Monthly Energy Review

June 2001

Energy Information Administration

Monthly Energy Review

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

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Energy Market Maps

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bers of the Department of Energy's

Clean Cities Coalition-a govern-

Cities. State capitals, cities of at

The Energy Information Administration has developed a group of new web products, Energy Market Maps, which show the geographic location of key energy sites as of the year 2000. The map series covers the nine U.S. Census Divisions and includes maps of three States in the Pacific Census Division (Alaska, Hawaii, and California) in order to show more detail than would be possible at Division scale. Eleven of the 12 maps in the series have been completed. All contain the same basic information:

of the year ment-industry partnership to expand the use of alternative-fuel vehicles are shown. (Only those Coalition members that can be identified with a particular city are included; i.e., San Francisco is shown but the State of Vermont, also a member, is not.) *Electricity.* Electricity generation plants, both utility and nonutility, with a net summer capacity of at least 100 megawatts are shown. All nuclear power plants are displayed, as are all electricity transmission lines with voltages of 500 kilovolts or more. An important feature is that major electricity transmission lines and natural gas pipeline flows are shown on the same map. *Natural gas.* Natural gas transportation routes with capacities of 100 million cubic feet or more per day are shown. The capacities are determined at State borders and nearby compressor stations; arrows indicate the direction of net flow. Every natural gas market

cal transfer point for natural gas where the operator also offers services that facilitate the buying, selling, and transportation of natural gas.)

Petroleum. Ports of entry for crude oil and petroleum product imports with activity of at least 10,000 barrels per day in 1999 and 2000 are shown on the maps. Every petroleum refinery that was operable as of January 1, 2000, is also shown.

State-Specific Sites. In addition to the national map elements shown on every map in the series, several States display additional key energy-related sites. For example, the California map includes The Geysers, the site of the first electricity generation from geothermal energy in the United States. The Alaska map includes the Trans-Alaska pipeline, the National Petroleum Reserve–Alaska, and the Arctic National Wildlife Refuge.

Detailed information on the sources and selection criteria for all map elements is given in the documentation, which is available via an electronic link below each map.

Energy Market Maps are an element of the Energy Information Administration's Regional Energy Profiles. The maps are available only via EIA's World Wide Web site, where they are rendered in full color and in clearer detail than can be shown in print. To access the maps, go to www.eia.doe.gov and click on By Sector, All Sectors, and then Energy Mar-Maps. Contact wmaster@ ket eia.doe.gov or call 202-586-8959 if you have problems. Questions about the Energy Market Maps should be directed to Barbara Fichman, Office of Energy Markets and End Use, at barbara.fichman@eia.doe.gov or 202-586-5737. 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 March 2001 totaled 6.3 quadrillion Btu, a 0.5-percent increase compared with the level of production during March 2000. Production of natural gas plant liquids decreased 7.9 percent; nuclear electric power increased 4.6 percent; natural gas (dry) increased 2.5 percent; crude oil decreased 0.7 percent; and coal increased 0.1 percent, compared with the level of production during March 2000.

Energy consumption during March 2001 totaled 8.7 quadrillion Btu, 5.0 percent above the level of con-

sumption during March 2000. Consumption of natural gas increased 9.4 percent; coal increased 5.4 percent; nuclear electric power increased 4.6 percent; and petroleum increased 3.5 percent, compared with the level 1 year earlier.

Net imports of energy during March 2001 totaled 2.3 quadrillion Btu, 13.8 percent above the level of net imports 1 year earlier. Net imports of petroleum products increased 26.0 percent; crude oil increased 9.1 percent; and natural gas rose 8.1 percent. Net imports of coal and coal coke each decreased 55.7 percent, compared with the level in March 2000.

Table 1.1 Energy Summary for March 2001

(Quadrillion Btu)

		March			Cumulative	January Thr	ough March	
	2001	2000	Percent Change ^a	2001	2001 Daily Rate	2000	2000 Daily Rate	Percent Change ^b
Production ^c	^E 6.320	6.289	0.5	^E 18.175	E 0.202	18.074	0.199	1.7
Fossil Fuels	5.081	5.063	.4	14.543	.162	14.376	.158	2.3
Coal	2.097	2.095	.1	5.976	.066	5.775	.063	4.6
Natural Gas (Dry)	E 1.716	E 1.674	2.5	E 4.961	E.055	E 4.841	E.053	3.6
Crude Oil ^d	E 1.057	E 1.064	7	E 3.054	E.034	3.088	.034	.0
Natural Gas Plant Liquids	.212	.230	-7.9	.552	.006	.671	.007	-16.8
Nuclear Electric Power	F.672	.643	4.6	E 2.046	E.023	2.020	.022	2.4
Renewable Energy	₹.573	.589	-2.7	E 1.603	E.018	1.693	.019	-4.2
Consumption ^e	^E 8.726	8.310	5.0	E 26.235	^E .292	25.771	.283	2.9
Fossil Fuels ^f	7.479	7.075	5.7	22.598	.251	22.041	.242	3.7
Coal	1.857	1.763	5.4	5.625	.063	5.512	.061	3.2
Natural Gas ^g	F 2.326	2.125	9.4	^E 7.466	E.083	7.134	.078	5.8
Petroleum ^h	3.284	3.173	3.5	9.492	.105	9.347	.103	2.7
Nuclear Electric Power	672.	.643	4.6	^E 2.046	E.023	2.020	.022	2.4
Renewable Energy ^e	۶.594 ⊦	.609	-2.6	^E 1.648	^E .018	1.757	.019	-5.2
Net Imports	2.302	2.022	13.8	6.547	.073	5.897	.065	12.3
Fossil Fuels ⁱ	2.281	2.002	14.0	6.502	.072	5.833	.064	12.7
Coal ^j	047	106	-55.7	212	002	285	003	-24.9
Coal Coke	.003	.006	-55.7	.008	(s)	.017	(s)	-53.2
Natural Gas	^E .316	.293	8.1	^E .975	E.011	.893	.010	10.5
Crude Oil ^k	1.744	1.598	9.1	4.776	.053	4.445	.049	8.6
Petroleum Products ¹	.256	.203	26.0	.948	.011	.732	.008	30.9
Renewable Energy ^m	^E .021	^E .020	2.7	^E .045	^E .001	^E .065	^E .001	-29.0

^a Based on data prior to rounding.

^b Based on daily rates prior to rounding.

^c Total production also includes hydroelectricity generated from pumped storage.

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

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

^g Includes supplemental gaseous fuels.

 h Petroleum products supplied, including natural gas plant liquids and crude oil burned as fuel.
 ⁱ Fossil fuel net imports also include electricity net imports from fossil

¹ Fossil fuel net imports also include electricity net imports from fossil fuels.

^j Minus sign indicates exports are greater than imports.

 $^{\rm k}$ Crude oil, lease condensate, and imports of crude oil for the Strategic Petroleum Reserve.

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

 $^{\rm m}$ Electricity net imports derived from hydroelectric power or geothermal energy.

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

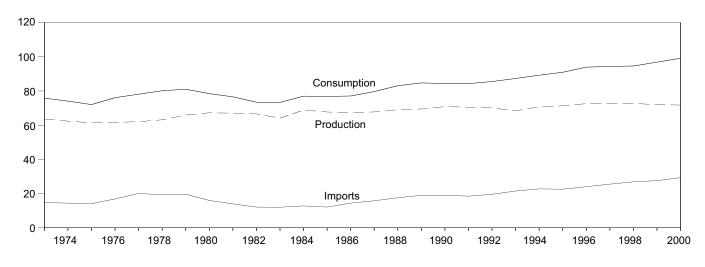
Notes: Totals may not equal sum of components due to independent rounding. Geographic coverage is the 50 States and the District of Columbia.

Sources: Tables 1.3, 1.4, and 1.5.

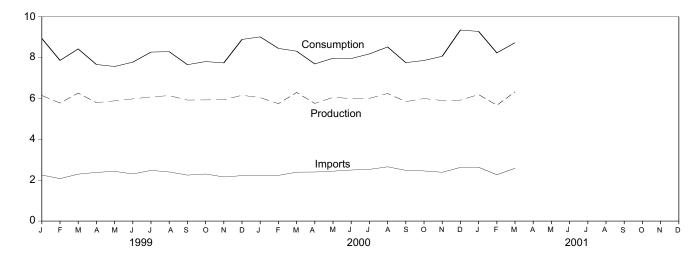
Figure 1.1 Energy Overview

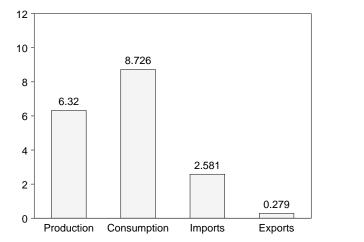
(Quadrillion Btu)

Consumption, Production, and Imports, 1973-2000



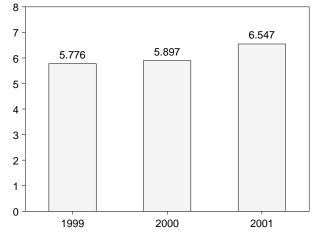
Consumption, Production, and Imports, Monthly





Overview, March 2001

Net Imports, January-March



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

Table 1.2 Energy Overview

(Quadrillion Btu)

	Production	Consumptiona	Imports	Exports	Net Imports
973 Total	63.585	75.808	14.731	2.051	12.680
					12.000
974 Total		74.080	14.413	2.223	
975 Total		72.042	14.111	2.359	11.752
76 Total		76.072	16.837	2.188	14.648
77 Total		78.122	20.090	2.071	18.019
078 Total		80.123	19.254	1.931	17.323
979 Total	65.948	81.044	19.616	2.870	16.746
980 Total	67.241	78.435	15.971	3.723	12.247
81 Total	67.007	76.569	13.975	4.329	9.646
82 Total		73.440	12.092	4.633	7.460
83 Total		73.317	12.027	3.717	8.310
084 Total		76.972	12.767	3.804	8.963
		76.778		4.231	7.872
985 Total			12.103		
986 Total		77.065	14.438	4.055	10.382
87 Total		79.633	15.764	3.853	11.911
988 Total	. 69.025	83.068	17.564	4.415	13.149
89 Total	69.467	84.716	18.955	4.767	14.188
990 Total		84.344	18.952	4.865	14.087
991 Total		84.298	18.497	5.157	13.339
992 Total		85.513	19.577	4.957	14.621
993 Total		87.300	21.498	4.283	17.215
994 Total		89.213	22.727	4.075	18.652
995 Total		90.943	22.566	4.536	18.030
996 Total		93.931	24.010	4.656	19.354
997 Total	. 72.545	94.340	25.514	4.576	20.938
998 Total	72.742	94.608	26.855	4.389	22.466
199 January	^R 6.146	^R 8.935	2.253	.305	1.948
February		^R 7.861	2.075	.251	1.824
March		^R 8.421	2.295	.291	2.004
April	D	^R 7.660	2.380	.356	2.024
May		^R 7.563	2.433	.303	2.130
		^R 7.774			
June	. 0.977		2.304	.320	1.984
July	. ^R 6.077	^R 8.268	2.478	.321	2.157
August	R 6.137	^R 8.288	2.402	.332	2.070
September	^R 5.919	^R 7.651	2.248	.307	1.941
October		^R 7.803	2.302	.348	1.954
November	. ^R 5.931	^R 7.738	2.157	.323	1.834
December	. ^R 6.154	^R 8.886	2.222	.354	1.867
Total		^R 96.852	27.549	3.811	23.738
000 January	^R 6.040	^R 9.012	^R 2.237	.327	^R 1.910
February	D =	^R 8.449	^R 2.234	.269	^R 1.965
March	- ·	^R 8.310	^R 2.393	.371	^R 2.022
		^R 7.688	^R 2.399		^R 2.084
April	D			.314	
May	D	^R 7.966	^R 2.440	.331	R 2.109
June		^R 7.951	^R 2.497	.331	^R 2.166
July		^R 8.179	^R 2.527	.327	^R 2.200
August		^R 8.516	^R 2.654	.388	^R 2.266
September	^R 5.845	^R 7.750	^R 2.481	.330	^R 2.151
October		^R 7.858	^R 2.452	.381	^R 2.071
November		^R 8.063	R 2.387	.383	R 2.004
		^R 9.347	^R 2.623	.360	^R 2.263
December Total		^R 99.090	^R 29.321	4.110	R 25.211
01 January	RE 6.191	^R 9.279	2.632	.355	2.277
		RE 8.230			^R 1.968
February			^R 2.265	.297	
March		^E 8.726	2.581	.279	2.302
3-Month Total	E 18.175	E 26.235	7.479	.931	6.547
000 3-Month Total	18.074	25.771	6.863	.966	5.897
999 3-Month Total		25.216	6.623		

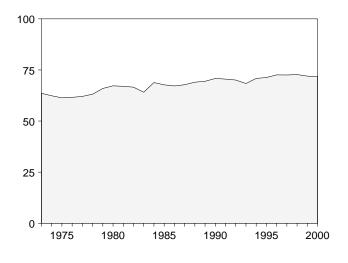
^a The sum of domestic energy production and net imports of energy does not equal domestic energy consumption. The difference is attributed to stock changes; losses and gains in conversion, transportation, and distribution; the addition of blending compounds; shipments of anthracite to U.S. Armed Forces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

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

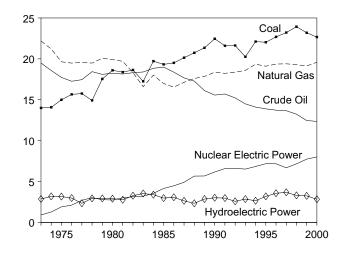
Figure 1.2 Energy Production

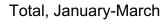
(Quadrillion Btu)

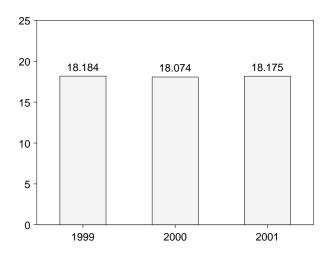
Total, 1973-2000



By Major Sources, 1973-2000

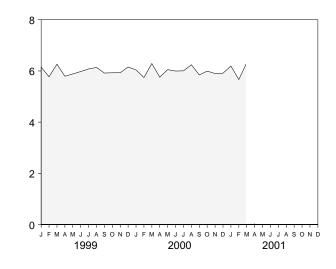




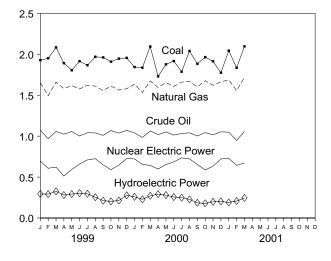


Note: Because vertical scales differ, graphs should not be compared. Source: Table 1.3.

Total, Monthly



By Major Sources, Monthly



By Major Sources, March 2001

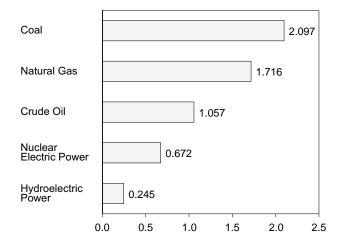


Table 1.3 Energy Production by Source

(Quadrillion Btu)

			Fossil Fuels						Renewah	le Energy	a		
		1	i Jaan Fuels	1					Nenewal				-
	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
		-1	-1				-						
1973 Total		22.187	19.493	2.569	58.241	0.910	(e) (e)	2.861	1.529	0.043	NA	4.433	63.585
1974 Total 1975 Total		21.210 19.640	18.575 17.729	2.471 2.374	56.331 54.733	1.272 1.900	(°) (°)	3.177 3.155	1.540 1.499	.053 .070	NA NA	4.769 4.723	62.372 61.357
1976 Total		19.480	17.262	2.327	54.723	2.111	(e)	2.976	1.713	.078	NA	4.768	61.602
1977 Total		19.565	17.454	2.327	55.101	2.702	(°)	2.333	1.838	.077	NA	4.249	62.052
1978 Total		19.485	18.434	2.245	55.074	3.024	(e)	2.937	2.038	.064	NA	5.039	63.137
1979 Total		20.076	18.104	2.286	58.006	2.776	(e)	2.931	2.152	.084	NA	5.166	65.948
1980 Total		19.908	18.249	2.254	59.008	2.739	(e)	E 2.900	2.485	.110	NA	5.494	67.241
1981 Total		19.699 18.319	18.146	2.307	58.529	3.008	(°) (°)	^E 2.758 ^E 3.266	2.590	.123 .105	NA NA	5.471 5.985	67.007
1982 Total 1983 Total		16.593	18.309 18.392	2.191 2.184	57.458 54.416	3.131 3.203	(e)	E 3.527	2.615 2.831	.105	(s)	6.488	66.574 64.106
1984 Total		18.008	18.848	2.274	58.849	3.553	2e5	5.327	2.880	.165	(s)	6.431	68.832
1985 Total		16.980	18.992	2.241	57.539	4.149	(°)	E 2.970	E 2.864	.198	(s)	6.033	67.720
1986 Total	19.509	16.541	18.376	2.149	56.575	4.471	(°)	^E 3.071	E 2.841	.219	(s)	6.132	67.178
1987 Total		17.136	17.675	2.215	57.167	4.906	(e)	E 2.635	E 2.823	.229	(s)	5.687	67.760
1988 Total		17.599	17.279	2.260	57.875	5.661	(°)	E 2.334	E 2.937	.217	(s)	5.489	69.025
1989 Total		17.847	16.117	2.158	57.468	5.677	(°)	2.855	^E 3.060 ^E 2.660	.323	.083	6.322	69.467
1990 Total 1991 Total		18.362 18.229	15.571 15.701	2.175 2.306	58.564 57.829	6.162 6.580	036 047	3.048 3.021	E 2.660	.343 .348	.094 .097	6.145 6.167	70.835 70.528
1992 Total		18.375	15.223	2.363	57.590	6.608	043	2.617	E 2.845	.355	.097	5.915	70.069
1993 Total		18.584	14.494	2.408	55.736	6.520	042	2.892	2.803	.369	.102	6.165	68.378
1994 Total		19.348	14.103	2.391	57.952	6.838	035	2.684	2.938	.364	.107	6.093	70.848
1995 Total		19.101	13.887	2.442	57.458	7.177	028	3.207	3.066	.314	.106	6.694	71.301
1996 Total		19.363	13.723	2.530	58.299	7.168	032	3.593	3.126	.332	.110	7.160	72.595
1997 Total		19.394	13.658	2.495	58.758	6.678	042	3.718	3.004	.322	.107	7.151	72.545
1998 Total	23.935	19.288	13.235	2.420	58.879	7.157	046	3.345	2.976	.327	.104	6.752	72.742
1999 January		1.653	1.072	.192	4.845	.695	006	.300	E.280	RE .025	E.008	^R .612	^R 6.146
February		1.494	.969	.181	4.595	.608	004	.295	E.250	^{RE} .022 ^{RE} .025	E.007 E.009	^R .575 ^R .636	^R 5.774
March April		1.660 1.581	1.058 1.024	.207 .203	5.009 4.700	.622 .513	004 005	.329 .284	^E .273 ^E .267	RE .025	= .009 E .010	^R .584	^R 6.263 ^R 5.793
May		1.617	1.056	.203	4.686	.593	007	.299	E.274	RE .024	E.012	^R .610	^R 5.882
June		1.576	1.002	.210	4.706	.659	006	.310	^E .267	^{RE} .029	^E .013	^R .618	^R 5.977
July		1.623	1.042	.221	4.752	.710	006	.301	E.277	^{RE} .031	^E .013	^R .622	^R 6.077
August		1.611	1.039	.217	4.837	.725	008	.262	E.277	RE .032	^E .012	^R .583	^R 6.137
September		1.556	1.010	.215	4.743	.648	^R 004	.216	E.274	RE .031	E.010	^R .532	^R 5.919
October		1.613	1.069	.227	4.819	.591	005	.208	^E .275 ^E .268	^{RE} .032 RE .030	^E .009 ^E .008	^R .524	^R 5.928
November December		1.563 1.579	1.037 1.071	.219 .227	4.766 4.834	.645 .727	005 004	.219 .281	E.268	RE .030	E.008	^R .525 ^R .597	^R 5.931 ^R 6.154
Total		19.126	12.451	2.528	57.291	7.736	^R 063	3.305	3.259	R .335	.119	^R 7.018	^R 71.982
2000 January	1.844	^{RE} 1.635	^R 1.040	^R .226	^R 4.745	^R .722	005	^R .264	E.277	^E .027	^E .010	^R .578	^R 6.040
February		RE 1.533	^R .984	.220	^R 4.568	.655	^R 004	R.233	E.259	E.024	E.009	R.525	^R 5.744
March		^{RE} 1.674	^R 1.064	.230	^R 5.063	.643	006	^R .277	^E .278	^E .024	^E .010	^R .589	^R 6.289
April	1.731	^{RE} 1.595	^R 1.019	.220	^R 4.564	.598	004	^R .295	^{RE} .268	E.025	E.011	^R .599	^R 5.757
May		RE 1.654	^R 1.051	.225	^R 4.807	.653	005	^R .285	E.275	E.026	E.011	^R .596	^R 6.051
June		RE 1.608	1.013 B 1.022	.215 8 224	R 4.753	.686	006	^R .262	E.264	E.026	E.011	^R .562	^R 5.996
July August		^{RE} 1.660 ^{RE} 1.670	^R 1.032 ^R 1.041	^R .224 .225	^R 4.703 ^R 4.975	.735 .722	003 004	^R .252 ^R .232	^E .281 ^E .278	^E .027 ^E .028	^E .010 ^E .011	^R .570 ^R .548	^R 6.004 ^R 6.241
September		RE 1.601	^R 1.002	R.225	^R 4.701	.654	^R 004	R.192	E.268	E.027	E.010	^R .497	^R 5.845
October		E 1.678	^R 1.044	.213	^R 4.910	.587	004	R.182	E.279	E.028	E.010	R.500	^R 5.993
November		^{RE} 1.622	^R 1.015	.210	^R 4.760	.633	004	^R .201	^{RE} .271	^E .028	^E .010	^R .510	^R 5.899
December	1.775	^{RE} 1.663	^R 1.053	.183	^R 4.674	.721	^R 005	^R .208	^{RE} .278	^E .029	E.009	^R .524	^R 5.914
Total	22.663	^{RE} 19.591	^{RE} 12.358	^R 2.611	^R 57.223	8.009	^R 057	^R 2.883	^{RE} 3.276	^E .319	^E .121	^R 6.599	^R 71.773
2001 January		^{RE} 1.689	^E 1.049	.160	^R 4.943	^R .729	^R 004	^R .194	E.290	E.029	E.009	^R .523	^{RE} 6.191
February		^{RE} 1.556	_ ^E .948	.181	^R 4.520	F.644	F006	F.214	F.259	F.025	F.009	F.506	^{RE} 5.665
March		^E 1.716	E 1.057	.212	5.081	F.672	F007	F.252	F.286	F.025	F.010	F.573	^E 6.320
3-Month Total	5.976	^E 4.961	^E 3.054	.552	14.543	^E 2.046	^E 017	E.660	E .835	E.079	^E .028	E 1.603	E 18.175
2000 3-Month Total 1999 3-Month Total		^E 4.841 4.807	3.088 3.099	.671 .580	14.376 14.449	2.020 1.925	015 013	.774 .924	^E .814 ^E .803	^E .075 ^E .072	^E .029 ^E .024	1.693 1.823	18.074 18.184

^a End-use consumption, and electric utility and nonutility 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.

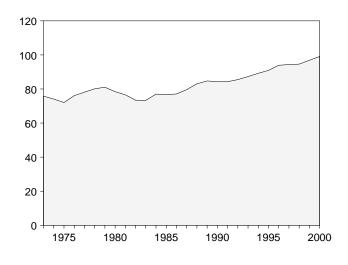
^f Beginning in 1989, includes electricity generated by nonutility nuclear units.
 R=Revised. NA=Not available. E=Estimate. (s)=Less than +0.5 trillion Btu and

greater than -0.5 trillion Btu. F=Forecast. Notes: See Note 1 at end of section. Totals may not equal sum of components due to independent rounding. Geographic coverage is the 50 States and the District of Columbia.

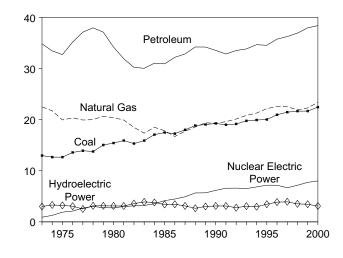
And the District of Columbia. Sources: Coal: Tables 6.1 and A5. Natural Gas (Dry): Tables 4.1 and A4. Crude Oil and Natural Gas Plant Liquids: Tables 3.1a and A2. Nuclear Electric Power: Tables 8.1 and A6. Hydroelectric Pumped Storage: Tables 7.2 and A6. Renewable Energy: Tables E2, E3a, and E3b.

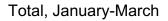
Figure 1.3 Energy Consumption (Quadrillion Btu)

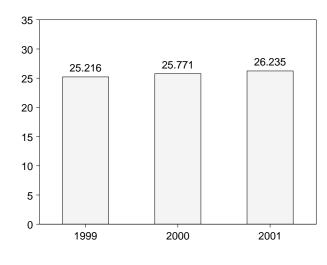
Total, 1973-2000



By Major Sources, 1973-2000

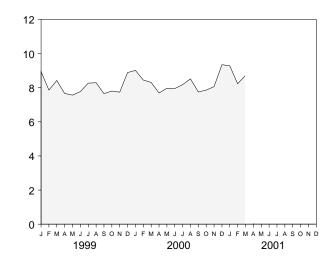




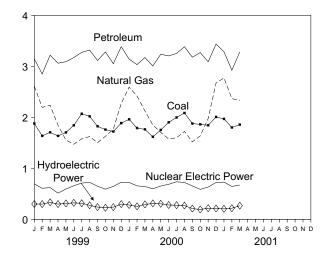


Note: Because vertical scales differ, graphs should not be compared. Source: Table 1.4.

Total, Monthly



By Major Sources, Monthly



By Major Sources, March 2001

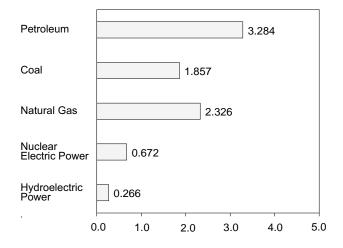


Table 1.4 Energy Consumption by Source

(Quadrillion Btu)

		Fossil	Fuels					Renewa	ble Energy	а		
	Coal	Natural Gas ^b	Petro- leum ^c	Totald	Nuclear Electric Power	Hydro- electric Pumped Storage ^e	Conventional Hydroelectric Power	Wood, Waste, Alcohol ^f	Geo- thermal	Solar and Wind	Total	Total ^f
1973 Total	12.971	22.512	34.840	70.316	0.910	(g)	3.010	1.529	0.043	NA	4.581	75.808
1974 Total	12.663	21.732	33.455	67.906	1.272	(g)	3.309	1.540	.053	NA	4.902	74.080
1975 Total	12.663	19.948	32.731	65.355	1.900	(9)	3.219	1.499	.070	NA	4.788	72.042
1976 Total	13.584	20.345	35.175	69.104	2.111	(°)	3.066	1.713	.078	NA	4.857	76.072
1977 Total	13.922	19.931	37.122	70.989	2.702	(°)	2.515	1.838	.077	NA	4.431	78.122
1978 Total	13.766	20.000	37.965	71.856	3.024	(°)	3.141	2.038	.064	NA	5.243	80.123
1979 Total	15.040	20.666	37.123	72.892	2.776	(g)	3.141	2.152	.084	NA	5.377	81.044
1980 Total	15.423	20.394	34.202	69.984	2.739	(g)	E 3.118	2.485	.110	NA	5.712	78.435
1981 Total	15.908	19.928	31.931	67.750	3.008	(^g)	^E 3.105	2.590	.123	NA	5.818	76.569
1982 Total	15.322	18.505	30.231	64.036	3.131	(g)	E 3.572	2.615	.105	NA	6.292	73.440
1983 Total	15.894	17.357	30.054	63.290	3.203	(g)	^E 3.899	2.831	.129	(s)	6.860	73.317
1984 Total	17.071	18.507	31.051	66.617	3.553	(g)	E 3.800	2.880	.165	(s)	6.845	76.972
1985 Total	17.478	17.834	30.922	66.221	4.149	(g) (g)	^E 3.398 ^E 3.446	^E 2.864 ^E 2.841	.198	(s)	6.460	76.778
1986 Total	17.260 18.008	16.708 17.744	32.196 32.865	66.148 68.626	4.471 4.906	(9)	⊑ 3.446 ≣ 3.117	E 2.841 E 2.823	.219 .229	(s) (s)	6.507 6.170	77.065 79.633
1987 Total 1988 Total	18.008	17.744	32.865	68.626 71.660	4.906 5.661	(9)	E 2.662	E 2.823	.229	(s) (s)	5.817	79.633
1989 Total	^h 19.043	19.384	34.222	72.618	ⁱ 5.677	(g)	3.014	E 3.060	.217	.083	6.492	84.716
1990 Total	19.043	19.296	33.553	72.018	6.162	036	3.146	E 2.660	.355	.083	6.254	84.344
1991 Total	18.998	19.606	32.845	71.519	6.580	047	3.159	E 2.700	.363	.097	6.320	84.298
1992 Total	19.152	20.131	33.527	72.897	6.608	043	2.818	E 2.845	.374	.097	6.134	85.513
1993 Total	19.763	20.827	33.841	74.508	6.520	042	3.119	2.803	.387	.102	6.410	87.300
1994 Total	19.933	21.288	34.670	76.089	6.838	035	2.993	2.938	.391	.107	6.429	89.213
1995 Total	20.025	22.163	34.553	76.924	7.177	028	3.481	3.066	.333	.106	6.987	90.943
1996 Total	20.957	22.559	35.757	79.406	7.168	032	3.892	3.126	.346	.110	7.473	93.931
1997 Total	21.464	22.530	36.266	80.415	6.678	042	3.961	3.004	.322	.107	7.395	94.340
1998 Total	21.667	21.921	36.934	80.637	7.157	046	3.569	2.976	.328	.104	6.977	94.608
1999 January	1.879	2.610	3.143	7.638	.695	006	^E .306	^E .280	^{RE} .025	E.008	^R .618	^R 8.935
February	1.636	2.195	2.850	6.684	.608	004	E.302	E.250	RE .022	E.007	^R .581	^R 7.861
March	1.705	2.237	3.220	7.169	.622	004	^E .336	^E .273	RE .025	^E .009	^R .643	^R 8.421
April	1.635	1.845	3.061	6.558	.513	005	E.302	E.267	^{RE} .024	E.010	^R .602	^R 7.660
May	1.703	1.554	3.090	6.357	.593	007	E.317	E.274	RE .025	E.012	^R .628	^R 7.563
June	1.842	1.472	3.171	6.494	.659	006	E.328	E.267	RE .029	^E .013	^R .636	^R 7.774
July	2.069	1.578	3.274	6.933	.710	006	E.320	E.277	RE .031	E.013	^R .641	^R 8.268
August	2.019	1.622	3.319	6.977	.725	008	E.282	E.277	RE .032	E.012	^R .603	^R 8.288
September	1.824	1.504	3.114	6.458	.648	^R 004	^E .243 ^E .231	^E .274 ^E .275	RE .031	E.010	^R .559	^R 7.651
October	1.759	1.627	3.282 3.051	6.682	.591 .645	005 005	E.231	E.275	RE .032 RE .030	E.009 E.008	^R .547 ^R .549	^R 7.803
November December	1.721 1.886	1.767 2.272	3.386	6.560 7.559	.645	005	E.302	E.278	RE .030	E.008	^R .618	^R 7.738 ^R 8.886
Total	21.677	22.289	37.960	82.075	7.736	^R 063	3.512	3.259	R.335	008 .119	R 7.226	R 96.852
								E 077	E 007	E a í a		
2000 January	R 1.960	R 2.592	R 3.141	R 7.707	R.722	005	RE .285	E.277	E.027	E.010	R.599	^R 9.012
February	^R 1.789 ^R 1.763	^R 2.417 ^R 2.125	^R 3.033 ^R 3.173	^R 7.258 ^R 7.075	.655	^R 004	^{RE} .256 ^{RE} .297	^E .259 ^E .278	^E .024 ^E .024	^E .009 ^E .010	^R .549 ^R .609	^R 8.449 ^R 8.310
March	^R 1.617	^R 1.849	R 3.173	^R 6.486	.643 .598	006 004	RE .297 RE .315	RE .268	E.024	E.010	^R .609	^R 7.688
April May	^R 1.752	^R 1.706	R 3.237	^R 6.711	.653	004	RE .308	E.275	E.025	E.011	^R .619	^R 7.966
June	R 1.901	^R 1.574	R 3.204	^R 6.692	.686	005	RE .285	E.264	E.026	E.011	^R .585	^R 7.951
July	^R 1.997	^R 1.599	^R 3.252	^R 6.864	.000	008	RE .279	E.281	E.020	E.010	^R .598	^R 8.179
August	R 2.085	^R 1.723	R 3.384	^R 7.221	.722	004	RE .273	E.278	E.028	E.011	R.589	^R 8.516
September	^R 1.877	R 1.518	^R 3.179	^R 6.592	.654	^R 007	^{RE} .217	E.268	E.027	E.010	R.522	^R 7.750
October	^R 1.862	^R 1.635	^R 3.269	^R 6.775	.587	004	RE .196	^E .279	^E .028	E.010	^R .514	^R 7.858
November	^R 1.843	^R 1.976	^R 3.088	^R 6.918	.633	004	RE 221	^{RE} 271	^E .028	E.010	^R .529	^R 8.063
December	^R 2.007	^R 2.673	^R 3.437	^R 8.111	.721	^R 005	RE .217	^{RE} .278	E.029	^E .009	^R .534	^R 9.347
Total		R 23.389	^R 38.404	^R 84.413	8.009	^R 057	^{RE} 3.149	RE 3.276	E.319	E.121	^R 6.865	^R 99.090
2001 January	^R 1.968	^R 2.772	3.286	^R 8.030	^R .729	^R 004	E.210	E.290	^E .029	E.009	^R .539	^R 9.279
February	^R 1.800	^{RF} 2.368	2.922	^R 7.088	F.644	F006	F 223	F.259	F.025	F.009	F 516	RE 8,230
March	1.857	F 2.326	3.284	7.479	F.672	F007	F.273	F.286	F.025	F.010	F.594	^E 8.726
3-Month Total	5.625	^E 7.466	9.492	22.598	^E 2.046	^E 017	^E .705	^E .835	E.079	E.028	^E 1.648	^E 26.235
2000 3-Month Total	5.512	7.134	9.347	22.041	2.020	015	.838	.814	.075	.029	1.757	25.771
1999 3-Month Total	5.220	7.042	9.214	21.491	1.925	013	.944	.803	.072	.024	1.842	25.216

^a End-use consumption, electric utility and nonutility electricity net generation, and net imports of electricity.
 ^b Includes supplemental gaseous fuels.

