^E	5.800	3.739	5.970	5.438	5.857	5.800	5.739	5.740

E=Estimate.

Note: Crude oil includes lease condensate.

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

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

Table A3. Approximate Heat Content of Petroleum Consumption

(Million Btu per Barrel)

	Total Petroleum ^a							
	End-Use Sectors				Electric Power		Liquefied Petroleum	Motor
	Residential	Commercial	Industrial	Transportation	Sector ^b	Total	Gases	Gasoline
1973	5.205	5.749	5.568	5.395	6.245	5.515	3.746	5.253
1974	5.196	5.740	5.538	5.394	6.238	5.504	3.730	5.253
1975	5.192	5.704	5.528	5.392	6.250	5.494	3.715	5.253
1976	5.215	5.726	5.538	5.395	6.251	5.504	3.711	5.253
1977	5.213	5.733	5.555	5.400	6.249	5.518	3.677	5.253
1978	5.213	5.716	5.553	5.404	6.251	5.519	3.669	5.253
1979	5.298	5.769	5.418	5.428	6.258	5.494	3.680	5.253
1980	5.245	5.803	5.376	5.440	6.254	5.479	3.674	5.253
1981	5.191	5.751	5.313	5.432	6.258	5.448	3.643	5.253
1982	5.167	5.751	5.263	5.422	6.258	5.415	3.615	5.253
1983	5.022	5.642	5.273	5.415	6.255	5.406	3.614	5.253
984	5.129	5.700	5.223	5.422	6.251	5.395	3.599	5.253
1985	5.115	5.660	5.221	5.423	6.247	5.387	3.603	5.253
1986	5.130	5.691	5.286	5.427	6.257	5.418	3.640	5.253
1987	5.095	5.659	5.253	5.430	6.249	5.403	3.659	5.253
988	5.118	5.657	5.248	5.434	6.250	5.410	3.652	5.253
1989	5.057	5.619	5.234	5.440	^b 6.240	5.410	3.683	5.253
990	4.950	5.617	5.272	5.444	6.244	5.411	3.625	5.253
1991	4.912	5.590	5.190	5.442	6.246	5.384	3.614	5.253
1992	4.942	5.577	5.188	5.445	6.238	5.378	3.624	5.253
1993	4.942	5.571	5.195	5.438	6.230	5.379	3.606	5.253
1994	4.936	5.580	5.165	5.426	6.213	5.361	3.635	^c 5.230
995	4.925	5.546	5.133	5.419	6.188	5.341	3.623	5.215
1996	4.869	5.494	5.129	5.421	6.195	5.336	3.613	5.216
1997	4.870	5.459	5.133	5.417	6.199	5.336	3.616	5.213
1998	4.842	5.440	5.149	5.414	6.210	5.349	3.614	5.212
1999	4.749	5.349	5.105	5.415	6.205	5.328	3.616	5.211
2000	4.754	5.388	5.072	5.423	6.189	5.326	3.607	5.210
2001	4.824	5.422	5.120	5.421	6.199	5.345	3.614	5.210
2002	E4.824	E5.422	E5.120	E5.421	E6.173	5.324	3.613	5.208
2003	E4.824	E5.422	E5.120	E5.421	P6.181	5.340	3.629	5.207
2004	E4.824	E5.422	E5.120	E5.421	E6.181	E5.340	E3.629	E5.207

Note: Weighted averages of the products included in each category are calculated by using heat content values shown in Table A1.

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

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

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

Belectricity-only and combined-heat-and-power (CHP) plants within the NAICS (North American Industry Classification System) 22 category whose primary business is to sell electricity, or electricity and heat, to the public. Through 1988, data are for electric utilities only; beginning in 1989, data are for electric utilities

and independent power producers.

^c There is a discontinuity in this time series between 1993 and 1994; beginning in 1994, the single constant factor is replaced by a factor that is a quantity-weighted average of motor gasoline's major components. See Table A1.

P=Preliminary. E=Estimate.

Table A4. Approximate Heat Content of Natural Gas

(Btu per Cubic Foot)

	Production			Consumptiona			
	Marketed	Dry	End-Use Sectors	Electric Power Sector ^b	Total	Imports	Exports
973	1.093	1,021	1,020	1,024	1,021	1,026	1,023
974	1.097	1,024	1.024	1.022	1.024	1.027	1,016
975	1,095	1,021	1,020	1.026	1,021	1,026	1,014
976	1.093	1.020	1.019	1.023	1.020	1.025	1,013
977	1,093	1,021	1,019	1,029	1,021	1,026	1,013
978	1,088	1,019	1.016	1,034	1,019	1,030	1,013
979	1,092	1,021	1.018	1,035	1,021	1,037	1,013
980	1,098	1,026	1.024	1,035	1,026	1,022	1,013
981	1,103	1.027	1.025	1,035	1,027	1,014	1,011
982	1.107	1,028	1.026	1,036	1,028	1,018	1.011
983	1,115	1,031	1,031	1,030	1,031	1,024	1,010
984	1,109	1,031	1,030	1,035	1,031	1,005	1,010
985	1,112	1,032	1,031	1,038	1,032	1,002	1,011
986	1,110	1,030	1,029	1,034	1,030	997	1,008
987	1,112	1,031	1.031	1.032	1.031	999	1,011
988	1,109	1,029	1,029	1,028	1,029	1,002	1,018
989	1,107	1,031	1,031	^b 1,028	1,031	1,004	1,019
990	1,105	1,029	1,030	1,027	1,029	1,012	1,018
991	1,108	1,030	1,031	1,025	1,030	1,014	1,022
992	1,110	1,030	1,031	1,025	1,030	1,011	1,018
993	1,106	1,027	1.028	1,025	1.027	1,020	1,016
994	1,105	1,028	1,029	1,025	1,028	1,022	1,011
995	1,106	1,026	1.027	1.021	1.026	1.021	1,011
996	1,109	1,026	1.027	1,020	1,026	1,022	1,011
997	1,107	1,026	1,027	1,020	1,026	1,023	1,011
998	1,109	1,031	1,033	1,024	1,031	1,023	1,011
999	1.107	1,027	1,028	1,022	1,027	1,022	1,006
000	1.107	1,025	1.026	1,021	1,025	1,023	1,006
001	1.105	1,030	1.031	1.026	1.030	1.023	1,010
002	1,107	1,028	1,030	1,020	1,028	1,022	1,008
003 ^P	1,106	1,028	1,029	1,025	1,028	1,023	1,008
004 ^E	1,106	1,028	1,029	1,025	1,028	1,023	1,008

a Consumption factors are for natural gas, plus a small amount of supplemental gaseous fuels that cannot be identified separately.

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

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

b Electricity-only and combined-heat-and-power (CHP) plants within the NAICS (North American Industry Classification System) 22 category whose primary business is to sell electricity, or electricity and heat, to the public. Through 1988, data are for electric utilities only; beginning in 1989, data are for electric utilities and independent power producers. P=Preliminary. E=Estimate.

Table A5. Approximate Heat Content of Coal and Coal Coke

(Million Btu per Short Ton)

	Coal									
		Consumption								
	Production		ı	End-Use Sectors]		
			Residential	Indus	trial	Electric				Imports
		and Commercial	Coke Plants	Other ^a	Power Sector ^b	Total	Imports	Exports	and Exports	
1973	23.376	22.831	26.780	22.586	22.246	23.057	25.000	26.596	24.800	
1974	23.072	22.479	26.778	22.419	21.781	22.677	25.000	26.700	24.800	
1975	22.897	22.261	26.782	22.436	21.642	22.506	25.000	26.562	24.800	
1976	22.855	22.774	26.781	22.530	21.679	22.498	25.000	26.601	24.800	
1977	22.597	22.919	26.787	22.322	21.508	22.265	25.000	26.548	24.800	
1978	22.248	22.466	26.789	22.207	21.275	22.017	25.000	26.478	24.800	
1979	22.454	22.242	26.788	22.452	21.364	22.100	25.000	26.548	24.800	
1980	22.415	22.543	26.790	22.690	21.295	21.947	25.000	26.384	24.800	
1981	22.308	22.474	26.794	22.585	21.085	21.713	25.000	26.160	24.800	
1982	22.239	22.695	26.797	22.712	21.194	21.674	25.000	26.223	24.800	
1983	22.052	22.775	26.798	22.691	21.133	21.576	25.000	26.291	24.800	
1984	22.010	22.844	26.799	22.543	21.101	21.573	25.000	26.402	24.800	
1985	21.870	22.646	26.798	22.020	20.959	21.366	25.000	26.307	24.800	
1986	21.913	22.947	26.798	22.198	21.084	21.462	25.000	26.292	24.800	
1987	21.922	23.404	26.799	22.381	21.136	21.517	25.000	26.291	24.800	
1988	21.823	23.571	26.799	22.360	20.900	21.328	25.000	26.299	24.800	
1989	21.765	23.650	26.800	22.347	^b 20.898	21.307	25.000	26.160	24.800	
1990	21.822	23.137	26.799	22.457	20.779	21.197	25.000	26.202	24.800	
1991	21.681	23.114	26.799	22.460	20.730	21.120	25.000	26.188	24.800	
1992	21.682	23.105	26.799	22.250	20.709	21.068	25.000	26.161	24.800	
1993	21.418	22.994	26.800	22.123	20.677	21.010	25.000	26.335	24.800	
1994	21.394	23.112	26.800	22.068	20.589	20.929	25.000	26.329	24.800	
1995	21.326	23.112	26.800	21.950	20.543	20.880	25.000	26.180	24.800	
1996	21.322	23.116	26.800	22.105	20.543	20.870	25.000	26.174	24.800	
1997	21.296	22.494	26.800	22.172	20.547	20.830	25.000	26.251	24.800	
1998	21.418	22.494	26.800 27.426	23.164	20.516	20.881	25.000 25.000	26.800	24.800	
999	21.070	23.880	27.426 27.426	22.489	20.490	20.818	25.000	26.081	24.800	
	21.072	25.020		22.433	20.511	20.828	25.000	26.117	24.800	
2001	20.865	24.909	27.426	23.209	20.337	20.707	25.000	25.998	24.800	
2002	20.742	22.962	27.426	23.793	20.238	20.612	25.000	26.062	24.800	
2003 ^P	20.861	24.916	27.425	23.941	20.381	20.754	25.000	25.972	24.800	
2004 ^E	20.861	24.916	27.425	23.941	20.381	20.754	25.000	25.972	24.800	

^a Includes transportation.

Web Page: http://www.eia.doe.gov/emeu/mer/append.html.
Sources: See "Thermal Conversion Factor Source Documentation," which follows Table A6.

b Electricity-only and combined-heat-and-power (CHP) plants within the NAICS (North American Industry Classification System) 22 category whose primary business is to sell electricity, or electricity and heat, to the public. Through 1988, data are for electric utilities only; beginning in 1989, data are for electric utilities and independent power producers.
P=Preliminary. E=Estimate.