^c Petroleum products supplied, including natural gas plant liquids and crude oil burned as fuel. d Includes coal coke net imports and electricity net imports from fossil fuels. See

Table 1.5.

^e Pumped storage facility production minus energy used for pumping. ^f Alcohol (ethanol blended into motor gasoline) is included in both "Petroleum" and "Alcohol," but is counted only once in total energy consumption. ^g Inducted in computational budgededitie payure.

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

Table 6.2.

Beginning in 1989, includes electricity generated by nonutility nuclear units. R=Revised. NA=Not available. E=Estimate. F=Forecast. (s)=Less than +0.5 trillion Btu and greater than -0.5 trillion Btu.

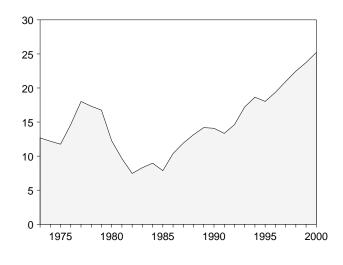
Notes: See Note 2 at end of section. Totals may not equal sum of components due to independent rounding. Geographic coverage is the 50 States and the District of Columbia.

Sources: Coal: Tables 6.1 and A5. Natural Gas: Tables 4.1 and A4. Petroleum: Tables 3.1a and A3. Nuclear Electric Power: Tables 8.1 and 6. Hydroelectric Pumped Storage: Tables 7.2 and A6. Renewable A6. Energy: Table E1.

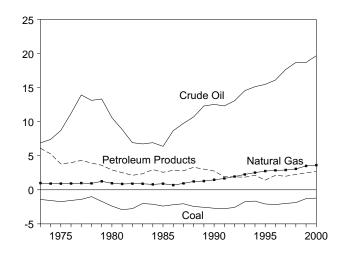
Figure 1.4 Energy Net Imports

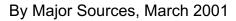
(Quadrillion Btu, Except as Noted)

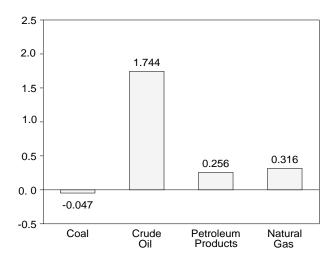
Total, 1973-2000



By Major Sources, 1973-2000

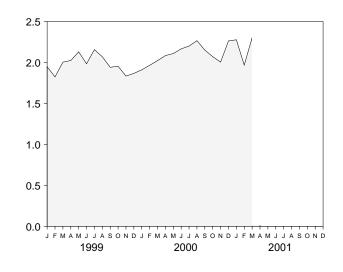




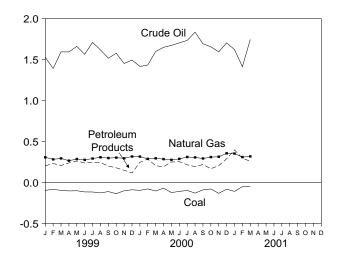


Note: Because vertical scales differ, graphs should not be compared. Sources: Tables 1.4 and 1.5.

Total, Monthly



By Major Sources, Monthly





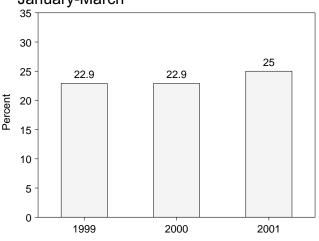


Table 1.5 Energy Net Imports by Source

(Quadrillion Btu)

				Fossil Fue	els			Rer			
-								Electi	ricity ^a]
	Coal	Coal Coke	Natural Gas	Crude Oil ^b	Petroleum Products ^c	Electricityd	Total	Hydro- power ^e	Geo- thermal	Total	Total
1973 Total	-1.422	-0.007	0.981	6.883	6.097	(^f)	12.531	0.148	(^f)	0.148	12.680
1974 Total	-1.568	.056	.907	7.389	5.273	(ť)	12.058	.133	(ť)	.133	12.190
1975 Total	-1.738	.014	.904	8.708	3.800	(ț)	11.688	.064	(ț)	.064	11.752
1976 Total	-1.567	.000	.922	11.221	3.982	(')	14.559	.089	(<u>†</u>)	.089	14.648
1977 Total	-1.401	.015	.981	13.921	4.321	(')	17.837	.182	(¦)	.182	18.019
1978 Total	-1.004	.125	.941	13.125	3.932	(¦)	17.118	.204	(;)	.204	17.323
1979 Total 1980 Total	-1.702 -2.391	.063	1.243	13.328	3.603	(f)	16.535	.211		.211 .217	16.746
1980 Total	-2.391	035 016	.957 .857	10.586 8.854	2.912 2.522		12.030 9.298	.217 .347		.217 .347	12.247 9.646
1982 Total	-2.768	022	.898	6.917	2.128		7.153	.347		.347	7.460
1983 Total	-2.013	016	.885	6.731	2.351	>f	7.938	.372	2f	.372	8.310
1984 Total	-2.119	011	.792	6.918	2.970	۲f (8.549	.414	2f3	.414	8.963
1985 Total	-2.389	013	.896	6.381	2.570	t أ	7.445	.428	t أ	.428	7.872
1986 Total	-2.193	017	.686	8.676	2.855	(f)	10.007	.375	(†í	.375	10.382
1987 Total	-2.049	.009	.937	9.748	2.784	(†)	11.428	.483	(†)	.483	11.911
1988 Total	-2.446	.040	1.221	10.698	3.308	(†)	12.821	.328	(†)	.328	13.149
1989 Total	-2.566	.030	1.278	12.296	3.029	050	14.018	.159	.011	.171	14.188
1990 Total	-2.705	.005	1.464	12.536	2.757	080	13.977	.098	.011	.110	14.087
1991 Total	-2.769	.010	1.666	12.308	1.912	.059	13.186	.138	.015	.153	13.339
1992 Total	-2.587	.035	1.941	13.065	1.895	.053	14.401	.201	.019	.219	14.621
1993 Total	-1.758	.027	2.255	14.542	1.854	.050	16.970	.227	.018	.246	17.215
1994 Total	-1.657	.058	2.518	15.131	2.126	.140	18.316	.309	.027	.337	18.652
1995 Total 1996 Total	-2.081 -2.165	.061 .023	2.745 2.847	15.469 16.108	1.422 2.119	.121 .109	17.737 19.041	.274 .300	.019 .014	.293 .313	18.030 19.354
1997 Total	-2.165	.023	2.847	17.648	1.993	.109	20.694	.300	.000	.313	20.938
1998 Total	-1.874	.040	3.064	18.684	2.252	.048	22.241	.244	.000	.225	20.938
	-1.074	.007	5.004	10.004	2.2.52		22.271	.227	.001	.225	22.400
1999 January	099	.005	.305	1.527	.202	E(s)	1.941	E.006	^E (s)	E.006	1.948
February	084	.002	.280	1.390	.230	E.001	1.818	E.006	E (s)	E.006	1.824
March	099	.007	.292	1.593	.205	E(s)	1.997	E.007	E (s)	E.007	2.004
April	105	.009	.264	1.592	.237	^E .0Ò8́	2.006	^E .018	E(s)	^E .018	2.024
May	103	.003	.284	1.660	.260	E.008	2.112	^E .018	E (s)	^E .018	2.130
June	117	.002	.274	1.563	.236	E.008	1.966	E.018	E (S)	E.018	1.984
July	118	.003	.290	1.708	.247	E.009	2.139	E.019	E (S)	E.019	2.157
August	129	.006	.306	1.617	.240	E.010	2.050	E.020	E (s)	E.020	2.070
September	113	.002	.296	1.515	.199	^E .015	1.914	E.027	E (S)	E.027	1.941
October	139	.004	.301	1.576	.177	^E .011 ^E .012	1.930	^E .023 ^E .024	E (S) E (S)	^E .023 ^E .025	1.954
November	103	.009	.293	1.451	.147	E.009	1.809	E.024	E (S)	E.025	1.834
December Total	091 -1.298	.006 .058	.315 3.500	1.493 18.686	.114 2.493	009 .092	1.847 23.530	021 .207	.001	021 .208	1.867 23.738
2000 January	098	.004	.314	^R 1.415	^R .244	^E .010	^R 1.889	E.021	.000	E.021	^R 1.910
February	098	.004	.286	^R 1.432	R.285	^E .012	^R 1.942	E.024	.000	E.024	^R 1.965
March	106	.007	.200	^R 1.598	R.203	E.008	^R 2.002	E.024	.000	E.024	^R 2.022
April	071	.000	.283	^R 1.648	R.190	E.007	^R 2.065	E.020	.000	E.020	R 2.084
May	125	.008	.274	^R 1.672	^R .248	E.009	^R 2.086	E.023	.000	E.023	^R 2.109
June	111	.004	.286	R 1.703	^R .252	E.008	^R 2.142	E.024	.000	^E .024	^R 2.166
July	099	.006	.309	^R 1.733	^R .214	^E .010	^R 2.173	E.027	.000	E.027	^R 2.200
August	132	.008	.304	^R 1.833	^R .191	E.021	^R 2.225	E.041	.000	E.041	^R 2.266
September	092	.007	.291	^R 1.692	R.218	E.011	^R 2.126	E.025	.000	E.025	^R 2.151
October	081	.006	.308	^R 1.655	^R .166	E.004	^R 2.058	E.013	.000	E.013	^R 2.071
November	134	.004	.312	^R 1.593	R.203	E.007	^R 1.985	E.019	.000	E.019	^R 2.004
December	084	.000	.354	^R 1.702	^R .287	^E 006	^R 2.253	E.010	.000	E.010	^R 2.263
Total	-1.215	.065	3.615	^R 19.676	^R 2.701	.102	^R 24.945	.266	.000	.266	^R 25.211
2001 January	111	.003	E.351	1.621	.396	E.003	2.262	E.015	.000	E.015	2.277
February	053	.002	^{RE} .308	^R 1.412	^R .296	^E 006	^R 1.959	E.009	.000	E.009	^R 1.968
March	047	.003	E.316	1.744	^R .256	E.009	2.281	E.021	.000	E.021	2.302
3-Month Total	212	.008	^E .975	4.776	.948	^E .006	6.502	^E .045	.000	^E .045	6.547
2000 3-Month Total	285	.017	.893	4.445	.732	^E .031	5.833	E.065	.000	E.065	5.897
1999 3-Month Total	282	.015	.877	4.509	.637	^E .001	5.757	^E .019	.000	E.019	5.776

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

power or geothermal energy.
 ^b Crude oil, lease condensate, and imports of crude oil for the Strategic Petroleum Reserve.
 ^c Petroleum products, unfinished oils, pentanes plus, and gasoline blending

^d May include some nuclear-generated electricity.
 ^e Conventional hydroelectric power.
 ^f Included in "Hydropower."

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

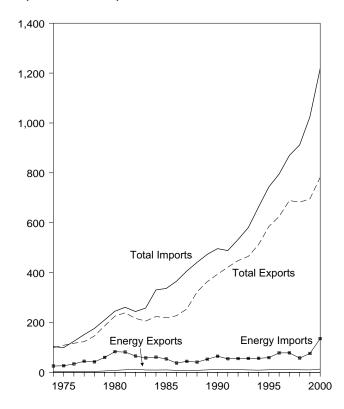
trillion Btu.

trillion Btu. Notes: See Notes 3 and 4 at end of section. Net imports equal imports minus exports. Minus sign indicates exports are greater than imports. Totals may not equal sum of components due to independent rounding. Geographic coverage is the 50 States and the District of Columbia. Sources: Coal: Tables 6.1 and A5. Coal Coke: Section 2, "Energy Consumption Notes and Sources," Note 5, and Table A5. Natural Gas: Tables 4.1 and A4. Crude Oil and Petroleum Products: Tables 3.1b, A2, and A3. Fossil Fuel Electricity: Derived from Table 7.1 sources and Table A6. Renewable Energy: Table E3b.

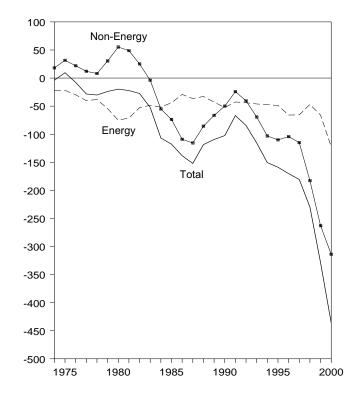
Figure 1.5 Merchandise Trade Value

(Billion Dollars)

Imports and Exports, 1974-2000

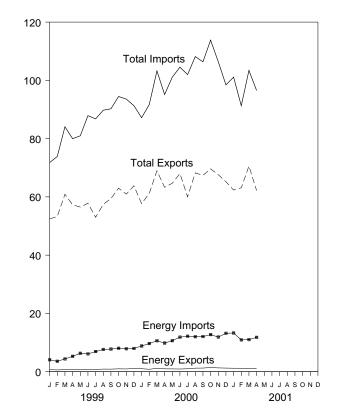


Trade Balance, 1974-2000



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

Imports and Exports, Monthly



Trade Balance, Monthly

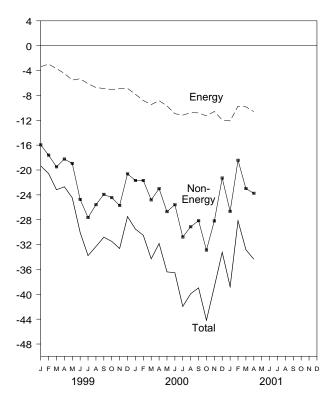


Table 1.6 Merchandise Trade Value

(Million Dollars)

		Petroleur	n ^a		Energy)	Non-		Total Merchandise			
	Exports	Imports	Balance	Exports	Imports	Balance	Energy Balance	Exports	Imports	Balance		
974 Total	792	24,668	-23,876	3,444	25,454	-22,010	18,126	99,437	103,321	-3,884		
	907			,						,		
75 Total		25,197	-24,289	4,470	26,476	-22,006	31,557	108,856	99,305	9,551		
76 Total	998	32,226	-31,228	4,226	33,996	-29,770	21,950	116,794	124,614	-7,820		
77 Total	1,276	42,368	-41,093	4,184	44,537	-40,354	12,001	123,182	151,534	-28,353		
78 Total	1,561	39,526	-37,965	3,881	42,096	-38,215	8,010	145,847	176,052	-30,205		
79 Total	1,914	56,715	-54,801	5,621	59,998	-54,377	30,455	186,363	210,285	-23,922		
80 Total	2,833	78,637	-75,803	7,982	82,924	-74,942	55,246	225,566	245,262	-19,696		
81 Total	3,696	76,659	-72,963	10,279	81,360	-71,081	48,814	238,715	260,982	-22,267		
82 Total	5,947	60,458	-54,511	12,729	65,409	-52,680	25,170	216,442	243,952	-27,510		
983 Total	4,557	53,217	-48,659	9,500	57,952	-48,452	-3,957	205,639	258.048	-52,409		
	,		,			,						
984 Total	4,470	56,924	-52,454	9,311	60,980	-51,669	-55,033	223,976	330,678	-106,703		
985 Total	4,707	50,475	-45,768	9,971	53,917	-43,946	-73,765	218,815	336,526	-117,712		
986 Total	3,640	35,142	-31,503	8,115	37,310	-29,195	-109,084	227,159	365,438	-138,279		
987 Total	3,922	42,285	-38,363	7,713	44,220	-36,506	-115,613	254,122	406,241	-152,119		
988 Total	3,693	38,787	-35,094	8,235	41,042	-32,806	-85,720	322,426	440,952	-118,526		
989 Total	5,021	49,704	-44,683	9,869	52,779	-42,910	-66,490	363,812	473,211	-109,399		
990 Total	6,901	61,583	-54,682	12,233	64,661	-52,428	-50,068	393,592	496,088	-102,496		
991 Total	6,954	51,350	-44,396	12,081	54,629	-42,548	-24,175	421,730	488,453	-66,723		
992 Total	6,412	51,217	-44,805	11,254	55,256	-44,002	-40,500	448,164	532,665	-84,501		
993 Total	6,215	51,046	-44,831	9,756	55,900	-46,144	-69,425	465,091	580,659	-115,568		
994 Total	5,659	50,835	-45,176	8,911	56,391	-47,480	-103,149	512,626	663,256	-150,629		
995 Total	6,321	54,368	-48,047	10,358	59,109	-48,751	-110,050	584,742	743,543	-158,801		
996 Total	7,984	72,022	-64,038	12,181	78.086	-65,905	-104,309	625,075	795.289	-170,214		
997 Total	8,592	71,152	-62,560	12,682	78,277	-65,595	-114,927	689,182	869,704	-180.522		
998 Total	6,574	50,264	-43,690	10,251	57,323	-47,072	-182,686	682,138	911,896	-229,758		
99 January	460	3,428	-2,968	692	4,075	-3,383	-15,947	52,436	71,766	-19,330		
February	380	3,025	-2,645	600	3,561	-2,961	-17,609	53,279	73,849	-20,570		
March	440	3,809	-3,369	683	4,373	-3,690	-19,493	60,889	84,072	-23,183		
April	579	4,668	-4,089	804	5,264	-4,460	-18,237	57,283	79,980	-22,697		
	563			773			-18,943	56,489	80,965	-24,477		
May		5,630	-5,067		6,307	-5,534						
June	565	5,432	-4,867	789	6,105	-5,316	-24,739	57,825	87,880	-30,055		
July	560	6,146	-5,586	781	6,906	-6,125	-27,653	52,998	86,775	-33,778		
August	630	6,786	-6,156	888	7,614	-6,726	-25,584	57,439	89,749	-32,310		
September	623	6,908	-6,285	869	7,760	-6,891	-23,922	59,431	90,244	-30,813		
October	738	7,197	-6,459	982	8,022	-7,040	-24,447	62,973	94,460	-31,487		
November	700	6,949	-6,249	925	7,854	-6,929	-25,704	60,948	93,581	-32,633		
December	884	7,190	-6,306	1,094	7,962	-6,868	-20,621	63,808	91,296	-27,489		
Total	7,118	67,173	-60,055	9,880	75,803	-65,923	-262,898	695,797	1,024,618	-328,821		
000 January	^R 804	^R 7,976	^R -7,172	^R 1,004	^R 8,825	^R -7,821	^R -21,689	^R 57,679	^R 87,188	^R -29,510		
February	^R 659	^R 8,807	^R -8,148	^R 827	^R 9,646	^R -8,819	^R -21,689	^R 61,179	^R 91,688	^R -30,508		
March	^R 867	^R 9,737	^R -8,870	^R 1,119	^R 10,604	^R -9,485	^R -24,811	^R 68,948	^R 103,244	^R -34,296		
	^R 795	^R 8.962	^R -8,167	^R 973	^R 9,815	^R -8,842	^R -22,996	^R 63,302	^R 95,141	^R -31,838		
April		/										
May	^R 696	^R 9,621	^R -8,925	^R 949	^R 10,638	^R -9,689	^R -26,705	^R 64,673	^R 101,067	^R -36,394		
June	_ 673	^R 10,512	^R -9,839	^R 907	^R 11,849	^R -10,942	^R -25,583	^R 68,002	^R 104,527	^R -36,525		
July	^R 726	^R 10,707	^R -9,981	^R 998	^R 12,169	^R -11,171	^R -30,786	^R 60,029	^R 101,986	^R -41,957		
August	929	^R 10,527	^R -9,598	^R 1,209	^R 11,990	^R -10,781	^R -29,130	^R 68,255	^R 108,166	^R -39,911		
September	^R 970	^R 10,642	^R -9,672	^R 1,241	^R 12,050	^R -10,809	^R -28,156	^R 67,391	^R 106,355	^R -38,965		
October		^R 11,206	^R -10,040	^R 1,424	^R 12,722	^R -11,298	^R -32,879	^R 69,635	^R 113,812	^R -44,177		
		D	D .	D .		D .	. ·	D .	D			
November	^к 992 ^R 915	^R 10,197 ^R 10,356	^ĸ -9,205 ^R -9,441	[™] 1,296	[™] 11,882	[™] -10,586	[™] -28,195	^R 67,614	[⊾] 106,395 ^R 98,452	[⊾] -38,781 ^R -33,242		
December Total		^R 119,251	^R -109.059	^R 1,232 ^R 13,179	^R 13,175 ^R 135,367	^R -11,943 ^R -122,188	^R -21,299 ^R -313,916	^R 65,211 ^R 781,918	^R 1,218,022	^R -436,104		
			,					-				
01 January	791	10,703	-9,912	1,177	13,276	-12,099	-26,667	62,340	101,106	-38,766		
February	720	8,939	-8,219	1,171	10,909	-9,738	-18,440	63,115	91,294	-28,178		
March	746	9,102	-8,356	1,158	11,002	-9,844	^R -22,984	^R 70,586	^R 103,414	^R -32,828		
April	764	9,483	-8,719	1,170	11,775	-10,605	-23,751	62,162	96,518	-34,356		
4-Month Total	3,022	38,228	-35,206	4,676	46,962	-42,286	-91,842	258,203	392,332	-134,129		
000 4-Month Total	3,125	35,482	-32,357	3,924	38,890	-34,967	-91,185	251,108	377,261	-126,153		

 ^a Crude oil, petroleum preparations, liquefied propane and butane, and other mineral fuels.
 ^b Petroleum, coal, natural gas, and electricity.

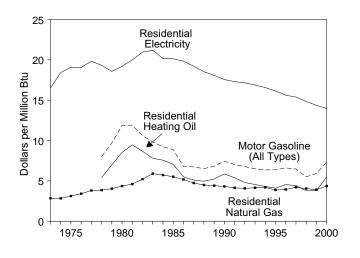
R=Revised.

Notes: Monthly data are not adjusted for seasonal variations. See Note 5 at end of section. Totals may not equal sum of components due to independent rounding. The U.S. import statistics reflect both government and nongovernment imports of merchandise from foreign countries into the U.S. customs territory, which comprises the 50 States, the District of Columbia, Puerto Rico, and the Virgin Islands.

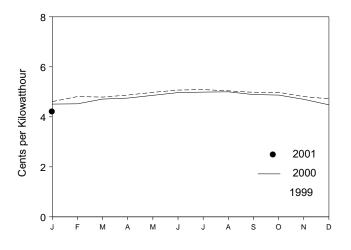
Source: U.S. Department of Commerce, Bureau of the Census, Foreign Trade Division. For details, see "Sources for Table 1.6" at the end of this section.

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

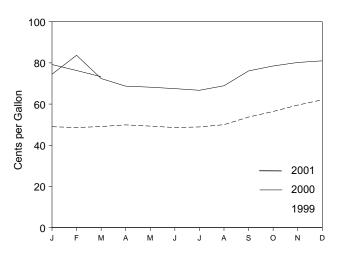
Costs, 1973-2000



Residential Electricity, Monthly



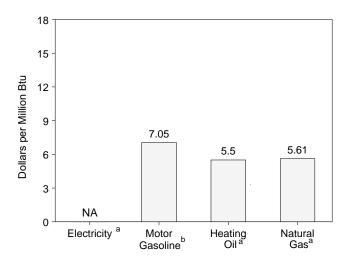
Residential Heating Oil, Monthly



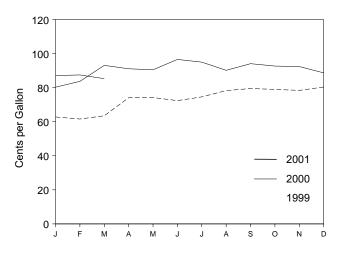
^aResidential. ^bAll types. NA=Not available.

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

Costs, February 2001



Motor Gasoline (All Types), Monthly



Residential Natural Gas, Monthly

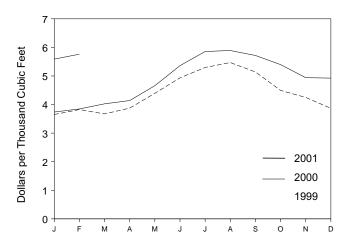


Table 1.7	Cost of Fuels to	End Users in Constant ((1982-84) Dollars
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	Consumer Price Index (Urban) ^a		Basoline Types)		lential ng Oil		lential al Gas	Resid Elect	
	Index 1982-1984=100	Cents per Gallon	Dollars per Million Btu	Cents per Gallon	Dollars per Million Btu	Cents per Thousand Cubic Feet	Dollars per Million Btu	Cents per Kilowatthour	Dollars pe Million Bt
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 60.6	NA NA	NA NA	NA NA	NA NA	348.0 387.8	3.41 3.81	6.5 6.8	19.06 19.83
1977 Average 1978 Average	65.2	100.0	8.00	75.2	5.42	392.6	3.86	6.6	19.33
979 Average	72.6	121.5	9.71	97.0	6.99	410.5	4.03	6.3	18.57
980 Average	82.4	148.2	11.85	118.2	8.52	446.6	4.36	6.6	19.21
981 Average		148.8	11.90	131.4	9.47	471.9	4.60	6.8	19.99
982 Average		132.7	10.61	120.2	8.67	535.8	5.22	7.2	20.96
983 Average	99.6	123.0	9.83	108.2	7.80	608.4	5.90	7.2	21.19
984 Average	103.9	115.3	9.22	105.0	7.57	589.0	5.72	6.88	20.17
985 Average	107.6	111.2	8.89	97.9	7.06	568.8	5.52	6.87	20.13
986 Average	109.6	84.9	6.79	76.3	5.50	531.9	5.17	6.77	19.84
987 Average	113.6	84.2	6.74	70.7	5.10	487.7	4.73	6.56	19.22
988 Average	118.3	81.4	6.51 6.83	68.7 72.6	4.96	462.4	4.49 4.41	6.32	18.53
989 Average	124.0 130.7	85.5 93.1	0.03 7.44	81.3	5.23 5.86	454.8 443.8	4.41	6.17 5.99	18.08 17.56
990 Average 991 Average	136.2	87.8	7.02	74.8	5.39	443.8	4.14	5.90	17.30
992 Average	140.3	84.8	6.78	66.6	4.80	419.8	4.07	5.85	17.15
993 Average	144.5	81.2	6.49	63.0	4.55	426.3	4.15	5.76	16.88
994 Average	148.2	79.2	6.36	59.6	4.30	432.5	4.20	5.65	16.57
995 Average	152.4	79.1	6.37	56.9	4.10	397.6	3.87	5.51	16.15
996 Average	156.9	82.1	6.61	63.0	4.54	404.1	3.93	5.33	15.62
997 Average	160.5	80.4	6.48	61.3	4.42	432.4	4.21	5.25	15.39
998 Average	163.0	68.4	5.51	52.3	3.77	418.4	4.05	5.07	14.85
999 January	164.3	62.8	5.06	49.0	3.53	365.2	3.55	4.61	13.52
February	164.5	61.6	4.97	48.6	3.51	382.4	3.72	4.81	14.11
March		63.5	5.12	49.1	3.54	367.3	3.57	4.79	14.03
April	166.2	74.1	5.97	49.9	3.60	387.5	3.77	4.87	14.27
May		74.2	5.98	49.3	3.56	439.2	4.27	4.98	14.58
June	166.2	72.4 74.6	5.84	48.6	3.50	493.4	4.80	5.07	14.87
July	166.7 167.1	74.6	6.01 6.31	48.9 50.0	3.53 3.60	529.7 547.0	5.15 5.32	5.09 5.04	14.93 14.77
August September	167.9	79.5	6.40	53.7	3.87	514.0	5.00	4.98	14.77
October	168.2	79.0	6.37	56.4	4.07	449.5	4.37	4.98	14.58
November	168.3	78.4	6.32	59.5	4.29	424.8	4.13	4.81	14.09
December	168.3	80.4	6.48	62.1	4.48	386.8	3.76	4.72	13.83
Average	166.6	73.3	5.91	52.6	3.79	401.6	3.91	4.90	14.36
000 January	168.8	80.3	6.47	74.5	5.37	373.8	3.64	4.51	13.23
February		83.7	6.75	83.7	6.04	384.6	3.74	4.52	13.26
March	171.2	93.1	7.50	72.4	5.22	402.5	3.91	^R 4.71	^R 13.80
April	171.3	91.1	7.34	68.7	4.95	413.9	4.03	4.75	13.91
May	171.5	90.5	7.29	68.2	4.91	465.9	4.53	4.86 ^R 4.97	^R 14.25 ^R 14.55
June	172.4	96.6 95.0	7.79	67.5 66 7	4.86	536.0	5.21	^R 4.97	^R 14.55
July August	172.8 172.8	95.0 90.2	7.66 7.27	66.7 68.9	4.81 4.97	585.6 589.1	5.70 5.73	^R 5.00	^R 14.65
September		94.1	7.59	76.1	5.48	571.7	5.56	^R 4.89	^R 14.34
October		92.7	7.47	78.5	5.66	539.7	5.25	^R 4.87	^R 14.27
November		92.4	7.44	80.2	5.78	^R 494.0	4.81	^R 4.70	^R 13.79
December		88.7	7.15	81.0	5.84	^R 492.5	^R 4.79	4.48	13.12
Average	172.2	90.8	7.32	76.1	5.49	447.7	4.36	4.77	^R 13.99
001 January		87.1	7.02	79.2	5.71	^R 559.1	^R 5.44	^R 4.41	^R 12.94
February		87.5	7.05	^R 76.3	^R 5.50	576.2	5.61	NA	NA
March	176.2	85.3	6.88	73.3	5.28	NA	NA	NA	NA

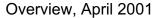
 $^{\rm a}$ Consumer Price Index, All Urban Consumers, All Items, 1982-1984 = 100.0.

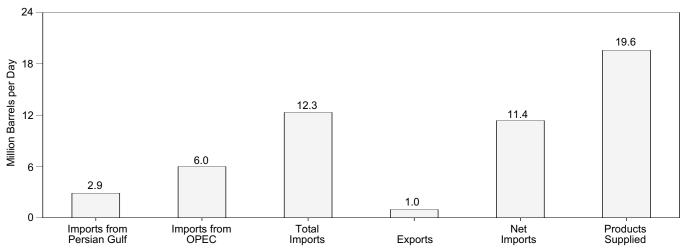
R=Revised. NA=Not available.

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.

Geographic coverage is the 50 States and the District of Columbia. Sources: Fuel Prices: Tables 9.4 (All Types), 9.8c, 9.11, and 9.9, adjusted by the CPI. CPI: 1973-1997—Economic Report of the President, February 2001, Table B-60. 1998 forward—Council of Economic Advisers, Economic Indicators, May 2001, "Consumer Prices - All Urban Consumers." Conversion Factors: Tables A1, A3, A4, and A6.

Figure 1.7 Overview of U.S. Petroleum Trade





75

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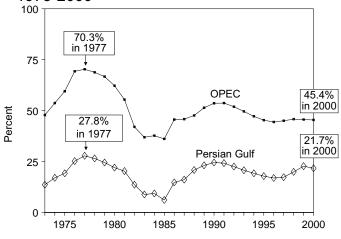
25

Percent

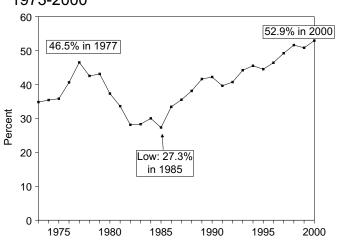
47.8

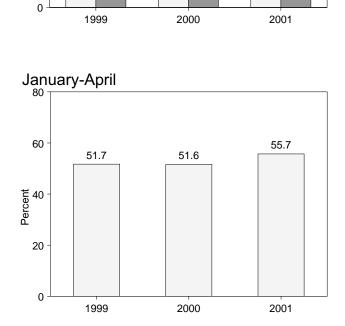
23

Imports from OPEC and the Persian Gulf as a Share of Total Imports 1973-2000 January-April



Net Imports as Share of Products Supplied 1973-2000





44.1

20.6

OPEC

46.4

Persian Gulf

21.6

OPEC=Organization of Petroleum Exporting Countries.

Note: Because vertical scales differ, graphs should not be compared. Source: Table 1.8, 3.1a, and 3.1b.

Table 1.8 Overview of U.S. Petroleum Trade

									hare of s Supplied			nare of mports
	Imports from Persian Gulf ^a	Imports from OPEC ^b	Total Imports	Exports	Net Imports	Products Supplied	Imports from Persian Gulf ^a	Imports from OPEC ^b	Total Imports	Net Imports	Imports from Persian Gulf ^a	Imports from OPEC ^b
			Thousand I	Barrels per	Day				Per	cent		
1973 Average	. 848	2,993	6,256	231	6,025	17,308	4.9	17.3	36.1	34.8	13.6	47.8
1974 Average		3,280	6,112	221	5,892	16,653	6.2	19.7	36.7	35.4	17.0	53.7
1975 Average		3,601	6,056	209	5,846	16,322	7.1	22.1	37.1	35.8	19.2	59.5
1976 Average		5,066	7,313	223	7,090	17,461	10.5	29.0	41.9	40.6	25.2	69.3
1977 Average		6,193	8,807	243	8,565	18,431	13.3	33.6	47.8	46.5	27.8	70.3
1978 Average 1979 Average		5,751 5,637	8,363 8,456	362 471	8,002 7,985	18,847 18,513	11.8 11.2	30.5 30.5	44.4 45.7	42.5 43.1	26.5 24.5	68.8 66.7
1980 Average		4,300	6,909	544	6,365	17,056	8.9	25.2	40.5	37.3	24.5	62.2
1981 Average		3,323	5,996	595	5,401	16,058	7.6	20.7	37.3	33.6	20.3	55.4
1982 Average		2,146	5,113	815	4,298	15,296	4.5	14.0	33.4	28.1	13.6	42.0
1983 Average		1,862	5,051	739	4,312	15,231	2.9	12.2	33.2	28.3	8.8	36.9
1984 Average		2,049	5,437	722	4,715	15,726	3.2	13.0	34.6	30.0	9.3	37.7
1985 Average		1,830	5,067	781	4,286	15,726	2.0	11.6	32.2	27.3	6.1	36.1
1986 Average		2,837	6,224	785	5,439	16,281	5.6	17.4	38.2	33.4	14.7	45.6
1987 Average 1988 Average		3,060 3,520	6,678 7,402	764 815	5,914 6,587	16,665 17,283	6.5 8.9	18.4 20.4	40.1 42.8	35.5 38.1	16.1 20.8	45.8 47.6
1989 Average		4,140	8,061	859	7,202	17,325	10.7	23.9	46.5	41.6	20.0	51.4
1990 Average	,	4,296	8,018	857	7,161	16,988	11.6	25.3	47.2	42.2	24.5	53.6
1991 Average		4,092	7,627	1,001	6,626	16,714	11.0	24.5	45.6	39.6	24.2	53.7
1992 Average		4,092	7,888	950	6,938	17,033	10.4	24.0	46.3	40.7	22.5	51.9
1993 Average		4,273	8,620	1,003	7,618	17,237	10.3	24.8	50.0	44.2	20.7	49.6
1994 Average		4,247	8,996	942	8,054	17,718	9.8	24.0	50.8	45.5	19.2	47.2
1995 Average		4,002	8,835	949	7,886	17,725	8.9	22.6	49.8	44.5	17.8	45.3
1996 Average		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
1997 Average 1998 Average		4,905	10,708	945	9,764	18,917	11.3	25.9	56.6	51.6	19.9	45.8
1999 January	. 2,129	4,819	10,424	896	9,529	19,029	11.2	25.3	54.8	50.1	20.4	46.2
February		5,110	10,650	756	9,894	19,107	12.5	26.7	55.7	51.8	22.4	48.0
March		5,109	10,658	764	9,894	19,497	14.4	26.2	54.7	50.7	26.3	47.9
April		5,679	11,618	1,196	10,422	19,152	13.8	29.7	60.7	54.4	22.7	48.9
May		5,079	11,511	915	10,596	18,705	13.3	27.2	61.5	56.6	21.5	44.1
June July		5,040 5,016	11,160 11,697	907 918	10,253 10,779	19,836 19,820	13.1 12.2	25.4 25.3	56.3 59.0	51.7 54.4	23.2 20.8	45.2 42.9
August		5,137	11,142	902	10,779	20,093	12.2	25.6	55.5	51.0	20.8	42.9
September		4,825	10,657	889	9,768	19,483	12.6	24.8	54.7	50.1	23.1	45.3
October		4,645	10,595	944	9,651	19,868	12.5	23.4	53.3	48.6	23.4	43.8
November		4,431	10,033	950	9,083	19,087	12.2	23.2	52.6	47.6	23.3	44.2
December	. 2,331	4,564	10,065	1,230	8,835	20,498	11.4	22.3	49.1	43.1	23.2	45.3
Average	2,464	4,953	10,852	940	9,912	19,519	12.6	25.4	55.6	50.8	22.7	45.6
2000 January	. ^R 2,048	^R 4,169	^R 10,140	1,006	^R 9,134	^R 19,026	^R 10.8	^R 21.9	^R 53.3	^R 48.0	R 20.2	^R 41.1
February	. ¹ 2,362	^R 4,907	^R 11,003	870	R 10,133	R 19,635	R 12.0	^R 25.0	^R 56.0	^R 51.6	^R 21.5	^R 44.6
March April		^R 5,054 ^R 5,171	^R 11,052 ^R 11,558	1,159 1,131	^R 9,893 ^R 10,427	^R 19,218 ^R 18,816	11.5 ^R 12.8	26.3 ^R 27.5	^R 57.5 ^R 61.4	^R 51.5 ^R 55.4	^R 19.9 ^R 20.8	^R 45.7 ^R 44.7
May		^R 4,904	^R 11,415	856	R 10,559	^R 19,605	R 11.3	27.5	^R 58.2	^R 53.9	^R 19.4	^R 43.0
June	, -	^R 5,558	^R 12,032	925	^R 11,107	^R 20,054	^R 12.9	R 27.7	R 60.0	^R 55.4	^R 21.5	^R 46.2
July		^R 5,178	^R 11,588	900	^R 10,688	^R 19,696	^R 13.3	26.3	^R 58.8	^R 54.3	^R 22.5	^R 44.7
August	. ^R 2,825	^R 5,904	^R 12,173	1,073	^R 11,099	^R 20,496	13.8	^R 28.8	^R 59.4	^R 54.2	^R 23.2	^R 48.5
September	. ^R 2,827	^R 5,470	^R 11,900	1,059	^R 10,841	^R 19,899	^R 14.2	^R 27.5	^R 59.8	^R 54.5	^R 23.8	^R 46.0
October	. * 2,504	^R 5,307	^R 11,290	1,292	^R 9,998	^R 19,798	^R 12.6	^R 26.8	^R 57.0	^R 50.5	R 22.2	^R 47.0
November	. 2,482	^R 5,236	R 11,309	1,108	R 10,201	^R 19,328	R 12.8	27.1 B 26 0	^R 58.5	^R 52.8	^R 21.9	^R 46.3
December Average	. ^R 2,791	^R 5,575 ^R 5,203	^R 12,053 ^R 11,459	1,095 1,040	^R 10,958 ^R 10,419	^R 20,814 ^R 19,701	13.4 ^R 12.6	^R 26.8 26.4	^R 57.9 ^R 58.2	^R 52.6 ^R 52.9	^R 23.2 ^R 21.7	^R 46.3 ^R 45.4
2001 January	. 2.438	5,405	12,118	965	11,154	19,900	12.3	27.2	60.9	56.0	20.1	44.6
February		4,999	11,462	1,015	10,447	19,597	11.9	25.5	58.5	53.3	20.4	43.6
March		5,783	11,942	947	10,996	19,892	13.5	29.1	60.0	55.3	22.4	48.4
April		5,983	12,311	950	11,361	19,591	14.6	30.5	62.8	58.0	23.3	48.6
4-Month Average	2,584	5,552	11,968	968	11,000	19,750	13.1	28.1	60.6	55.7	21.6	46.4
2000 4-Month Average 1999 4-Month Average		4,821 5,177	10,932 10,836	1,043 904	9,888 9,932	19,169 19,199	11.7 13.0	25.2 27.0	57.0 56.4	51.6 51.7	20.6 23.0	44.1 47.8

^a Bahrain, Iran, Iraq, Kuwait, Qatar, Saudi Arabia, and the United Arab b Organization of Petroleum Exporting Countries. See Glossary.

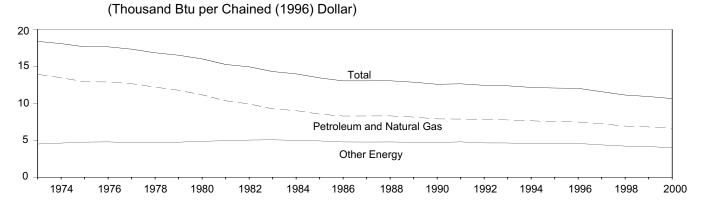
R=Revised.

Notes: Readers of Table 1.8 may be interested in a feature article, "Measuring Dependence on Imported Oil," that was published in the August 1995 Monthly Energy Review. Petroleum is crude oil, lease condensate, unfinished oils, petroleum products, natural gas plant liquids, and nonhydrocarbon compounds blended into finished petroleum products.

Beginning in October 1977, petroleum imported for the Strategic Petroleum Reserves is included. Annual averages may not equal average of months due to independent rounding. U.S. geographic coverage is the 50 States and the District of Columbia. U.S. exports include shipments to U.S. territories, and imports include receipts from U.S. territories.

Sources: Column 1: Table 3.3b. Column 2: Table 3.3d. 3-5: Table 3.1b. Column 6: Table 3.1a. Columns 7-12: C Energy Information Administration. Columns Columns 7-12: Calculated by

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



Energy Consumption per Dollar of Gross Domestic Product Table 1.9

	En	ergy Consumptio	on		Energy Consumption per Dollar of GDP				
	Petroleum and Natural Gas	Other Energy ^a	Total	Gross Domestic Product (GDP)	Petroleum and Natural Gas	Other Energy ^a	Total		
		Quadrillion Btu		Billion Chained (1996) Dollars	Thousand Bt	u per Chained (19	96) Dollar		
973 Year	57.352	18.456	75.808	4,123.4	13.91	4.48	18.38		
974 Year	55.187	18.893	74.080	4.099.0	13.46	4.61	18.07		
975 Year	52.678	19.364	72.042	4.084.4	12.90	4.74	17.64		
976 Year	55.520	20.552	76.072	4,311.7	12.88	4.77	17.64		
977 Year	57.053	21.069	78.122	4,511.8	12.65	4.67	17.32		
978 Year	57.966	22.158	80.123	4,760.6	12.18	4.65	16.83		
979 Year	57.789	23.255	81.044	4,912.1	11.76	4.73	16.50		
980 Year	54.596	23.839	78.435	4,900.9	11.14	4.86	16.00		
981 Year	51.859	24.710	76.569	5.021.0	10.33	4.92	15.25		
982 Year	48.736	24.704	73.440	4,919.3	9.91	5.02	14.93		
983 Year	47.411	25.906	73.317	5,132.3	9.24	5.05	14.33		
984 Year	49.558	27.413	76.972	5,505.2	9.00	4.98	13.98		
985 Year	48.756	28.022	76.778	5.717.1	8.53	4.90	13.43		
986 Year	48.904	28.161	77.065	5,912.4	8.27	4.76	13.03		
987 Year	50.609	29.024	79.633	6,113.3	8.28	4.75	13.03		
988 Year	52.774	30.294	83.068	6,368.4	8.29	4.76	13.04		
989 Year	53.595	^{b c} 31.121	^{b c} 84.716	6,591.8	8.13	4.72	12.85		
990 Year	52.849	31.495	84.344	6,707.9	7.88	4.70	12.57		
991 Year	52.452	31.846	84.298	6,676.4	7.86	4.77	12.63		
992 Year	53.657	31.855	85.513	6,880.0	7.80	4.63	12.03		
993 Year	54.668	32.632	87.300	7.062.6	7.74	4.62	12.36		
994 Year	55.958	33.255	89.213	7,347.7	7.62	4.53	12.30		
995 Year	56.717	34.226	90.943	7,543.8	7.52	4.54	12.14		
996 Year	58.316	35.615	93.931	7,813.2	7.46	4.56	12.00		
997 Year	58.795	35.545	94.340	8,159.5	7.21	4.36	11.56		
998 Year	58.855	35.753	94.608	8,515.7	6.91	4.20	11.11		
999 1 st Quarter	60.773	NA	NA	8,730.0	6.96	NA	NA		
2 nd Quarter	60.295	NA	NA	8,783.2	6.86	NA	NA		
3 rd Quarter	60.280	NA	NA	8,905.8	6.77	NA	NA		
4 th Quarter	59.634	NA	NA	9,084.1	6.56	NA	NA		
Year	60.248	^R 36.604	^R 96.852	8,875.8	6.79	^R 4.12	^R 10.91		
2000 1 st Quarter	^R 61.330	NA	NA	9,191.8	^R 6.67	NA	NA		
2 nd Quarter	^R 61.997	NA	NA	9,318.9	^R 6.65	NA	NA		
3 rd Quarter	^R 61.106	NA	NA	9,369.5	^R 6.52	NA	NA		
4 th Quarter	^R 62.736	NA	NA	9,393.7	^R 6.68	NA	NA		
Year	^R 61.793	^R 37.297	^R 99.090	9,318.5	^R 6.63	^R 4.00	^R 10.63		
2001 1 st Quarter	63.526	NA	NA	9,424.5	6.74	NA	NA		

(Seasonally Adjusted at Annual Rates)

^a Coal, nuclear electric power, renewable energy, and pumped-storage hydroelectric power. ^b Beginning in 1989, includes electricity generated by nonutility nuclear

units.

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

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

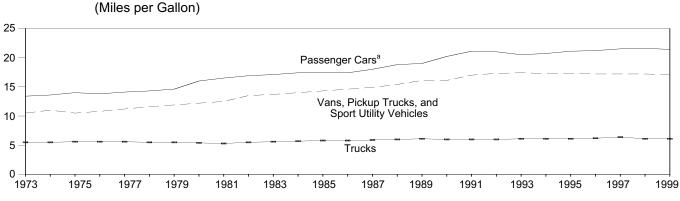
Notes: Quarterly data are seasonally adjusted and shown at annual Yearly data may not equal average of quarters due to seasonality rates.

adjustments and independent rounding. components due to independent rounding. States and the District of Columbia.

Totals may not equal sum of Geographic coverage is the 50

Energy Consumption: Table 1.4. Sources: Gross Domestic Product: 1973-1997-U.S. Department of Commerce, Bureau of Economic Analysis, Survey of Current Business, November 1999, Table 3B. 1998 forward-U.S. Department of Commerce, Bureau of Economic Analysis, BEA News Release, May 25, 2001, Table 3, which is available at website www.bea.doc.gov/bea/newsrel/gdp400p.htm.

Figure 1.9 Motor Vehicle Fuel Rates



^a Includes motorcycles through 1989.

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

		Passenger Cars	5		ns, Pickup Truc port Utility Veh			Trucks ^b		All Motor Vehicles ^c		
	Mileage (miles per vehicle)	Fuel Consumption (gallons per vehicle)	Fuel Rate (miles per gallon)	Mileage (miles per vehicle)	Fuel Consumption (gallons per vehicle)	Fuel Rate (miles per gallon)	Mileage (miles per vehicle)	Fuel Consumption (gallons per vehicle)	Fuel Rate (miles per gallon)	Mileage (miles per vehicle)	Fuel Consumption (gallons per vehicle)	Fuel Rate (miles pe gallon)
1973	^d 9.884	^d 737	^d 13.4	9,779	931	10.5	15,370	2,775	5.5	10,099	850	11.9
1974	^d 9,221	d677	^d 13.6	9,452	862	11.0	14,995	2,708	5.5	9,493	788	12.0
1975	d9.309	d665	^d 14.0	9,829	934	10.5	15,167	2,722	5.6	9,627	790	12.2
1976	^d 9.418	d681	d13.8	10.127	934	10.8	15,438	2,764	5.6	9,774	806	12.1
1977	d9,517	d676	d14.1	10.607	947	11.2	16,700	3,002	5.6	9,978	814	12.3
1978	d9.500	d665	^d 14.3	10.968	948	11.6	18,045	3,263	5.5	10,077	816	12.4
1979	d9.062	d620	d14.6	10.802	905	11.9	18,502	3,380	5.5	9,722	776	12.5
1980	d8,813	d551	d16.0	10,437	854	12.2	18,736	3,447	5.4	9,458	712	13.3
1981	d8,873	d538	d16.5	10,244	819	12.5	19,016	3,565	5.3	9,477	697	13.6
1982	d9.050	d535	^d 16.9	10.276	762	13.5	19,931	3,647	5.5	9,644	686	14.1
1983	^d 9,118	d534	d17.1	10.497	767	13.7	21,083	3,769	5.6	9,760	686	14.2
1984	d9,248	d530	^d 17.4	11,151	797	14.0	22,550	3,967	5.7	10,017	691	14.5
1985	d9,419	^d 538	^d 17.5	10,506	735	14.3	20,597	3,570	5.8	10,020	685	14.6
1986	d9,464	^d 543	^d 17.4	10,764	738	14.6	22,143	3,821	5.8	10,143	692	14.7
1987	d9,720	d539	^d 18.0	11,114	744	14.9	23,349	3,937	5.9	10,453	694	15.1
1988	d9,972	d531	^d 18.8	11,465	745	15.4	22,485	3,736	6.0	10,721	688	15.6
1989	d10,157	d533	^d 19.0	11,676	724	16.1	22,926	3,776	6.1	10,932	688	15.9
1990	10,504	520	20.2	11,902	738	16.1	23,603	3,953	6.0	11,107	677	16.4
1991	10,571	501	21.1	12,245	721	17.0	24,229	4,047	6.0	11,294	669	16.9
1992	10,857	517	21.0	12,381	717	17.3	25,373	4,210	6.0	11,558	683	16.9
1993	10,804	527	20.5	12,430	714	17.4	26,262	4,309	6.1	11,595	693	16.7
1994	10,992	531	20.7	12,156	701	17.3	25,838	4,202	6.1	11,683	698	16.7
1995	11,203	530	21.1	12,018	694	17.3	26,514	4,315	6.1	11,793	700	16.8
1996	11,330	534	21.2	11,811	685	17.2	26,092	4,221	6.2	11,813	700	16.9
1997	11,581	539	21.5	12,115	703	17.2	27,032	4,218	6.4	12,107	711	17.0
1998	11,754	544	21.6	12,173	707	17.2	25,397	4,135	6.1	12,211	721	16.9
1999 ^e	11,850	552	21.4	11,958	700	17.1	26,015	4,282	6.1	12,208	729	16.8

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

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

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

^e Preliminary.

Notes: Geographic coverage is the 50 States and the District of Columbia. Web Page: http://www.fhwa.dot.gov/ohim. Sources: Passenger Cars: 1990-1994: U.S. Department of Transportation, Bureau of Transportation Statistics, *National Transportation Statistics* 1998, Table 4-13. All Other Data: 1973-1994: Federal Highway Administration (FHWA), Highway Statistics, annual, Table VM-201A. 1995 forward: FHWA, Highway Statistics, annual, Table VM-1.

		May ²	1 through M	ay 31				Cumulative 1 through M		
				Percent	Change				Percent	Change
Census Divisions	Normal a	2000	2001	Normal to 2001	2000 to 2001	Normala	2000	2001	Normal to 2001	2000 to 2001
New England Connecticut, Maine, Massachusetts, New Hampshire, Rhode Island, Vermont	275	281	252	-8	-10	6,562	6,136	6,698	2	9
Middle Atlantic New Jersey, New York, Pennsylvania	200	172	170	-15	-1	5,808	5,273	5,858	1	11
East North Central Illinois, Indiana, Michigan, Ohio, Wisconsin	217	158	162	-25	2	6,377	5,664	6,418	1	13
West North Central Iowa, Kansas, Minnesota, Missouri, Nebraska, North Dakota, South Dakota	189	147	162	-14	10	6,592	5,633	6,924	5	23
South Atlantic Delaware, Florida, Georgia, Maryland and the District of Columbia, North Carolina, South Carolina, Virginia, West Virginia	51	34	43	(°)	(°)	2,891	2,639	3,063	6	16
East South Central Alabama, Kentucky, Mississippi, Tennessee	63	30	46	(°)	(°)	3,585	3,126	3,826	7	22
West South Central Arkansas, Louisiana, Oklahoma, Texas	10	13	9	(°)	(°)	2,305	1,772	2,626	14	48
Mountain Arizona, Colorado, Idaho, Montana, Nevada, New Mexico, Utah, Wyoming	231	168	172	-26	2	5,241	4,508	5,270	1	17
Pacific ^b California, Oregon, Washington	183	147	94	-49	-36	3,166	2,794	3,193	1	14
U.S. Average ^b	150	119	113	-25	-5	4,540	4,019	4,671	3	16

Table 1.11 Heating Degree-Days by Census Division

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

^b Excludes Alaska and Hawaii.

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

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

Notes: Degree-days are relative measurements of outdoor air temperature used as an index for heating and cooling energy requirements. Heating degree-days are the number of degrees that the daily average temperature falls below 65° F. Cooling degree-days are the number of degrees that the

daily average temperature rises above 65° F. The daily average temperature is the mean of the maximum and minimum temperatures in a 24-hour period. For example, a weather station recording an average daily temperature of 40° F would report 25 heating degree-days for that day (and 0 cooling degree-days). If a weather station recorded an average daily temperature of 78° F, cooling degree-days for that station would be 13 (and 0 heating degree days).

Sources: See end of section.

		May ⁻	1 through M	ay 31		Cumulative January 1 through May 31					
				Percent	Change				Percent	Change	
Census Divisions	Normal ^a	2000	2001	Normal to 2001	2000 to 2001	Normal ^a	2000	2001	Normal to 2001	2000 to 2001	
New England Connecticut, Maine, Massachusetts, New Hampshire, Rhode Island, Vermont	5	12	25	(c)	(°)	5	12	26	(c)	(°)	
Middle Atlantic New Jersey, New York, Pennsylvania	24	42	29	(°)	(°)	24	42	33	(°)	(°)	
East North Central Illinois, Indiana, Michigan, Ohio, Wisconsin	52	56	39	(°)	(°)	54	51	51	(°)	(°)	
West North Central Iowa, Kansas, Minnesota, Missouri, Nebraska, North Dakota, South Dakota	72	80	61	(°)	(°)	83	73	86	(°)	(°)	
South Atlantic Delaware, Florida, Georgia, Maryland and the District of Columbia, North Carolina, South Carolina, Virginia, West Virginia	176	239	191	8	-20	352	404	394	12	-2	
East South Central Alabama, Kentucky, Mississippi, Tennessee	142	213	168	18	-20	206	257	260	26	1	
West South Central Arkansas, Louisiana, Oklahoma, Texas	253	350	285	13	-19	432	590	483	12	-18	
Mountain Arizona, Colorado, Idaho, Montana, Nevada, New Mexico, Utah, Wyoming	85	147	159	(°)	(°)	127	198	212	67	7	
Pacific ^b California, Oregon, Washington	31	51	85	(°)	(°)	49	65	101	(°)	(°)	
U.S. Average ^b	95	131	113	(°)	(°)	155	193	186	20	-4	

Table 1.12 Cooling Degree-Days by Census Division

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

^b Excludes Alaska and Hawaii.

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

Notes: Degree-days are relative measurements of outdoor air temperature used as an index for heating and cooling energy requirements. Cooling degree-days are the number of degrees that the daily average temperature rises above 65° F. Heating degree-days are the number of degrees that the

daily average temperature falls below 65° F. The daily average temperature is the mean of the maximum and minimum temperatures in a 24-hour period. For example, if a weather station recorded an average daily temperature of 78° F, cooling degree-days for that station would be 13 (and 0 heating degree-days). A weather station recording an average daily temperature of 40° F would report 25 heating degree-days for that day (and 0 cooling degree-days).

Sources: See end of section.

Energy Overview Notes

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

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

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

4. Energy Exports: Includes exports of fossil fuels (coal, natural gas, and petroleum), some secondary energy derived from fossil fuels (coal coke exports, and electricity exports from fossil fuels), and renewable energy (electricity exports derived from hydroelectric power). Approximate heat contents (Btu values) are derived by using the conversion factors provided in

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

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

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

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

Sources for Table 1.6

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

Petroleum Exports

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

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

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

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

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

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

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

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

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

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

1998: "U.S. International Trade in Goods and Services, Annual Revision for 1998." 1999: "U.S. International Trade in Goods and Services, Annual Revision for 1999."

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

2001: "U.S. International Trade in Goods and Services," FT-900, monthly.

Petroleum Imports

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

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

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

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

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

1992," December 17, 1992, page 3.

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

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

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

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

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

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

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

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

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

2001: "U.S. International Trade in Goods and Services," FT-900, monthly.

Energy Exports and Imports

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

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

1989: Monthly FT-900, 1990 issues.

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

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

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

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

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

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

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

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

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

Annual Revision for 1997."

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

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

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

2001: "U.S. International Trade in Goods and Services," FT-900, monthly.

Petroleum, Energy, and Non-Energy Balances

Calculated by the Energy Information Administration.

Total Merchandise

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

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

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

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

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

1992: "U.S. International Trade in Goods and Services, Annual Revision for 1994."

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

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

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

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

2001: "U.S. International Trade in Goods and Services," FT-900, monthly.

Sources for Tables 1.11 and 1.12

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

The State figures are then aggregated into Census Divisions and into the national average. The population weights currently used represent resident State population data estimated for 1990 by the U.S. Department of Commerce, Bureau of the Census. The data provided here are available sooner than the Historical Climatology Series 5-1 (heating degree-days) and 5-2 (cooling degree-days) developed by the National Climatic Data Center, Asheville, NC, which compiles data from some 8,000 weather stations.

Section 2. Energy Consumption by Sector

U.S. total energy consumption in March 2001 was 8.7 quadrillion Btu, 5 percent higher than in March 2000.

Residential sector total consumption was 2.0 quadrillion Btu in March 2001, 19 percent higher than the March 2000 level. The sector accounted for 23 percent of total energy consumption.

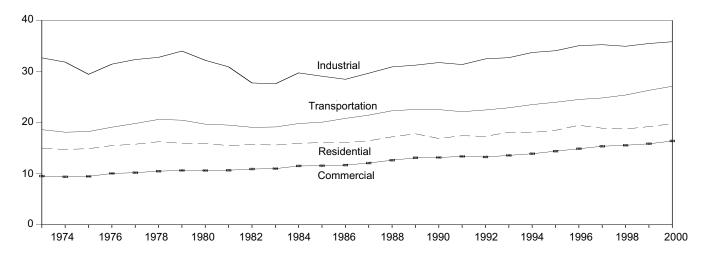
Commercial sector total consumption was 1.5 quadrillion Btu in March 2001, 7 percent higher than the March 2000 level. The sector accounted for 17 percent of total energy consumption. Industrial sector total consumption was 3.0 quadrillion Btu in March 2001, 2 percent lower than the March 2000 level. The sector accounted for 34 percent of total energy consumption.

Transportation sector total consumption was 2.3 quadrillion Btu in March 2001, up 3 percent from the March 2000 level. The sector accounted for 26 percent of total energy consumption.

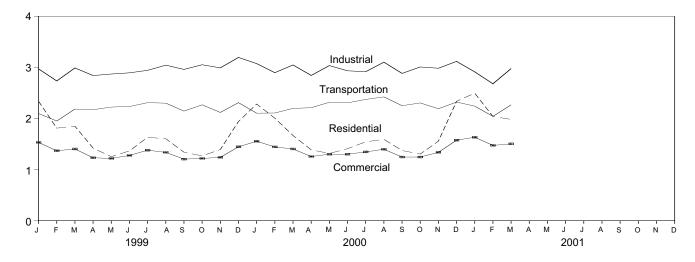
Electric power sector primary consumption was 3.0 quadrillion Btu in March 2001, 6 percent higher than the March 2000 level. Fossil fuels accounted for 66 percent of all primary energy consumed by the electric power sector; nuclear electric power 22 percent; and renewable energy 12 percent.

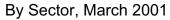
Figure 2.1 Energy Consumption by Sector (Quadrillion Btu)

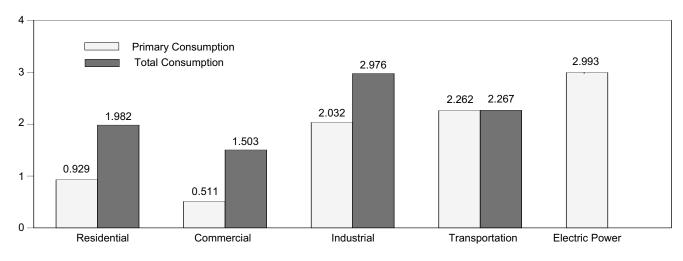
Total Consumption End Use, 1973-2000



Total Consumption End Use, Monthly







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

Table 2.1 Energy Consumption by Sector

(Quadrillion Btu)

				End-Use	Sectorsa				Electric Power	
	Resid	ential	Comr	nercial	Indu	strial	Transp	ortation	Sector ^a	
	Primary	Total	Primary	Total	Primary	Total	Primary	Total	Primary	Total ^b
973 Total	8.258	14.983	4.373	9.534	24.706	32.672	18.576	18.612	19.887	75.808
974 Total	7.948	14.903	4.373	9.374	23.783	32.072	18.086	18.119	20.055	74.080
	8.027	14.888	4.002	9.465	23.783	29.445	18.209	18.244	20.382	72.042
975 Total										
976 Total	8.431	15.493	4.310	10.038	22.652	31.434	19.065	19.099	21.607	76.072
977 Total	8.232	15.765	4.193	10.194	23.160	32.336	19.784	19.820	22.746	78.122
78 Total	8.309	16.249	4.233	10.489	23.245	32.770	20.580	20.615	23.755	80.123
79 Total	7.971	15.937	4.296	10.635	24.177	33.999	20.436	20.471	24.162	81.044
80 Total	7.533	15.938	4.068	10.613	22.640	32.189	19.658	19.696	24.538	78.435
81 Total	7.142	15.482	3.791	10.672	21.371	30.906	19.469	19.506	24.793	76.569
82 Total	7.206	15.704	3.816	10.906	19.079	27.756	19.032	19.070	24.303	73.440
83 Total	6.879	15.603	3.783	10.989	18.565	27.580	19.098	19.141	24.989	73.317
84 Total	7.036	15.927	3.945	11.510	20.175	29.724	19.761	19.809	26.053	76.972
85 Total	7.024	16.095	3.676	11.550	19.507	29.067	20.023	20.071	26.552	76.778
86 Total	6.842	16.087	3.617	11.684	19.100	28.474	20.768	20.818	26.735	77.065
87 Total	6.874	16.437	3.710	12.078	20.013	29.664	21.405	21.456	27.633	79.633
88 Total	7.280	17.213	3.918	12.640	20.926	30.899	22.261	22.313	28.681	83.068
88 Total										
89 Total	7.522	17.805	3.892	13.099	20.727	31.238	22.517	22.571	30.055	84.716
90 Total	6.494	16.884	3.742	13.168	21.111	31.743	22.488	22.541	30.502	84.344
91 Total	6.723	17.427	3.800	13.382	20.754	31.359	22.077	22.130	30.943	84.298
92 Total	6.916	17.300	3.834	13.264	21.679	32.472	22.419	22.471	30.660	85.513
93 Total	7.156	18.124	3.828	13.583	21.928	32.702	22.844	22.896	31.550	87.300
94 Total	6.991	18.074	3.865	13.899	22.640	33.717	23.467	23.522	32.249	89.213
95 Total	7.063	18.492	3.958	14.406	22.962	34.063	23.921	23.975	33.033	90.943
96 Total	7.598	19.471	4.127	14.876	23.716	35.053	24.469	24.523	34.013	93.931
97 Total	7.136	18.899	4.150	15.375	23.890	35.241	24.770	24.823	34.393	94.340
98 Total	6.497	18.735	3.883	15.556	23.554	34.938	25.336	25.390	35.350	94.608
99 January	1.146	^R 2.337	.580	1.531	2.080	2.971	2.092	2.096	^R 3.037	^R 8.935
February	.894	^R 1.811	.494	1.368	1.873	^R 2.734	1.946	1.950	^R 2.656	^R 7.861
March	.873	1.847	.477	^R 1.403	2.055	2.989	2.180	2.184	^R 2.837	^R 8.421
April	.584	^R 1.421	.328	^R 1.231	1.909	2.840	2.167	2.171	^R 2.675	^R 7.660
May	.384	^R 1.252	.236	^R 1.218	1.863	^R 2.870	2.219	2.223	^R 2.862	^R 7.563
June	.305	^R 1.365	.202	R 1.276	1.885	R 2.893	2.230	2.234	R 3.148	^R 7.774
July	.274	^R 1.631	.191	R 1.379	1.918	^R 2.942	2.304	2.309	^R 3.574	^R 8.268
August	.268	^R 1.603	.198	^R 1.336	2.041	R 3.043	2.295	2.300	^R 3.480	^R 8.288
	.285	^R 1.340	.195	^R 1.204	2.041	^R 2.960	2.235	2.300	^R 2.989	^R 7.651
September						R 3.051				
October	.403	^R 1.268	.249	^R 1.218	2.110		2.262	2.267	^R 2.778	^R 7.803
November	.549	^R 1.392	.320	^R 1.239	2.038	^R 2.991	2.114	2.118	R 2.719	^R 7.738
December	.882	_ ^R 1.941	.457	_ ^R 1.445	2.233	_ ^R 3.194	2.304	2.309	^R 3.012	^R 8.886
Total	6.847	^R 19.210	3.929	^R 15.849	24.046	^R 35.474	26.256	26.311	^R 35.766	^R 96.852
	^R 1.105	^R 2.282	^R .573	^R 1.554	^R 2.138	^R 3.074	^R 2.099	^R 2.104	^R 3.099	^R 9.012
00 January	^R .996		^R .573	^R 1.554				^R 2.104 ^R 2.107	^R 2.796	^R 8.449
February	··.990	2.006	·`.044		^R 2.014	R 2.896	^R 2.102	·· 2.107		·· 8.449
March	^R .745	1.666	^R .457	^R 1.403	^R 2.086	^R 3.047	^R 2.193	^R 2.198	^R 2.832	^R 8.310
April	^R .562	^R 1.387	R.338	^R 1.255	^R 1.911	^R 2.842	^R 2.205	^R 2.210	^R 2.678	^R 7.688
May	^R .380	^R 1.315	^R .257	^R 1.301	2.032	^R 3.035	^R 2.312	^R 2.317	R 2.987	^R 7.966
June	^R .302	1.409	^R .221	^R 1.301	^R 1.960	^R 2.933	^R 2.301	^R 2.305	^R 3.166	^R 7.951
July	.271	^R 1.543	^R .218	^R 1.345	^R 1.954	^R 2.915	^R 2.368	^R 2.373	^R 3.366	^R 8.179
August	^R .276	^R 1.592	^R .225	^R 1.397	^R 2.096	^R 3.102	^R 2.417	^R 2.422	^R 3.499	^R 8.516
September	.294	1.373	^R .224	^R 1.245	^R 1.974	2.882	^R 2.245	^R 2.250	^R 3.013	^R 7.750
October	403	1.303	^R .265	^R 1.245	^R 2.079	^R 3.008	R 2.299	^R 2.304	^R 2.812	^R 7.858
November	^R .657	^R 1.556	R.377	R 1.337	^R 2.027	^R 2.983	^R 2.186	^R 2.190	^R 2.820	^R 8.063
December	^R 1.133	^R 2.337	^R .579	^R 1.575	^R 2.198	^R 3.117	^R 2.316	^R 2.321	^R 3.123	^R 9.347
Total	^R 7.124	R 19.778	R 4.277	^R 16.400	^R 24.469	R 35.824	R 27.044	R 27.100	^R 36.189	^R 99.090
01 January	^R 1.223	^R 2.495	^R .651	^R 1.632	^R 2.073	^R 2.912	^R 2.236	^R 2.241	^R 3.096	^R 9.279
February	^R 1.010	^R 2.039	^R .559	^R 1.473	^R 1.830	^R 2.679	^R 2.036	^R 2.041	^R 2.796	RE 8.230
March	.929	1.982	.511	1.503	2.032	2.976	2.262	2.267	2.993	E 8.726
3-Month Total	3.163	6.516	1.721	4.608	5.935	8.567	6.535	6.548	8.886	E 26.235
00 3-Month Total 99 3-Month Total	2.846 2.914	5.955	1.573	4.399 4.302	6.238 6.008	9.016 8.694	6.395 6.217	6.408 6.230	8.727 8.530	25.771 25.216
		5.995	1.552							

^a Most nonutility use of fossil fuels to produce electricity is included in the end-use sectors. See Note 2 at end of section.
 ^b The sum of primary consumption in the five energy-use sectors equals the five formation of the five energy-use sectors equals the five formation of the five energy-use sectors equals the five energy-use sectors.

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

R=Revised. E=Estimate.