Table A6. Approximate Heat Rates for Electricity

(Btu per Kilowatthour)

	Fossil-Fueled Plants ^{a,b}	Nuclear Plants ^c	Geothermal Energy Plants ^d	Electricity Consumption
73	10.389	10.903	21.674	3,412
74	10.442	11.161	21.674	3.412
75	10,406	11.013	21,611	3,412
6	10,373	11.047	21,611	3,412
7	10,435	10.769	21.611	3,412
8	10,361	10.941	21,611	3,412
9	10,353	10.879	21.545	3,412
0	10,388	10.908	21,639	3,412
11	10,453	11.030	21.639	3,412
32	10,454	11,073	21,629	3,412
3	10,520	10,905	21,290	3,412
34	10,440	10,843	21,303	3,412
5	10,447	10,622	21,263	3,412
6	10,446	10,579	21,263	3,412
7	10,419	10.442	21,263	3,412
88	10.324	10.602	21.096	3,412
9	10.432	10.583	21.096	3,412
0	10,402	10,582	21,096	3,412
01	10.436	10,484	20.997	3.412
2	10,342	10,471	20,914	3,412
93	10,309	10.504	20,914	3,412
94	10,316	10,452	20,914	3,412
95	10,312	10,507	20,914	3,412
96	10.340	10,503	20,960	3,412
77	10,213	10,494	20,960	3,412
98	10,197	10.491	21.017	3,412
99	10,197	10,450	21,017	3,412
00	10,226	10,429	21,017	3,412
01	10,201	10,429	21,017	3,412
	P10,119	10,448	,-	,
)2		P10,439	21,017 ^P 21.017	3,412
03 04	^P 10,107 ^E 10,107	E 10,439	E 21,017	3,412 3,412

a Through 2000, used as the thermal conversion factor for wood and waste electricity net generation at electric utilities. For all years, used as the thermal conversion factor for hydroelectric, solar, and wind electricity net generation.

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

b Through 2000, heat rates are for fossil-fueled steam-electric plants at electric utilities. For 2001 and 2002, heat rates are for fossil-fueled steam-electric plants at electric utilities and independent power producers. For 2003 forward, heat rates are for all fossil-fueled plants at electric utilities and independent power producers.

^c Used as the thermal conversion factor for nuclear electricity net generation.

d Used as the thermal conversion factor for geothermal electricity net generation.

e Used as the thermal conversion factor for electricity retail sales, and electricity imports and exports.

 $P{=}Preliminary.\ E{=}Estimate.$

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

Thermal Conversion Factor Source Documentation

Approximate Heat Content of Petroleum and Natural Gas Plant Liquids

Asphalt. The Energy Information Administration (EIA) adopted the thermal conversion factor of 6.636 million British thermal units (Btu) per barrel as estimated by the Bureau of Mines and first published in the *Petroleum Statement*, *Annual*, 1956.

Aviation Gasoline. EIA adopted the thermal conversion factor of 5.048 million Btu per barrel as adopted by the Bureau of Mines from the Texas Eastern Transmission Corporation publication *Competition and Growth in American Energy Markets* 1947-1985, a 1968 release of historical and projected statistics.

Butane. EIA adopted the Bureau of Mines thermal conversion factor of 4.326 million Btu per barrel as published in the *California Oil World and Petroleum Industry*, First Issue, April 1942.

Butane-Propane Mixture. EIA adopted the Bureau of Mines calculation of 4.130 million Btu per barrel based on an assumed mixture of 60 percent butane and 40 percent propane. See **Butane** and **Propane**.

Crude Oil Exports. Assumed by EIA to be 5.800 million Btu per barrel or equal to the thermal conversion factor for crude oil produced in the United States. See **Crude Oil Production**.

Crude Oil Imports. Calculated annually by EIA as the average of the thermal conversion factors for each type of crude oil imported weighted by the quantities imported. Thermal conversion factors for each type were calculated on a foreign country basis, by determining the average American Petroleum Institute (API) gravity of crude oil imported from each foreign country from Form ERA-60 in 1977 and converting average API gravity to average Btu content by using National Bureau of Standards, Miscellaneous Publication No. 97, *Thermal Properties of Petroleum Products*, 1933.

Crude Oil Production. EIA adopted the thermal conversion factor of 5.800 million Btu per barrel as reported in a Bureau of Mines internal memorandum, "Bureau of Mines Standard Average Heating Values of Various Fuels, Adopted January 3, 1950."

Distillate Fuel Oil. EIA adopted the Bureau of Mines thermal conversion factor of 5.825 million Btu per barrel as reported in a Bureau of Mines internal memorandum, "Bureau of Mines Standard Average Heating Values of Various Fuels, Adopted January 3, 1950."

Ethane. EIA adopted the Bureau of Mines thermal conversion factor of 3.082 million Btu per barrel as published in

the California Oil World and Petroleum Industry, First Issue, April 1942.

Ethane-Propane Mixture. EIA calculation of 3.308 million Btu per barrel based on an assumed mixture of 70 percent ethane and 30 percent propane. See **Ethane** and **Propane**.

Fuel Ethanol (Blended Into Motor Gasoline). EIA adopted the thermal conversion factor of 3.539 million Btu per barrel published in "Oxygenate Flexibility for Future Fuels," a paper presented by William J. Piel of the ARCO Chemical Company at the National Conference on Reformulated Gasolines and Clean Air Act Implementation, Washington, D.C., October 1991.

Isobutane. EIA adopted the Bureau of Mines thermal conversion factor of 3.974 million Btu per barrel as published in the *California Oil World and Petroleum Industry*, First Issue, April 1942.

Jet Fuel, Kerosene-Type. EIA adopted the Bureau of Mines thermal conversion factor of 5.670 million Btu per barrel for "Jet Fuel, Commercial" as published by the Texas Eastern Transmission Corporation in the report *Competition and Growth in American Energy Markets 1947-1985*, a 1968 release of historical and projected statistics.

Jet Fuel, Naphtha-Type. EIA adopted the Bureau of Mines thermal conversion factor of 5.355 million Btu per barrel for "Jet Fuel, Military" as published by the Texas Eastern Transmission Corporation in the report *Competition and Growth in American Energy Markets* 1947-1985, a 1968 release of historical and projected statistics.

Kerosene. EIA adopted the Bureau of Mines thermal conversion factor of 5.670 million Btu per barrel as reported in a Bureau of Mines internal memorandum, "Bureau of Mines Standard Average Heating Values of Various Fuels, Adopted January 3, 1950."

Liquefied Petroleum Gases Consumption. Calculated annually by EIA as the average of the thermal conversion factors for all liquefied petroleum gases consumed (see Table A1) weighted by the quantities consumed. The component products of liquefied petroleum gases are ethane (including ethylene), propane (including propylene), normal butane (including butylene), butane-propane mixtures, ethane-propane mixtures, and isobutane. For 1973-1980, quantities consumed are from EIA, Energy Data Reports, "Petroleum Statement, Annual," Table 1. For 1981 forward, quantities consumed are from EIA, Petroleum Supply Annual, Table 2.

Lubricants. EIA adopted the thermal conversion factor of 6.065 million Btu per barrel as estimated by the Bureau of Mines and first published in the *Petroleum Statement*, *Annual*. 1956.

Miscellaneous Products. EIA adopted the thermal conversion factor of 5.796 million Btu per barrel as estimated by the Bureau of Mines and first published in the *Petroleum Statement, Annual, 1956*.

Motor Gasoline Consumption. 1973–1993: EIA adopted the Bureau of Mines thermal conversion factor of 5.253 million Btu per barrel for "Gasoline, Motor Fuel" as published by the Texas Eastern Transmission Corporation in Appendix V of Competition and Growth in American Energy Markets 1947-1985, a 1968 release of historical and projected statistics. 1994 forward: EIA calculated national annual quantity-weighted average conversion factors for conventional, reformulated, and oxygenated motor gasolines (see Table A3). The factor for conventional motor gasoline is 5.253 million Btu per barrel, as used for previous years. The factors for reformulated and oxygenated gasolines, both currently 5.150 million Btu per barrel, are based on data published in Environmental Protection Agency, Office of Mobile Sources, National Vehicle and Fuel Emissions Laboratory report EPA 420-F-95-003, "Fuel Economy Impact Analysis of Reformulated Gasoline." See Fuel Ethanol (Blended Into Motor Gasoline).

Natural Gas Plant Liquids Production. Calculated annually by EIA as the average of the thermal conversion factors for each natural gas plant liquid produced weighted by the quantities produced.

Natural Gasoline. EIA adopted the thermal conversion factor of 4.620 million Btu per barrel as estimated by the Bureau of Mines and first published in the *Petroleum Statement*, *Annual*, 1956.

Pentanes Plus. EIA assumed the thermal conversion factor to be 4.620 million Btu or equal to that for natural gasoline. See **Natural Gasoline**.

Petrochemical Feedstocks, Naphtha less than 401° F. Assumed by EIA to be 5.248 million Btu per barrel, equal to the thermal conversion factor for special naphthas. See **Special Naphthas**.

Petrochemical Feedstocks, Other Oils equal to or greater than 401° F. Assumed by EIA to be 5.825 million Btu per barrel, equal to the thermal conversion factor for distillate fuel oil. See Distillate Fuel Oil.

Petrochemical Feedstocks, Still Gas. Assumed by EIA to be 6.000 million Btu per barrel, equal to the thermal conversion factor for still gas. See **Still Gas**.

Petroleum Coke. EIA adopted the thermal conversion factor of 6.024 million Btu per barrel as reported in Btu per short ton in the Bureau of Mines internal memorandum, "Bureau of Mines Standard Average Heating Values of Various Fuels, Adopted January 3, 1950." The Bureau of Mines calculated this factor by dividing 30.120 million Btu per short ton, as given in the referenced Bureau of Mines internal memorandum, by 5.0 barrels per short ton, as given in the Bureau of Mines Form 6-1300-M and successor EIA forms.

Petroleum Consumption, Commercial Sector. Calculated annually by EIA as the average of the thermal conversion factors for all petroleum products consumed by the commercial sector weighted by the estimated quantities consumed by the commercial sector. The quantities of petroleum products

consumed by the commercial sector are estimated in the State Energy Data System—see documentation at http://www.eia.doe.gov/emeu/states/sep_use/notes/use_petrol.pdf.

Petroleum Consumption, Electric Power Sector. Calculated annually by EIA as the average of the thermal conversion factors for all petroleum products consumed by the electric power sector weighted by the quantities consumed by the electric power sector. Data are from Form EIA-860, "Annual Electric Generator Report"; Form EIA-906, "Power Plant Report"; and predecessor forms.

Petroleum Consumption, Industrial Sector. Calculated annually by EIA as the average of the thermal conversion factors for all petroleum products consumed by the industrial sector weighted by the estimated quantities consumed by the industrial sector. The quantities of petroleum products consumed by the industrial sector are estimated in the State Energy Data System—see documentation at http://www.eia.doe.gov/emeu/states/sep_use/notes/use_petrol.pdf.

Petroleum Consumption, Residential Sector. Calculated annually by EIA as the average of the thermal conversion factors for all petroleum products consumed by the residential sector weighted by the estimated quantities consumed by the residential sector. The quantities of petroleum products consumed by the residential sector are estimated in the State Energy Data System—see documentation at http://www.eia.doe.gov/emeu/states/sep_use/notes/use_petrol.pdf.

Petroleum Consumption, Total. Calculated annually by EIA as the average of the thermal conversion factors for all petroleum products consumed weighted by the quantities consumed.

Petroleum Consumption, Transportation Sector. Calculated annually by EIA as the average of the thermal conversion factors for all petroleum products consumed by the transportation sector weighted by the estimated quantities consumed by the transportation sector. The quantities of petroleum products consumed by the transportation sector are estimated in the State Energy Data System—see documentation at http://www.eia.doe.gov/emeu/states/sep use/notes/use petrol.pdf.

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

Petroleum Products Imports. Calculated annually by EIA as the average of the thermal conversion factors for each petroleum product imported weighted by the quantities imported.

Plant Condensate. Estimated to be 5.418 million Btu per barrel by EIA from data provided by McClanahan Consultants, Inc., Houston, Texas.

Propane. EIA adopted the Bureau of Mines thermal conversion factor of 3.836 million Btu per barrel as published in the *California Oil World and Petroleum Industry*, First Issue, April 1942.

Residual Fuel Oil. EIA adopted the thermal conversion factor of 6.287 million Btu per barrel as reported in the Bureau of Mines internal memorandum, "Bureau of Mines Standard Average Heating Values of Various Fuels, Adopted January 3, 1950."

Road Oil. EIA adopted the Bureau of Mines thermal conversion factor of 6.636 million Btu per barrel, which was assumed to be equal to that of asphalt (see **Asphalt**) and was first published by the Bureau of Mines in the *Petroleum Statement, Annual, 1970*.

Special Naphthas. EIA adopted the Bureau of Mines thermal conversion factor of 5.248 million Btu per barrel, which was assumed to be equal to that of the total gasoline (aviation and motor) factor and was first published in the *Petroleum Statement, Annual, 1970*.

Still Gas. EIA adopted the Bureau of Mines estimated thermal conversion factor of 6.000 million Btu per barrel, first published in the *Petroleum Statement*, *Annual*, 1970.

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

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

Unfinished Oils. EIA assumed the thermal conversion factor to be 5.825 million Btu per barrel or equal to that for distillate fuel oil (see **Distillate Fuel Oil**) and first published it in EIA's *Annual Report to Congress, Volume 3*, 1977.

Unfractionated Stream. EIA assumed the thermal conversion factor to be 5.418 million Btu per barrel or equal to that for plant condensate (see **Plant Condensate**) and first published it in EIA's *Annual Report to Congress, Volume 2, 1981*.

Waxes. EIA adopted the thermal conversion factor of 5.537 million Btu per barrel as estimated by the Bureau of Mines and first published in the *Petroleum Statement, Annual,* 1956.

Approximate Heat Content of Natural Gas

Natural Gas Consumption, Electric Power Sector. Calculated annually by EIA by dividing the heat content of natural gas consumed by the electric power sector by the quantity consumed. Data are from Form EIA-860, "Annual Electric Generator Report"; Form EIA-906, "Power Plant Report"; and predecessor forms.

Natural Gas Consumption, End-Use Sectors. Calculated annually by EIA by dividing the heat content of natural gas consumed by the end-use sectors (residential, commercial, industrial, and transportation) by the quantity consumed. Data are from Form EIA-176, "Annual Report of Natural and Supplemental Gas Supply and Disposition."

Natural Gas Consumption, Total. 1973–1979: EIA adopted the thermal conversion factor calculated annually by the American Gas Association (AGA) and published in *Gas Facts*, an AGA annual publication. 1980 forward: Calculated annually by EIA by dividing the total heat content of natural gas consumed by the total quantity consumed.

Natural Gas Exports. Calculated annually by EIA by dividing the heat content of natural gas exported by the quantity exported. For 1973–1995, data are from Form FPC-14, "Annual Report for Importers and Exporters of Natural Gas." Beginning in 1996, data are from U.S. Department of Energy, Office of Fossil Energy, *Natural Gas Imports and Exports*.

Natural Gas Imports. Calculated annually by EIA by dividing the heat content of natural gas imported by the quantity imported. For 1973–1995, data are from Form FPC-14, "Annual Report for Importers and Exporters of Natural Gas." Beginning in 1996, data are from U.S. Department of Energy, Office of Fossil Energy, *Natural Gas Imports and Exports*.

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

Natural Gas Production, Marketed. Calculated annually by EIA by dividing the heat content of dry natural gas produced (see Natural Gas Production, Dry) and natural gas plant liquids produced (see Natural Gas Plant Liquids Production) by the total quantity of marketed natural gas produced.

Approximate Heat Content of Coal and Coal Coke

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

Coal Consumption, Electric Power Sector. Calculated annually by EIA by dividing the heat content of coal consumed by the electric power sector by the quantity consumed. Data are from Form EIA-860, "Annual Electric Generator Report"; Form EIA-906, "Power Plant Report"; and predecessor forms.

Coal Consumption, End-Use Sectors. Calculated annually by EIA by dividing the heat content of coal consumed by the end-use sectors (residential, commercial, industrial, and transportation) by the quantity consumed.

Coal Consumption, Industrial Sector, Coke Plants. Calculated annually by EIA by dividing the heat content of coal consumed by coke plants by the quantity consumed. Data are from Form EIA-5, "Quarterly Coal Consumption and Quality Report—Coke Plants."

Coal Consumption, Industrial Sector, Other. Calculated annually by EIA by dividing the heat content of coal consumed by manufacturing plants by the quantity consumed. Data are from Form EIA-3, "Quarterly Coal Consumption and Quality Report—Manufacturing Plants."

Coal Consumption, Residential and Commercial Sectors. Calculated annually by EIA by dividing the heat content of coal consumed by the residential and commercial sectors by the quantity consumed. Through 1999, data are from Form EIA-6, "Coal Distribution Report." Beginning in 2000, data are for commercial combined-heat-and-power (CHP) plants from Form EIA-860, "Annual Electric Generator Report"; and Form EIA-906, "Power Plant Report."

Coal Consumption, Total. Calculated annually by EIA by dividing the total heat content of coal consumed by all sectors by the total quantity consumed.

Coal Exports. Calculated annually by EIA by dividing the heat content of steam coal and metallurgical coal exported by the quantity exported. Data are from U.S. Department of Commerce, Bureau of the Census, "Monthly Report EM 545."

Coal Imports. Assumed by EIA to be 25.000 million Btu per short ton

Coal Production. Calculated annually by EIA to balance the heat content of coal supply (production and imports) and the heat content of coal disposition (exports, stock change, and consumption).

Approximate Heat Rates for Electricity

Electricity Net Generation, Fossil-Fueled Plants. There is no generally accepted practice for measuring the thermal conversion rates for power plants that generate electricity from hydro, wind, photovoltaic, or solar thermal energy sources. Therefore, EIA calculates a rate factor that is equal to the prevailing annual average heat rate factor for fossilfueled power plants in the United States. By using that factor, it is possible to evaluate fossil fuel requirements for replacing those sources during periods of interruption, such as droughts. The heat content of a kilowatthour of electricity produced, regardless of the generation process, is 3,412 Btu. 1973-1988: The weighted annual average heat rate for fossil-fueled steam-electric power plants in the United States, as published in EIA, Electric Plant Cost and Power Production Expenses 1991, Table 9. 1989 forward: Calculated annually by EIA by using the heat rate reported on Form EIA-860, "Annual Electric Generator Report" (and predecessor forms); and the generation on Form EIA-906, "Power Plant Report."

Electricity Net Generation, Geothermal Energy Plants. 1973–1981: Calculated annually by EIA by weighting the annual average heat rates of operating geothermal units by the installed nameplate capacities as reported on Form FPC-12, "Power System Statement." 1982 forward: Estimated annually by EIA on the basis of an informal survey of relevant plants.

Electricity Net Generation, Nuclear Plants. 1973–1984: Calculated annually by dividing the total heat content consumed in nuclear generating units by the total (net) electricity generated by nuclear generating units. The heat content and electricity generation were reported on Form FERC-1, "Annual Report of Major Electric Utilities, Licensees, and Others"; Form EIA-412, "Annual Report of Public Electric Utilities"; and predecessor forms. For 1982, the factors were published in EIA, Historical Plant Cost and Annual Production Expenses for Selected Electric Plants 1982, page 215. For 1983 and 1984, the factors were published in EIA, Electric Plant Cost and Power Production Expenses 1991, Table 13. 1985 forward: Calculated annually by EIA by using the heat rate reported on Form EIA-860, "Annual Electric Generator Report" (and predecessor forms); and the generation reported on Form EIA-906, "Power Plant Report."

Appendix B. Metric and Other Physical Conversion Factors

Data presented in the *Monthly Energy Review* and in other Energy Information Administration publications are expressed predominately in units that historically have been used in the United States, such as British thermal units, barrels, cubic feet, and short tons. However, because U.S. commerce involves other nations, most of which use metric units of measure, the U.S. Government is committed to the transition to the metric system, as stated in the Metric Conversion Act of 1975 (Public Law 94–168), amended by the Omnibus Trade and Competitiveness Act of 1988 (Public Law 100–418), and Executive Order 12770 of July 25, 1991.

The metric conversion factors presented in Table B1 can be used to calculate the metric-unit equivalents of values expressed in U.S. customary units. For example, 500 short tons are the equivalent of 453.6 metric tons (500 short tons x 0.9071847 metric tons/short ton = 453.6 metric tons).

In the metric system of weights and measures, the names of multiples and subdivisions of any unit may be derived by combining the name of the unit with prefixes, such as deka, hecto, and kilo, meaning, respectively, 10, 100, 1,000, and deci, centi, and milli, meaning, respectively, one-tenth, one-hundredth, and one-thousandth. Common metric prefixes can be found in Table B2.

The conversion factors presented in Table B3 can be used to calculate equivalents in various physical units commonly used in energy analyses. For example, 10 barrels are the equivalent of 420 U.S. gallons (10 barrels x 42 gallons/barrel = 420 gallons).