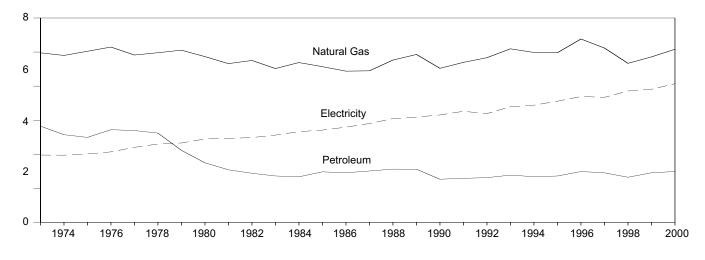
Notes: Primary consumption includes coal, natural gas, petroleum, nuclear electric power, hydroelectric power, wood, waste, alcohol fuels, geothermal, solar, wind, net imports of coal coke, and net imports of electricity. Total consumption includes primary consumption; electric utility retail sales of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

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

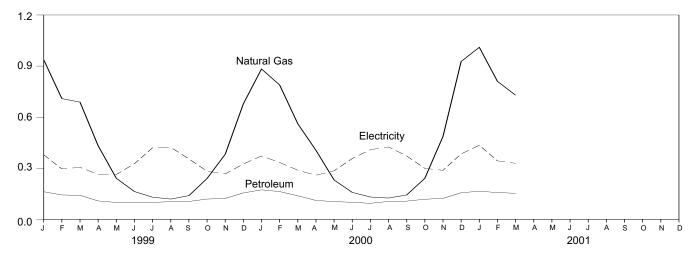
Figure 2.2 Residential Sector Energy Consumption

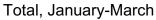
(Quadrillion Btu)

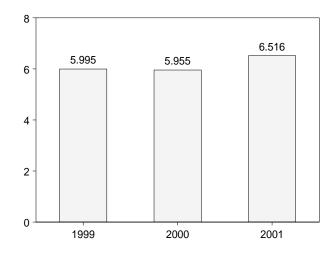
By Major Sources, 1973-2000



By Major Sources, Monthly







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

By Major Sources, March 2001

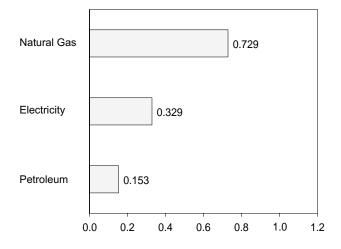


Table 2.2 Residential Sector Energy Consumption

(Quadrillion Btu)

				Prima	ry Consum	ption						
		Foss	il Fuels ^a			Renewable	Energy				Electrical	
	Coal	Natural Gas ^b	Petroleum	Total	Wood ^c	Geo- thermal ^d	Solar ^e	Total	Total Primary	Electricity ^f	System Energy Losses ^g	Total
1973 Total	0.102	4.977	2.825	7.904	0.354	NA	NA	0.354	8.258	1.976	4.749	14.983
1974 Total	.103	4.901	2.573	7.577	.371	NA	NA	.371	7.948	1.973	4.824	14.745
1975 Total	.084	5.023	2.495	7.601	.425	NA	NA	.425	8.027	2.007	4.855	14.888
1976 Total 1977 Total	.081 .082	5.147 4.913	2.720 2.695	7.949 7.690	.482 .542	NA NA	NA	.482 .542	8.431 8.232	2.069 2.202	4.994 5.331	15.493 15.765
1978 Total	.082	4.913	2.695	7.690	.622	NA	NA NA	.622	8.309	2.301	5.639	16.249
1979 Total	.075	5.055	2.114	7.243	.728	NA	NA	.728	7.971	2.330	5.636	15.937
1980 Total	.060	4.866	1.748	6.674	.859	NA	NA	.859	7.533	2.448	5.958	15.938
1981 Total	.070	4.660	1.543	6.273	.869	NA	NA	.869	7.142	2.464	5.876	15.482
1982 Total	.075	4.753	1.441	6.269	.937	NA	NA	.937	7.206	2.489	6.008	15.704
1983 Total	.075	4.516	1.362	5.954	.925	NA	NA	.925	6.879	2.562	6.162	15.603
1984 Total	.083	4.692	1.337	6.113	.923	NA	NA	.923	7.036	2.662	6.229	15.927
1985 Total	.070	4.571	1.483	6.125 5.966	.899 876	NA	NA	.899 876	7.024	2.709	6.362	16.095
1986 Total 1987 Total	.070 .065	4.439 4.449	1.457 1.508	5.966 6.022	.876 .852	NA NA	NA NA	.876 .852	6.842 6.874	2.795 2.902	6.450 6.662	16.087 16.437
1988 Total	.065	4.449	1.563	6.395	.885	NA	NA	.885	7.280	3.046	6.887	17.213
1989 Total	.058	4.929	1.560	6.547	.918	.005	.053	.976	7.522	3.090	7.193	17.805
1990 Total	.062	4.523	1.266	5.852	.581	.006	.056	.642	6.494	3.153	7.238	16.884
1991 Total	.056	4.697	1.293	6.047	.613	.006	.058	.677	6.723	3.260	7.444	17.427
1992 Total	.057	4.835	1.312	6.205	.645	.006	.060	.711	6.916	3.193	7.191	17.300
1993 Total	.057	5.095	1.387	6.540	.548	.007	.062	.616	7.156	3.394	7.574	18.124
1994 Total	.056	4.988	1.340	6.384	.537	.006	.064	.607	6.991	3.441	7.642	18.074
1995 Total	.054	4.981	1.361	6.396	.596	.007	.065	.667	7.063	3.557	7.871	18.492
1996 Total	.055	5.383	1.492	6.930	.595	.007	.066	.668	7.598	3.694	8.179	19.471
1997 Total 1998 Total	.058 .044	5.118 4.669	1.454 1.324	6.630 6.037	.433 .387	.007 .008	.065 .065	.506 .459	7.136 6.497	3.671 3.856	8.092 8.383	18.899 18.735
	.044	4.005	1.524	0.007		.000	.005	.400	0.457	5.050	0.000	10.755
1999 January	.006	.937	.162	1.105	^A .035	^A .001	^A .005	^A .041	1.146	.379	^R .812	^R 2.337
February	.005	.709	.143	.857	^A .032	^A .001	^A .005	^A .037	.894	.296	^R .621	^R 1.811
March	.003	.688	.141	.832	^A .035	^A .001	^A .005	^A .041	.873	.305	^R .668	1.847
April	.004 .002	.432 .241	.108 .099	.544 .342	^A .034 ^A .035	^A .001 ^A .001	^A .005 ^A .005	^A .040 ^A .041	.584 .384	.264 .263	.574 ^R .605	^R 1.421 ^R 1.252
May June	.002	.163	.099	.265	^A .034	^A .001	^A .005	^ .041	.304	.327	^R .733	R 1.365
July	.003	.130	.099	.203	^A .035	^A .001	^A .005	^A .041	.274	.420	^R .937	^R 1.631
August	.003	.119	.104	.226	A .035	A .001	A .005	A.041	.268	.423	R.913	R 1.603
September	.002	.139	.105	.245	^A .034	^A .001	^A .005	^A .040	.285	.355	^R .700	^R 1.340
October	.003	.240	.119	.362	^A .035	^A .001	^A .005	^A .041	.403	.282	^R .583	^R 1.268
November	.004	.382	.123	.509	^A .034	^A .001	^A .005	^A .040	.549	.267	^R .576	^R 1.392
December	.007	.678	.155	.840	^A .035	A .001	^A .005	^A .041	.882	.325	^R .734	^R 1.941
Total	.047	4.858	1.456	6.361	.414	.008	.064	.486	6.847	3.906	^R 8.457	^R 19.210
2000 January	.006	.883	^R .173	^R 1.062	^A .037	^A .001	^A .005	^A .043	^R 1.105	^R .372	^R .806	^R 2.282
February	.004	.789	^R .163	^R .956	^A .034	^A .001	^A .005	^A .040	^R .996	^R .334	^R .677	2.006
March	.003	.561	^R .138	^R .702	^A .037	^A .001	^A .005	^A .043	^R .745	^R .288	^R .633	_ 1.666
April	.004	.405	R.111	.520	^A .036	A .001	^A .005	^A .041	R.562	R.259	.566	^R 1.387
May	.003	.231	^R .104	^R .338	^A .037	A .001	^A .005	^A .043	^R .380	R .285	^R .650	^R 1.315
June	.003	.158	^R .100	.261 8.220	^A .036	A.001	A.005	^A .041	R.302	.357 8 400	.750	1.409 B 1 5 4 2
July	.003 .003	.131 .125	.094 ^R .105	^R .229 ^R .233	^A .037 ^A .037	^A .001 ^A .001	^A .005 ^A .005	^A .043 ^A .043	.271 ^R .276	^R .409 ^R .425	.863 ^R .892	^R 1.543 ^R 1.592
August September	.003	.125	^R .107	R.253	^A .036	^A .001	^A .005	^A .043	.276	.372	R.707	1.373
October	.003	.143	^R .118	.255	^A .037	^A .001	^A .005	^A .043	.403	R.299	R.600	1.303
November	.005	R.487	^R .123	^R .615	^A .036	^A .001	^A .005	^A .041	R.657	R.288	R.611	^R 1.556
December	.007	^R .927	.156	^R 1.091	^A .037	A .001	A .005	^A .043	^R 1.133	^R .384	.820	^R 2.337
Total	.047	^R 5.081	^R 1.492	^R 6.620	.433	.009	.062	.503	^R 7.124	^R 4.072	^R 8.583	^R 19.778
2001 January	.006	^R 1.010	^R .165	^R 1.180	^A .037	^A .001	^A .005	^A .043	^R 1.223	^R .435	^R .836	^R 2.495
February	R.004	^R .810	.157	^R .972	^A .033	^A .001	^A .005	^A .039	^R 1.010	F.343	F.686	R 2.039
March	F.004	F.729	.153	E.886	^A .037	^A .001	^A .005	^A .043	.929	F.329	F.724	1.982
3-Month Total	^E .014	^E 2.549	.475	E 3.038	A .107	A .002	A .015	^A .124	3.163	E 1.107	E 2.247	6.516
2000 3-Month Total	.014	2.233	.473	2.720	^A .108	^A .002	^A .015	^A .125	2.846	.994	2.115	5.955
1999 3-Month Total	.014	2.233	.473	2.720	^A .108	A .002	^A .015	^A .125 ^A .120	2.846	.994 .981	2.115	5.955

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

b Includes supplemental gaseous fuels.
 c Wood only.
 d Geothermal heat pump and direct use energy.

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

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

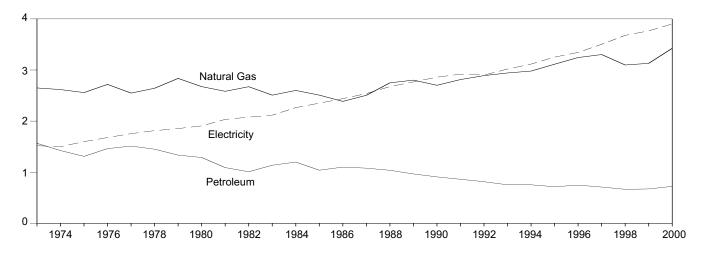
⁹ See Note 12 at end of section. R=Revised. NA=Not available. E=Estimate. F=Forecast. A=Apportioned data: monthly estimates for 1999 and 2000 are created by dividing the annual value by the number of days in the year and then multiplying by the number of days in the month; temporary 2001 monthly estimates are created by dividing the 2000 annual value by the number of days in the proster is the month. value by 365 and multiplying by the number of days in the month.

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

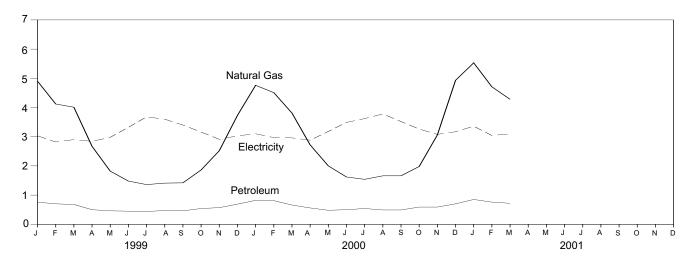
Figure 2.3 Commercial Sector Energy Consumption

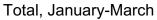
(Quadrillion Btu)

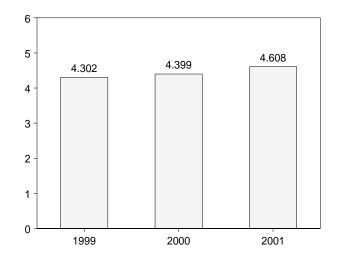
By Major Sources, 1973-2000



By Major Sources, Monthly







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

By Major Sources, March 2001

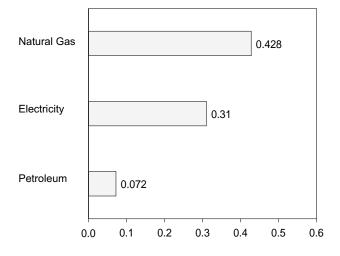


Table 2.3 Commercial Sector Energy Consumption

(Quadrillion Btu)

1973 Total 1974 Total 1975 Total 1976 Total 1977 Total 1978 Total 1978 Total 1980 Total 1981 Total	Coal 0.152 .154 .126 .123 .123 .128 .086 .097 .112 .117	Foss Natural Gas ^b 2.649 2.617 2.558 2.718 2.548 2.643 2.836 2.674 2.674	Il Fuels ^a Petroleum 1.565 1.423 1.310 1.461 1.511 1.450 1.334	Total 4.367 4.194 3.994 4.301 4.182 4.221	Re Wood ^c 0.007 .007 .008 .009	newable Ener Geo- thermal ^d NA NA NA	Total 0.007 .007	Total Primary 4.373 4.201	Electricity ^e 1.517 1.501	Electrical System Energy Losses ^f 3.644 3.672	Total 9.534 9.374
1974 Total 1975 Total 1976 Total 1977 Total 1978 Total 1978 Total 1980 Total 1980 Total	0.152 .154 .126 .122 .123 .128 .112 .086 .097 .112	Gas ^b 2.649 2.617 2.558 2.718 2.548 2.643 2.836 2.674	1.565 1.423 1.310 1.461 1.511 1.450 1.334	4.367 4.194 3.994 4.301 4.182	0.007 .007 .008	thermal ^d NA NA	0.007 .007	Primary 4.373	1.517	Energy Losses ^f 3.644	9.534
1974 Total 1975 Total 1976 Total 1977 Total 1978 Total 1978 Total 1980 Total 1980 Total	.154 .126 .122 .123 .128 .112 .086 .097 .112	2.617 2.558 2.718 2.548 2.643 2.836 2.674	1.423 1.310 1.461 1.511 1.450 1.334	4.194 3.994 4.301 4.182	.007 .008	NA	.007				
1975 Total 1976 Total 1977 Total 1977 Total 1978 Total 1980 Total 1980 Total	.126 .122 .123 .128 .112 .086 .097 .112	2.558 2.718 2.548 2.643 2.836 2.674	1.310 1.461 1.511 1.450 1.334	3.994 4.301 4.182	.008			4.201	1,501	3 672	0 27/
1976 Total 1977 Total 1978 Total 1979 Total 1980 Total 1981 Total	.122 .123 .128 .112 .086 .097 .112	2.718 2.548 2.643 2.836 2.674	1.461 1.511 1.450 1.334	4.301 4.182		NA					
1977 Total 1978 Total 1979 Total 1980 Total 1981 Total	.123 .128 .112 .086 .097 .112	2.548 2.643 2.836 2.674	1.511 1.450 1.334	4.182	.009		.008	4.002	1.598	3.865	9.465
1978 Total 1979 Total 1980 Total 1981 Total	.128 .112 .086 .097 .112	2.643 2.836 2.674	1.450 1.334		010	NA NA	.009	4.310	1.678	4.049	10.038
1979 Total 1980 Total 1981 Total	.112 .086 .097 .112	2.836 2.674	1.334		.010 .012	NA	.010 .012	4.193 4.233	1.754 1.813	4.247 4.443	10.194 10.489
1980 Total 1981 Total	.086 .097 .112	2.674		4.282	.012	NA	.012	4.235	1.854	4.445	10.485
1981 Total	.097 .112		1.288	4.047	.021	NA	.021	4.068	1.906	4.639	10.613
			1.090	3.770	.021	NA	.021	3.791	2.033	4.848	10.672
1982 Total	.117	2.673	1.008	3.794	.022	NA	.022	3.816	2.077	5.014	10.906
1983 Total		2.508	1.136	3.761	.022	NA	.022	3.783	2.116	5.090	10.989
1984 Total	.125	2.600	1.198	3.923	.022	NA	.022	3.945	2.264	5.300	11.510
1985 Total	.106	2.508	1.039	3.652	.024	NA	.024	3.676	2.351	5.522	11.550
1986 Total	.106	2.386	1.099	3.590	.027	NA	.027	3.617	2.439	5.628	11.684
1987 Total	.097	2.505	1.079	3.681	.029	NA	.029	3.710	2.539	5.829	12.078
1988 Total	.101 .088	2.748 2.802	1.037 .966	3.886 3.855	.032 .034	NA .003	.032 .037	3.918 3.892	2.675 2.767	6.047 6.441	12.640 13.099
1989 Total 1990 Total	.088	2.802	.908	3.855	.034	.003	.037	3.892	2.767	6.566	13.168
1991 Total	.093	2.813	.861	3.758	.037	.003	.040	3.800	2.000	6.663	13.382
1992 Total	.085	2.890	.814	3.788	.042	.003	.045	3.834	2.900	6.531	13.264
1993 Total	.086	2.942	.753	3.780	.044	.003	.047	3.828	3.019	6.736	13.583
1994 Total	.083	2.979	.753	3.816	.045	.004	.049	3.865	3.116	6.919	13.899
1995 Total	.081	3.113	.715	3.908	.045	.005	.050	3.958	3.252	7.196	14.406
1996 Total	.083	3.244	.747	4.073	.049	.005	.054	4.127	3.344	7.405	14.876
1997 Total	.087	3.302	.709	4.098	.047	.006	.053	4.150	3.503	7.722	15.375
1998 Total	.066	3.098	.665	3.829	.047	.007	.054	3.883	3.678	7.996	15.556
1999 January	.010	.490	.076	.575	^A .004	A.001	^A .005	.580	.303	.648	1.531
February	.007	.412	.070	.490	^A .004 ^A .004	^A .001 ^A .001	^A .004 ^A .005	.494	.282	.592	1.368 ^R 1.403
March	.004 .006	.401 .267	.068 .050	.472 .324	^A .004	^A .001	^.005 ^A .005	.477 .328	.290 .284	.636	^R 1.231
April May	.008	.182	.046	.324 .231	^A .004	^A .001	^A .005	.320	.204 .298	.619 ^R .684	^R 1.231
June	.004	.148	.045	.198	^A .004	^A .001	^A .005	.202	.332	^R .743	^R 1.276
July	.006	.136	.044	.187	^A .004	^A .001	A .005	.191	.368	R.820	R 1.379
August	.005	.141	.047	.193	^A .004	^A .001	A .005	.198	.360	^R .778	^R 1.336
September	.003	.142	.046	.191	^A .004	^A .001	^A .005	.195	.340	^R .669	^R 1.204
October	.004	.186	.054	.244	^A .004	^A .001	^A .005	.249	.316	^R .653	^R 1.218
November	.006	.252	.057	.315	^A .004	^A .001	^A .005	.320	.291	^R .628	^R 1.239
December	.011	.373	.069	.452	^A .004	^A .001	^A .005	.457	.303	^R .685	^R 1.445
Total	.070	3.130	.672	3.871	.051	.007	.058	3.929	3.766	^R 8.154	^R 15.849
2000 January	.009	^R .476	R.082	^R .568	^A .004	^A .001	^A .005	^R .573	^R .310	^R .671	^R 1.554
February	.007	.451	^R .081	R.539	^A .004	A.001	^A .005	^R .544	^R .297	^R .602	R 1.443
March	.005	.381 ^R .272	^R .066 ^R .056	^R .452 ^R .333	^A .004 ^A .004	^A .001 ^A .001	^A .005 ^A .005	^R .457 ^R .338	^R .296 ^R .288	^R .650 ^R .629	^R 1.403 ^R 1.255
April May	.006 .004	.272	^R .056	R.252	^ .004 ^A .004	A.001 A.001	^.005 ^A .005	^R .338	^R .288	^R .629 ^R .726	^R 1.255
June	.004	.200	^R .050	^R .252	^A .004	^A .001	^A .005	R.221	^R .349	R.732	^R 1.301
July	.004	^R .154	R.054	^R .213	^A .004	^ .001	^A .005	R.218	R.362	R.764	^R 1.345
August	.005	^R .166	^R .049	^R .220	^A .004	^A .001	^A .005	^R .225	^R .378	^R .794	^R 1.397
September	.004	.166	^R .049	^R .219	^A .004	A .001	A.005	^R .224	^R .352	^R .669	^R 1.245
October	.003	^R .198	^R .059	^R .260	^A .004	^A .001	^A .005	^R .265	^R .326	^R .654	^R 1.245
November	.007	R.306	R.059	R.372	^A .004	^A .001	^A .005	R.377	^R .308	R.653	^R 1.337
December	.011	^R .493	^R .070	^R .574	^A .004	^A .001	^A .005	^R .579	.317	^R .678	^R 1.575
Total	.070	^R 3.425	R .723	^R 4.218	.052	.008	.060	^R 4.277	^R 3.901	^R 8.222	^R 16.400
2001 January	^R .008	^R .553	^R .085	^R .646	^A .004	^A .001	^A .005	^R .651	^R .336	^R .646	^R 1.632
February	.007	^R .471	.076	^R .554	^A .004	^A .001	^A .005	^R .559	^{RF} .304	^{RF} .610	^R 1.473
March 3-Month Total	F.006 E. 021	F.428 E 1.452	.072 .233	^E .506 E 1.706	^A .004 ^A .013	^A .001 ^A .002	^A .005 ^A .015	.511 1.721	F.310 E. 950	^F .682 ^E 1.937	1.503 4.608
2000 3-Month Total 1999 3-Month Total	.021 .021	1.308 1.303	.229 .214	1.559 1.537	^A .013 ^A .013	^A .002 ^A .002	^A .015 ^A .014	1.573 1.552	.902 .875	1.923 1.875	4.399 4.302

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

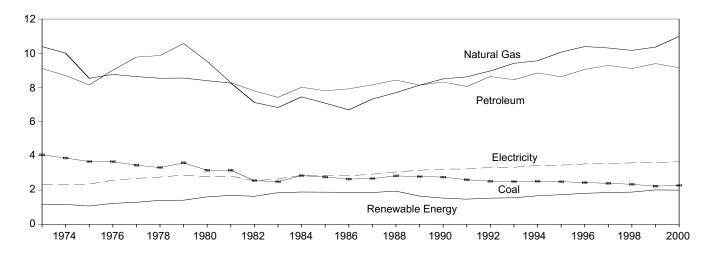
^b Includes support
^c Wood only.
^d Geothermal heat pump and direct use energy.
^e Electric utility retail sales of electricity, including nonutility sales of electricity to
^e Electric utility retail sales of electricity, include nonutility facility use of onsite utilities for distribution to end users;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

R=Revised. NA=Not available. E=Estimate. F=Forecast. A=Apportioned data: monthly estimates for 1999 and 2000 are created by dividing the annual value by the number of days in the year and then multiplying by the number of days in the month; temporary 2001 monthly estimates are created by dividing the 2000 annual value by 365 and multiplying by the number of days in the month. Notes: Totals may not equal sum of components due to independent

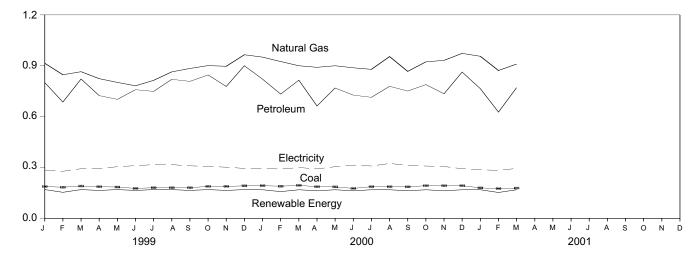
rounding. Geographic coverage is the 50 States and the District of Columbia. Additional Notes and Sources: See end of section.

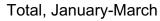
Figure 2.4 Industrial Sector Energy Consumption (Quadrillion Btu)

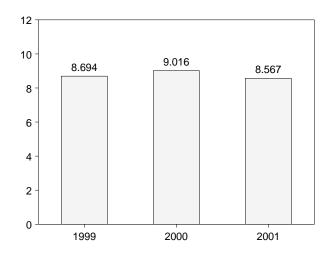
By Major Sources, 1973-2000



By Major Sources, Monthly







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

By Major Sources, March 2001

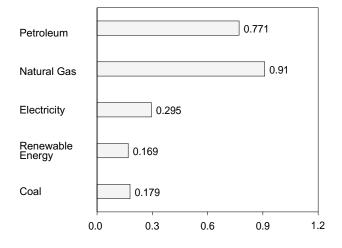


Table 2.4 Industrial Sector Energy Consumption

(Quadrillion Btu)

973 Total 974 Total 975 Total 976 Total 977 Total 978 Total 980 Total 981 Total	Coal 4.057 3.870 3.667 3.661 3.314 3.314 3.593 3.155 3.155 2.552	Coal Coke Net Imports -0.007 .056 .014 (s) .015 .125 .063 035	Fossil Fuel Natural Gas ^b 10.388 10.004 8.532 8.762 8.635	9.104 8.694 8.146 9.010	Total 23.541 22.624	Wood ^c and Waste ^d 1.165	Geo- thermal ^e	rgy Total	Total Primary	Electricity ^f	Electrical System Energy Losses ^g	Total
974 Total 975 Total 976 Total 977 Total 978 Total 979 Total 980 Total	4.057 3.870 3.667 3.661 3.454 3.314 3.593 3.155 3.157	Net Imports -0.007 .056 .014 (s) .015 .125 .063	Gas ^b 10.388 10.004 8.532 8.762 8.635	9.104 8.694 8.146	23.541 22.624	and Waste ^d 1.165	thermal ^e	Total		Electricity ^f	System Energy	Total
974 Total 975 Total 976 Total 977 Total 978 Total 979 Total 980 Total	3.870 3.667 3.454 3.314 3.593 3.155 3.157	.056 .014 (s) .015 .125 .063	10.004 8.532 8.762 8.635	8.694 8.146	22.624		N 1 A	Total 1.165 1.159 1.063 1.220	Primary Electric			
974 Total 975 Total 976 Total 977 Total 978 Total 979 Total 980 Total	3.667 3.661 3.454 3.314 3.593 3.155 3.157	.056 .014 (s) .015 .125 .063	8.532 8.762 8.635	8.694 8.146	22.624		NA	1.165	24.706	2.341	5.625	32.672
975 Total 976 Total 977 Total 978 Total 979 Total 980 Total	3.661 3.454 3.314 3.593 3.155 3.157	(s) .015 .125 .063	8.762 8.635		20.252	1.159	NA		23.783	2.337	5.715	31.83
977 Total 978 Total 979 Total 980 Total	3.454 3.314 3.593 3.155 3.157	.015 .125 .063	8.635	9.010	20.359	1.063	NA	1.063	21.422	2.346	5.676	29.44
978 Total 979 Total 980 Total	3.314 3.593 3.155 3.157	.125 .063			21.432	1.220	NA	1.220	22.652	2.573	6.209	31.43
979 Total 980 Total	3.593 3.155 3.157	.063		9.774	21.879	1.281	NA	1.281	23.160	2.682	6.494	32.33
980 Total	3.155 3.157		8.539	9.867	21.845	1.400	NA	1.400	23.245	2.761	6.764	32.77
	3.157	- 035	8.549	10.568	22.773	1.405	NA	1.405	24.177	2.873	6.949	33.99
981 Total			8.395	9.525	21.040	1.600	NA	1.600	22.640	2.781	6.768	32.18
	2 552	016	8.257	8.285	19.682	1.689	NA	1.689	21.371	2.817	6.717	30.90
982 Total		022	7.121	7.794	17.446	1.634	NA	1.634	19.079	2.542	6.135	27.75
983 Total	2.490	016	6.826	7.420	16.720	1.845	NA	1.845	18.565	2.648	6.368	27.58
984 Total	2.842	011	7.448	8.014	18.292	1.883	NA	1.883	20.175	2.859	6.691	29.72
985 Total	2.760 2.641	013 017	7.080 6.690	7.805 7.920	17.632 17.234	1.875 1.866	NA NA	1.875 1.866	19.507 19.100	2.855 2.834	6.705 6.540	29.06 28.47
986 Total 987 Total	2.641	017	7.323	7.920 8.151	17.234	1.858	NA	1.858	20.013	2.834	6.540 6.723	28.47
988 Total	2.828	.009	7.696	8.430	18.993	1.030	NA	1.933	20.013	3.059	6.915	30.89
989 Total	2.787	.030	8.131	8.133	19.081	1.644	.002	1.646	20.320	3.158	7.353	31.23
990 Total	2.756	.005	8.502	8.320	19.583	1.525	.002	1.527	21.111	3.226	7.406	31.74
991 Total	2.601	.010	8.619	8.057	19.287	1.465	.002	1.467	20.754	3.230	7.375	31.35
992 Total	2.515	.035	8.967	8.638	20.154	1.523	.002	1.525	21.679	3.319	7.473	32.47
993 Total	2.496	.027	9.410	8.449	20.382	1.543	.002	1.546	21.928	3.334	7.440	32.70
994 Total	2.510	.058	9.560	8.849	20.977	1.661	.003	1.663	22.640	3.439	7.638	33.71
995 Total	2.488	.061	10.064	8.621	21.234	1.725	.003	1.727	22.962	3.455	7.646	34.06
996 Total	2.434	.023	10.393	9.058	21.909	1.804	.003	1.807	23.716	3.527	7.810	35.05
997 Total	2.395	.046	10.307	9.288	22.036	1.851	.003	1.854	23.890	3.542	7.809	35.24
998 Total	2.335	.067	10.168	9.104	21.675	1.876	.003	1.879	23.554	3.587	7.797	34.93
999 January	.188	.005	.915	.801	1.910	^A .170	^A (s)	^A .170	2.080	.284	.607	2.97
February	.184	.002	.847	.686	1.719	^A .154	^A (s)	^A .154	1.873	.278	^R .583	^R 2.73
March	.191	.007	.865	.822	1.885	^A .170	^A (s)	^A .170	2.055	.293	.641	2.98
April	.187	.009	.824	.724	1.744	^A .165	A (s)	^A .165	1.909	.293	^R .637	2.84
May	.185	.003	.802	.702	1.692	^A .170	A (s)	^A .170	1.863	.305	^R .702	R 2.87
June	.177	.002	.782	.759	1.720	^A .165	A (s)	^A .165	1.885	.311	^R .697	R 2.89
July	.181	.003	.814	.749	1.747	^A .170	A (s)	A.170	1.918	.317	R.707	R 2.94
August	.181 .181	.006 .002	.864 .884	.820 .808	1.871 1.875	^A .170 ^A .165	^A (s) ^A (s)	^A .170 ^A .165	2.041 2.040	.317 .310	^R .684 ^R .610	^R 3.04 ^R 2.96
September	.189	.002	.884	.846	1.940	^A .170	^A (s)	^A .170	2.040	.307	^R .634	R 3.05
November	.189	.004	.897	.778	1.873	^.165	^(S) ^A (S)	^A .165	2.038	.307	^R .651	R 2.99
December	.192	.005	.965	.900	2.063	^A .170	^A (s)	^A .170	2.233	.295	^R .666	R 3.19
Total	2.227	.058	10.360	9.395	22.039	2.003	.004	2.007	24.046	3.611	^R 7.817	^R 35.47
000 January	.193	.004	.951	^R .821	^R 1.969	^A .168	^A (s)	^A .169	^R 2.138	.295	^R .640	^R 3.07
February	.190	.007	.925	^R .733	^R 1.856	^A .158	A (s)	^A .158	^R 2.014	^R .291	^R .591	R 2.89
March	.195	.006	^R .900	^R .815	^R 1.917	^A .168	A (S)	^A .169	^R 2.086	^R .300	^R .661	^R 3.04
April	.187	.006	.891	R.663	^R 1.747	^A .163	^A (s)	^A .163	^R 1.911	.292	.639	R 2.84
May	.186	.008	.900	^R .769	1.863	^A .168	^A (s)	^A .169	2.032	.305	^R .698	R 3.03
June	.177	.004	R.888	R.727	^R 1.796	^A .163	A (s)	^A .163	^R 1.960	^R .314	^R .659	R 2.93
July	.187	.006	^R .879	^R .714	^R 1.785	^A .168	A (s)	^A .169	^R 1.954	^R .309	.652	R 2.91
August	.187	.008	^R .954	R.779	^R 1.928	^A .168	A (s)	^A .169	R 2.096	.324 B 242	.681 8 505	R 3.10
September	.186	.007	.867 8 022	^R .751 ^R .789	^R 1.811 ^R 1.911	^A .163 ^A .168	A (s)	^A .163	^R 1.974 ^R 2.079	^R .313	^R .595 ^R .620	2.88 R 3.00
October	.193 .193	.006 .004	^R .923 ^R .932	^R .789	^R 1.864	^A .168 ^A .163	^A (s) ^A (s)	^A .169 ^A .163	R 2.079	^R .309 ^R .306	R.649	R 2.98
November December	.193	.004 (s)	^R .932	^R .863	^R 2.029	^A .163	^A (s)	^A .163	^R 2.198	.293	^R .626	R 3.11
Total	2.268	.065	^R 10.984	^R 9.159	R 22.476	1.988	.004	1.993	^R 24.469	R 3.654	R 7.701	R 35.82
01 January	^R .180	.003	^R .956	^R .765	^R 1.904	^A .169	A (S)	^A .169	^R 2.073	^R .287	^R .552	^R 2.91
February	^R .176	.002	^R .872	^R .627	^R 1.677	^A .153	^A (s)	^A .153	^R 1.830	^{RF} .283	^{RF} .566	^R 2.67
March	F.179	.003	F.910	.771	^E 1.863	^A .169	A (S)	^A .169	2.032	F.295	F.649	2.97
3-Month Total	€.535	.008	E 2.738	2.162	E 5.443	^A .490	^ (s)	^A .491	5.935	€.865	E 1.767	8.56
000 3-Month Total 999 3-Month Total	.579 .564	.017 .015	2.777 2.627	2.369 2.309	5.743 5.514	^A .494 ^A .494	^A (s) ^A (s)	^A .495 ^A .495	6.238 6.008	.887 .854	1.891 1.831	9.01 8.69

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

^c Wood, wood waste, black liquor, red liquor, spent sulfite liquor, wood sludge,

Wood, wood waste, black liquor, red liquor, spent stinte liquor, wood studge, peat, railroad ties, and utility poles.
 ^d Municipal solid waste, landfill gas, methane, digester gas, liquid acetonitrile waste, tall oil, waste alcohol, medical waste, paper pellets, sludge waste, solid byproducts, tires, agricultural byproducts, closed loop biomass, fish oil, and straw.

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

9 See Note 12 at end of section. R=Revised. NA=Not available. E=Estimate. F=Forecast. (s)=Less than 0.5 trillion Btu. A=Apportioned data: monthly estimates for 1999 and 2000 are created by dividing the annual value by the number of days in the year and then multiplying by the number of days in the month; temporary 2001 monthly estimates are created by dividing the 2000 annual value by 365 and multiplying by the number of days in the month.