Table B1. Metric Conversion Factors

Type of Unit	U.S. Unit		Equivalent in	Metric Units
Mass	1 short ton (2,000 lb)	=	0.907 184 7	metric tons (t)
	1 long ton	=	1.016 047	metric tons (t)
	1 pound (lb)	=	0.453 592 37ª	kilograms (kg)
	1 pound uranium oxide (lb U ₃ O ₈)	=	0.384 647 ^b	kilograms uranium (kgU)
	1 ounce, avoirdupois (avdp oz)	=	28.349 52	grams (g)
Volume	1 barrel of oil (bbl)	=	0.158 987 3	cubic meters (m³)
	1 cubic yard (yd³)	=	0.764 555	cubic meters (m³)
	1 cubic foot (ft³)	=	0.028 316 85	cubic meters (m³)
	1 U.S. gallon (gal)	=	3.785 412	liters (L)
	1 ounce, fluid (fl oz)	=	29.573 53	milliliters (mL)
	1 cubic inch (in³)	=	16.387 06	milliliters (mL)
Length	1 mile (mi)	=	1.609 344ª	kilometers (km)
	1 yard (yd)	=	0.914 4 ^a	meters (m)
	1 foot (ft)	=	0.304 8 ^a	meters (m)
	1 inch (in)	=	2.54ª	centimeters (cm)
Area	1 acre	=	0.404 69	hectares (ha)
	1 square mile (mi ²)	=	2.589 988	square kilometers (km²)
	1 square yard (yd²)	=	0.836 127 4	square meters (m²)
	1 square foot (ft²)	=	0.092 903 04°	square meters (m²)
	1 square inch (in²)	=	6.451 6ª	square centimeters (cm ²)
Energy	1 British thermal unit (Btu) ^c	=	1,055.055 852 62ª	joules (J)
	1 calorie (cal)	=	4.186 8 ^a	joules (J)
	1 kilowatthour (kWh)	=	3.6ª	megajoules (MJ)
Temperature ^d	32 degrees Fahrenheit (°F)	=	O ^a	degrees Celsius (°C)
-	212 degrees Fahrenheit (°F)	=	100 ^a	degrees Celsius (°C)

^aExact conversion.

^bCalculated by the Energy Information Administration.

The Btu used in this table is the International Table Btu adopted by the Fifth International Conference on Properties of Steam, London, 1956. To convert degrees Fahrenheit (°F) to degrees Celsius (°C) exactly, subtract 32, then multiply by 5/9.

Notes: • Spaces have been inserted after every third digit to the right of the decimal for ease of reading. • Most metric units belong to the International System of Units (SI), and the liter, hectare, and metric ton are accepted for use with the SI units. For more information about the SI units, see http://physics.nist.gov/cuu/Units/index.html.

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

Sources: • General Services Administration, Federal Standard 376B, *Preferred Metric Units for General Use by the Federal Government* (Washington, DC, January 1993), pp. 9-11, 13, and 16. • U.S. Department of Commerce, National Institute of Standards and Technology, Special Publications 330, 811, and 814. • American National Standards Institute/Institute of Electrical and Electronic Engineers, ANSI/IEEE Std 268-1992, pp. 28 and 29.

Table B2. Metric Prefixes

Unit Multiple	Prefix	Symbol	Unit Subdivision	Prefix	Symbol
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	M	10 ⁻⁶	micro	μ
10 ⁹	giga	G	10 ⁻⁹	nano	n
10 ¹²	tera	Т	10 ⁻¹²	pico	р
10 ¹⁵	peta	Р	10 ⁻¹⁵	femto	f
10 ¹⁸	exa	Е	10 ⁻¹⁸	atto	а
10 ²¹	zetta	Z	10 ⁻²¹	zepto	Z
10 ²⁴	yotta	Υ	10 ⁻²⁴	yocto	у

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

Source: U.S. Department of Commerce, National Institute of Standards and Technology, *The International System of Units (SI)*, NIST Special Publication 330, 1991 Edition (Washington, DC, August 1991), p.10.

Table B3. Other Physical Conversion Factors

Energy Source	Original Unit		Equivalent in Final Units			
Petroleum	1 barrel (bbl)	=	42ª	U.S. gallons (gal)		
Coal	1 short ton	=	2,000ª	pounds (lb)		
	1 long ton	=	2,240 ^a	pounds (lb)		
	1 metric ton (t)	=	1,000°	kilograms (kg)		
Wood	1 cord (cd)	=	1.25 ^b	shorts tons		
	1 cord (cd)	=	128ª	cubic feet (ft3)		
	• •			. ,		

^aExact conversion.

Source: U.S. Department of Commerce, National Institute of Standards and Technology, *Specifications, Tolerances, and Other Technical Requirements for Weighing and Measuring Devices*, NIST Handbook 44, 1994 Edition (Washington, DC, October 1993), pp. B-10, C-17 and C-21.

^bCalculated by the Energy Information Administration.

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

Appendix C. List of Energy Plugs

Energy Plugs are synopses of products that have been released recently by the Energy Information Administration. They appear on a regular basis at the front of the *Monthly Energy Review*. Following is a list of the Energy Plug titles that have been published over the past few years. For a

complete list of all features that have appeared in the *Monthly Energy Review* since the first article was published in March 1975, go the Energy Plug web site at: http://www.eia.doe.gov/emeu/plugs/plugsrgt.html.

Title	Cover Date
2004	
Annual Energy Outlook 2004	January 2004
Natural Gas Annual 2002.	
Analysis of Restricted Natural Gas Supply Cases	•
Performance Profiles of Major Energy Producers 2002	
International Energy Outlook 2004	
Biodiesel Performance, Costs, and Use	
State Renewable Energy Requirements and Goals	
Annual Energy Review 2003.	
U.S. Natural Gas Pipeline and Underground Storage Expansions in 2003	
Oil Market Basics	. November 2004
2003	
Annual Energy Outlook 2003	
Performance Profiles of Major Energy Producers 2001	
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Glossary

Asphalt: A dark-brown-to-black cement-like material containing bitumens as the predominant constituents obtained by petroleum processing. The definition includes crude asphalt as well as the following finished products: cements, fluxes, the asphalt content of emulsions (exclusive of water), and petroleum distillates blended with asphalt to make cutback asphalts.

ASTM: The American Society for Testing and Materials.

Aviation Gasoline Blending Components: Naphthas that will be used for blending or compounding into finished aviation gasoline (e.g., straight run gasoline, alkylate, reformate, benzene, toluene, and xylene). Excludes oxygenates (alcohols, ethers), butane, and pentanes plus.

Aviation Gasoline, Finished: A complex mixture of relatively volatile hydrocarbons with or without small quantities of additives, blended to form a fuel suitable for use in aviation reciprocating engines. Fuel specifications are provided in ASTM Specification D 910 and Military Specification MIL-G-5572. *Note:* Data on blending components are not counted in data on finished aviation gasoline.

Barrel (Petroleum): A unit of volume equal to 42 U.S. gallons.

Base Gas: The volume of gas needed as a permanent inventory to maintain adequate underground storage reservoir pressures and deliverability rates throughout the withdrawal season. All native gas is included in the base gas volume.

Black Liquor (Pulping Liquor): The alkaline spent liquor removed from the digesters in the process of chemically pulping wood. After evaporation, the liquor is burned as a fuel in a recovery furnace that permits the recovery of certain basic chemicals.

British Thermal Unit (Btu): The quantity of heat required to raise the temperature of 1 pound of liquid water by 1 degree Fahrenheit at the temperature at which water has its greatest density (approximately 39 degrees Fahrenheit). See Heat Content of a Quantity of Fuel, Gross and Heat Content of a Quantity of Fuel, Net.

Butane: A normally gaseous straight-chain or branched-chain hydrocarbon (C_4H_{10}). It is extracted from natural gas or refinery gas streams. It includes isobutane and normal butane and is designated in ASTM Specification D1835 and Gas Processors Association Specifications for commercial butane.

Isobutane: A normally gaseous branched-chain hydrocarbon. It is a colorless paraffinic gas that boils at a temperature of 10.9° F. It is extracted from natural gas or refinery gas streams.

Normal Butane: A normally gaseous straight-chain hydrocarbon. It is a colorless paraffinic gas that boils at a temperature of 31.1° F. It is extracted from natural gas or refinery gas streams.

Butylene: An olefinic hydrocarbon (C₄H₈) recovered from refinery processes.

Capacity Factor: The ratio of the electrical energy produced by a generating unit for a given period of time to the electrical energy that could have been produced at continuous full-power operation during the same period.

Chained Dollars: A measure used to express real prices. Real prices are those that have been adjusted to remove the effect of changes in the purchasing power of the dollar; they usually reflect buying power relative to a reference year. Prior to 1996, real prices were expressed in constant dollars, a measure based on the weights of goods and services in a single year, usually a recent year. In 1996, the U.S. Department of Commerce introduced the chained-dollar measure. The new measure is based on the average weights of goods and services in successive pairs of years. It is "chained" because the second year in each pair, with its weights, becomes the first year of the next pair. The advantage of using the chained-dollar measure is that it is more closely related to any given period and is therefore subject to less distortion over time.

CIF: See Cost, Insurance, Freight.

City Gate: A point or measuring station at which a distribution gas utility receives gas from a natural gas pipeline company or transmission system.

Coal: A readily combustible black or brownish-black rock whose composition, including inherent moisture, consists of more than 50 percent by weight and more than 70 percent by volume of carbonaceous material. It is formed from plant remains that have been compacted, hardened, chemically altered, and metamorphosed by heat and pressure over geologic time.

Coal Coke: See Coke, Coal.

Coal Stocks: Coal quantities that are held in storage for future use and disposition. Note: When coal data are collected for a particular reporting period (month, quarter,

or year), coal stocks are commonly measured as of the last day of the period.

Coke, Coal: A solid carbonaceous residue derived from low-ash, low-sulfur bituminous coal from which the volatile constituents are driven off by baking in an oven at temperatures as high as 2,000° F so that the fixed carbon and residual ash are fused together. Coke is used as a fuel and as a reducing agent in smelting iron ore in a blast furnace. Coke (coal) has a heating value of 24.8 million Btu per ton.

Coke, Petroleum: A residue high in carbon content and low in hydrogen that is the final product of thermal decomposition in the condensation process in cracking. This product is reported as marketable coke or catalyst coke. The conversion is 5 barrels (42 U.S. gallons each) per short ton. Coke (petroleum) has a heating value of 6.024 million Btu per barrel.

Coking Coal: Bituminous coal suitable for making coke. See Coke, Coal.

Combined-Heat-and-Power (CHP) Plant: A plant designed to produce both heat and electricity from a single heat source. Note: This term is being used in place of the term "cogenerator" that was used by EIA in the past. CHP better describes the facilities because some of the plants included do not produce heat and power in a sequential fashion and, as a result, do not meet the legal definition of cogeneration specified in the Public Utility Regulatory Policies Act (PURPA).

Commercial Sector: An energy-consuming sector that consists of service-providing facilities and equipment of: businesses; Federal, State, and local governments; and other private and public organizations, such as religious, social, or fraternal groups. The commercial sector includes institutional living quarters. It also includes sewage treatment facilities. Common uses of energy associated with this sector include space heating, water heating, air conditioning, lighting, refrigeration, cooking, and running a wide variety of other equipment. *Note*: This sector includes generators that produce electricity and/or useful thermal output primarily to support the activities of the above-mentioned commercial establishments.