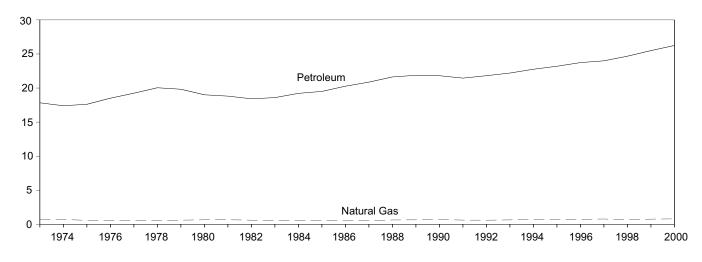
Totals may not equal sum of components due to independent Geographic coverage is the 50 States and the District of Columbia. Notes: rounding.

Additional Notes and Sources: See end of section.

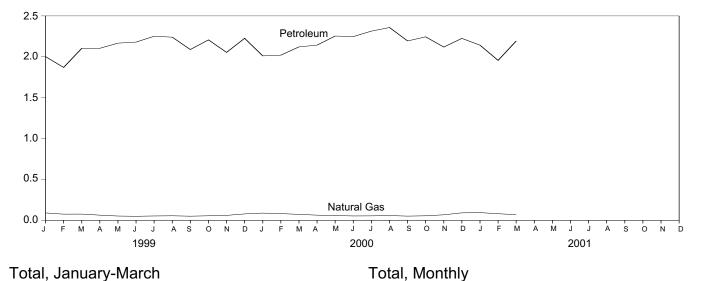
Transportation Sector Energy Consumption Figure 2.5

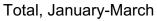
(Quadrillion Btu)

By Major Sources, 1973-2000



By Major Sources, Monthly





2.6 8 6.548 2.4 6.408 6.23 6 2.2 2.0 4 1.8 2001 2 1.6 2000 1999 0.0 0 .1 м s 0 Ν Α м .1 .1 1999 2000 2001

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

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Table 2.5 Transportation Sector Energy Consumption

(Quadrillion Btu)

			Primary Co	onsumption					
_		Fossil	Fuels ^a		Renewable Energy			Electrical System	
	Coal	Natural Gas ^b	Petroleum	Total	Alcohol Fuels ^c	Total Primary ^c	Electricityd	Energy Losses ^e	Total ^c
073 Total	0.003	0.743	17.831	18.576	NA	18.576	0.011	0.025	18.612
74 Total	.002	.685	17.399	18.086	NA	18.086	.010	.024	18.119
75 Total	.001	.595	17.614	18.209	NA	18.209	.010	.025	18.244
76 Total	(s)	.559	18.506	19.065	NA	19.065	.010	.024	19.099
77 Total	(s)	.543	19.241	19.784	NA	19.784	.010	.025	19.820
78 Total	(Ť)	.539	20.041	20.580	NA	20.580	.010	.025	20.615
79 Total	(f)	.612	19.825	20.436	NA	20.436	.010	.024	20.471
30 Total	(f)	.650	19.008	19.658	NA	19.658	.011	.027	19.696
81 Total	(†)	.658	18.811	19.469	.007	19.469	.011	.026	19.506
82 Total	(f)	.612	18.420	19.032	.019	19.032	.011	.027	19.070
83 Total	(f)	.505	18.593	19.098	.035	19.098	.013	.030	19.141
84 Total	(^f)	.545	19.216	19.761	.043	19.761	.014	.033	19.809
35 Total	(f)	.519	19.504	20.023	.052	20.023	.014	.033	20.071
36 Total	(f)	.499	20.269	20.768	.060	20.768	.015	.035	20.818
7 Total	(f)	.535	20.870	21.405	.069	21.405	.016	.036	21.456
38 Total	(f)	.632	21.629	22.261	.070	22.261	.016	.036	22.313
9 Total	(^f)	.649	21.868	22.517	.071	22.517	.016	.038	22.571
0 Total	(f)	.680	21.808	22.488	.063	22.488	.016	.037	22.541
01 Total	(^f)	.620	21.456	22.077	.073	22.077	.016	.037	22.130
92 Total	(f)	.606	21.812	22.419	.083	22.419	.016	.036	22.471
3 Total	(f)	.643	22.201	22.844	.097	22.844	.016	.036	22.896
94 Total	(f)	.707	22.760	23.467	.109	23.467	.017	.038	23.522
95 Total	(f)	.722	23.199	23.921	.117	23.921	.017	.038	23.975
6 Total	(f)	.734	23.735	24.469	.084	24.469	.017	.037	24.523
97 Total	(f)	.776	23.993	24.770	.106	24.770	.017	.037	24.823
98 Total	(†)	.662	24.675	25.336	.117	25.336	.017	.037	25.390
99 January	(^f)	.090	2.002	2.092	.011	2.092	.001	.003	2.096
February	(f)	.075	1.870	1.946	.009	1.946	.001	.003	1.950
March	(f)	.076	2.103	2.180	.010	2.180	.001	.003	2.184
April	(f)	.063	2.104	2.167	.009	2.167	.001	.003	2.171
May	(f)	.052	2.167	2.219	.009	2.219	.001	.003	2.223
June	(f)	.049	2.180	2.230	.010	2.230	.001	.003	2.234
July	(f)	.053	2.251	2.304	.008	2.304	.002	.004	2.309
August	(†)	.055	2.240	2.295	.010	2.295	.002	.003	2.300
September	(f)	.050	2.089	2.139	.010	2.139	.002	.003	2.144
October	(f)	.055	2.207	2.262	.012	2.262	.002	.003	2.267
November	(†í)	.060	2.054	2.114	.012	2.114	.001	.003	2.118
December	(f)	.078	2.226	2.304	.014	2.304	.001	.003	2.309
Total	(^f)	.762	25.494	26.256	.122	26.256	.017	.038	26.31 ⁻
0 January	(^f)	.088	^R 2.011	^R 2.099	.012	^R 2.099	.001	.003	^R 2.104
February	(† í	.082	R 2.020	^R 2.102	.009	R 2.102	.001	.003	R 2.10
March	(†)	.072	^R 2.121	^R 2.193	.012	^R 2.193	.001	.003	R 2.198
April	(†í)	.063	^R 2.143	^R 2.205	.010	R 2.205	.001	.003	R 2.210
May	(†í)	.058	^R 2.254	^R 2.312	.012	R 2.312	.001	.003	R 2.317
June	(†)	.053	^R 2.247	^R 2.301	.007	^R 2.301	.002	.003	R 2.305
July	(†)	.054	^R 2.314	^R 2.368	.013	^R 2.368	.002	.003	R 2.373
August	(†)	.058	^R 2.358	^R 2.417	.012	^R 2.417	.002	.003	R 2.422
September	(f)	.051	^R 2.194	^R 2.245	.011	^R 2.245	.002	.003	^R 2.250
October	(f)	.055	^R 2.244	^R 2.299	.013	^R 2.299	.002	.003	^R 2.304
November	(f)	^R .067	^R 2.119	^R 2.186	.013	^R 2.186	.001	.003	^R 2.190
December	$\begin{pmatrix} \dagger \\ \cdot \end{pmatrix}$	R.091	^R 2.225	^R 2.316	.014	^R 2.316	.001	.003	^R 2.321
Total	(f) (f) (f) (f)	^R .793	^R 26.251	^R 27.044	.139	^R 27.044	.018	.038	^R 27.100
1 January	(f) (f)	^R .094	^R 2.142	^R 2.236	.015	^R 2.236	^R .001	.003	^R 2.241
February	(†)	^R .080	^R 1.956	^R 2.036	.012	^R 2.036	F.001	F.003	^R 2.041
March	(†)	F.069	2.193	E 2.262	.012	2.262	F.001	F.003	2.267
3-Month Total	(f) (f)	€.243	6.291	€ 6.535	.039	6.535	Ĕ.004	€.009	6.548
0 3-Month Total	(f) (f)	.242	6.153	6.395	.033	6.395	.004	.009	6.408
	1.1		5.976		.029	6.217	.004	.009	

^a Most nonutility use of fossil fuels to produce electricity is included in the end-use sectors. See Note 2 at end of section.
 ^b Natural gas consumed in the operation of pipelines (primarily in compressors)

and small amounts consumed as vehicle fuel. See Table 4.4. ^c Alcohol (ethanol blended into motor gasoline) is included in both "Petroleum" and "Alcohol Fuels," but is counted only once in both total primary consumption and ^d Electric utility retail sales of electricity, including nonutility sales of electricity to

utilities for distribution to end users; does not include nonutility facility use of onsite

electricity generation or electricity sold by nonutilities directly to end users. ^e See Note 12 at end of Section. ^f Since 1978, the small amounts of coal consumed for transportation are

reported as industrial sector consumption.

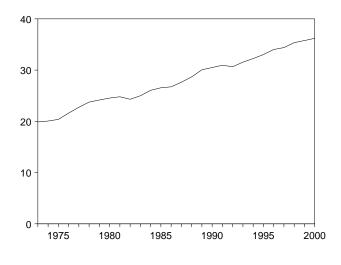
R=Revised. NA=Not available. E=Estimate. F=Forecast. (s)=Less than 0.5 trillion Btu.

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

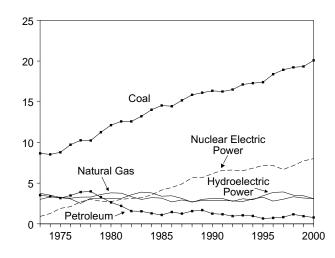
Figure 2.6 Electric Power Sector Energy Consumption

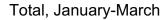
(Quadrillion Btu)

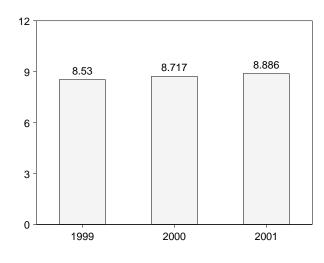
Total, 1973-2000



By Major Sources, 1973-2000

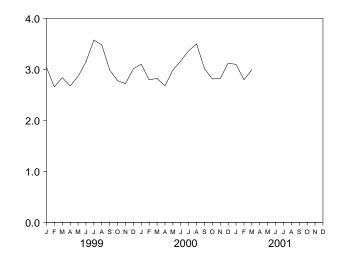




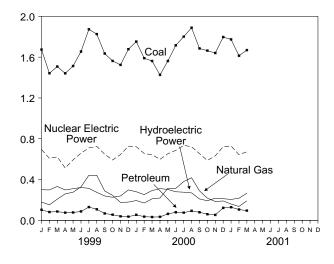


Note: Because vertical scales differ, graphs should not be compared. Source: Table 2.6.

Total, Monthly



By Major Sources, Monthly



By Major Sources, March 2001

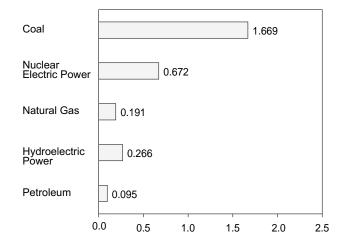


Table 2.6 Electric Power Sector Energy Consumption

(Quadrillion Btu)

						Primar	y Consum	ption					
		F	ossil Fuels ^a		I		Hydro-		Renewa	ble Energy			
	Coal	Natural Gas ^b	Petroleum	Other ^c	Total	Nuclear Electric Power	electric Pumped Storage ^d	Conventional Hydroelectric Power ^e	Wood ^f and Waste ^g	Geo- thermal ^h	Solar ⁱ and Wind ^j	Total	Total Primary
1973 Total	8.658	3.748	3.515	(^k)	15.921	0.910	(<mark>k</mark>)	3.010	0.003	0.043	NA	3.056	19.887
1974 Total	8.534	3.519	3.365	(k)	15.418	1.272	$\binom{k}{k}$	3.309	.003	.053	NA	3.365	20.055
1975 Total		3.240	3.166	(k) (k)	15.191	1.900	(^) (k)	3.219	.002 .003	.070	NA	3.291	20.382
1976 Total 1977 Total		3.152 3.284	3.477 3.901	$\binom{n}{k}$	16.349 17.446	2.111 2.702	$\binom{n}{k}$	3.066 2.515	.003	.078 .077	NA NA	3.146 2.597	21.607 22.746
1978 Total		3.297	3.987	(k)	17.522	3.024	(k)	3.141	.003	.064	NA	3.209	23.755
1979 Total		3.613	3.283	(k)	18.156	2.776	(k)	3.141	.005	.084	NA	3.230	24.162
1980 Total		3.810	2.634	(^k)	18.567	2.739	(^k)	3.118	.005	.110	NA	3.232	24.538
1981 Total		3.768	2.202	(<u>k</u>)	18.553	3.008	(^k)	3.105	.004	.123	NA	3.232	24.793
1982 Total		3.342	1.568	(k) (k)	17.491	3.131	(k) (k)	3.572	.003	.105	NA	3.680	24.303
1983 Total		2.998	1.544	(^) (k)	17.754	3.203	(^) (k)	3.899	.004	.129	(s)	4.032	24.989
1984 Total 1985 Total		3.220 3.160	1.286 1.090	(*) (*)	18.526 18.792	3.553 4.149	$\binom{k}{k}$	3.800 3.398	.009 .014	.165 .198	(s) (s)	3.974 3.611	26.053 26.552
1986 Total		2.691	1.452	(k)	18.586	4.471	(k)	3.446	.014	.219	(s)	3.678	26.735
1987 Total		2.935	1.257	i k i	19.365	4.906	(k)	3.117	.012	.229	(s)	3.362	27.633
1988 Total		2.709	1.563	(k)	20.123	5.661	(k)	2.662	.017	.217	(s)	2.897	28.681
1989 Total		2.871	1.685	050	20.615	5.677	(`k´)	3.014	.393	.325	.030	3.763	30.055
1990 Total		2.882	1.250	080	20.395	6.162	036	3.146	.453	.344	.038	3.982	30.502
1991 Total		2.856	1.178	.059	20.349	6.580	047	3.159	.510	.352	.039	4.061	30.943
1992 Total 1993 Total		2.826 2.741	.951 1.052	.053 .050	20.325 20.968	6.608 6.520	043 042	2.818 3.119	.552 .570	.362 .374	.037 .040	3.769 4.104	30.660 31.550
1993 Total		3.053	.968	.140	20.900	6.838	042	2.993	.570	.374	.040	4.002	32.249
1995 Total		3.276	.658	.121	21.458	7.177	028	3.481	.584	.319	.041	4.426	33.033
1996 Total		2.798	.725	.109	22.016	7.168	032	3.892	.594	.331	.044	4.861	34.013
1997 Total	18.924	3.025	.822	.109	22.880	6.678	042	3.961	.568	.306	.042	4.877	34.393
1998 Total	^E 19.227	3.330	1.166	.048	23.771	7.157	046	3.569	.549	.310	.040	4.468	35.350
1999 January		.180	.103	(s)	1.957	.695	006	E.306	.060	E.024	.002	^R .391	^R 3.037
February		.152	.081	.001	1.675	.608	004	E.302	.051	E.021 E.023	.003	^R .376 ^R .417	R 2.656
March		.208 .259	.086 .075	(s) .008	1.802 1.783	.622 .513	004 005	^E .336 ^E .302	.054 .055	E.023	.003 .005	^R .384	^R 2.837 ^R 2.675
April May	E	.259	.075	.008	1.763	.513	005	E.317	.055	E.022	.005	R.403	R 2.862
June		.328	.087	.008	2.078	.659	006	E.328	.054	E.027	.007	^R .417	^R 3.148
July		.442	.130	.009	2.455	.710	006	E.320	.059	E.030	.007	^R .416	^R 3.574
August	^E 1.826	.441	.108	.010	2.385	.725	008	^E .282	.058	^E .031	.007	^R .377	^R 3.480
September		.288	.067	.015	2.005	.648	^R 004	E.243	.062	E.029	.005	R.339	^R 2.989
October		.245	.055	.011	1.874	.591	005	E.231	.053	E.030	.004	^R .319	^R 2.778
November		.176	.039	.012	1.751	.645	005	^E .244 ^E .302	.053	E.028	.003	R.327	R 2.719
December Total		.179 3.173	.036 .943	.009 .092	1.902 23.540	.727 7.736	004 ^R 063	= .302 3.512	.055 .669	^E .028 ^R .316	.003 .055	^R .388 ^R 4.553	^R 3.012 ^R 35.766
2000 January	^{RE} 1.753	^R .194	.054	.010	^R 2.011	^R .722	005	^{RE} .285	.056	.025	.004	^R .371	^R 3.099
February	^{RE} 1.590	.170	R.036	.012	^R 1.808	.655	^R 004	^{RE} .256	.054	.023	.004	^R .337	^R 2.796
March	^{RE} 1.562	211	.032	.008	^R 1.814	.643	006	^{RE} .297	.056	.022	.005	^R .381	^R 2.832
April		^R .219	.034	.007	^R 1.686	.598	004	RE .315	.054	.023	.006	^R .398	^R 2.678
May		R.315	.063	.009	R 1.948	.653	005	RE .308	R.054	.024	.006	^R .391	R 2.987
June		^R .313 ^R .380	.079 .075	.008 .010	^R 2.116 ^R 2.266	.686 735	006	^{RE} .285 ^{RE} .279	.054 .058	.024 .026	.005 .005	^R .369 ^R .368	^R 3.166 ^R 3.366
July August	55	^R .418	.075	.010	^R 2.200	.735 .722	003 004	RE .279	.058	.026	.005	^R .368	^R 3.366
September		R.289	R.079	.021	R 2.065	.654	^R 007	RE .217	.054	.025	.005	R.301	R 3.013
October	^{RE} 1.664	R.218	.060	.004	^R 1.946	.587	004	^{RE} .196	R.057	.026	.005	^R .284	^R 2.812
November	^{RE} 1.640	^R .184	.053	.007	^R 1.884	.633	004	^{RE} .221	^R .055	.026	.005	^R .306	^R 2.820
December Total	^ĸ ⊧ 1.797	.190 R 3.101 ^R	^R .122 ^R . 779	006 .102	^R 2.103 ^R 24.067	.721 8.009	^R 005 ^R 057	^{RE} .217 ^R 3.149	.055 R .663	.027 .298	.004 .060	^R .304 ^R 4.170	^R 3.123 ^R 36.189
2001 January	_	^R .160	^R .129	.003	^R 2.065	^R .729	^R 004	^{RE} .210	.065	^R .028	R.004	^R .306	^R 3.096
February		^{RF} .136	^{RF} .106	F003	^{RF} 1.850	F.644	F004	E.223	.065 F.057	E.028	F.004	F.308	^R 2.796
March		F.191	F.095	F.009	^F 1.964	F.672	F007	E.273	F.063	E.023	F.005	F.364	2.993
3-Month Total		E.487	E.330	E.006	E 5.878	E 2.046	^E 017	€.705	E.186	E.074	E.013	E.979	8.886
2000 3-Month Total		.575	.122	.031	5.633	2.020	015	E.838	.166	.070	.014	1.089	8.727
1999 3-Month Total	^E 4.624	.540	.269	.001	5.434	1.925	013	^E .944	.165	.067	.008	1.184	8.530

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

^c Electricity net imports from fossil fuels; may include some nuclear-generated

electricity.
 ^d Pumped storage facility production minus energy used for pumping.
 ^e Conventional hydroelectric net generation. Through 1988, also includes all electricity net imports; from 1989, includes only the portion of electricity net imports.

derived from hydroelectric power.
 ^f Wood, wood waste, black liquor, red liquor, spent sulfite liquor, wood sludge, peat, railroad ties, and utility poles.
 ^g Municipal solid waste, landfill gas, methane, digester gas, liquid acetonitrile

waste, tall oil, waste alcohol, medical waste, paper pellets, sludge waste, solid byproducts, tires, agricultural byproducts, closed loop biomass, fish oil, and straw. ^h Geothermal electricity net generation. From 1989, also includes electricity imports derived from geothermal energy.

Solar thermal and photovoltaic electricity net generation.

Wind electricity net generation.

 k Included in conventional hydroelectric power.
 R=Revised. NA=Not available. E=Estimate. F=Forecast. (s)=Less than 0.5 trillion Btu.

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

Energy Consumption by Sector Notes and Sources

Most of the data in this section of the *Monthly Energy Review* (*MER*) are developed from a group of energyrelated 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.

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

1. Energy Consumption:

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

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

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

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

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

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

Commercial Sector—An energy-consuming sector that consists of service-providing facilities and equipment of: businesses; Federal, State, and local governments; and other private and public organizations, such as religious, social, or fraternal groups. The commercial sector includes institutional living quarters. Common uses of energy associated with this sector include space heating, water heating, air conditioning, lighting, refrigeration, cooking, and running a wide variety of other equipment.

Industrial Sector—An energy-consuming sector that consists of all facilities and equipment used for producing, processing, or assembling goods. The industrial sector encompasses the following types of activity: manufacturing; agriculture, forestry, and fisheries; mining; and construction. Overall energy use in this sector is largely for process heat and cooling and powering machinery, with lesser amounts used for facility heating, air conditioning, and lighting. Fossil fuels are also used as raw material inputs to manufactured products.

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

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

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

3. Conversion Factors: See Appendix A.

4. Coal: See Tables 6.2 and A5.

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

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

Note: Coal coke net imports are included in the industrial sector.

Sources:

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

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

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

1982 forward: Quarterly Coal Report.

6. Natural Gas: See Tables 4.4 and A4.

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

For Section 2 calculations, lease and plant fuel consumption are included in the industrial sector, and pipeline fuel use of natural gas is included in the transportation sector.

Residential and commercial monthly sales data for 1973-1979, which are used to estimate monthly consumption values from EIA annual consumption values, are from the American Gas Association, "Monthly Gas Utility Statistical Report." 7. **Petroleum:** Petroleum consumption in this section of the *Monthly Energy Review (MER)* is the series called "petroleum product supplied" from Section 3.

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

The sources for petroleum product supplied by product are: 1973-1975: DOI, BOM, *Mineral Industry Surveys*, "Petroleum Statement, Annual." 1976-1980: EIA, *Energy Data Reports*, "Petroleum Statement, Annual." 1981-2000: EIA, *Petroleum Supply Annual*. 2001 forward: EIA, *Petroleum Supply Monthly*.

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

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

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

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

Distillate Fuel Used by Electric Utilities, All Time Periods—For 1973-1979, consumption of distillate fuel is assumed to be the amount of petroleum (minus small amounts of kerosene and kerosene-type jet fuel deliveries) consumed in gas turbine and internal combustion plants. For 1980 forward, consumption of distillate fuel is assumed to be the amount of light oil (minus small amounts of kerosene deliveries through 1982) consumed at electric utilities. Source: Table 7.7.

Distillate Fuel Used by Sectors Other Than Electric Utilities, Annually Through 1997—The aggregate nonutility use of distillate fuel is total distillate fuel supplied minus the electric utility consumption. The nonutility annual consumption totals are allocated to the individual nonutility sectors (residential, commercial, industrial, and transportation) in proportion to the share of "adjusted sales" of each end-use sector, as reported in EIA's *Fuel Oil and Kerosene Sales* report series (DOE/EIA-0535), which is based primarily on data collected by Form EIA-821, previously Form EIA-172. "Adjusted sales" are sales that have been adjusted at the PAD district level to equal EIA volume estimates of petroleum products supplied in the U.S. market. Following are notes on the individual sector groupings:

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

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

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

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

Distillate Fuel Used by Sectors Other Than Electric Utilities, Monthly Through 1997—Residential and commercial monthly consumption is estimated by allocating the annual estimates, which are described above, into the months in proportion to each month's share of the year's sales of No. 2 heating oil. The years' sales totals are from the following sources: for 1973-1980, the Ethyl Corporation, *Monthly Report of Heating Oil Sales;* for 1981 and 1982, the American Petroleum Institute, *Monthly Report of Heating Oil Sales;* and for 1983-1997, EIA, Form EIA-782A, "Refiners'/Gas Plant Operators' Monthly Petroleum Product Sales Report," No. 2 Fuel Oil Sales to End Users and for Resale.

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

Industrial monthly estimates are made by subtracting the residential and commercial, transportation, and electric utility sector estimates from each month's total distillate fuel consumption.

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

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

Kerosene—Kerosene use is allocated to the sectors in proportion to annual sales grouped into sectors from EIA's *Fuel Oil and Kerosene Sales* reports (based primarily on data collected by Form EIA-821, previously Form EIA-172).

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

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

Industrial sales are directly from the *Sales* reports for 1979-1997. Sales for 1997 are used as estimates for succeeding periods. Prior to 1979, each year's sales category called "heating" is split into residential, commercial and industrial in proportion to the 1979 shares, and this estimated industrial (including farm) portion is added to all other uses.

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

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

The quantity of LPG sold each year for consumption in internal combustion engines is allocated between the transportation and industrial sectors on the basis of data for special fuels used on highways published by the U.S. Department of Transportation, Federal Highway Administration, in *Highway Statistics*. The allocations of LPG sold for internal combustion engine use to the transportation sector range from a low of 36 percent (in 1996) to a high of 73 percent (in 1994).

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

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

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

1983: End-use consumption estimates for 1983 are based on 1982 end-use consumption because the collection of data under Form EIA-174 was discontinued after data year 1982.

1984-1996: American Petroleum Institute (API), "Sales of Natural Gas Liquids and Liquefied Refinery Gases," which is based on an LPG sales survey jointly sponsored by API, the Gas Processors Association, and the National Liquefied Petroleum Gas Association.

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

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

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

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

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

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

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

Residual Fuel Used by Electric Utilities, All Time Periods—For 1973-1979, consumption of residual fuel is assumed to be the amount of petroleum consumed in steam-electric power plants. For 1980 forward, consumption of residual fuel is assumed to be the amount of heavy oil consumed at electric utilities. Source: Table 7.7.

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

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

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

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

Residual Fuel Used by Sectors Other Than Electric Utilities, Monthly Through 1997—Commercial monthly consumption is estimated by allocating the annual estimates, which are described above, into the months in proportion to each month's share of the year's sales of No. 2 heating oil. The years' sales totals are from the following sources: for 1973-1980, the Ethyl Corporation, *Monthly Report of Heating Oil Sales*; for 1981 and 1982, the American Petroleum Institute, *Monthly Report of Heating Oil Sales*; and for 1983-1996, EIA, Form EIA-782A, "Refiners'/Gas Plant Operators' Monthly Petroleum Product Sales Report," No. 2 Fuel Oil Sales to End Users and for Resale.

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

Industrial monthly estimates are made by subtracting the commercial, transportation, and electric utility sector estimates from each month's total residual fuel supplied.

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

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

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

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

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

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

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

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

Note: End-use consumption of wood, waste, alcohol fuels, geothermal heat pump and direct use energy, and solar thermal direct use and photovoltaic energy is included in the end-use sectors. Included in the electric power sector are: electric utility and nonutility net electricity generation from conventional hydroelectric power, wood, waste, geothermal, solar, and wind; and net imports of electricity from hydroelectric power and geothermal energy.

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

to end users). "Other," which is primarily for use in government buildings, is added to the commercial sector, except for approximately 5 percent used by railroads and railways and attributed to the transportation sector. Kilowatthours are converted to Btu at the rate of 3,412 Btu per kilowatthour.

12. Electrical System Energy Losses: Electrical system energy losses are calculated as the difference between total primary consumption by the electric power sector-see Table 2.6-and the total energy content of electric utility retail sales of electricity (which include nonutility sales of electricity to utilities for distribution to end users, but do not include nonutility facility use of onsite electricity generation or electricity sold by nonutilities directly to end users)--see Tables 7.5 and A6. Most of these losses occur at steam-electric power plants (conventional and nuclear) in the conversion of heat energy into mechanical energy to turn electric generators. The loss is a thermodynamically necessary feature of the steam-electric cycle. Part of the energy input-to-output losses is a result of imputing fossil energy equivalent inputs for hydroelectric and other energy sources, since there is no generally accepted practice for measuring those thermal conversion rates. In addition to conversion losses, other losses include power plant use of electricity, transmission and distribution of electricity from power plants to end-use consumers (also called "line losses"), and unaccounted for electricity. Total losses are allocated to the end-use sectors in proportion to each sector's share of total electricity sales. Overall, approximately 67 percent of total energy input is lost in conversion; of electricity generated, approximately 5 percent is lost in plant use and 9 percent is lost in transmission and distribution. Calculated electrical system energy losses may be less than actual losses, because primary consumption does not include the energy equivalent of utility purchases of electricity from non-electric utilities and from Canada and Mexico, although they are included in electricity sales.

Section 3. Petroleum

Total petroleum imports¹ averaged 11.8 million barrels per day in May 2001, 4 percent lower than the previous month's rate but 3 percent higher than the May 2000 rate.

In May 2001, 19.1 million barrels per day of petroleum products were supplied for domestic use, 3 percent lower than the May 2000 rate. Motor gasoline accounted for 45 percent of the total; distillate fuel oil, 19 percent; and kerosene-type jet fuel, 9 percent.

Motor gasoline supplied during May 2001 averaged 8.6 million barrels per day, slightly higher than the previous month's rate but 1 percent lower than the May 2000 rate. Total motor gasoline stocks were 210 million barrels at the end of May 2001, 9 million barrels

above the stock level in the previous month and 2 million barrels above the level 1 year earlier.

Distillate fuel oil supplied during May 2001 averaged 3.5 million barrels per day, 7 percent lower than the previous month's rate and 4 percent lower than the May 2000 rate. Distillate fuel oil ending stocks for May 2001 were 108 million barrels, 3 million barrels above the stock level in both the previous month and the level 1 year earlier.

Kerosene-type jet fuel supplied in May 2001 averaged 1.7 million barrels per day, 6 percent higher than the previous month's rate and 5 percent higher than the May 2000 rate. Kerosene-type jet fuel stocks measured 42 million barrels at the end of May 2001, 1 million barrels above the stock level in the previous month but the same as the level 1 year earlier.

Estimates (except of crude production) for the most current month are based on Energy Information Administration (EIA) weekly data and will be revised to conform with data from the EIA Petroleum Reporting System as available. For the most recent month, crude production is an EIA estimate based on historical and provisional data through February 2001.

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

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

		Field Production	1	Stock C	nange-		Stocksb
	Total Domestic ^c	Crude Oil	Natural Gas Plant Liquids	Crude Oil ^d	Petroleum Products	Petroleum Products Supplied	Crude Oil ^d and Petroleum Products
		I	Thousand Ba	rrels per Day			Million Barrels
070 Augusta	40.075	0.000	4 700		4.46	47.000	4 000
973 Average 974 Average	10,975 10,498	9,208 8,774	1,738 1,688	-11 62	146 117	17,308 16,653	1,008 ^e 1,074
	10,045	8,375	1,633	e17	^e 15	16,322	1,133
975 Average			^f 1.604	39	-96		,
976 Average	9,774	8,132				17,461	1,112
977 Average	9,913	8,245	1,618	170	378	18,431	1,312
978 Average	10,328	8,707	1,567	78	-172	18,847	1,278
979 Average	10,179	8,552	1,584	148	25	18,513	1,341
980 Average	10,214	8,597	1,573	98	42	17,056	^e 1,392
981 Average	10,230	8,572	1,609	^e 290	^e -130	16,058	1,484
982 Average	10,252	8,649	1,550	136	-283	15,296	^e 1,430
983 Average	10,299	8,688	1,559	^e 214	^e -234	15,231	1,454
984 Average	10,554	8,879	1,630	199	81	15,726	1,556
985 Average	10,636	8,971	1,609	50	-153	15,726	1,519
986 Average	10,289	8,680	1,551	78	124	16,281	1,593
987 Average	10,008	8,349	1,595	128	-87	16,665	1,607
988 Average	9,818	8,140	1,625	1	-29	17,283	1,597
989 Average	9,219	7,613	1,546	86	-129	17,325	1,581
990 Average	8,994	7,355	1,559	-35	142	16,988	1,621
991 Average	9,168	7,417	1,659	-42	32	16,714	1,617
992 Average	8,996	7,171	1,697	-1	-68	17,033	e1,592
993 Average	^g 8,836	6,847	1,736	81	^e 70	17,237	^e 1,647
994 Average	8,645	6,662	1,727	18	-2	17,718	1,653
995 Average	8,626	6,560	1,762	-93	-153	17,725	1,563
996 Average	8,607	6,465	1,830	-124	-28	18,309	1,507
997 Average	8,611	6,452	1,817	51	93	18,620	1,560
998 Average	8,392	6,252	1,759	74	165	18,917	1,647
	0.004	5 000	4 050	0.07	454	10.000	4.040
999 January	8,001	5,963	1,656	297	-454	19,029	1,642
February	8,068	5,966	1,722	50	-291	19,107	1,635
March	8,023	5,883	1,787	367	-859	19,497	1,620
April	8,015	5,887	1,806	-301	433	19,152	1,624
May	8,091	5,875	1,790	182	897	18,705	1,658
June	7,997	5,760	1,874	-235	-273	19,836	1,642
July	8,013	5,798	1,902	34	10	19,820	1,644
August	8,069	5,780	1,874	-566	-145	20,093	1,622
September	8,127	5,804	1,917	-368	142	19,483	1,615
		5,947	1,953	-85	-875	19,868	1,585
October	8,283						
November	8,275	5,960	1,949	-297	-188	19,087	1,571
December	8,320	5,959	1,957	-507	-1,995	20,498	1,493
Average	8,107	5,881	1,850	-118	-304	19,519	1,493
000 January	^R 8,096	^R 5.784	^R 1.956	^R 21	^R -520	^R 19,026	^R 1,477
	^R 8,227	^R 5,852	^R 1,987	R 98	^R -486	^R 19,635	^R 1,466
February			^R 1,987	^R 364	^R -38	^R 19,218	^R 1,466
March	^R 8,256	^R 5,918					
April	^R 8,232	^R 5,854	^R 1,968	^R 225	^R 746	^R 18,816	^R 1,505
May	^R 8,196	^R 5,847	^R 1,943	^R -294	^R 691	^R 19,605	^R 1,518
June	^R 8,106	^R 5,823	_ 1,922	^R -154	_ 427	^R 20,054	^R 1,526
July	^R 8,073	^R 5,739	^R 1,934	^R -225	^R 666	^R 19,696	^R 1,540
August	^R 8,087	^R 5,789	^R 1,941	^R 197	^R -450	^R 20,496	^R 1,532
September	^R 8,066	^R 5,758	^R 1,923	^R -347	^R 184	^R 19,899	^R 1,527
October	^R 8,151	^R 5,809	1,919	^R -189	^R -464	^R 19,798	^R 1,507
November	^R 8,089	^R 5,833	1,876	^R -281	^R 240	^R 19,328	^R 1,505
December	^R 7,750	^R 5,855	^R 1,583	^R -250	^R -971	^R 20.814	^R 1,468
Average	^R 8,110	^R 5,822	^R 1,911	^R -70	^R (s)	^R 19,701	R 1,468
					.,		
001 January	^E 7,552	E 5,836	1,381	211	-52	19,900	1,477
February	^E 7,951	^E 5,840	1,728	-492	254	19,597	1,471
March	^E 8,102	^E 5,878	_ 1,830	795	-581	19,892	1,477
April	^{RE} 8,042	^{RE} 5,854	^R 1,836	^R 700	^R 619	^R 19,591	^R 1,517
May	E 7,940	PE 5,805	^E 1,752	E 212	E 1,077	E 19,077	^E 1,543
5-Month Average	^E 7,916	PE 5,842	E 1,704	E 298	E 261	E 19,612	^E 1,543
-							
000 5-Month Average	8,201	5,851	1,968	82	82	19,258	1,518

^a A negative number indicates a decrease in stocks and a positive number indicates an increase. Distillate stocks in the "Northeast Heating Oil Reserve" are not included. ^b Stocks are at end of period. Distillate stocks in the "Northeast Heating Oil

Reserve" are not included.

^c Includes crude oil, natural gas plant liquids, and other liquids.
 ^d Includes stocks located in the Strategic Petroleum Reserve.

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

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

PE=Preliminary estimate. R=Revised. E=Estimate.

Notes: Crude oil includes lease condensate. Geographic coverage is

the 50 States and the District of Columbia. Sources: **1973-1980**: Energy Information Administration (EIA), *Petroleum Supply Monthly*, February 1993, Table S1. **1981 forward:** EIA, *Petroleum Supply Monthly*, June 2001, Table S1.

Table 3.1b	Petroleum (Overview:	Imports,	Exports,	and Net Imp	orts

		Imports			Exports		
	Total	Crude Oil ^a	Petroleum Products	Total	Crude Oil	Petroleum Products	Net Imports
			The	ousand Barrels pe	er Day	I	1
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
	6,056	4,105	1,951	209	6	204	5,846
5 Average		,					
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	^с 471	235	^с 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
	,			722	181		
4 Average	5,437	3,426	2,011			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
B 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
1 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			945	110	835	,
3 Average	10,708	8,706	2,002	945	110	035	9,764
January	10,424	8,393	2,031	896	107	788	9,529
February	10,650	8,468	2,182	756	119	636	9,894
March	10,658	8,739	1,919	764	95	669	9,894
April	11,618	9,256	2,362	1,196	332	864	10,422
Мау	11,511	9,098	2,412	915	88	826	10,596
		,		907		784	
June	11,160	8,888	2,272		123		10,253
July	11,697	9,391	2,306	918	120	798	10,779
August	11,142	8,908	2,234	902	132	769	10,240
September	10,657	8,527	2,130	889	27	862	9,768
October	10,595	8,613	1,983	944	56	888	9,651
November	10,033	8,224	1,809	950	83	866	9,083
December	10,065	8,234	1,830	1,230	133	1,096	8,835
-	,	,	,				
Average	10,852	8,731	2,122	940	118	822	9,912
) January	^R 10,140	^R 7,829	^R 2,311	1,006	176	830	^R 9,134
February	^R 11,003	^R 8,318	^R 2,684	870	30	840	^R 10,133
March	^R 11,052	^R 8,790	^R 2,261	1,159	144	1,015	^R 9,893
April	^R 11,558	^R 9,341	^R 2,217	1,131	124	1,007	^R 10,427
	^R 11,415	^R 9,085	^R 2,331				^R 10,559
May			∠,331 B 0,400	856	34	822	
June	^R 12,032	^R 9,533	^R 2,499	925	9	915	^R 11,107
July	^R 11,588	^R 9,398	^R 2,190	900	15	885	^R 10,688
August	^R 12,173	^R 9.939	^R 2.234	1,073	17	1,056	^R 11,099
September	^R 11,900	^R 9,484	^R 2,416	1,059	23	1,036	^R 10,841
October	^R 11,290	^R 8,969	^R 2,321	1,292	9	1,283	^R 9,998
November	^R 11,309	^R 8,913	^R 2,396	1,108	2	1,106	^R 10,201
	^R 12,053	^R 9,229	Z,000				
December	12,000	9,229 B 0 074	^R 2,824	1,095	16 50	1,079	^R 10,958
Average	^R 11,459	^R 9,071	^R 2,389	1,040	50	990	^R 10,419
I January	12,118	8,791	3,327	965	18	947	11,154
February	11,462	8,484	2,978	1,015	24	991	10,447
	11,942	9,477	2,465	947	37	910	10,996
March							
April	^R 12,311	^R 9,821	^R 2,491	^R 950	^R 5	^R 945	^R 11,361
May	^E 11,813	^E 9,603	^E 2,210	^E 977	E 97	^E 880	^E 10,836
5-Month Average	^E 11,936	^E 9,246	^E 2,690	^E 970	Ĕ 37	^E 933	E 10,966

^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.

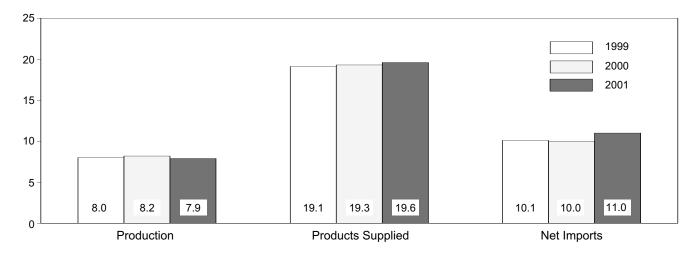
Notes: Crude oil includes lease condensate. Totals may not equal sum

of components due to independent rounding. Geographic coverage is the 50 States and the District of Columbia. Sources: **1973-1980:** Energy Information Administration (EIA), *Petroleum Supply Monthly*, February 1993, Table S1. **1981 forward:** EIA, *Petroleum Supply Monthly*, June 2001, Table S1.

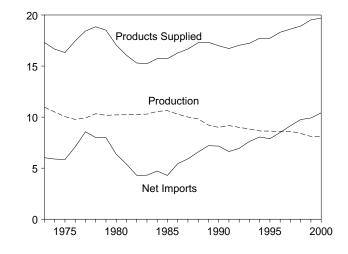
Figure 3.1a Petroleum Overview

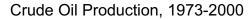
(Million Barrels per Day)

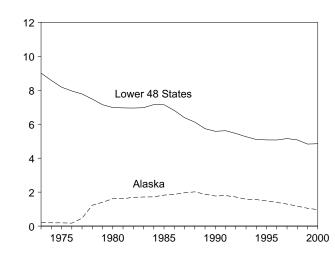
Overview, January-May





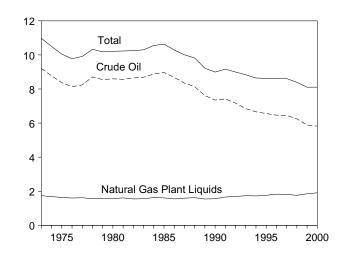






Note: Because vertical scales differ, graphs should not be compared. Sources: Tables 3.1a, 3.1b, and 3.2a.

Production, 1973-2000



Total Production, Monthly

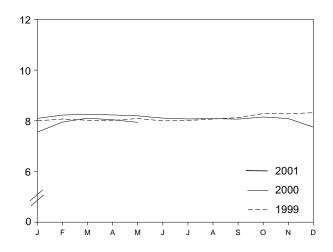
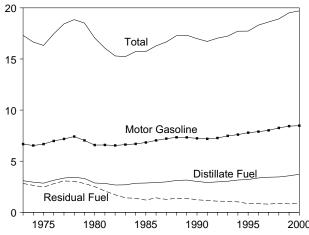


Figure 3.1b Petroleum Overview

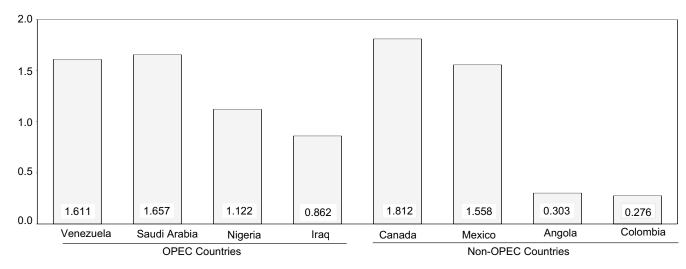
(Million Barrels per Day, Except as Noted)

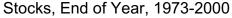
Products Supplied, 1973-2000

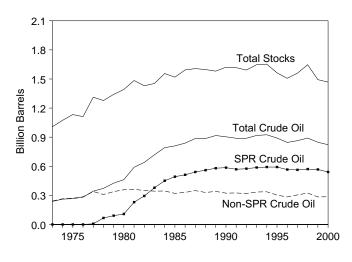


2000

Imports from Selected Countries, April 2001

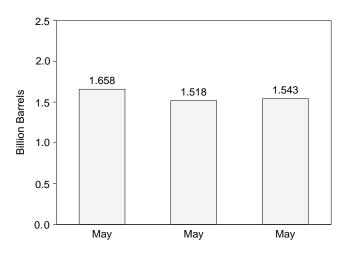




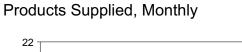


Notes: • OPEC = Organization of Petroleum Exporting Countries. • SPR = Strategic Petroleum Reserve. • Because vertical scales differ, graphs should not be compared.

Total Stocks, End of Month



Sources: Tables 3.1a, 3.2b, 3.3a, 3.3b, 3.3d ,3.3e, 3.3f, 3.3h, 3.4, 3.5, and 3.6.



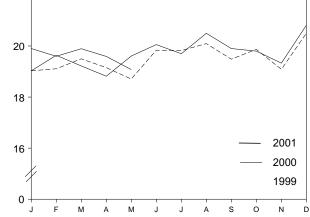


Table 3.2a Crude Oil Supply and Disposition: Supply

				Supply		1	
	Field Pr	oduction		Imports			Onuda O
	Total Domestic	Alaskan	Total	SPRa	Other	Unaccounted- for Crude Oil ^b	Crude Oi Used Directly ^c
		•	Tho	busand Barrels per	Day		
973 Average	9,208	198	3,244	_	3,244	3	-19
974 Average	8,774	193	3,477	-	3,477	-25	-15
975 Average	8,375	191	4,105	-	4,105	17	17
76 Average	8,132	173	5,287	-	5,287	77	^d -19
77 Average	8,245	464	6,615	21	6,594	-6	-14
78 Average	8,707	1,229	6,356	^d 161	6,195	-57	^d -15
79 Average	8,552	1,401	6,519	67	6,452	-11	^d -14
80 Average	8,597	1,617	5,263	44	5,219	34	^d -14
81 Average	8,572	1,609	4,396	256	4,141	83	-58
82 Average	8,649	1,696	3,488	165	3,323	71	-59
83 Average	8,688	1,714	3,329	234	3,096	114	-
84 Average	8,879 8,971	1,722 1,825	3,426 3,201	197 118	3,229 3,083	185 145	-
85 Average 86 Average	8,680	1,825	4,178	48	4,130	145	_
87 Average	8,349	1,962	4,178	48 73	4,601	145	_
88 Average	8,140	2,017	5,107	51	5,055	145	_
89 Average	7,613	1,874	5,843	56	5,787	200	_
90 Average	7,355	1,773	5,894	27	5,867	258	_
91 Average	7,417	1,798	5,782	0	5,782	195	_
92 Average	7,171	1,714	6,083	10	6,073	258	_
93 Average	6,847	1,582	6,787	15	6,772	168	_
94 Average	6,662	1,559	7,063	12	7,051	266	_
95 Average	6,560	1,484	7,230	0	7,230	193	-
96 Average	6,465	1,393	7,508	0	7,508	215	-
97 Average	6,452	1,296	8,225	0	8,225	145	-
98 Average	6,252	1,175	8,706	0	8,706	115	-
99 January	5,963	1,164	8,393	0	8,393	490	-
February	5,966	1,104	8,468	0	8,468	45	-
March	5,883	1,134	8,739	0 0	8,739	338 -18	-
April	5,887 5,875	1,056 1,088	9,256 9,098	0	9,256 9,098	270	_
May	5,760	967	8,888	0	9,098 8,888	198	-
June July	5,798	990	9,391	0	9,391	202	_
August	5,780	1,011	8,908	31	8,877	177	_
September	5,804	933	8,527	17	8,509	436	_
October	5,947	1,068	8,613	17	8,595	(s)	_
November	5,960	1,023	8,224	17	8,207	306	_
December	5,959	1,058	8,234	16	8,218	-156	_
Average	5,881	1,050	8,731	8	8,722	191	-
)0 January	^R 5,784	1,024	^R 7,829	3	^R 7,826	^R 362	-
February	^R 5,852	1,031	^R 8,318	17	^R 8,301	^R -14	-
March	^R 5,918	^R 1,013	^R 8,790	0	^R 8,790	R 412	-
April	^R 5,854	1,008	^R 9,341	0	^R 9,341	R 206	-
May	^R 5,847	966	^R 9,085	0	^R 9,085	R 303	-
June	^R 5,823	925	^R 9,533	16	^R 9,518	R 143	-
July	^R 5,739	913	^R 9,398	15	^R 9,383	R 471	-
August	^R 5,789 ^R 5.758	914	^R 9,939	0	^R 9,939 ^R 9,484	^R 127 ^R -159	-
September	^R 5,809	892	^R 9,484 ^R 8,969	0	^R 8,938	^R 70	-
	^R 5,809	966 986	^R 8,969	32 17	^R 8,896	^R -1	-
November December	^R 5,855	1,010	^R 9,229	0	^R 9,229	^R -86	_
Average	^R 5,822	970	^R 9,071	8	^R 9,062	^R 155	_
01 January	^E 5,836	^E 980	8,791	32	8,759	398	_
February	E 5,840	E 977	8,484	0	8,484	22	_
March	^E 5,878	^E 1,009	9,477	15	9,462	121	-
April	^{RE} 5,854	^{RE} 986	^R 9,821	^R 0	^R 9,821	^R 566	-
May	PE 5,805	PE 963	E 9,603	^E 21	^E 9,582	^E 606	-
5-Month Average	PE 5,842	PE 983	^E 9,246	^E 14	^E 9,232	^E 347	-
00 5-Month Average	5,851	1,008	8,673	4	8,669	258	-
99 5-Month Average	5,914	1,110	8,794	0	8,794	230	-

 ^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 Geographic coverage is sum of components due to independent rounding.

the 50 States and the District of Columbia. Sources: **1973-1980**: Energy Information Administration (EIA), *Petroleum Supply Monthly*, February 1993, Table S2. **1981 forward:** EIA, *Petroleum Supply Monthly*, June 2001, Table S2.

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

			Disp	osition				Stocksa	
	Crude		Changeb	Refinery		Product		677	Other
	Losses	SPR ^c	Other	Inputs Barrels per Day	Exports	Supplied ^d	Total	SPR ^c	Primary
			mousanu L					Million Darres	5
973 Average	13	-	-11	12,431	2	-	242	-	242
974 Average	13	-	62	12,133	3	-	265	-	265
975 Average	13 ^e 14	-	17	12,442	6	-	271	-	271
976 Average			39	13,416	8 50	_	285	- 7	285 340
977 Average	16 16	20 163	150 -84	14,602 14,739	158	_	348 376	67	340
978 Average 979 Average	16	67	-84 81	14,739	235	_	430	91	309
980 Average	^e 14	45	52	13,481	287	_	f 466	108	f 358
981 Average	5	336	^f -46	12,470	228	_	594	230	363
982 Average	3	174	-38	11,774	236	_	^g 644	294	^g 350
983 Average	2	234	g -20	11,685	164	66	723	379	344
984 Average	2	195	4	12,044	181	64	796	451	345
985 Average	1	117	-67	12,002	204	60	814	493	321
986 Average	(s)	50	28	12,716	154	49	843	512	331
987 Average	(s)	80	49	12,854	151	34	890	541	349
988 Average	(s)	52	-51	13,246	155	40	890	560	330
989 Average	(s)	56	30	13,401	142	28	921	580	341
990 Average	(s)	16	-51	13,409	109	24	908	586	323
991 Average	(s)	-47	5	13,301	116	18	893	569	325
992 Average	(s)	17	-18	13,411	89	13	893	575	318
993 Average	(s)	34	47	13,613	98	10	922	587	335
994 Average	(s)	13	5	13,866	99	9	929	592	337
995 Average	(s)	(s)	-93	13,973	95	7	895	592	303
996 Average	(s)	-71	-53	14,195	110	6	850	566	284
997 Average	0	-7	57	14,662	108	2	868	563	305
998 Average	(s)	22	52	14,889	110	0	895	571	324
999 January	0	18	280	14,442	107	0	904	572	332
February	(s)	(s)	50	14,309	119	0	906	572	334
March	(s)	0	367	14,498	95	0	917	572	345
April	0	17	-317	15,094	332	0	908	572	335
May	0	37	145	14,973	88	0	914	574	340
June	0	40	-276	14,959	123	0	907	575	332
July	0	29	5	15,237	120	0	908	576	332
August	0	-27	-539	15,299	132	0	890	575	315
September	0	20	-388	15,107	27	0	879	575	304
October	0	-103	18	14,589	56	0	876	572	304
November	0	-105	-191	14,704	83	0	867	569	298
December	0	-60	-447	14,410	133	0	852	567	284
Average	(s)	-11	-107	14,804	118	0	852	567	284
000 January	0	41	^R -20	^R 13,779	176	0	^R 852	568	^R 284
February	0	30	^R 68	^R 14,028	30	0	^R 855	569	^R 286
March	0	1	^R 363	^R 14,613	144	0	^R 867	569	_ 297
April	0	0	R 225	^R 15,053	124	0	873	569	^R 304
May	0	0	^R -294	^R 15,494	34	0	^R 864	569	^R 295
June	0	-17	^R -136	^R 15,643	9	0	^R 860	569	^R 291
July	0	47	^R -272	^R 15,819	15	0	^R 853	570	^R 282
August	0	33	^R 164	^к 15,640	17	0	^ĸ 859	571	^к 287
September	0	-34	^R -313	R 15,407	23	0	^R 848	570	R 278
October	0	-189	R (s)	^R 15,029	9	0	^R 842	564	R 278
November	0	-566	R 285	^R 15,023	2	0	^R 834	548	R 286
December	0	-220	^R -30 ^R 3	^R 15,232	16	0	^R 826	541	R 286
Average	0	-73	~ 3	^R 15,067	50	0	^R 826	541	^R 286
01 January	0	32	179	14,797	18	0	836	542	294
February	0	(s)	-492	14,813	24	0	822	542	280
March	0	20	775	14,643	37	0	847	542	_ 304
April	0	R 2	^R 698	^R 15,537	^R 5	0	^R 868	^R 542	^R 325
May	E O	E 21	E 191	^E 15,704	E 97	EO	E 868	^E 543	E 324
5-Month Average	E 0	^E 15	^E 282	^E 15,102	E 37	E 0	^E 868	^E 543	^E 324
00 5-Month Average	0	14	67	14,598	102	0	864	569	295
	-	15		,		-			

^a Stocks are at end of period.

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

^c Strategic Petroleum Reserve. Crude oil stocks in the SPR include non-U.S. stocks held under foreign or commercial storage agreements. ^d Beginning in January 1983, crude oil used directly as fuel is shown as

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

^e See Note 6 at end of section.

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

^g See Note 4 at end of section.

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

 Notes:
 Crude oil includes lease condensate.
 Totals may not equal

 sum of components due to independent rounding.
 Geographic coverage is

 the 50 States and the District of Columbia.
 Sources:
 1973-1980:

Sources: **1973-1980:** Energy Information Administration (EIA), *Petroleum Supply Monthly*, February 1993, Table S2. **1981 forward:** EIA, *Petroleum Supply Monthly*, June 2001, Table S2.

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

(Thousand Barrels per Day)

				Persia	n Gulf ^a			
	Ва	hrain		ran	h	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	0	469	463	0	0	5	5
1975 Average	16	0	280	278	2	2	16	4
976 Average	3	0	298	298	26	26	5	1
977 Average	10	0	535	530	74	74	48	42
978 Average	3	0	555	554	62	62	6	5
979 Average	1	0	304	297	88	88	8	5
980 Average	(s)	0	9	8	28	28	27	27
981 Average	1	0	0	0	(s)	0	0	0
982 Average	1	0	35	35	3	3	5	2
983 Average	2	0	48	48	10	10	14	7
984 Average	1	0	10	10	12	12	36	24
985 Average	4	0	27	27	46	46	21	4
986 Average	2	0	19	19	81	81	68	28
987 Average	0	0	98	98	83	82	84	70
988 Average	2	0	^с (s)	^c (s)	345	343	92	80
989 Average	0	Ō	Ó	Ó	449	441	157	155
990 Average	1	Ō	Ó	Ō	518	514	86	79
991 Average	2	Ō	32	32	0	0	6	6
992 Average	0	0	0	0	0	0	51	39
993 Average	1	0	0	0	0	0	353	344
994 Average	1	Ó	Ó	Ó	Ó	Ó	312	307
995 Average	1	Ó	Ó	Ó	Ó	Ó	218	213
996 Average	1	Ó	Ó	0	1	1	236	235
997 Average	Ó	Ō	Ō	Ō	89	89	253	253
998 Average	1	Ō	Ō	Ō	336	336	301	300
999 January	0	0	0	0	485	485	132	132
February	0	0	0	0	681	681	205	205
March	0	0	0	0	791	791	324	324
April	0	0	0	0	829	829	286	279
May	0	0	0	0	750	750	227	227
June	0	0	0	0	773	773	259	259
July	0	0	0	0	680	680	311	311
August	Õ	Õ	Õ	Õ	672	672	348	348
September	Õ	Ő	Õ	Õ	741	741	261	261
October	Õ	Ő	Õ	Õ	922	922	205	205
November	Ő	õ	õ	õ	713	713	216	216
December	Ő	õ	õ	ŏ	668	668	200	186
Average	Ŏ	Ő	Ŏ	Ő	725	725	248	246
000 January	0	0	0	0	254	254	239	218
February	0	0	0	0	^R 750	^R 750	267	264
March	0	0	0	0	468	468	162	162
April	0	0	0	0	^R 657	^R 657	^R 264	247
May	0	0	0	0	438	438	170	166
June	0	0	0	0	^R 830	^R 830	210	210
July	0	0	0	0	^R 762	^R 762	^R 264	^R 264
August	0	0	0	0	^R 765	^R 765	^R 405	^R 405
September	Ő	Õ	Ő	Ő	^R 765	^R 765	352	338
October	Ő	Õ	Ő	Õ	653	653	337	337
November	Ő	Õ	Ő	Õ	585	585	248	237
December	10	Õ	Ő	Õ	528	528	^R 344	311
Average	1	ŏ	ŏ	Ő	R 620	R 620	R 272	R 263
001 January	(s)	0	0	0	294	294	242	206
February	Ó	0	0	0	236	236	280	251
March	0	0	0	0	566	566	302	302
April	0	0	0	0	862	862	242	221
4-Month Average	Ō	0	Ō	Ō	493	493	266	245
000 4-Month Average	0	0	0	0	528	528	232	222
999 4-Month Average	Ó	Ó	Ó	Ó	696	696	237	235

^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 between Kuwait and Saudi Arabia are

^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.

R=Revised. (s)=Less than 500 barrels per day. Notes: Beginning in October 1977, Strategic Petroleum Reserve imports e included. U.S. geographic coverage is the 50 States and the District of are included. Columbia.

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

Table 3.3b Petroleum Imports From Qatar, Saudi Arabia, U.A.E., and Total Persian Gulf

(Thousand Barrels per Day)

				Persiar	ո Gulf ^a			
	Q	atar	Saudi	Arabia ^b	United Ar	ab Emirates	Т	otal ^a
	Total	Crude Oil	Total	Crude Oil	Total	Crude Oil	Total	Crude Oi
973 Average	7	7	486	462	71	71	848	802
974 Average	17	17	461	438	74	69	1,039	992
975 Average	18	18	715	701	117	117	1,165	1,121
076 Average	24	24	1,230	1,222	254	254	1,840	1,825
	67	67		1,373	335		,	,
077 Average			1,380			333	2,448	2,418
78 Average	64	64	1,144	1,142	385	385	2,219	2,212
79 Average	31	31	1,356	1,347	281	281	2,069	2,049
80 Average	22	22	1,261	1,250	172	172	1,519	1,508
981 Average	7	7	1,129	1,112	81	77	1,219	1,196
82 Average	7	7	552	530	92	81	696	659
83 Average	(s)	0	337	321	30	18	442	405
84 Average	5	4	325	309	117	90	506	450
085 Average	(s)	Ó	168	132	45	35	311	244
986 Average	13	12	685	618	40	38	912	796
087 Average	0	0	751	642	61	56	1,077	949
88 Average	0	0	1,073	911	29	23	1,541	1,357
89 Average	2	2	1,224	1,116	28	21	1,861	1,734
90 Average	4	4	1,339	1,195	17	9	1,966	1,801
91 Average	0	0	1,802	1,703	3	2	1,845	1,743
92 Average	1	0	1,720	1,597	6	0	1,778	1,636
993 Average	1	Ō	1,414	1,282	14	12	1,782	1,637
994 Average	ò	õ	1,402	1,297	13	11	1,728	1,615
	Ö							
95 Average	-	0	1,344	1,260	10	5	1,573	1,479
96 Average	0	0	1,363	1,248	3	3	1,604	1,488
97 Average	4	0	1,407	1,293	2	0	1,755	1,635
98 Average	4	1	1,491	1,404	3	3	2,136	2,044
999 January	0	0	1,511	1,410	0	0	2,129	2,027
February	0	0	1,497	1,417	0	0	2,383	2,303
March	34	0	1,652	1,584	0	0	2,801	2,698
April	31	0	1,482	1,417	5	Ō	2,633	2,526
May	0	Õ	1,502	1,406	Ő	Ő	2,479	2,383
	0	0	,			0	,	,
June			1,539	1,438	19		2,590	2,470
July	0	0	1,436	1,296	0	0	2,427	2,287
August	18	0	1,474	1,373	3	0	2,514	2,392
September	14	0	1,441	1,330	0	0	2,457	2,333
October	0	0	1,353	1,251	0	0	2,480	2,378
November	11	11	1,396	1,334	0	0	2,336	2,274
December	8	0	1,455	1,391	õ	Õ	2,331	2,245
Average	10	1	1,478	1,387	2	ŏ	2,464	2,240
	^R 12	0	^R 1,543	1 402	0	0	^R 2,048	1 055
00 January		0		1,483 B 1 265	0 ^R 25	0 ^R 18		1,955 B 2 207
February	2	0	^R 1,317	^R 1,265			^R 2,362	R 2,297
March	9	0	^R 1,548	^R 1,490	17	0	^R 2,204	^R 2,120
April	^R 13	0	^R 1,466	^R 1,452	0	0	^R 2,400	^R 2,356
May	9	0	1,566	1,510	34	0	2,218	2,115
June	10	0	^R 1,512	1,436	24	0	2,586	^R 2,476
July	8	0	^R 1,554	^R 1,486	24	15	^R 2,612	^R 2,528
August	6	Õ	1,649	1,587	0	0	R 2,825	^R 2,756
September	10	Ő	^R 1,669	1,645	31	Ő	^R 2,827	^R 2,748
			^R 1,499		9		^R 2,504	^R 2,451
October	7	0		^R 1,462		0		
November	15	0	1,624	1,567	9	0	2,482	2,389
December	3	0	1,897	1,882	9	0	^R 2,791	2,721
Average	^R 9	0	^R 1,572	^R 1,523	^R 15	R 3	^R 2,488	^R 2,409
01 January	7	0	1,758	1,629	138	79	2,438	2,207
February	0	0	1,779	1,723	44	0	2,339	2,210
March	20	0	1,787	1,728	4	Ō	2,679	2,597
April	19	Ő	1,657	1,625	84	76	2,865	2,785
4-Month Average	12	0	1,037 1,745	1,676	68	40	2,805 2,584	2,785 2,453
-	9	•	1 474	1 495	40	Α	2 254	
00 4-Month Average 99 4-Month Average	9 17	0	1,471 1,537	1,425 1,458	10 1	4 0	2,251 2,488	2,179 2,390

^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 between Kuwait and Saudi Arabia are

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

Notes:

included in Saudi Arabia.

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

1973-1980: Energy Information Administration (EIA), 1981 forward: EIA,

Petroleum Supply Monthly, February 1993, Table S3. Petroleum Supply Monthly, June 2001, Table S3.

Table 3.3c Petroleum Imports From Algeria, Ecuador, Gabon, Indonesia, and Libya

(Thousand Barrels per Day)

					Other	OPECa				
_	Al	geria	Εсι	uador ^b	Ga	bon ^c	Inde	onesia	L	ibya
	Total	Crude Oil	Total	Crude Oil	Total	Crude Oil	Total	Crude Oil	Total	Crude Oi
973 Average	136	120	48	47	0	0	213	200	164	133
974 Average	190	180	42	42	23	23	300	284	4	4
975 Average	282	264	57	57	27	27	390	379	232	223
976 Average	432	408	51	51	28	26	539	537	453	444
977 Average	559	544	57	55	42	35	541	507	723	704
978 Average	649	634	54	38	41	38	573	533	654	638
979 Average	636	608	42	30	42	42	420	380	658	642
980 Average	488	456	27	17	26	25	348	314	554	548
981 Average	311	261	48	38	35	35	366	318	319	317
982 Average	170	90	42	32	40	40	248	226	26	23
983 Average	240	176	61	56	59	59	338	315	0	0
984 Average	323	194	55	47	58	57	343	304	1	0
985 Average	187	84	67	56	52	51	314	292	4	0
986 Average	271	78	77	64	26	25	318	297	0	0
987 Average	295	115	29	23	35	35	285	262	0	0
988 Average	300	58	47	33	16	15	205	186	0	0
989 Average	269	60	89	80	50	49	183	158	0	0
990 Average	280	63	49	38	64	64	114	98	0	0
991 Average	253	44	63	53	84	84	111	102	0	0
992 Average	196	24	. 65	. 62	124	123	78	70	0	0
993 Average	220	24	(b)	(b)	152	151	81	65	0	0
994 Average	243	21	(b)	(b)	194	194	111	92	0	0
995 Average	234	27	(b)	(b)	(°)	(°)	88	64	0	0
996 Average	256	8	(b)	(b)	(°)	(°)	59	44	0	0
997 Average	285	6	(b)	(b)	(°)	(°)	58	51	0	0
998 Average	290	10	(b)	(b)	(°)	(°)	66	50	Ō	0
999 January	246	20	(b)	(b)	(^C)	(^C)	100	75	0	0
February	209	6	(b)	(b)	(°)	(°)	66	66	0	0
March	285	6	(b)	(b)	(°)	(°)	43	40	0	0
April	321	80	(b)	(b)	(°)	(°)	98	94	0	0
Мау	303	107	(b)	(b)	(°)	(<mark>c</mark>)	105	98	0	0
June	255	7	(b)	(b)	(^C)	(<mark>c</mark>)	66	52	0	0
July	302	48	(b)	(b)	(°)	(°)	19	14	0	0
August	249	0	(b)	(b)	(°)	(°)	95	85	0	0
September	255	4	(b)	(b)	(^C)	(^c)	95	63	0	0
October	183	0	(b)	(b)	(°)	(°)	98	79	0	0
November	211	11	(b)	(b)	(°)	(^C)	74	68	0	0
December	279	15	(b)	(b)	(^C)	(°)	118	99	0	0
Average	259	25	(b)	(b)	(°)	(°)	81	70	0	0
000 January	^R 240	R 7	(b)	(b)	(^C)	(^c)	31	22	0	0
February	^R 256	0	(b) (b)	(b) (b)			32	28	0	0
March	199	0	(b)	(b) (b)		(C)	45	45	0	0
April	195	(s)	(b)	(b) (b)	(°)	(C) (C)	91 P 05	70	0	0
May	270	0	(b) (b)	(b) (b)	$\begin{pmatrix} c \\ c \end{pmatrix}$	(C)	R 35	30	0	0
June	222	0	(b)	(b) (b)			46 R	42	0	0
July	205	0	(b)	(b) (b)	(^C)	(^c)	R 20	14	0	0
August	236	0	(^D)	(D)	(°)	()	^R 61	^R 55	0	0
September	216	0	(^D)	(5)	()	()	^R 28	^R 28	0	0
October	210	0	(b)	(b) (b)	(°)	(°)	37	34	0	0
November	^R 212	0	(b)		(^c)	(°)	60	29	0	0
December	240	0	(b)	(b)	(°)	(°)	92	41	0	0
Average	^R 225	^R 1	(b)	(b)	(°)	(°)	^R 48	36	0	0
001 January	286	0	(b)	(b) (b)	(^c)	(^c)	48	20	0	0
February	223	0	(b) (b)	(b) (b)	(°)	(°)	76	42	0	0
March	279	19	(b) (b)	(b) (b)		(°)	74	57	0	0
April	326	0 5	(b) (b)	(b) (b)	(°)	(°) (°)	58 64	52 43	0 0	0 0
4-Month Average	279		· · /		• • •					-
000 4-Month Average 999 4-Month Average	222 266	2 28	(b) (b)	(b) (b)	(°) (°)	(c) (c)	50 77	41 68	0	0

^a The country of origin for petroleum products may not be the country of origin for the crude oil from which the products were produced. For example, refined products imported from West European refining areas may have been produced from Middle East crude oil. ^b Ecuador withdrew from OPEC on December 31, 1992. As of January

1993, imports from Ecuador appear on Table 3.3f under "Non-OPEC." ^C Gabon withdrew from OPEC on December 31, 1994. As of January

1995, imports from Gabon appear on Table 3.3f under "Non-OPEC."

R=Revised. (s)=Less than 500 barrels per day. Notes: Beginning in October 1977, Strategic Petroleum Reserve imports e included. U.S. geographic coverage is the 50 States and the District of are included. Columbia.