Completion: The installation of permanent equipment for the production of oil or gas. If a well is equipped to produce only oil or gas from one zone or reservoir, the definition of a well (classified as an oil well or gas well) and the definition of a completion are identical. However, if a well is equipped to produce oil and/or gas separately from more than one reservoir, a well is not synonymous with a completion.

Constant Dollars: See Chained Dollars.

Conventional Gasoline: Finished motor gasoline not included in the oxygenated or reformulated gasoline categories. *Note*: This category excludes reformulated

gasoline blendstock for oxygenate blending (RBOB) as well as other blendstock.

Conventional Hydroelectric Power: Hydroelectric power generated from flowing water that is not created by hydroelectric pumped storage.

Conversion Factor: A number that translates units of one system into corresponding values of another system. Conversion factors can be used to translate physical units of measure for various fuels into Btu equivalents. See British Thermal Unit.

Cost, Insurance, Freight (CIF): A sales transaction in which the seller pays for the transportation and insurance of the goods to the port of destination specified by the buyer.

Crude Oil: A mixture of hydrocarbons that exists in liquid phase in natural underground reservoirs and remains liquid at atmospheric pressure after passing through surface separating facilities. Depending upon the characteristics of the crude stream, it may also include: 1) small amounts of hydrocarbons that exist in gaseous phase in natural underground reservoirs but are liquid at atmospheric pressure after being recovered from oil well (casinghead) gas in lease separators and are subsequently commingled with the crude stream without being separately measured. Lease condensate recovered as a liquid from natural gas wells in lease or field separation facilities and later mixed into the crude stream is also included; 2) small amounts of nonhydrocarbons produced with the oil, such as sulfur and various metals; and 3) drip gases, and liquid hydrocarbons produced from tar sands, gilsonite, and oil shale.

Liquids produced at natural gas processing plants are excluded. Crude oil is refined to produce a wide array of petroleum products, including heating oils; gasoline, diesel and jet fuels; lubricants; asphalt; ethane, propane, and butane; and many other products used for their energy or chemical content.

Crude Oil F.O.B. Price: The crude oil price actually charged at the oil-producing country's port of loading. Includes deductions for any rebates and discounts or additions of premiums, where applicable. It is the actual price paid with no adjustment for credit terms.

Crude Oil (Including Lease Condensate): A mixture of hydrocarbons that exists in liquid phase in underground reservoirs and remains liquid at atmospheric pressure after passing through surface separating facilities. Included are lease condensate and liquid hydrocarbons produced from tar sands, gilsonite, and oil shale. Drip gases are also included, but topped crude oil (residual oil) and other unfinished oils are excluded. Where identifiable, liquids produced at natural gas processing plants and mixed with crude oil are likewise excluded.

Crude Oil Landed Cost: The price of crude oil at the port of discharge, including charges associated with the purchase, transporting, and insuring of a cargo from the purchase point to the port of discharge. The cost does not include charges incurred at the discharge port (e.g., import tariffs or fees, wharfage charges, and demurrage).

Crude Oil Refinery Input: The total crude oil put into processing units at refineries.

Crude Oil Stocks: Stocks of crude oil and lease condensate held at refineries, in pipelines, at pipeline terminals, and on leases.

Crude Oil Used Directly: Crude oil consumed as fuel by crude oil pipelines and on crude oil leases.

Crude Oil Well: A well completed for the production of crude oil from one or more oil zones or reservoirs. Wells producing both crude oil and natural gas are classified as oil wells.

Cubic Foot (Natural Gas): A unit of volume equal to 1 cubic foot at a pressure base of 14.73 pounds standard per square inch absolute and a temperature base of 60° F.

Degree-Day Normals: Simple arithmetic averages of monthly or annual degree-days over a long period of time (usually the 30-year period 1961–1990). The averages may be simple degree-day normals or population-weighted degree-day normals.

Degree-Days, Cooling (CDD): A measure of how warm a location is over a period of time relative to a base temperature, most commonly specified as 65 degrees Fahrenheit. The measure is computed for each day by subtracting the base temperature (65 degrees) from the average of the day's high and low temperatures, with negative values set equal to zero. Each day's cooling degree-days are summed to create a cooling degree-day measure for a specified reference period. Cooling degree-days are used in energy analysis as an indicator of air conditioning energy requirements or use.

Degree-Days, Heating (HDD): A measure of how cold a location is over a period of time relative to a base temperature, most commonly specified as 65 degrees Fahrenheit. The measure is computed for each day by subtracting the average of the day's high and low temperatures from the base temperature (65 degrees), with negative values set equal to zero. Each day's heating degree-days are summed to create a heating degree-day measure for a specified reference period. Heating degree-days are used in energy analysis as an indicator of space heating energy requirements or

Degree-Days, Population-Weighted: Heating or cooling degree-days weighted by the population of the area in which the degree-days are recorded. To compute State population-weighted degree-days, each State is divided into from one to

nine climatically homogeneous divisions, which are assigned weights based on the ratio of the population of the division to the total population of the State. Degree-day readings for each division are multiplied by the corresponding population weight for each division and those products are then summed to arrive at the State population-weighted degree-day figure. To compute national population-weighted degree-days, the Nation is divided into nine Census regions, each comprising from three to eight States, which are assigned weights based on the ratio of the population of the region to the total population of the Nation. Degree-day readings for each region are multiplied by the corresponding population weight for each region and those products are then summed to arrive at the national population-weighted degree-day figure.

Design Electrical Rating, Net: The nominal net electrical output of a nuclear unit as specified by the electric utility for the purpose of plant design.

Development Well: A well drilled within the proved area of an oil or gas reservoir to the depth of a stratigraphic horizon known to be productive.

Distillate Fuel Oil: A general classification for one of the petroleum fractions produced in conventional distillation operations. It includes diesel fuels and fuel oils. Products known as No. 1, No. 2, and No. 4 diesel fuel are used in on-highway diesel engines, such as those in trucks and automobiles, as well as off-highway engines, such as those in railroad locomotives and agricultural machinery. Products known as No. 1, No. 2, and No. 4 fuel oils are used primarily for space heating and electric power generation.

Dry Hole: An exploratory or development well found to be incapable of producing either oil or gas in sufficient quantities to justify completion as an oil or gas well.

Dry Natural Gas Production: See Natural Gas (Dry) Production.

Electrical System Energy Losses: The amount of energy lost during generation, transmission, and distribution of electricity, including plant and unaccounted-for uses.

Electricity: A form of energy characterized by the presence and motion of elementary charged particles generated by friction, induction, or chemical change.

Electricity Generation: The process of producing electric energy, or the amount of electric energy produced by transforming other forms of energy, commonly expressed in **kilowatthours** (kWh) or megawatthours (Mwh).

Electricity Generation, Gross: The total amount of electric energy produced by generating units and

measured at the generating terminal in **kilowatthours** (kWh) or megawatthours (MWh).

Electricity Generation, Net: The amount of gross electricity generation less the electrical energy consumed at the generating station(s) for station service or auxiliaries. Note: Electricity required for pumping at hydroelectric pumped-storage plants is regarded as electricity for station service and is deducted from gross generation.

Electricity-Only Plant: A plant designed to produce electricity only. See also Combined-Heat-and-Power (CHP) Plant.

Electricity Retail Sales: The amount of electricity sold to customers purchasing electricity for their own use and not for resale.

Electric Power Plant: A station containing prime movers, electric generators, and auxiliary equipment for converting mechanical, chemical, and/or fission energy into electric energy.

Electric Power Sector: An energy-consuming sector that consists of electricity-only and combined-heat-and-power (CHP) plants whose primary business is to sell electricity, or electricity and heat, to the public—i.e., North American Industry Classification System 22 plants. See also Combined-Heat-and-Power (CHP) Plant, Electricity-Only Plant, Electric Utility, and Independent Power Producer.

Electric Utility: A corporation, person, agency, authority, or other legal entity or instrumentality aligned with distribution facilities for delivery of electric energy for use primarily by the public. Included are investor-owned electric utilities, municipal and State utilities, Federal electric utilities, and rural electric cooperatives. A few entities that are tariff based and corporately aligned with companies that own distribution facilities are also included. Note: Due to the issuance of FERC Order 888 that required traditional electric utilities to functionally unbundle their generation, transmission, and distribution operations, "electric utility" currently has inconsistent interpretations from State to State.

End-Use Sectors: The residential, commercial, industrial, and transportation sectors of the economy.

Energy: The capacity for doing work as measured by the capability of doing work (potential energy) or the conversion of this capability to motion (kinetic energy). Energy has several forms, some of which are easily convertible and can be changed to another form useful for work. Most of the world's convertible energy comes from fossil fuels that are burned to produce heat that is then used as a transfer medium to mechanical or other

means in order to accomplish tasks. Electrical energy is usually measured in kilowatthours, while heat energy is usually measured in British thermal units.

Energy Consumption: The use of energy as a source of heat or power or as an input in the manufacturing process.

Energy Service Provider: An energy entity that provides service to a retail or end-use customer.

Energy-Use Sectors: A group of major energy-consuming components of U.S. society developed to measure and analyze energy use. The sectors most commonly referred to in EIA are: residential, commercial, industrial, transportation, and electric power.

Ethane: A normally gaseous straight-chain hydrocarbon (C₂H₆). It is a colorless, paraffinic gas that boils at a temperature of -127.48° F. It is extracted from natural gas and refinery gas streams.

Ethanol: An anhydrous denatured aliphatic alcohol intended for gasoline blending. See Oxygenates.

Ethylene: An olefinic hydrocarbon (C₂H₄) recovered from refinery processes or petrochemical processes.

Exploratory Well: A well drilled to find and produce oil or gas in an area previously considered an unproductive area, to find a new reservoir in a known field (i.e., one previously found to be producing oil or gas in another reservoir), or to extend the limit of a known oil or gas reservoir.

Exports: Shipments of goods from within the 50 States and the District of Columbia to U.S. possessions and territories or to foreign countries.

Extraction Loss: The reduction in volume of natural gas due to the removal of natural gas liquid constituents, such as ethane, propane, and butane, at natural gas processing plants.

Federal Energy Administration (FEA): A predecessor of the Energy Information Administration.

Federal Energy Regulatory Commission (FERC): The Federal agency with jurisdiction over interstate electricity sales, wholesale electric rates, hydroelectric licensing, natural gas pricing, oil pipeline rates, and gas pipeline certification. FERC is an independent regulatory agency within the Department of Energy and is the successor to the Federal Power Commission.