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

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

(Thousand Barrels per Day)

			Other	OPECa			Total	OPECb
	Ni	geria	Ven	ezuela	т	otal		
	Total	Crude Oil	Total	Crude Oil	Total	Crude Oil	Total	Crude O
73 Average	459	448	1,135	344	2,156	1,293	2,993	2,095
74 Average	713	697	979	319	2,253	1,549	3,280	2,540
075 Average	762	746	702	395	2,452	2,091	3,601	3,211
	1,025	1,014	700	241	3,229	2,721	5,066	4,545
76 Average	1,143	1,130	690	250	3,754			5,643
77 Average		,			,	3,225	6,193	,
78 Average	919	910	646	181	3,536	2,972	5,751	5,184
79 Average	1,080	1,069	690	293	3,569	3,063	5,637	5,112
30 Average	857	841	481	156	2,781	2,356	4,300	3,864
B1 Average	620	611	406	147	2,106	1,726	3,323	2,922
82 Average	514	510	412	155	1,451	1,075	2,146	1,734
83 Average	302	301	422	164	1,422	1,072	1,862	1,477
84 Average	216	207	548	253	1,544	1,062	2,049	1,512
	293	280	605	306	1,522	1,069	1,830	1,312
85 Average								
36 Average	440	437	793	416	1,926	1,317	2,837	2,113
7 Average	535	529	804	488	1,983	1,451	3,060	2,400
8 Average	618	607	794	439	1,981	1,339	3,520	2,696
9 Average	815	800	873	495	2,279	1,642	4,140	3,376
0 Average	800	784	1,025	666	2,332	1,713	4,296	3,514
1 Average	703	683	1,035	668	2,249	1,634	4,092	3,377
					,			
2 Average	681	665	1,170	826	2,313	1,770	4,092	3,406
3 Average	740	722	1,300	1,010	2,493	1,972	4,273	3,609
4 Average	637	624	1,334	1,034	2,520	1,965	4,247	3,580
5 Average	627	621	1,480	1,151	2,430	1,862	4,002	3,341
6 Average	617	595	1,676	1,303	2,609	1,950	4,211	3,438
7 Average	698	689	1,773	1,394	2,814	2,140	4,569	3,775
8 Average	696	689	1,719	1,377	2,771	2,125	4,905	4,169
	702	696	1 6 / 1	1 040	2 600	2.024	4 910	4 051
99 January	702	686	1,641	1,243	2,690	2,024	4,819	4,051
February	701	661	1,751	1,298	2,727	2,030	5,110	4,334
March	650	613	1,331	1,001	2,308	1,659	5,109	4,358
April	890	848	1,737	1,420	3,046	2,443	5,679	4,968
May	617	572	1,574	1,213	2,599	1,991	5,079	4,374
June	703	667	1,426	1,047	2,451	1,773	5,040	4,243
	666	645		1,222		1,930	,	
July			1,602		2,589		5,016	4,216
August	800	766	1,480	1,183	2,623	2,035	5,137	4,427
September	535	505	1,484	1,138	2,368	1,711	4,825	4,044
October	543	522	1,340	1,041	2,164	1,642	4,645	4,020
November	588	548	1,222	942	2,095	1,569	4,431	3,843
December	490	450	1,346	1,069	2,233	1,633	4,564	3,878
-	657	623	1,493	1,150	2,489	1,869	4,953	4,228
Average	037	025	1,435	1,130	2,403	1,003	4,333	-
0 January	490	439	^R 1,360	1,051	^R 2,121	^R 1,519	^R 4,169	^R 3,474
February	^R 657	^R 636	^R 1,600	^R 1,198	^R 2,545	^R 1,863	^R 4.907	^R 4,160
March	^R 1,038	^R 1,005	^R 1,567	1,209	^R 2,850	^R 2,260	^R 5,054	^R 4,379
April	^R 948	^R 931	^R 1,537	^R 1,176	^R 2,771	^R 2,176	^R 5,171	^R 4,533
				,		^R 2,035		
May	^R 913	^R 902	^R 1,468	1,102	^R 2,686		^R 4,904	^R 4,150
June	^R 1,189	^R 1,136	^R 1,516	^R 1,207	^R 2,972	^R 2,385	^R 5,558	^R 4,861
July	^R 895	^R 876	^R 1,446	1,159	^R 2,566	^R 2,049	^R 5,178	^R 4,577
August	1,122	1,108	^R 1,661	1,429	^R 3,080	^R 2,591	^R 5,904	^R 5,348
September	^R 1,020	^R 1,008	^R 1.378	1.075	^R 2,643	^R 2,112	^R 5,470	^R 4.859
October	946	943	^R 1,610	^R 1,293	^R 2,803	^R 2,270	^R 5,307	^R 4,721
November	^R 851	^R 836	^R 1,632	^R 1,358	^R 2,755	R 2,222	^R 5,236	^R 4,612
							^R 5,575	
December Average	686 ^R 896	673 ^R 875	1,776 ^R 1,546	1,419 1,223	2,794 ^R 2,716	2,132 ^R 2,135	^R 5,203	4,854 ^R 4,544
-							-	
1 January	873	842	1,761	1,416	2,967	2,278	5,405	4,486
February	894	859	1,467	1,234	2,660	2,135	4,999	4,345
March	983	963	1,769	1,463	3,104	2,503	5,783	5,100
April	1,122	1,078	1,611	1,322	3,118	2,452	5,983	5,237
4-Month Average	969	936	1,657	1,322 1,362	2,969	2,452 2,346	5,552	4,799
MUTHIN AVELAYE	303	930	1,007	1,302	2,303	2,340	3,332	4,199
0 4-Month Average	784	753 702	1,515	1,158	2,570	1,954 2,036	4,821 5,177	4,133
99 4-Month Average	735		1,610	1,237	2,689			4,426

^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

^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."

"Other Non-OPEC" on Table 3.3h. R=Revised.

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

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

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

(Thousand Barrels per Day)

						Non-C	PECa					
	A	ngola	Au	stralia	Ва	hamas	B	Brazil	C	anada	c	China
	Total	Crude Oil	Total	Crude Oil	Total	Crude Oil	Total	Crude Oil	Total	Crude Oil	Total	Crude Oil
1973 Average	49	49	2	0	174	0	9	0	1,325	1,001	(s)	0
1974 Average	49	48	1	0	164	0	2	0	1,070	791	0	0
1975 Average	75	71	5	0	152	0	5	0	846	600	0	0
1976 Average	12	.7	2	0	118	0	0	0	599	371	0	0
1977 Average	24	17	3	0	171	0	0	0	517	279	0	0
1978 Average	20	6	5	0	160	0	0	0	467	248	0	0
1979 Average	43	39	6	0	147	0	1	0	538	271	13	13
1980 Average	42	37	1	0	78	0	3	1	455	199	(s)	0
1981 Average	49	45 42	5 5	0	74 65	0	23 47	14	447	164	18	0
1982 Average	44 78	42 71	5 4	(s) 0	125	0	47	19 2	482 547	214 274	40 34	8 6
1983 Average 1984 Average	90	85	38	25	88	0	60	(s)	630	341	46	15
1985 Average	110	104	37	23	40	Ö	61	(3)	770	468	59	36
1986 Average	112	104	41	30	37	0	50	Ő	807	570	90	68
1987 Average	192	180	58	49	37	Ő	84	ŏ	848	608	82	63
1988 Average	212	203	58 64	49 59	32	0	98	Ő	999	681	88	82
1989 Average	284	203	36	31	34	Ö	82	ŏ	931	630	80	76
1990 Average	237	236	53	47	37	Ő	49	ŏ	934	643	80	77
1991 Average	254	254	26	21	35	Ő	22	ŏ	1,033	743	91	87
1992 Average	336	336	19	17	36	ŏ	20	ŏ	1,069	797	90	84
1993 Average	336	336	19	18	28	ŏ	33	ŏ	1,181	900	51	50
1994 Average	331	322	17	16	29	ŏ	31	1	1,272	983	65	64
1995 Average	367	360	16	16	2	ŏ	8	ò	1,332	1,040	53	53
1996 Average	351	344	31	25	1	Ō	9	Ō	1,424	1,075	57	57
1997 Average	427	425	48	31	1	Ō	5	Ō	1,563	1,198	49	48
1998 Average	468	465	57	31	4	Ō	26	Ō	1,598	1,266	42	42
1999 January	421	421	0	0	0	0	3	0	1,600	1,196	(s)	0
February	380	364	73	49	0	0	22	0	1,459	1,081	2	0
March	270	270	53	53	0	0	15	0	1,365	1,056	31	30
April	401	393	19	19	7	0	26	0	1,373	1,057	21	21
May	407	400	55	37	23	0	47	0	1,523	1,104	2	0
June	334	334	56	34	0	0	48	0	1,477	1,159	67	19
July	349	349	30	30	8	0	31	0	1,694	1,354	19	19
August	309	309	65	47	0	0	30	0	1,653	1,263	72	33
September	465	465	110	65	0	0	16	0	1,407	1,067	37	34
October	444	444	0	0	0	0	18	0	1,627	1,229	0	0
November	307	307	22	22 23	0 0	0	37	0	1,592	1,264	1	0
December	244	227	23		3	0 0	18	0	1,684	1,291	1	0
Average	361	357	42	31	3	U	26	0	1,539	1,178	21	13
2000 January	^R 249	^R 247	^R 43	^R 43	0	0	^R 59	0	^R 1,869	^R 1,378	7	0
February	186	177	^R 58	^R 50	0	0	^R 21	0	^R 1,904	^R 1,350	22	21
March	312	308	44	44	0	0	^R 10		^R 1,673	^R 1,261	91	37
April	^R 348	^R 335	97	70	0	0	^R 57	0	^R 1,750	^R 1,323	^R 61	18
May	378	366	94	65	0	0	^R 33	0	^R 1,907	^R 1,488	^R 39	28
June	^R 376	R 359	<u>56</u>	56	0	0	^R 102	19	^R 1,830	^R 1,430	55	54
July	310	310	^R 87	84	0	0	R 88	11	R 1,775	^R 1,376	44	39
August	279	279	45	45	0	0	^R 72	17	^R 1,790	^R 1,318	33	32
September	266	266	42 R 40	22 R 40	0	0	R 22	0	R 1,789	^R 1,321	40 8 70	40 R co
October	266	254	^R 42	R 42	0	0	R 37	0	R 1,716	^R 1,262	^R 70	^R 69
November	341	329	22	22	0	0	R 80		^R 1,736	^R 1,283	21	20
December Average	301 ^R 301	301 ^R 295	42 ^R 56	42 ^R 49	0 0	0 0	^R 36 ^R 51	0 5	^R 1,948 ^R 1,807	1,380 ^R 1,348	45 44	39 ^R 33
2001 January	312	300	74	65	0	0	105	35	1,827	1,297	33	33
February	499	485	27	20	0	0	88	0	1,828	1,313	2	0
March	374	374	47	20	6	0 0	80	21	1,893	1,378	32	14
April	303	303	111	68	14	Ő	80	31	1,812	1,355	24	14
4-Month Average	369	363	65	44	5	ŏ	89	22	1,840	1,336	23	16
2000 4-Month Average	275	268	60	52	0	0	37	0	1,798	1,328	46	19
1999 4-Month Average	367	362	35	30	2	0	16	0	1,450	1,098	14	13

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

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

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

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

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

(Thousand Barrels per Day)

						Non-	OPECa					
	Co	olombia	Ecu	uador ^b	Ga	abon ^C		Italy	Ма	laysia	Me	exico
	Total	Crude Oil	Total	Crude Oil	Total	Crude Oil	Total	Crude Oil	Total	Crude Oil	Total	Crude Oil
1973 Average	9	2	_	_	_	_	125	0	12	1	16	1
1974 Average	5	0	-	-	-	-	74	0	12	1	8	2
1975 Average	9	0	-	-	-	-	27	0	8	5	71	70
1976 Average	21	6	-	-	-	-	39	0	18	16	87	87
1977 Average	17	0	-	-	-	-	51	0	66	55	179	177
1978 Average	20	0	-	-	-	-	38	0	42	37	318	316
979 Average	18	0	-	-	-	-	30	0	66	52	439	437
980 Average	4	0	-	-	-	-	4	0	70	61	533	507
981 Average	1	0	-	-	-	-	11	0	36	33	522	469
1982 Average	5	0	-	-	-	-	18	(s)	20	18	685	645
1983 Average	10	0	-	-	_	-	18	(s)	4	3 0	826	766
984 Average	8	0	_	_	-	-	45	(s)	1	-	748	659
985 Average	23	57				-	60 76	(s)	3	1	816	715
986 Average	87 148		_	_	_	_	76 54	0 1	12	11	699 655	621 602
987 Average 988 Average	146	115 106	_	_	-	_	54 65	5	13 19	12 19	655 747	674
989 Average	172	136	-	_	-	_	34	3	39	39	767	716
990 Average	182	140	_	_	-	_	58	2	39 41	40	755	689
991 Average	163	123	_	_	_	_	47	3	24	24	807	759
992 Average	126	102	_	_	_	_	55	ő	10	10	830	787
1993 Average	171	141	81	78	_	_	31	ŏ	11	10	919	863
1994 Average	161	146	91	91	_	_	22	ŏ	10	6	984	939
1995 Average	219	207	97	96	229	229		ŏ	.8	Ğ	1,068	1,027
1996 Average	234	226	104	96	184	184	8	ŏ	11	6	1,244	1,207
1997 Average	271	270	115	114	230	230	7	Ō	23	8	1,385	1,360
1998 Average	354	349	101	98	207	207	12	Ō	35	26	1,351	1,321
999 January	445	440	70	66	194	194	0	0	28	13	1,337	1,254
February	480	458	51	45	175	175	17	0	20	0	1,279	1,231
March	592	572	131	123	111	111	10	0	0	0	1,490	1,434
April	435	425	67	61	269	269	19	0	27	14	1,403	1,315
May	458	443	145	128	190	190	30	0	67	56	1,333	1,246
June	370	351	112	112	92	92	8	0	31	22	1,355	1,297
July	600	572	88	88	140	140	0	0	30	17	1,379	1,310
August	547	521	133	133	95	95	0	0	64	49	1,339	1,225
September	406	388	136	136	159	159	8 7	0 0	44	22	1,282	1,219
October	432	432 396	163 185	163 179	186 190	186 190	6	0	39 30	36 10	1,189	1,131
November	416 433	421	128	128	216	216	13	0	30	10	1,230	1,165
December Average	433 468	421 452	118	120	168	168	10	0	32 35	21	1,272 1,324	1,217 1,254
2000 January	452	426	^R 83	^R 83	^R 150	^R 150	16	0	^R 84	65	1,340	^R 1,266
February	R 355	^R 335	102	102	155	155	48	Ō	^R 71	36	^R 1,237	^R 1,150
March	^R 464	^R 460	^R 122	^R 122	136	128	29	0	34	15	^R 1,382	^R 1,286
April	^R 402	^R 370	114	114	172	172	^R 20	0	34	25	^R 1,417	^R 1,359
May	^R 346	^R 338	91	91	155	155	_ 13	0	35	20	^R 1,362	^R 1,314
June	283	265	106	96	88	88	^R 36	0	29	14	^R 1,499	_ 1,431
July	_ 237	_ 199	112	112	105	105	18	0	55	42	^R 1,311	^R 1,241
August		^R 299	_ 190	្ត184	106	106	20	0	21	0	^R 1,426	1,381
September	^R 360	^R 332	^R 205	^R 202	182	182	_24	0	15	0	1,494	1,437
October	207	180	166	160	164	164	^R 23	0	86	66	^R 1,263	^R 1,248
November	^R 324	R 283	^R 141	^R 136	181	181	^R 49	0	21	11	1,340	1,290
December	^R 359	R 327	104	96	129	129	^R 69	0	59	55	^R 1,405	^R 1,348
Average	^R 342	^R 318	^R 128	^R 125	^R 143	^R 143	^R 30	0	^R 45	29	^R 1,373	^R 1,313
001 January	360	326 294	97 00	94	94	94	43	0	37	0	1,403	1,363
February	321 210	294 186	90 80	90 80	177 152	177 152	44 64	0 0	18 87	0 54	1,088	1,026 1,351
March	276	232		108	152	152	64 24	0	38	54 22	1,433	
4-Month Average	276 291	232 259	111 95	93	149	149	24 44	0	38 46	19	1,558 1,376	1,533 1,324
2000 4-Month Average	419	399	105	105	153	151	28	0	56	35	1,345	1,266
1999 4-Month Average	489	474	81	74	187	187	11	Ō	19	7	1,379	1,310

^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.

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

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

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

(Thousand Barrels per Day)

		Non-OPEC ^a											
	Neth	nerlands	Netherla	nds Antilles	N	orway	Pue	rto Rico	Ru	ussia ^b	5	Spain	
	Total	Crude Oil	Total	Crude Oil	Total	Crude Oil	Total	Crude Oil	Total	Crude Oil	Total	Crude Oil	
1973 Average	53	0	585	0	1	0	99	0	26	0	26	0	
1974 Average	43	0	511	0	1	1	90	0	20	0	12	0	
1975 Average	19	4	332	0	17	12	90	0	14	0	1	0	
1976 Average	8	0	275	0	36	35	88	0	11	2	1	0	
1977 Average	31	4	211	0	50	48	105	0	12	2	10	0	
1978 Average	5	2	229	0	104	104	94	0	8	1	3	0	
1979 Average	23	7	231	0	75	75	92	0	1	0	4	0	
1980 Average	2	(s)	225	0	144	144	88	0	1	0	1	0	
1981 Average	30	(s)	197	0	119	114	62	0	5	(s)	1	(s)	
1982 Average	35	(s)	175	0	102	102	50	0	1	0	3	(s)	
1983 Average	65	3 3	189	0 0	66	65	40	0	1	(s)	2	(s) 0	
1984 Average	65 58	3 0	188 40	0	114	112 31	42 28	0	13 8	(s)	11	0	
1985 Average		0	40 25		32		20 21	0		(s)	29 53	1	
1986 Average	54			0	60	53		-	18	(s)		0	
1987 Average	60 61	0	29 36	0	80 67	70 62	21	0	11	0	55	0	
1988 Average 1989 Average	61 49	0	36 42	0	67 138	62 127	22 32	0	29 48	0	68 67	0	
	49 55	0	42 31	0	102	96	32	0	40 45	1	47	0	
1990 Average	29	0	81	0	82	90 74	27	0	45 29	1	33	0	
1991 Average 1992 Average	29	0	65	Ő	127	119	26	0	18	5	32	0	
1993 Average	10	0	82	Ö	142	137	20	0	55	36	32	0	
1994 Average	32	Ő	98	ŏ	202	190	22	0 0	30	27	37	ů	
1995 Average	15	0	52	ŏ	202	258	15	0	25	14	16	1	
1996 Average	19	Ő	64	ŏ	313	293	20	0 0	25	18	29	1	
1997 Average	25	ŏ	74	ŏ	309	288	16	Ő	13	3	21	ö	
1998 Average	31	Ő	82	ŏ	236	221	15	Ő	24	9	18	Ő	
1999 January	21	0	95	0	216	179	18	0	28	0	4	0	
February	7	0	160	0	203	157	0	0	28	0	0	0	
March	20	0	58	0	248	199	3	0	26	0	5	0	
April	34	0	76	0	265	192	15	0	75	43	13	0	
Мау	65	0	81	0	293	244	10	0	109	45	26	0	
June	44	0	31	0	524	497	15	0	149	22	0	0	
July	37	0	83	0	408	396	13	0	139	32	8	0	
August	35	0	58	0	244	222	12	0	138	14	13	0	
September	2	0	30	0	235	195	22	0	142	39	(s)	0	
October	17	0	49	0	341	292	13	0	110	31	22	0	
November	24	0	44	0	288	255	12	0	94	16	23	0	
December	11	0	24	0	371	326	15	0	31	12	9	0	
Average	27	0	65	0	304	263	13	0	89	21	10	0	
2000 January	12	0	^R 110	0	314	262	14	0	_ 29	0	_ 37	0	
February	45	0	^R 60	0	381	328	15	0	^R 120	0	^R 35	0	
March	^R 39	0	74	0	346	305	13	0	^R 63	17	23	0	
April	21	0	R 41	0	R 397	^R 348	14	0	83	25	31	0	
May	16	0	^R 75	0	R 307	R 295	20	0	^R 44	13	8	0	
June	^R 43	0	^R 95	0	274	240	17	0	75	0	R 28	0	
July	8 R 00	0	^R 63	0	545	482	13	0	78 8 70	0	23 R 47	0	
August	R 22	^R 8	138 8 5 0	0	377 R 2022	334 R 202	11	0	^R 73	6	R 47	0	
September	^R 39	0	^R 56	0	R 363	R 323	16	0	R 89	8	^R 21	0	
October	40	0	R 142	0	R 306	R 283	16	0	111	13	20	0	
November	34	0	R 103	0	^R 293	241	8	0	50	0	6	0	
December Average	41 ^R 30	0 ^R 1	^R 119 ^R 90	0 0	220 ^R 343	186 ^R 302	21 15	0 0	55 ^R 72	0 7	16 ^R 25	0 0	
-		-		-									
2001 January	77	0	141	0	319	226	11	0	188	0	50	0	
February	48	0 0	101	0 0	395	299	8	0	183	0 0	47	0 0	
March	48 23	0	125		400	313	5	0 0	53 115		35		
April 4-Month Average	23 49	0 0	105 119	0 0	382 373	325 290	6 8	0 0	115 134	0 0	19 38	0 0	
2000 4-Month Average	29	0	72	0	359	310	14	0	73	11	31	0	
1999 4-Month Average	21	0	96	0	233	182	9	0	39	11	6	Ó	

^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 b Imports from other States in the former U.S.S.R. may be included in

imports from Russia for the years 1973 through 1992. R=Revised. (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.

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

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

					Non-	OPECa						
	Trinidad	and Tobago	United	Kingdom	U.S. Vir	gin Islands	Other N	lon-OPEC ^b	1	lotal	Total	Imports
	Total	Crude Oil	Total	Crude Oil	Total	Crude Oil	Total	Crude Oil	Total	Crude Oil	Total	Crude Oil
1973 Average	255	60	15	0	329	0	153	36	3,263	1,149	6,256	3,244
1974 Average	251	63	8	0	391	0	122	30	2,832	937	6,112	3,477
1975 Average	242	115	14	(s)	406	0	120	14	2,454	893	6,056	4,105
1976 Average	274	104	31	13	422	0	203	101	2,247	742	7,313	5,287
1977 Average	289	134	126	97	466	0	287	157	2,614	971	8,807	6,615
1978 Average	253	142	180	169	428	0	239	146	2,612	1,172	8,363	6,356
1979 Average	190	123	202	197	431	0	269	192	2,819	1,407	8,456	6,519
1980 Average	176	115	176	173	388	0	219	162	2,609	1,399	6,909	5,263
1981 Average	133	102	375	369	327	0	236	163	2,672	1,474	5,996	4,396
1982 Average	112	92	456	441	316	0	306	174	2,968	1,754	5,113	3,488
1983 Average	96	83	382	365	282	0	378	215	3,189	1,853	5,051	3,329
1984 Average	94	87	402	378	294	0	411	210	3,388	1,914	5,437	3,426
1985 Average	113	98	310	278	247	0	394	137	3,237	1,888	5,067	3,201
1986 Average	125	93	350	317	244	0	426	144	3,387	2,065	6,224	4,178
1987 Average	106	75	352	304	272	0	459	196	3,617	2,274	6,678	4,674
1988 Average	97	71	315	254	242	0	487	196	3,882	2,411	7,402	5,107
1989 Average	94	73	215	160	321	0	457	197	3,921	2,467	8,061	5,843
1990 Average	96	76	189	155	282	0	417	180	3,721	2,381	8,018	5,894
1991 Average	88	72	138	106	243	0	282	137	3,535	2,405	7,627	5,782
1992 Average	95	70	230	200	249	0	335	149	3,796	2,676	7,888	6,083
1993 Average	74	55	350	312	254	0	452	240	^c 4,347	^C 3,178	8,620	6,787
1994 Average	77	62	458	396	328	0	450	239	4,749	3,483	8,996	7,063
1995 Average	70	62	383	341	278	0	302	181	4,833	3,889	8,835	7,230
1996 Average	76	58	308	216	313	0	440	265	5,267	4,070	9,478	7,508
1997 Average 1998 Average	61 66	56 53	226 250	169 161	300 293	0 0	422 531	250 288	5,593 5,803	4,450 4,537	10,162 10,708	8,225 8,706
1999 January	52	34	242	160	300	0	529	386	5,605	4,342	10,424	8,393
February	48	38	260	165	295	ŏ	583	372	5,540	4,134	10,650	8,468
March	28	18	314	261	319	õ	460	254	5,549	4,382	10,658	8,739
April	49	37	319	143	271	õ	756	300	5,939	4,288	11,618	9,256
May	41	18	569	471	298	ŏ	659	344	6,432	4,725	11,511	9,098
June	52	33	373	317	290	0	689	357	6,119	4,645	11,160	8,888
July	57	31	644	537	278	0	646	300	6,681	5,175	11,697	9,391
August	53	36	321	256	206	0	617	278	6,005	4,481	11,142	8,908
September	83	67	445	366	305	16	499	244	5,831	4,483	10,657	8,527
October	75	66	344	267	284	0	592	318	5,951	4,593	10,595	8,613
November	66	42	336	281	277	0	421	254	5,602	4,381	10,033	8,224
December	92	64	198	174	236	0	450	244	5,501	4,357	10,065	8,234
Average	58	40	365	284	280	1	575	304	5,899	4,502	10,852	8,731
2000 January	89	71	^R 273	171	^R 255	0	^R 486	^R 194	^R 5,971	^R 4,355	^R 10,140	^R 7,829
February	71	52	^R 241	149	^R 306	0	^R 660	^R 255	^R 6,095	^R 4,159	^R 11,003	^R 8,318
March	_ 60	37	^R 283	^R 240	^R 226	0	^R 574	150	^R 5,997	^R 4,411	^R 11,052	^R 8,790
April	^R 96	70	^R 444	348	^R 312	0	^R 476	232	^R 6,387	^R 4,808	^R 11,558	^R 9,341
May	77 R 407	51	^R 560	449	^R 307	0	^R 645	^R 262	^R 6,512	^R 4,935	^R 11,415	^R 9,085
June	^R 107	52	^R 349	282	^R 356	0	^R 671	^R 286	^R 6,474	^R 4,672	^R 12,032	^R 9,533
July	_ 93	54	^R 476	458 8 0 40	^R 267	0	^R 703	R 307	^R 6,410	^R 4,821	^R 11,588	^R 9,398
August	^R 80	55	^R 405	R 343	R 297	0	^R 526	^R 184	^R 6,268	^R 4,591	^R 12,173	^R 9,939
September	^R 97	58	R 291	R 248	R 323	0	R 695	R 186	^R 6,430	R 4,625	^R 11,900	^R 9,484
October	^R 95	56	R 381	R 275	^R 237 ^R 299	0	R 593	175	^R 5,983	^R 4,248	R 11,290	^R 8,969
November	80	56	R 332	^R 263		0	^R 613	174	^R 6,073	^R 4,301	^R 11,309	^R 8,913
December	75	55	R 342	252	^R 318	0	R 775	164	^R 6,478	^R 4,376	^R 12,053	^R 9,229
Average	^R 85	56	^R 366	^R 291	^R 291	0	^R 618	^R 214	^R 6,257	^R 4,526	^R 11,459	^R 9,071
2001 January		55	376	253	339	0	730	164	6,714	4,306	12,118	8,791
February	45	16	361	232	273	0	820	186	6,463	4,138	11,462	8,484
March	67	57	253	167	263	0	452	211	6,159	4,377	11,942	9,477
April 4-Month Average	85 73	60 48	239 307	140 198	195 268	0 0	633 655	216 194	6,329 6,416	4,584 4 355	12,311 11 968	9,821 9 154
-									-	4,355	11,968	9,154
2000 4-Month Average 1999 4-Month Average	79 44	58 32	310 284	227 183	274 296	0 0	548 580	207 327	6,111 5,659	4,435 4,290	10,932 10,836	8,567 8,716

(Thousand Barrels per Day)

^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.

^D Includes Bahrain, which is shown on Table 3.3a.
^C As of January 1993, includes petroleum imported from Ecuador, which withdrew from OPEC on December 31, 1992. As of January 1995, includes petroleum imported from Gabon, which withdrew from OPEC on December 31, 1994.

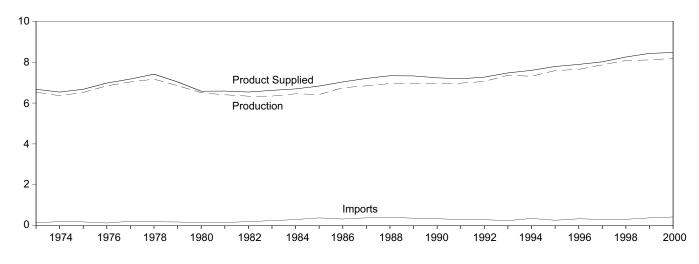
R=Revised. (s)=Less than 500 barrels per day. Notes: Beginning in October 1977, Strategic Petroleum Reserve imports are Notes: Totals may not equal sum of components due to independent U.S. geographic coverage is the 50 States and the District of included. rounding. Columbia.

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

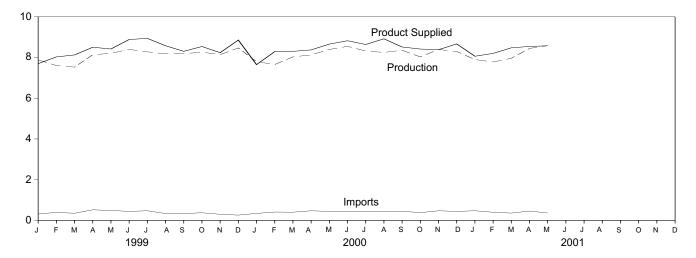
Figure 3.2 Finished Motor Gasoline

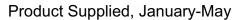
(Million Barrels per Day, Except as Noted)

Overview, 1973-2000

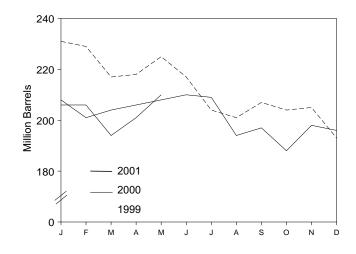


Overview, Monthly





12 8 8 4 0 1999 2000 2001 Stocks, End of Month



Note: Because vertical scales differ, graphs should not be compared. Source: Tables $3.4\,$

	Sup	ply		Disposition			Gasoline ocks ^a	
	Total Production	Imports ^b	Stock Change ^{b,c}	Exports	Product Supplied	Totald	Finished	Oxygenates Stocks ^a
		Thou	usand Barrels per	Day			Million Barrels	
1973 Average	6,535	134	-9	4	6,674	209	NA	NA
1974 Average	6,360	204	24	2	6,537	^e 218	NA	NA
1975 Average	6,520	184	e 28	2	6,675	235	NA	NA
1976 Average	6,841	131	-10	3	6,978	231	NA	NA
1977 Average	7,033	217	72	2	7,177	258	NA	NA
1978 Average	7,169 6,852	190 181	-54 -2	1	7,412	238 237	NA NA	NA NA
1979 Average	6,506	140	-2 66	(s) 1	7,034 6,579	e261	NA	NA
1980 Average 1981 Average ^f	6,405	140	e-28	2	6,588	253	203	NA
1982 Average	6,338	197	-25	20	6,539	e235	e194	NA
1983 Average	6,340	247	e-45	10	6,622	222	186	NA
1984 Average	6,453	299	54	6	6,693	243	205	NA
1985 Average	6,419	381	-41	10	6,831	223	190	NA
1986 Average	6,752	326	11	33	7,034	233	194	NA
1987 Average	6,841	384	-15	35	7,206	226	189	NA
1988 Average	6,956	405	3	22	7,336	228	190	NA
1989 Average	6,963	369	-35	39	7,328	213	177	NA
1990 Average	6,959	342	10	55	7,235	220	181	NA
1991 Average	6,975 7,058	297 294	3 -11	82 96	7,188 7,268	219 216	182 178	NA NA
1992 Average 1993 Average	⁹ 7.360	294 247	26	105	⁹ 7,476	216	187	^h 13
1994 Average	7,312	356	-31	97	7,601	215	176	17
1995 Average	7,588	265	-40	104	7,789	202	161	12
1996 Average	7,647	336	-12	104	7,891	195	157	13
1997 Average	7,870	309	26	137	8,017	210	166	12
1998 Average	8,082	311	15	125	8,253	216	172	14
1999 January	7,886	313	368	130	7,701	231	183	14
February	7,607	393	-136	105	8,031	229	179	16
March	7,531	350	-328	81	8,128	217	169	15
April	8,138	521	68	85	8,506	218	171	13
May	8,207	485	173 -111	100	8,420	225	177	15 14
June	8,402 8,280	444 471	-280	71 89	8,886 8,942	217 204	173 165	14
July August	8,183	338	-160	101	8,579	204	160	13
September	8,187	335	90	128	8,305	207	162	15
October	8,266	375	-31	130	8,542	204	161	15
November	8,142	299	72	128	8,240	205	164	13
December	8,471	260	-305	177	8,859	193	154	14
Average	8,111	382	-49	111	8,431	193	154	14
2000 January	^R 7,798	^R 343	^R 362	127	^R 7,653	208	^R 165	14
February	^R 7,658	^R 410	^R -306	83	^R 8,291	^R 201	156	15
March	^R 8,032	^R 403	_ ^R 22	108	^R 8,305	_ 204	157	14
April	^R 8,130	^R 472	^R 117	111	^R 8,375	^R 206	^R 161	13
May	^R 8,398	^R 441	^R 52	126	^R 8,661	^R 208	^R 162	14
June	^R 8,550	^R 451	R 76	100	^R 8,824	^R 210	165	14
July	^R 8,320	^R 435 ^R 436	R 429	110	^R 8,642	R 209	165 8 1 5 1	14
August	^R 8,251 ^R 8,358	^R 426 ^R 449	^R -438 ^R 106	194	^R 8,921 ^R 8,518	^R 194	^R 151	13
September October	^R 8,031	^R 381	-221	184 217	^R 8,518 ^R 8,417	197 188	154 ^R 147	13 14
November	^R 8,394	^R 471	^R 311	170	^R 8,384	^R 198	147	14
December	^R 8,298	^R 443	^R -120	190	^R 8,670	^R 196	^R 153	12
Average	^R 8,186	R 427	R -3	144	^R 8,472	^R 196	^R 153	12
2001 January	7,903	473	188	125	8,064	206	159	12
February	7,781	400	-151	128	8,203	206	155	12
March	7,963	_ 358	-302	_ 145	8,479	_ 194	_ 146	12
April	^R 8,447	^R 458	^R 216	^R 143	^R 8,546	^R 201	^R 152	12
May	^E 8,584	E 362	E 260	E 108	E 8,577	E 210	E 158	NA
5-Month Average	^E 8,140	^E 410	^E 45	^E 130	^E 8,376	^E 210	^E 158	NA
2000 5-Month Average 1999 5-Month Average	8,007 7,877	414 412	54 32	111 100	8,256 8,157	208 225	162 177	14 15

Table 3.4 Finished Motor Gasoline Supply and Disposition

^a Stocks are at end of period.

^b From 1981 forward, blending components are excluded.

^c A negative number indicates a decrease in stocks and a positive number indicates an increase. ^d Includes motor gasoline blending components and gasohol, but excludes

oxygenates, which are reported separately.

See Note 4 at end of section.

^f See Note 2 at end of section.

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

imbalance of motor gasoline blending components. See Note 2 at end of section. ^h See Note 1 at end of section.