Federal Power Commission (FPC): The predecessor agency of the Federal Energy Regulatory Commission. The Federal Power Commission was created by an Act of Congress under the Federal Water Power Act on June 10,

1920. It was charged originally with regulating the electric power and natural gas industries. It was abolished on September 30, 1977, when the Department of Energy was created. Its functions were divided between the Department of Energy and the Federal Energy Regulatory Commission, an independent regulatory agency.

First Purchase Price: The marketed first sales price of domestic crude oil, consistent with the removal price defined by the provisions of the Windfall Profits Tax on Domestic Crude Oil (Public Law 96-223, Sec. 4998 (c)).

Flared Natural Gas: Natural gas burned in flares on the base site or at gas processing plants.

F.O.B. (Free on Board): A sales transaction in which the seller makes the product available for pick up at a specified port or terminal at a specified price and the buyer pays for the subsequent transportation and insurance.

Footage Drilled: Total footage for wells in various categories, as reported for any specified period, includes (1) the deepest total depth (length of well bores) of all wells drilled from the surface, (2) the total of all bypassed footage drilled in connection with reported wells, and (3) all new footage drilled for directional sidetrack wells. Footage reported for directional sidetrack wells does not include footage in the common bore, which is reported as footage for the original well. In the case of old wells drilled deeper, the reported footage is that which was drilled below the total depth of the old well.

Former U.S.S.R.: See U.S.S.R.

Fossil Fuel: An energy source formed in the Earth's crust from decayed organic material, such as **petroleum**, **coal**, and **natural gas**.

Fossil-Fueled Steam-Electric Power Plant: An electricity generation plant in which the prime mover is a turbine rotated by high-pressure steam produced in a boiler by heat from burning fossil fuels.

Fuel Ethanol: An anhydrous, denatured aliphatic alcohol (C₂H₅OH) intended for motor gasoline blending. See Oxygenates.

Full-Power Operation: Operation of a nuclear generating unit at 100 percent of its design capacity. Full-power operation precedes commercial operation.

Gasohol: A blend of finished motor gasoline containing alcohol (generally ethanol but sometimes methanol) at a concentration between 5.7 percent and 10 percent by volume. See Motor Gasoline, Oxygenated.

Gas Well: A well completed for the production of natural gas from one or more gas zones or reservoirs. (Wells

producing both crude oil and natural gas are classified as oil wells.)

Geothermal Energy: Hot water or steam extracted from geothermal reservoirs in the earth's crust and used for geothermal heat pumps, water heating, or electricity generation.

Gross Domestic Product (GDP): The total value of goods and services produced by labor and property located in the United States. As long as the labor and property are located in the United States, the supplier (that is, the workers and, for property, the owners) may be either U.S. residents or residents of foreign countries.

GT/IC: Gas turbine and internal combustion plants.

Heat Content of a Quantity of Fuel, Gross: The total amount of heat released when a fuel is burned. Coal, crude oil, and natural gas all include chemical compounds of carbon and hydrogen. When those fuels are burned, the carbon and hydrogen combine with oxygen in the air to produce carbon dioxide and water. Some of the energy released in burning goes into transforming the water into steam and is usually lost. The amount of heat spent in transforming the water into steam is counted as part of gross heat content but is not counted as part of net heat content. It is also referred to as the higher heating value. Btu conversion factors typically used in EIA represent gross heat content.

Heat Content of a Quantity of Fuel, Net: The amount of usable heat energy released when a fuel is burned under conditions similar to those in which it is normally used. Also referred to as the lower heating value. Btu conversion factors typically used in EIA represent gross heat content.

Heavy Oil: The fuel oils remaining after the lighter oils have been distilled off during the refining process. Except for start-up and flame stabilization, virtually all petroleum used in steam-electric power plants is heavy oil.

Hydrocarbon: An organic chemical compound of hydrogen and carbon in the gaseous, liquid, or solid phase. The molecular structure of hydrocarbon compounds varies from the simplest (methane, the primary constituent of natural gas) to the very heavy and very complex.

Hydroelectric Power: The production of electricity from the kinetic energy of falling water.

Hydroelectric Power Plant: A plant in which the turbine generators are driven by falling water.

Hydroelectric Pumped Storage: Hydroelectricity that is generated during peak load periods by using water

previously pumped into an elevated storage reservoir during off-peak periods when excess generating capacity is available to do so. When additional generating capacity is needed, the water can be released from the reservoir through a conduit to turbine generators located in a power plant at a lower level.

Imports: Receipts of goods into the 50 States and the District of Columbia from U.S. possessions and territories or from foreign countries.

Independent Power Producer: A corporation, person, agency, authority, or other legal entity or instrumentality that owns or operates facilities for the generation of electricity for use primarily by the public, and that is not an **electric utility**.

Industrial Sector: An energy-consuming sector that consists of all facilities and equipment used for producing, processing, or assembling goods. The industrial sector encompasses the following types of activity: manufacturing (NAICS (North American Industry Classification System) codes 31-33); agriculture, forestry, fishing and hunting (NAICS code 11); mining, including oil and gas extraction (NAICS code 21); natural gas distribution (NAICS code 2212); and construction (NAICS code 23). Overall energy use in this sector is largely for process heat and cooling and powering machinery, with lesser amounts used for facility heating, air conditioning, and lighting. Fossil fuels are also used as raw material inputs to manufactured products. Note: This sector includes generators that produce electricity and/or useful thermal output primarily to support the above-mentioned industrial activities.

Injections (Natural Gas): Natural gas injected into storage reservoirs.

Isobutane: A normally gaseous branch-chain hydrocarbon. It is a colorless paraffinic gas that boils at a temperature of 10.9° F. It is extracted from natural gas or refinery gas streams. See **Butane**.

Isobutylene: An olefinic hydrocarbon recovered from refinery processes or petrochemical processes.

Isopentane: A saturated branched-chain hydrocarbon obtained by fractionation of natural gasoline or isomerization of normal pentane.

Jet Fuel: A refined petroleum product used in jet aircraft engines. It includes kerosene-type jet fuel and naphtha-type jet fuel.

Jet Fuel, Kerosene-Type: A kerosene-based product with a maximum distillation temperature of 400° F at the 10-percent recovery point and a final maximum boiling point of 572° F. Fuel specifications are provided in ASTM Specification D 1655 and Military Specifications MIL-T-5624P and MIL-T-83133D (Grades JP-5 and JP-8). It is

used primarily for commercial turbojet and turboprop aircraft engines.

Jet Fuel, Naphtha-Type: A fuel in the heavy naphtha boiling range, with an average gravity of 52.8 degrees API, 20 to 90 percent distillation temperatures of 290° to 470° F and meeting Military Specification MIL-T-5624L (Grade JP-4). It is used by the military for turbojet and turboprop engines.

Kerosene: A petroleum distillate having a maximum distillation temperature of 401° F at the 10-percent recovery point, a final boiling point of 572° F, and a minimum flash point of 100° F. Included are the two grades designated in ASTM D3699 (No. 1-K and No. 2-K) and all grades of kerosene called range or stove oil. Kerosene is used in space heaters, cook stoves, and water heaters; it is suitable for use as an illuminant when burned in wick lamps.

Kilowatt: A unit of electrical power equal to 1,000 watts.

Kilowatthour (kWh): A measure of electricity defined as a unit of work or energy, measured as 1 **kilowatt** (1,000 **watts**) of power expended for 1 hour. One kilowatthour is equivalent to 3,412 Btu. See **Watthour**.

Landed Costs: The dollar-per-barrel price of crude oil at the port of discharge. Included are the charges associated with the purchase, transporting, and insuring of a cargo from the purchase point to the port of discharge. Not included are charges incurred at the discharge port (e.g., import tariffs or fees, wharfage charges, and demurrage charges).

Lease and Plant Fuel: Natural gas used in well, field, and lease operations (such as gas used in drilling operations, heaters, dehydrators, and field compressors) and used as fuel in natural gas processing plants.

Lease Condensate: A mixture consisting primarily of pentanes and heavier hydrocarbons, which is recovered as a liquid from natural gas in lease or field separation facilities. Note: This category excludes natural gas liquids, such as butane and propane, which are recovered at natural gas processing plants or facilities.

Light Oil: Lighter fuel oils distilled off during the refining process. Virtually all petroleum used in internal combustion and gas-turbine engines is light oil.

Lignite: The lowest rank of coal. Often referred to as brown coal, it is used almost exclusively as fuel for steam-electric power generation. It is brownish-black and has a high inherent moisture content, sometimes as high as 45 percent. The heat content of lignite ranges from 9 to 17 million Btu per ton on a moist, mineral-matter-free basis. The heat content of lignite consumed in the United States

averages 14 million Btu per ton, on the as-received basis (i.e., containing both inherent moisture and mineral matter).

Liquefied Natural Gas (LNG): Natural gas (primarily methane) that has been liquefied by reducing its temperature to -260° F at atmospheric pressure.

Liquefied Petroleum Gases (LPG): Ethane, ethylene, propane, propylene, normal butane, butylene, and isobutane produced at refineries or natural gas processing plants, including plants that fractionate new natural gas plant liquids.

Low-Power Testing: The period of time between a nuclear generating unit's initial fuel loading date and the issuance of its operating (full-power) license. The maximum level of operation during that period is 5 percent of the unit's design thermal rating.

Lubricants: Substances used to reduce friction between bearing surfaces or as process materials either incorporated into other materials used as processing aids in the manufacturing of other products or as carriers of other materials. Petroleum lubricants may be produced either from distillates or residues. Other substances may be added to impart or improve certain required properties. Excluded are byproducts of lubricating oil refining, such as aromatic extracts derived from solvent extraction or tars derived from deasphalting. Included are all grades of lubricating oils from spindle oil to cylinder oil and those used in greases. Lubricant categories are paraffinic and naphthenic.

Marketed Production (Natural Gas): Gross withdrawals less gas used for repressuring, quantities vented and flared, and nonhydrocarbon gases removed in treating or processing operations. Includes all quantities of gas used in field and processing operations.

Methane: A colorless, flammable, odorless, hydrocarbon gas (CH₄) that is the principal constituent of natural gas. It is also an important source of hydrogen in various industrial processes.

Methyl Tertiary Butyl Ether (MTBE): An ether, (CH₃)₃COCH₃, intended for motor gasoline blending. See Oxygenates.

Methanol: A light, volatile alcohol (CH₃OH) eligible for motor gasoline blending. See **Oxygenates**.

Miscellaneous Petroleum Products: All finished petroleum products not classified elsewhere—for example, petrolatum, lube refining byproducts (aromatic extracts and tars), absorption oils, ram-jet fuel, petroleum rocket fuels, synthetic natural gas feedstocks, and specialty oils.

Motor Gasoline Blending: Mechanical mixing of motor gasoline blending components and oxygenates as required, to produce finished motor gasoline. Finished motor gasoline may be further mixed with other motor gasoline blending components or oxygenates, resulting in increased volumes of finished motor gasoline and/or changes in the formulation of finished motor gasoline (e.g., conventional motor gasoline mixed with MTBE to produce oxygenated motor gasoline).

Motor Gasoline Blending Components: Naphtha (e.g., straight-run gasoline, alkylate, reformate, benzene, toluene, xylene) used for blending or compounding into finished motor gasoline. These components include reformulated gasoline blendstock (RBOB) but exclude oxygenates (alcohols, ethers), butane, and pentanes plus. Note: oxygenates are reported as individual components and are included in the total for other hydrocarbons, hydrogens, and oxygenates.

Motor Gasoline, Finished: A complex mixture of relatively volatile hydrocarbons with or without small quantities of additives, blended to form a fuel suitable for use in sparkignition. Motor gasoline, as defined in ASTM Specification D-4814 or Federal Specification VV-G-1690C, is characterized as having a boiling range of 122°F to 158°F at the 10-percent recovery point to 365°F to 374°F at the 90-percent recovery point. "Motor gasoline" includes conventional gasoline, all types of oxygenated gasoline including gasohol, and reformulated gasoline, but excludes aviation gasoline. Note: Volumetric data on blending components, as well as oxygenates, are not counted in data on finished motor gasoline until the blending components are blended into the gasoline.

Motor Gasoline Grades: The classification of gasoline by octane ratings. Each type of gasoline (conventional, oxygenated, and reformulated) is classified by three grades: regular, midgrade, and premium. Note: Gasoline sales are reported by grade in accordance with their classification at the time of sale. In general, automotive octane requirements are lower at high altitudes. Therefore, in some areas of the United States, such as the Rocky Mountain States, the octane ratings for the gasoline grades may be 2 or more octane points lower.

Regular Gasoline: Gasoline having an antiknock index, i.e., octane rating, greater than or equal to 85 and less than 88. Note: Octane requirements may vary by altitude. See **Motor Gasoline Grades**.

Midgrade Gasoline: Gasoline having an antiknock index, i.e., octane rating, greater than or equal to 88 and less than or equal to 90. Note: Octane requirements may vary by altitude. See **Motor Gasoline Grades**.

Premium Gasoline: Gasoline having an antiknock index, i.e., octane rating, greater than 90. Note: Octane requirements may vary by altitude. See **Motor Gasoline Grades**.

Motor Gasoline, Oxygenated: Finished motor gasoline, other than reformulated gasoline, having an oxygen content of 2.7 percent or higher by weight and required by the U.S. Environmental Protection Agency (EPA) to be sold in areas designated by EPA as carbon monoxide (CO) nonattainment areas. Note: Oxygenated gasoline excludes oxygenated fuels program reformulated gasoline (OPRG) and reformulated gasoline blendstock for oxygenate blending (RBOB). Data on gasohol that has at least 2.7 percent oxygen, by weight, and is intended for sale inside CO nonattainment areas are included in data on oxygenated gasoline. Other data on gasohol are included in data on conventional gasoline.

Motor Gasoline, Reformulated: Finished motor gasoline formulated for use in motor vehicles, the composition and properties of which meet the requirements of the reformulated gasoline regulations promulgated by the U.S. Environmental Protection Agency under Section 211(k) of the Clean Air Act. Note: This category includes oxygenated fuels program reformulated gasoline (OPRG) but excludes reformulated gasoline blendstock for oxygenate blending (RBOB).

Motor Gasoline Retail Prices: Motor gasoline prices calculated each month by the Bureau of Labor Statistics (BLS) in conjunction with the construction of the Consumer Price Index (CPI). Those prices are collected in 85 urban areas selected to represent all urban consumers—about 80 percent of the total U.S. population. The service stations are selected initially, and on a replacement basis, in such a way that they represent the purchasing habits of the CPI population. Service stations in the current sample include those providing all types of service (i.e., full-, mini-, and self-service.

Motor Gasoline (Total): For stock level data, a sum including finished motor gasoline stocks plus stocks of motor gasoline blending components but excluding stocks of oxygenates.

MTBE: See Methyl Tertiary Butyl Ether.

NAICS (North American Industry Classification System) A coding system developed jointly by the United States, Canada, and Mexico to classify businesses and industries according to the type of economic activity in which they are engaged. NAICS replaces the Standard Industrial Classification (SIC) codes. For additional information on NAICS, go to http://www.census.gov/epcd/www/naics.html.

Naphtha: A generic term applied to a petroleum fraction with an approximate boiling range between 122 and 400° F.

Natural Gas: A gaseous mixture of hydrocarbon compounds, primarily methane, used as a fuel for electricity generation and in a variety of ways in buildings, and as raw material input and fuel for industrial processes.

Natural Gas, Dry: Natural gas which remains after: 1) the liquefiable hydrocarbon portion has been removed from the gas stream (i.e., gas after lease, field, and/or plant separation); and 2) any volumes of nonhydrocarbon gases have been removed where they occur in sufficient quantity to render the gas unmarketable. Note: Dry natural gas is also known as consumer-grade natural gas. The parameters for measurement are cubic feet at 60 degrees Fahrenheit and 14.73 pounds per square inch absolute.

Natural Gas (Dry) Production: The process of producing consumer-grade natural gas. Natural gas withdrawn from reservoirs is reduced by volumes used at the production (lease) site and by processing losses. Volumes used at the production site include 1) the volume returned to reservoirs in cycling, repressuring of oil reservoirs, and conservation operations; and 2) gas vented and flared. Processing losses include 1) nonhydrocarbon gases (e.g., water vapor, carbon dioxide, helium, hydrogen sulfide, and nitrogen) removed from the gas stream; and 2) gas converted to liquid form, such as lease condensate and plant liquids. Volumes of dry gas withdrawn from gas storage reservoirs are not considered part of production. Dry natural gas production equals marketed production less extraction loss.

Natural Gas Marketed Production: Gross withdrawals of natural gas from production reservoirs, less gas used for reservoir repressuring; nonhydrocarbon gases removed in treating and processing operations; and quantities vented and flared.

Natural Gas Plant Liquids (NGPL): Natural gas liquids recovered from natural gas in processing plants and, in some situations, from natural gas field facilities, as well as those extracted by fractionators. Natural gas plant liquids are defined according to the published specifications of the Gas Processors Association and the American Society for Testing and Material as follows: ethane, propane, normal butane, isobutane, pentanes plus, and other products from natural gas processing plants (i.e., products meeting the standards for finished petroleum products produced at natural gas processing plants, such as finished motor gasoline, finished aviation gasoline, special naphthas, kerosene, distillate fuel oil, and miscellaneous products).

Natural Gas Wellhead Price: The wellhead price of natural gas is calculated by dividing the total reported value at the wellhead by the total quantity produced as reported by the appropriate agencies of individual producing States and the U.S. Minerals Management Service. The price includes all costs prior to shipment from the lease, including gathering and compression costs, in addition to State production, severance, and similar charges.

Natural Gasoline: A mixture of hydrocarbons (mostly pentanes and heavier) extracted from natural gas that meets vapor pressure, end-point, and other specifications for natural gasoline set by the Gas Processors Association. Includes isopentane, which is a saturated branch-chain hydrocarbon

obtained by fractionation of natural gasoline or isomerization of normal pentane.

Net Summer Capacity: The maximum output, commonly expressed in **kilowatts** (kW) or megawatts (MW), that generating equipment can supply to system load, as demonstrated by a multi-hour test, at the time of summer peak demand. This output reflects a reduction in capacity due to electricity use for station service or auxiliaries.

Neutral Zone: A 6,200 square-mile area shared equally between Kuwait and Saudi Arabia under a 1992 agreement. The Neutral Zone contains an estimated 5 billion barrels of oil and 8 trillion cubic feet of natural gas.

Nonhydrocarbon Gases: Typical nonhydrocarbon gases that may be present in reservoir natural gas are carbon dioxide, helium, hydrogen sulfide, and nitrogen.

Nuclear Electric Power (Nuclear Power): Electricity generated by the use of the thermal energy released from the fission of nuclear fuel in a reactor.

Nuclear Electric Power Plant: A single-unit or multiunit facility in which heat produced in one or more reactors by the fissioning of nuclear fuel is used to drive one or more steam turbines.

Nuclear Reactor: An apparatus in which a nuclear fission chain reaction can be initiated, controlled, and sustained at a specific rate. A reactor includes fuel (fissionable material), moderating material to control the rate of fission, a heavy-walled pressure vessel to house reactor components, shielding to protect personnel, a system to conduct heat away from the reactor, and instrumentation for monitoring and controlling the reactor's systems.

Offshore: That geographic area that lies seaward of the coastline. In general, the coastline is the line of ordinary low water along with that portion of the coast that is in direct contact with the open sea or the line marking the seaward limit of inland water.

Oil: See Crude Oil.

Operable Unit (Nuclear): In the United States, a nuclear generating unit that has completed low-power testing and been issued a full-power operating license by the Nuclear Regulatory Commission, or equivalent permission to operate.

Organization for Economic Cooperation and Development (OECD): Members are Australia, Austria, Belgium, Canada, Denmark, Faeroe Islands, Finland, France, Germany, Greece, Greenland, Hawaiian Trade Zone, Iceland, Ireland, Italy, Japan, Luxembourg, Mexico, Netherlands, New Zealand, Norway, Portugal, Spain, Sweden, Switzerland, Turkey, United Kingdom, and United States

and its territories (Guam, Puerto Rico, and the Virgin Islands). In addition, Czech Republic, Hungary, Poland, and South Korea joined the OECD in 1996.

Organization of Petroleum Exporting Countries (OPEC): Countries that have organized for the purpose of negotiating with oil companies on matters of oil production, prices, and future concession rights. Current members are Algeria, Indonesia, Iran, Iraq, Kuwait, Libya, Nigeria, Qatar, Saudi Arabia, the United Arab Emirates, and Venezuela.

Oxygenates: Substances which, when added to gasoline, increase the amount of oxygen in that gasoline blend. Ethanol, Methyl Tertiary Butyl Ether (MTBE), Ethyl Tertiary Butyl Ether (ETBE), and methanol are common oxygenates.

PAD Districts: Petroleum Administration for Defense Districts. Geographic aggregations of the 50 States and the District of Columbia into five districts for the Petroleum Administration for Defense in 1950. The districts were originally instituted for economic and geographic reasons as Petroleum Administration for War (PAW) Districts, which were established in 1942.

Pentanes Plus: A mixture of hydrocarbons, mostly pentanes and heavier, extracted from natural gas. Includes isopentane, natural gasoline, and plant condensate.

Petrochemical Feedstocks: Chemical feedstocks derived from petroleum principally for the manufacture of chemicals, synthetic rubber, and a variety of plastics.

Petroleum: A broadly defined class of liquid hydrocarbon mixtures. Included are crude oil, lease condensate, unfinished oils, refined products obtained from the processing of crude oil, and natural gas plant liquids. Note: Volumes of finished petroleum products include nonhydrocarbon compounds, such as additives and detergents, after they have been blended into the products.

Petroleum Coke: See Coke, Petroleum.

Petroleum Consumption: The sum of all refined petroleum products supplied. For each refined petroleum product, the amount supplied is calculated by adding production and imports, then subtracting changes in primary stocks (net withdrawals are a plus quantity and net additions are a minus quantity) and exports.

Petroleum Imports: Imports of petroleum into the 50 States and the District of Columbia from foreign countries and from Puerto Rico, the Virgin Islands, and other U.S. territories and possessions. Included are imports for the Strategic Petroleum Reserve and withdrawals from bonded warehouses for onshore consumption, offshore bunker use, and military use. Excluded are receipts of

foreign petroleum into bonded warehouses and into U.S. territories and U.S. Foreign Trade Zones.

Petroleum Products: Products obtained from the processing of crude oil (including lease condensate), natural gas, and other hydrocarbon compounds. Petroleum products include unfinished oils, liquefied petroleum gases, pentanes plus, aviation gasoline, motor gasoline, naphtha-type jet fuel, kerosene-type jet fuel, kerosene, distillate fuel oil, residual fuel oil, petrochemical feedstocks, special naphthas, lubricants, waxes, petroleum coke, asphalt, road oil, still gas, and miscellaneous products.

Petroleum Products Supplied: Same as **Petroleum Consumption**.

Petroleum Stocks, Primary: For individual products, quantities that are held at refineries, in pipelines, and at bulk terminals that have a capacity of 50,000 barrels or more, or that are in transit thereto. Stocks held by product retailers and resellers, as well as tertiary stocks held at the point of consumption, are excluded. Stocks of individual products held at gas processing plants are excluded from individual product estimates but are included in other oils estimates and total.

Photovoltaic Energy: Direct-current electricity generated from sunlight through solid-state semiconductor devices that have no moving parts.

Pipeline Fuel: Gas consumed in the operation of pipelines, primarily in compressors.

Plant Condensate: One of the natural gas liquids, mostly pentanes and heavier hydrocarbons, recovered and separated as liquid at gas inlet separators or scrubbers in processing plants.

Prime Mover: The engine, turbine, water wheel, or similar machine that drives an electric generator; or, for reporting purposes, a device that converts energy to electricity directly.

Primary Consumption: Includes consumption of coal, natural gas, petroleum, nuclear electric power, hydroelectric power, wood, waste, alcohol fuels, geothermal, solar, wind, net imports of coal coke, and net imports of electricity.

Propane: A normally gaseous straight-chain hydrocarbon (C₃H₈). It is a colorless paraffinic gas that boils at a temperature of -43.67° F. It is extracted from natural gas or refinery gas streams. It includes all products designated in ASTM Specification D1835 and Gas Processors Association Specifications for commercial propane and HD-5 propane.

Propylene: An olefinic hydrocarbon (C₃H₆) recovered from refinery or petrochemical processes.

Refiner Acquisition Cost of Crude Oil: The cost of crude oil to the refiner, including transportation and fees. The composite cost is the weighted average of domestic and imported crude oil costs.

Refinery (Petroleum): An installation that manufactures finished petroleum products from crude oil, unfinished oils, natural gas liquids, other hydrocarbons, and alcohol.

Renewable Energy: Energy obtained from sources that are essentially inexhaustible (unlike, for example, the fossil fuels, of which there is a finite supply). Renewable sources of energy include conventional hydrolectric power, wood, waste, alcohol fuels, geothermal, solar, and wind.

Repressuring: The injection of a pressurized fluid (such as air, gas, or water) into oil and gas reservoir formations to effect greater ultimate recovery.

Residential Sector: An energy-consuming sector that consists of living quarters for private households. Common uses of energy associated with this sector include space heating, water heating, air conditioning, lighting, refrigeration, cooking, and running a variety of other appliances. The residential sector excludes institutional living quarters. For further explanation see http://www.eia.doe.gov/neic/datadefinitions/Guideforwebres.htm.

Residual Fuel Oil: The heavier oils that remain after the distillate fuel oils and lighter hydrocarbons are distilled away in refinery operations and that conform to ASTM Specifications D396 and 975. Included are No. 5, a residual fuel oil of medium viscosity; Navy Special, for use in steampowered vessels in government service and in shore power plants; and No. 6, which includes Bunker C fuel oil and is used for commercial and industrial heating, for electricity generation, and to power ships. Imports of residual fuel oil include imported crude oil burned as fuel.

Road Oil: Any heavy petroleum oil, including residual asphaltic oil used as a dust palliative and surface treatment on roads and highways. It is generally produced in six grades, from 0, the most liquid, to 5, the most viscous.

Rotary Rig: A machine used for drilling wells that employs a rotating tube attached to a bit for boring holes through rock.

Short Ton (Coal): A unit of weight equal to 2,000 pounds.

SIC (Standard Industrial Classification): A set of codes developed by the U.S. Office of Management and Budget which categorizes industries into groups with similar

economic activities. Replaced by NAICS (North American Industry Classification System).

Solar Energy: See Solar Thermal Energy and Photovoltaic Energy.

Solar Thermal Energy: The radiant energy of the sun that can be converted into other forms of energy, such as heat or **electricity**.

Special Naphthas: All finished products within the naphtha boiling ranges that are used as paint thinner, cleaners or solvents. Those products are refined to a specified flash point. Special naphthas include all commercial hexane and cleaning solvents conforming to ASTM Specifications D1836 and D484, respectively. Naphthas to be blended or marketed as motor gasoline or aviation gasoline, or that are to be used as petrochemical and synthetic natural gas (SNG) feedstocks, are excluded.

Steam Coal: All nonmetallurgical coal.

Steam-Electric Power Plant: A plant in which the prime mover is a steam turbine. The steam used to drive the turbine is produced in a boiler where fossil fuels are burned.

Still Gas (Refinery Gas): Any form or mixture of gas produced in refineries by distillation, cracking, reforming, and other processes. The principal constituents are methane, ethane, ethylene, normal butane, butylene, propane, and propylene. It is used primarily as refinery fuel and, petrochemical feedstock.

Stocks: See Coal Stocks, Crude Oil Stocks, or Petroleum Stocks, Primary.

Strategic Petroleum Reserve (SPR): Petroleum stocks maintained by the Federal Government for use during periods of major supply interruption.

Supplemental Gaseous Fuels: Synthetic natural gas, propane-air, coke oven gas, refinery gas, biomass gas, air injected for Btu stabilization, and manufactured gas commingled and distributed with natural gas.

Synthetic Natural Gas (SNG): (Also referred to as substitute natural gas) A manufactured product, chemically similar in most respects to natural gas, resulting from the conversion or reforming of petroleum hydrocarbons that may easily be substituted for or interchanged with pipelinequality natural gas.

Thermal Conversion Factor: See Conversion Factor.

Transportation Sector: An energy-consuming sector that consists of all vehicles whose primary purpose is transporting people and/or goods from one physical location to another. Included are automobiles; trucks; buses; motorcycles; trains, subways, and other rail vehicles; aircraft; and ships, barges, and other waterborne vehicles. Vehicles whose primary purpose is not transportation (e.g., construction cranes and bulldozers, farming vehicles, and warehouse tractors and forklifts) are classified in the sector of their primary use. *Note*: Various EIA programs differ in sectoral coverage. For further information see http://www.eia.doe.gov/neic/datadefinitions/Guideforwebtrans.htm.

Unaccounted-for Crude Oil: Represents the arithmetic difference between the calculated supply and the calculated disposition of crude oil. The calculated supply is the sum of crude oil production plus imports minus changes in crude oil stocks. The calculated disposition of crude oil is the sum of crude oil input to refineries, crude oil exports, crude oil burned as fuel, and crude oil losses.

Unfinished Oils: All oils requiring further refinery processing except those requiring only mechanical blending. Includes naphthas and lighter oils, kerosene and light gas oils, heavy gas oils, and residuum.

Unfractionated Stream: Mixtures of unsegregated natural gas liquid components, excluding those in plant condensate. This product is extracted from natural gas.

Underground Storage: The storage of natural gas in underground reservoirs at a different location from which it was produced.

United States: The 50 States and the District of Columbia. Note: The United States has varying degrees of jurisdiction over a number of territories and other political entities outside the 50 States and the District of Columbia, including Puerto Rico, the U.S. Virgin Islands, Guam, American Samoa, Johnston Atoll, Midway Islands, Wake Island, and the Northern Mariana Islands. EIA data programs may include data from some or all of these areas in U.S. totals. For these programs, data products will contain notes explaining the extent of geographic coverage included under the term "United States."

Useful Thermal Output: The thermal energy made available in a combined-heat-and-power system for use in any industrial or commercial process, heating or cooling application, or delivered to other end users, i.e., total thermal energy made available for processes and applications other than electrical generation.

U.S.S.R.: The Union of Soviet Socialist Republics consisted of 15 constituent republics: Armenia, Azerbaijan, Belarus, Estonia, Georgia, Kazakhstan, Kyrgyzstan, Latvia,

Lithuania, Moldova, Russia, Tajikistan, Turkmenistan, Ukraine, and Uzbekistan. As a political entity, the U.S.S.R. ceased to exist as of December 31, 1991.

Vented Natural Gas: Gas released into the air on the production site or at processing plants.

Vessel Bunkering: Includes sales for the fueling of commercial or private boats, such as pleasure craft, fishing boats, tugboats, and ocean-going vessels, including vessels operated by oil companies. Excluded are volumes sold to the U.S. Armed Forces.

Waste Energy: Municipal solid waste, landfill gas, methane, digester gas, liquid acetonitrile waste, tall oil, waste alcohol, medical waste, paper pellets, sludge waste, solid byproducts, tires, agricultural byproducts, closed loop biomass, fish oil, and straw used as fuel.

Watt (W): The unit of electrical power equal to one ampere under a pressure of one volt. A watt is equal to 1/746 horsepower.

Watthour (Wh): The electrical energy unit of measure equal to one watt of power supplied to, or taken from, an electric circuit steadily for one hour.

Waxes: Solid or semisolid material derived from petroleum distillates or residues. Waxes are light-colored, more or less translucent crystalline masses, slightly greasy to the touch, consisting of a mixture of solid hydrocarbons in which the paraffin series predominates. Included are all marketable waxes, whether crude scale or fully refined. Waxes are used primarily as industrial coating for surface protection.

Wellhead Price: The value of crude oil or natural gas at the mouth of the well.

Wind Energy: Kinetic energy present in wind motion that can be converted to mechanical energy for driving pumps, mills, and electric power generators.

Wood Energy: Wood and wood products used as fuel, including round wood (cord wood), limb wood, wood chips, bark, sawdust, forest residues, charcoal, pulp waste, and spent pulping liquor.

Working Gas: The volume of gas in a reservoir that is in addition to the base gas. It may or may not be completely withdrawn during any particular withdrawal season. Conditions permitting, the total working capacity could be used more than once during any season.