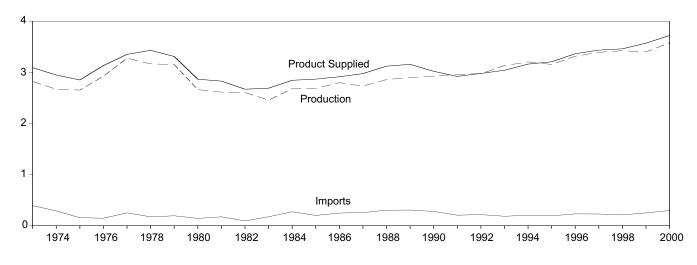
R=Revised. NA=Not available. E=Estimate. (s)=Less than 500 barrels per day. Note: Geographic coverage is the 50 States and the District of Columbia.

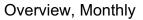
Sources: **1973-1980**: Energy Information Administration (EIA), Petroleum Supply Monthly, February 1993, Table S4. **1981 forward:** EIA, Petroleum Supply Monthly, June 2001, Table S4.

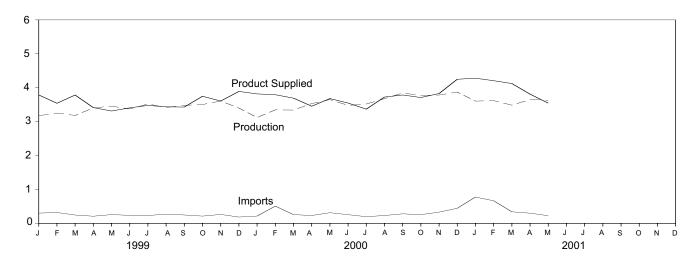
Figure 3.3 Distillate Fuel Oil

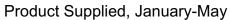
(Million Barrels per Day, Except as Noted)

Overview, 1973-2000

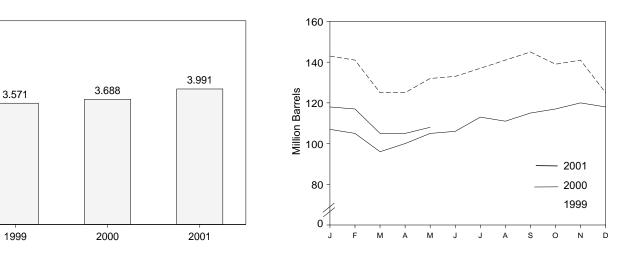








Stocks, End of Month



Source: Table 3.5.

6

5

4

3

2

1

0

Total Production Imports 1973 Average 2,822 392 1974 Average 2,669 289 1975 Average 2,654 155 1976 Average 2,924 146 1977 Average 3,278 250 1978 Average 3,153 193 1980 Average 2,662 142 1981 Average 2,666 93 1982 Average 2,666 174 1984 Average 2,667 200 1986 Average 2,687 200 1986 Average 2,738 247 1986 Average 2,859 302 1989 Average 2,962 205 1989 Average 2,974 216 1993 Average 3,205 203 1994 Average 3,205 203 1995 Average 3,315 193 1996 Average 3,322 228 1997 Average 3,322 228 1998 Average 3,3253 322			Disposition			Stocksa	
Production Imports 1973 Average 2,822 392 1974 Average 2,654 155 1975 Average 3,278 250 1975 Average 3,153 193 1977 Average 3,153 193 1978 Average 2,662 142 1981 Average 2,662 142 1981 Average 2,666 93 1982 Average 2,667 200 1984 Average 2,687 200 1985 Average 2,687 200 1986 Average 2,899 306 1990 Average 2,925 278 1991 Average 3,132 184 1993 Average 3,205 203 1994 Average 3,216 230 1995 Average 3,253 322 1994 Average 3,253 322						Sulfur	Content
1973 Average 2,822 392 1974 Average 2,669 289 1975 Average 2,654 155 1976 Average 3,278 250 1977 Average 3,167 173 1977 Average 3,167 173 1977 Average 3,167 173 1979 Average 2,662 142 1981 Average 2,662 142 1982 Average 2,661 173 1982 Average 2,661 174 1984 Average 2,687 200 1986 Average 2,731 255 1987 Average 2,731 255 1988 Average 2,859 302 1987 Average 2,962 205 1988 Average 2,962 205 1998 Average 3,132 184 1999 Average 3,205 203 1994 Average 3,205 203 1995 Average 3,155 193 1996 Average 3,253 322 <th>Crude Oil Used Directly^b</th> <th>Stock Change^c</th> <th>Exports</th> <th>Product Supplied^b</th> <th>Total</th> <th>0.05 Percent or Less^d</th> <th>Greater Than 0.05 Percent</th>	Crude Oil Used Directly ^b	Stock Change ^c	Exports	Product Supplied ^b	Total	0.05 Percent or Less ^d	Greater Than 0.05 Percent
1974 Average 2,669 289 1975 Average 2,654 155 1976 Average 3,278 250 1978 Average 3,167 173 1979 Average 3,167 173 1979 Average 2,662 142 1981 Average 2,662 142 1981 Average 2,666 93 1982 Average 2,666 174 1983 Average 2,687 200 1984 Average 2,687 200 1984 Average 2,731 255 1985 Average 2,859 302 1986 Average 2,859 302 1986 Average 2,925 278 1991 Average 3,132 184 1994 Average 3,205 203 1994 Average 3,205 203 1995 Average 3,316 230 1997 Average 3,316 230 <		arrels per Day				Million Barrel	
1974 Average 2,669 289 1975 Average 2,654 155 1976 Average 3,278 250 1978 Average 3,167 173 1979 Average 3,167 173 1979 Average 2,662 142 1981 Average 2,662 142 1981 Average 2,666 93 1982 Average 2,666 174 1983 Average 2,687 200 1984 Average 2,687 200 1984 Average 2,731 255 1985 Average 2,859 302 1986 Average 2,859 302 1986 Average 2,925 278 1991 Average 3,132 184 1994 Average 3,205 203 1994 Average 3,205 203 1995 Average 3,316 230 1997 Average 3,316 230 <	2	115	9	3,092	196	NA	NA
1975 Average 2,654 155 1976 Average 3,278 250 1977 Average 3,167 173 1979 Average 3,153 193 1980 Average 2,662 142 1981 Average 2,666 93 1982 Average 2,666 93 1983 Average 2,667 200 1984 Average 2,687 200 1985 Average 2,798 247 1985 Average 2,859 302 1988 Average 2,999 306 1990 Average 2,925 278 1991 Average 3,132 184 1994 Average 3,132 184 1994 Average 3,132 184 1994 Average 3,205 203 1995 Average 3,316 230 1994 Average 3,322 228 1995 Average 3,342 210 </td <td>2</td> <td>^e 10</td> <td>2</td> <td>2,948</td> <td>f 200</td> <td>NA</td> <td>NA</td>	2	^e 10	2	2,948	f 200	NA	NA
1976 Average 2,924 146 1977 Average 3,278 250 1978 Average 3,167 173 1978 Average 2,662 142 1981 Average 2,662 142 1981 Average 2,661 174 1982 Average 2,667 200 1983 Average 2,681 272 1984 Average 2,687 200 1986 Average 2,731 255 1988 Average 2,859 302 1987 Average 2,952 278 1988 Average 2,962 205 1990 Average 3,132 184 1991 Average 3,132 184 1994 Average 3,132 184 1994 Average 3,132 184 1995 Average 3,316 230 1997 Average 3,316 230 1997 Average 3,424 210	2	^{e,f} -41	1	2,851	209	NA	NA
1977 Average 3,278 250 1978 Average 3,167 173 1979 Average 3,153 193 1980 Average 2,662 142 1981 Average 2,661 174 1982 Average 2,666 93 1983 Average 2,666 174 1984 Average 2,687 200 1985 Average 2,687 200 1986 Average 2,798 247 1987 Average 2,687 200 1988 Average 2,687 200 1988 Average 2,687 200 1988 Average 2,925 278 1989 Average 2,962 205 1991 Average 2,962 205 1992 Average 3,132 184 1994 Average 3,205 203 1995 Average 3,316 230 1995 Average 3,316 230 1997 Average 3,322 228 1998 Average 3,424 210 1999 January 3,176 304 February	1	-62	1	3,133	186	NA	NA
1978 Average 3,167 173 1980 Average 3,153 193 1980 Average 2,662 142 1981 Average 2,661 173 1982 Average 2,661 173 1982 Average 2,666 93 1983 Average 2,667 200 1986 Average 2,657 200 1986 Average 2,859 302 1989 Average 2,925 278 1991 Average 2,925 278 1991 Average 3,132 184 1992 Average 3,132 184 1994 Average 3,205 203 1995 Average 3,215 193 1996 Average 3,316 230 1997 Average 3,223 322 1988 Average 3,424 210 1999 Anuary 3,176 304 February 3,521 234	1	176	1	3,352	250	NA	NA
1979 Average 3,153 193 1980 Average 2,662 142 1981 Average 2,666 93 1983 Average 2,661 173 1984 Average 2,661 174 1984 Average 2,661 174 1985 Average 2,681 272 1985 Average 2,687 200 1986 Average 2,731 255 1988 Average 2,859 302 1989 Average 2,962 278 1991 Average 2,962 205 1992 Average 3,132 184 1993 Average 3,205 203 1994 Average 3,205 203 1995 Average 3,316 230 1997 Average 3,223 322 March 3,143 248 April 3,407 213 May 3,458 261 June 3,607 213 May 3,521 234 August 3,419 273 September 3,482 249 </td <td>1</td> <td>-93</td> <td>3</td> <td>3,432</td> <td>216</td> <td>NA</td> <td>NA</td>	1	-93	3	3,432	216	NA	NA
1980 Average 2,662 142 1981 Average 2,606 93 1982 Average 2,661 174 1984 Average 2,681 272 1985 Average 2,681 272 1986 Average 2,681 272 1986 Average 2,798 247 1987 Average 2,859 302 1988 Average 2,859 302 1989 Average 2,962 205 1990 Average 2,962 205 1991 Average 3,205 203 1992 Average 3,132 184 1994 Average 3,205 203 1995 Average 3,316 230 1996 Average 3,316 230 1997 Average 3,322 228 1998 Average 3,424 210 1999 January 3,176 304 February 3,253 322 March 3,438 261 June 3,474 238 July 3,521 234 August 3,419 <td< td=""><td>1</td><td>34</td><td>3</td><td>3,311</td><td>229</td><td>NA</td><td>NA</td></td<>	1	34	3	3,311	229	NA	NA
1981 Average 2,613 173 1982 Average 2,606 93 1983 Average 2,661 272 1985 Average 2,687 200 1986 Average 2,687 200 1986 Average 2,687 200 1986 Average 2,687 200 1986 Average 2,689 302 1988 Average 2,859 302 1989 Average 2,925 278 1991 Average 2,962 205 1992 Average 3,132 184 1994 Average 3,205 203 1995 Average 3,316 230 1996 Average 3,312 184 1994 Average 3,322 228 1995 Average 3,316 230 1996 Average 3,322 228 1998 Average 3,424 210 1999 January 3,176 304 February 3,253 322 March 3,488 261 June 3,374 238 July 3,521	1	-64	3	2,866	f 205	NA	NA
1982 Average 2,606 93 1983 Average 2,456 174 1984 Average 2,681 272 1985 Average 2,687 200 1986 Average 2,731 255 1988 Average 2,859 302 1989 Average 2,999 306 1990 Average 2,925 278 1991 Average 2,962 205 1992 Average 3,132 184 1994 Average 3,205 203 1995 Average 3,316 230 1995 Average 3,316 230 1994 Average 3,316 230 1995 Average 3,424 210 1999 Average 3,606 216 June	10	f-38	5	2,800	192	NA	NA
1983 Average 2,456 174 1984 Average 2,681 272 1985 Average 2,687 200 1986 Average 2,731 255 1988 Average 2,859 302 1989 Average 2,962 278 1990 Average 2,925 278 1991 Average 2,962 205 1992 Average 3,132 184 1993 Average 3,205 203 1994 Average 3,205 203 1995 Average 3,316 230 1996 Average 3,316 230 1997 Average 3,242 210 1998 Average 3,424 210 1999 January 3,176 304 February 3,253 322 March 3,183 248 April 3,407 213 May 3,458 261 June 3,606 216 November 3,608 265 December 3,401 188 Average 3,3399 250	10	-36 -35	74	2,629	f 179	NA	NA
1984 Average 2,681 272 1985 Average 2,687 200 1986 Average 2,731 255 1987 Average 2,859 302 1989 Average 2,859 302 1989 Average 2,925 278 1991 Average 2,962 205 1992 Average 3,132 184 1994 Average 3,205 203 1995 Average 3,316 230 1994 Average 3,316 230 1995 Average 3,316 230 1995 Average 3,316 230 1996 Average 3,316 230 1997 Average 3,325 322 March 3,183 248 April 3,424 210 1999 January 3,176 304 February 3,253 322 March 3,374 238 July 3,521 234 August 3,419 273 September 3,606 216 November 3,606 216		-35 ^f -124	64	,	140	NA	NA
1985 Average 2,687 200 1986 Average 2,798 247 1987 Average 2,859 302 1988 Average 2,859 302 1989 Average 2,925 278 1991 Average 2,962 205 1992 Average 2,974 216 1993 Average 3,132 184 1994 Average 3,205 203 1995 Average 3,316 230 1996 Average 3,316 230 1997 Average 3,322 228 1998 Average 3,316 230 1999 January 3,176 304 February 3,253 322 March 3,183 248 April 3,407 213 May 3,521 234 August 3,419 273 September 3,482 249 October 3,506 216 November 3,608 265 December 3,421 R 218 February R 3,650 R 316	-			2,690			
1986 Average 2,798 247 1987 Average 2,731 255 1988 Average 2,859 302 1989 Average 2,899 306 1990 Average 2,925 278 1991 Average 2,962 205 1992 Average 3,132 184 1993 Average 3,205 203 1995 Average 3,316 230 1995 Average 3,315 193 1996 Average 3,316 230 1997 Average 3,392 228 1998 Average 3,424 210 1999 January 3,176 304 February 3,253 322 March 3,374 238 July 3,521 234 August 3,474 238 July 3,522 234 August 3,419 273 September 3,482 249 October 3,608 265 December 3,608 265 December 3,642 R 2160 <td>-</td> <td>57</td> <td>51</td> <td>2,845</td> <td>161</td> <td>NA</td> <td>NA</td>	-	57	51	2,845	161	NA	NA
1987 Average 2,731 255 1988 Average 2,859 302 1989 Average 2,999 306 1990 Average 2,925 278 1991 Average 2,962 205 1992 Average 2,974 216 1993 Average 3,132 184 1994 Average 3,205 203 1995 Average 3,316 230 1996 Average 3,316 230 1997 Average 3,322 228 1998 Average 3,424 210 1999 January 3,176 304 February 3,253 322 March 3,183 248 April 3,407 213 May 3,458 261 June 3,612 234 August 3,419 273 September 3,482 249 October 3,608 265 December 3,401 188 Average 3,3399 250 2000 January R 3,123 R 218	-	-48	67	2,868	144	NA	NA
1988 Average 2,859 302 1989 Average 2,899 306 1990 Average 2,925 278 1991 Average 2,962 205 1992 Average 2,974 216 1993 Average 3,132 184 1994 Average 3,132 184 1994 Average 3,155 193 1995 Average 3,316 230 1995 Average 3,316 230 1996 Average 3,316 230 1997 Average 3,316 230 1998 Average 3,424 210 1999 January 3,176 304 February 3,253 322 March 3,183 248 April 3,407 213 May 3,458 261 June 3,374 238 July 3,521 234 August 3,419 273 September 3,606 216 November 3,606 216 November 3,606 718 <t< td=""><td>-</td><td>31</td><td>100</td><td>2,914</td><td>155</td><td>NA</td><td>NA</td></t<>	-	31	100	2,914	155	NA	NA
1989 Average 2,899 306 1990 Average 2,925 278 1991 Average 2,962 205 1992 Average 2,974 216 1993 Average 3,132 184 1994 Average 3,205 203 1995 Average 3,155 193 1996 Average 3,316 230 1997 Average 3,316 230 1998 Average 3,316 230 1999 January 3,176 304 February 3,253 322 March 3,183 248 April 3,407 213 May 3,458 261 June 3,374 238 July 3,521 234 August 3,419 273 September 3,608 265 December 3,608 265 <td< td=""><td>-</td><td>-56</td><td>66</td><td>2,976</td><td>134</td><td>NA</td><td>NA</td></td<>	-	-56	66	2,976	134	NA	NA
1990 Average 2,925 278 1991 Average 2,962 205 1992 Average 3,132 184 1994 Average 3,205 203 1995 Average 3,155 193 1996 Average 3,316 230 1997 Average 3,316 230 1997 Average 3,392 228 1998 Average 3,424 210 1999 January 3,176 304 February 3,253 322 March 3,382 228 March 3,458 261 June 3,374 238 July 3,521 234 August 3,419 273 September 3,482 249 October 3,606 265 December 3,608 265 December 3,632 R 218 February R 3,678 R 234 May R 3,660 R 316 June 3,533 R 24 October 3,660 R 316	-	-30	69	3,122	124	NA	NA
1991 Average 2,962 205 1992 Average 2,974 216 1993 Average 3,132 184 1994 Average 3,205 203 1995 Average 3,155 193 1996 Average 3,316 230 1997 Average 3,316 230 1997 Average 3,316 230 1998 Average 3,424 210 1999 January 3,176 304 February 3,253 322 March 3,183 248 April 3,407 213 May 3,458 261 June 3,374 238 July 3,521 234 August 3,419 273 September 3,482 249 October 3,608 265 December 3,401 188 Average 3,3399 250 2000 January R 3,123 R 218 February R 3,650 R 316 July 3,520 R 199	-	-49	97	3,157	106	NA	NA
1992 Average 2,974 216 1993 Average 3,132 184 1994 Average 3,205 203 1995 Average 3,316 230 1996 Average 3,316 230 1997 Average 3,316 230 1998 Average 3,316 230 1997 Average 3,316 230 1998 Average 3,424 210 1999 January 3,176 304 February 3,253 322 March 3,183 248 April 3,407 213 May 3,458 261 June 3,374 238 July 3,521 234 August 3,419 273 September 3,482 249 October 3,506 216 November 3,608 265 December 3,441 188 Average 3,3399 250 2000 January R 3,123 R 218 February R 3,650 R 316	-	73	109	3,021	132	NA	NA
1993 Average 3,132 184 1994 Average 3,205 203 1995 Average 3,155 193 1996 Average 3,316 230 1997 Average 3,316 230 1998 Average 3,392 228 1998 Average 3,424 210 1999 January 3,176 304 February 3,253 322 March 3,183 248 April 3,407 213 May 3,458 261 June 3,374 238 July 3,521 234 August 3,419 273 September 3,482 249 October 3,506 216 November 3,608 265 December 3,401 188 Average 3,339 250 2000 January R 3,123 R 218 February R 3,650 R 316 June 3,342 R 260 April 3,650 R 316 June	-	31	215	2,921	144	NA	NA
1994 Average 3,205 203 1995 Average 3,155 193 1996 Average 3,316 230 1997 Average 3,316 230 1998 Average 3,316 230 1997 Average 3,322 228 1998 Average 3,424 210 1999 January 3,176 304 February 3,253 322 March 3,183 248 April 3,407 213 May 3,458 261 June 3,374 238 July 3,521 234 August 3,419 273 September 3,482 249 October 3,608 265 December 3,608 265 December 3,401 188 Average 3,3399 250 2000 January R 3,123 R 218 February R 3,650 R 316 June 3,533 R 234 May R 3,678 R 234 May	-	-8	219	2,979	141	NA	NA
1995 Average 3,155 193 1996 Average 3,316 230 1997 Average 3,322 228 1998 Average 3,424 210 1999 January 3,176 304 February 3,253 322 March 3,183 248 April 3,407 213 May 3,458 261 June 3,374 238 July 3,521 234 August 3,419 273 September 3,482 249 October 3,608 265 December 3,401 188 Average 3,3399 250 2000 January R 3,123 R 218 February R 3,650 R 316 June 3,533 R 234 May 3,520 R 199 August R 3,678 R 341 August R 3,678 R 324 May 3,520 R 199 August R 3,678 R 322 December	-	1	274	3,041	141	9 64	9 77
1996 Average 3,316 230 1997 Average 3,392 228 1998 Average 3,424 210 1999 January 3,176 304 February 3,253 322 March 3,183 248 April 3,407 213 May 3,458 261 June 3,374 238 July 3,521 234 August 3,419 273 September 3,482 249 October 3,506 216 November 3,608 265 December 3,401 188 Average 3,3399 250 2000 January R 3,123 R 218 February R 3,650 R 316 June 3,452 R 260 April 3,533 R 234 May 3,520 R 199 August R 3,678 R 348 July 3,520 R 199 August R 3,678 R 324 September	-	12	234	3,162	145	73	73
1997 Average 3,392 228 1998 Average 3,424 210 1999 January 3,176 304 February 3,253 322 March 3,183 248 April 3,407 213 May 3,458 261 June 3,374 238 July 3,521 234 August 3,419 273 September 3,482 249 October 3,506 216 November 3,608 265 December 3,401 188 Average 3,339 250 2000 January R 3,123 R 218 February R 3,481 R 260 April 3,533 R 234 May 3,560 R 316 June 3,678 R 234 May R 3,678 R 234 May 3,678 R 234 May R 3,678 R 234 September R 3,872 R 447 Average R 3,	-	-41	183	3,207	130	67	63
1997 Average 3,392 228 1998 Average 3,424 210 1999 January 3,176 304 February 3,253 322 March 3,183 248 April 3,407 213 May 3,458 261 June 3,374 238 July 3,521 234 August 3,419 273 September 3,482 249 October 3,506 216 November 3,608 265 December 3,401 188 Average 3,3399 250 2000 January R 3,123 R 218 February R 3,481 R 260 April 3,533 R 234 May 3,560 R 316 June 3,678 R 234 May 3,678 R 234 May 3,678 R 234 May 3,678 R 332 Detoerember R 3,678 R 332 December R 3,	-	-10	190	3,365	127	68	58
1998 Average 3,424 210 1999 January 3,176 304 February 3,253 322 March 3,183 248 April 3,407 213 May 3,458 261 June 3,374 238 July 3,521 234 August 3,419 273 September 3,482 249 October 3,506 216 November 3,608 265 December 3,401 188 Average 3,3399 250 2000 January R 3,123 R 218 February R 3,348 R 510 March 3,342 R 260 April 3,533 R 234 May R 3,650 R 316 June 3,678 R 3,678 July 3,520 R 199 August R 3,678 R 332 December R 3,774 R 259 November R 3,785 R 332 December	-	32	152	3,435	138	68	70
February 3,253 322 March 3,183 248 April 3,407 213 May 3,458 261 June 3,374 238 July 3,521 234 August 3,419 273 September 3,482 249 October 3,506 216 November 3,608 265 December 3,401 188 Average 3,3399 250 2000 January R 3,123 R 218 February R 3,348 R 510 March 3,342 R 260 April 3,533 R 234 May 3,560 R 316 June 3,678 R 3678 July 3,520 R 199 August R 3,678 R 332 December R 3,872 R 447 Average R 3,774 R 259 November R 3,785 R 332 December R 3,872 R 447 Average	-	48	124	3,461	156	77	79
March 3,183 248 April 3,407 213 May 3,407 213 May 3,407 213 June 3,374 238 July 3,521 234 August 3,419 273 September 3,482 249 October 3,506 216 November 3,608 265 December 3,401 188 Average 3,3399 250 2000 January R 3,123 R 218 February R 3,348 R 510 March 3,342 R 260 April 3,533 R 234 May R 3,650 R 316 June 3,650 R 316 June 3,678 R 234 May R 3,678 R 234 September R 3,678 R 324 September	-	-426	117	3,788	143	74	69
April 3,407 213 May 3,458 261 June 3,374 238 July 3,521 234 August 3,419 273 September 3,482 249 October 3,506 216 November 3,608 265 December 3,401 188 Average 3,3399 250 2000 January R 3,123 R 218 February R 3,481 R 510 March 3,342 R 260 April 3,533 R 234 May R 3,650 R 316 July 3,520 R 199 August R 3,678 R 234 September R 3,872 R 447 Average R 3,785 R 332 December R 3,872 R 447 Average R 3,666 778 February 3,621 668 March 3,487 343 Average R 3,651 R 302	-	-83	116	3,542	141	73	67
May 3,458 261 June 3,374 238 July 3,521 234 August 3,419 273 September 3,482 249 October 3,506 216 November 3,608 265 December 3,401 188 Average 3,399 250 2000 January R 3,123 R 218 February R 3,348 R 510 March 3,342 R 260 April 3,533 R 234 May R 3,650 R 316 June 3,481 R 258 July 3,520 R 199 August R 3,678 R 234 September R 3,872 R 447 Average R 3,785 R 332 December R 3,872 R 447 Average R 3,666 778 February 3,661 7 802 Average R 3,651 R 302	-	-513	159	3,785	125	69	56
June 3,374 238 July 3,521 234 August 3,419 273 September 3,482 249 October 3,506 216 November 3,608 265 December 3,401 188 Average 3,399 250 2000 January R 3,123 R 218 February R 3,348 R 510 March 3,342 R 260 April 3,533 R 234 May R 3,650 R 316 June 3,481 R 258 July 3,520 R 199 August R 3,678 R 234 September R 3,872 R 447 September R 3,872 R 447 Average R 3,870 R 295 November R 3,785 R 332 December R 3,860 R 295 2001 January 3,606 778 February 3,621 668 March 3,487 343 April	-	14	191	3,415	125	68	57
July 3,521 234 August 3,419 273 September 3,4419 273 September 3,442 249 October 3,506 216 November 3,608 265 December 3,401 188 Average 3,399 250 2000 January R 3,123 R 218 February R 3,348 R 510 March 3,342 R 260 April 3,533 R 234 May R 3,650 R 316 July 3,520 R 199 August R 3,678 R 234 September R 3,678 R 234 September R 3,678 R 324 Souther R 3,678 R 324 Voember R 3,678 R 234 September R 3,678 R 324 September R 3,678 R 322 December R 3,774 R 259 November R 3,785 R 332 December R 3,680 R 295	-	219	187	3,314	132	70	62
August 3,419 273 September 3,482 249 October 3,506 216 November 3,608 265 December 3,401 188 Average 3,399 250 2000 January R 3,123 R 218 February R 3,348 R 510 March 3,342 R 260 April 3,533 R 234 May R 3,650 R 316 Jule 3,481 R 258 July 3,620 R 199 August R 3,678 R 234 September R 3,872 R 447 September R 3,872 R 447 Average R 3,666 778 Pebruary 3,666 778 February 3,661 R 3,02	-	25	180	3,407	133	68	65
September 3,482 249 October 3,506 216 November 3,608 265 December 3,401 188 Average 3,399 250 2000 January R 3,123 R 218 February R 3,348 R 510 March 3,342 R 260 April 3,533 R 234 May R 3,650 R 316 June 3,481 R 258 July 3,520 R 199 August R 3,678 R 234 September R 3,844 R 258 July 3,520 R 199 August R 3,678 R 332 December R 3,785 R 332 December R 3,785 R 332 December R 3,785 R 322 December R 3,785 R 322 December R 3,780 R 295 2001 January 3,606 778 February 3,62	-	153	123	3,479	137	71	66
October 3,506 216 November 3,608 265 December 3,401 188 Average 3,399 250 2000 January R 3,123 R 218 February R 3,348 R 510 March 3,342 R 260 April 3,533 R 234 May 3,550 R 316 June 3,481 R 258 July 3,520 R 199 August R 3,678 R 234 September R 3,678 R 234 September R 3,678 R 234 October R 3,774 R 259 November R 3,785 R 332 December R 3,872 R 447 Average R 3,580 R 295 2001 January 3,606 778 February 3,621 668 March 3,487 343 April R 3,651 R 302 <td>-</td> <td>126</td> <td>130</td> <td>3,437</td> <td>141</td> <td>69</td> <td>73</td>	-	126	130	3,437	141	69	73
November 3,608 265 December 3,401 188 Average 3,399 250 2000 January R 3,123 R 218 February R 3,348 R 510 March 3,342 R 260 April 3,533 R 234 May R 3,650 R 316 June 3,481 R 258 July 3,520 R 199 August R 3,678 R 234 September R 3,678 R 234 September R 3,678 R 234 October R 3,774 R 259 November R 3,785 R 332 December R 3,872 R 447 Average R 3,580 R 295 2001 January 3,606 778 February 3,621 668 March 3,487 343 April R 3,651 R 302	-	139	162	3,431	145	73	72
November 3,608 265 December 3,401 188 Average 3,399 250 2000 January R 3,123 R 218 February R 3,348 R 510 March 3,342 R 260 April 3,533 R 234 May R 3,650 R 316 June 3,481 R 258 July 3,520 R 199 August R 3,678 R 234 September R 3,678 R 234 October R 3,774 R 259 November R 3,785 R 332 December R 3,872 R 447 Average R 3,580 R 295 2001 January 3,606 778 February 3,621 668 March 3,487 343 April R 3,651 R 302	-	-219	192	3,749	139	69	69
December 3,401 188 Average 3,399 250 2000 January R 3,123 R 218 February R 3,348 R 510 March 3,342 R 260 April 3,342 R 260 April 3,342 R 260 April 3,533 R 234 May R 3,650 R 316 June 3,481 R 258 July 3,520 R 199 August R 3,678 R 234 September R 3,678 R 234 October R 3,785 R 332 December R 3,872 R 447 Average R 3,606 778 February 3,661 78 663 March 3,487 343 April R	-	94	170	3,608	141	72	69
Average 3,399 250 2000 January R 3,123 R 218 February R 3,348 R 510 March 3,342 R 260 April 3,533 R 234 May R 3,650 R 316 June 3,481 R 258 July 3,520 R 199 August R 3,678 R 234 September R 3,844 R 283 October R 3,785 R 332 December R 3,872 R 447 Average R 3,620 R 295 2001 January 3,606 778 February 3,621 668 March 3,487 343 April R 3,651 R 302	-	-514	212	3,892	125	69	56
February R 3,348 R 510 March 3,342 R 260 April 3,533 R 234 May R 3,650 R 316 June 3,481 R 258 July 3,520 R 199 August R 3,678 R 234 September R 3,678 R 234 October R 3,774 R 259 November R 3,785 R 332 December R 3,872 R 447 Average R 3,606 778 February 3,621 668 March 3,487 343 April R 3,651 R 302	-	-84	162	3,572	125	69	56
February R 3,348 R 510 March 3,342 R 260 April 3,533 R 234 May R 3,650 R 316 June 3,481 R 258 July 3,520 R 199 August R 3,678 R 234 September R 3,678 R 234 October R 3,774 R 259 November R 3,785 R 332 December R 3,872 R 447 Average R 3,580 R 295 2001 January 3,606 778 February 3,621 668 March 3,487 343 April R 3,651 R 302	_	^R -609	132	^R 3,818	107	66	41
March 3,342 R 260 April 3,533 R 234 May R 3,650 R 316 June 3,481 R 258 July 3,520 R 199 August R 3,678 R 234 September R 3,844 R 283 October R 3,774 R 259 November R 3,785 R 332 December R 3,872 R 447 Average R 3,580 R 295 2001 January 3,606 778 February 3,621 668 March 3,487 343 April R 3,651 R 302	-	^R -49	112	^R 3,794	105	64	^R 41
April 3,533 R 234 May R 3,650 R 316 June 3,481 R 258 July 3,520 R 199 August R 3,678 R 234 September R 3,678 R 234 October R 3,774 R 259 November R 3,775 R 332 December R 3,785 R 332 December R 3,780 R 295 2001 January 3,606 778 February 3,621 668 March 3,487 343 April R 3,651 R 302	-	^R -302	211	^R 3,693	96	60	36
May R 3,650 R 316 June 3,481 R 258 July 3,520 R 199 August R 3,678 R 234 September R 3,678 R 234 October R 3,774 R 259 November R 3,774 R 259 November R 3,872 R 447 Average R 3,580 R 295 2001 January 3,606 778 February 3,621 668 March 3,487 343 April R 3,651 R	-	^R 135	178	^R 3,455	100	66	34
June 3,481 R 258 July 3,520 R 199 August R 3,678 R 234 September R 3,678 R 234 October R 3,774 R 259 November R 3,785 R 332 December R 3,872 R 447 Average R 3,580 R 295 2001 January 3,606 778 February 3,621 668 March 3,487 343 April R 3,651 R 302	-	^R 158	127	^R 3,681	105	67	^R 38
July 3,520 R 199 August R 3,678 R 234 September R 3,844 R 283 October R 3,774 R 259 November R 3,785 R 332 December R 3,872 R 447 Average R 3,580 R 295 2001 January 3,606 778 February 3,621 668 March 3,487 343 April R 3,651 R 302	-	^R 41	149	^R 3,549	106	68	38
August R 3,678 R 234 September R 3,678 R 234 October R 3,774 R 259 November R 3,785 R 332 December R 3,785 R 332 December R 3,872 R 447 Average R 3,606 778 February 3,621 668 March 3,487 343 April R 3,651 R	_	^R 219	132	^R 3,369	113	^R 72	41
September R 3,844 R 283 October R 3,774 R 259 November R 3,785 R 332 December R 3,872 R 447 Average R 3,580 R 295 2001 January 3,606 778 February 3,621 668 March 3,487 343 April R 3,651 R	_	^R -67	253	^R 3,726	111	66	44
October R 3,774 R 259 November R 3,785 R 332 December R 3,872 R 447 Average R 3,580 R 295 2001 January 3,606 778 February 3,621 668 March 3,487 343 April R 3,651 R 302	_	^R 147	194	^R 3,786	115	68	47
November R 3,785 R 332 December R 3,872 R 447 Average R 3,580 R 295 2001 January 3,606 778 February 3,621 668 March 3,487 343 April R 3,651 R 302	_	^R 66	255	^R 3,712	^R 117	68	^R 49
December R 3,872 R 447 Average R 3,580 R 295 2001 January 3,606 778 February 3,621 668 March 3,487 343 April R 3,651 R 302	_	^R 97	191	^R 3,829	^R 120	71	⁴³ ^R 49
Average R 3,580 R 295 2001 January 3,606 778 February 3,621 668 March 3,487 343 April R 3,651 R 302	_	^R -65	135	^R 4,250	118	72	46
February 3,621 668 March 3,487 343 April ^R 3,651 ^R 302	-	R -20	173	R 3,722	118	72	46
February 3,621 668 March 3,487 343 April ^R 3,651 ^R 302	_	5	97	4,281	118	68	50
March	-	-35	116	4,208	117	70	47
April R 3.651 R 302	-	-395	101	4,124	105	68	37
May E2,000 E002	_	R 3	^R 139	^R 3,811	^R 105	^R 67	38
May [⊾] 3,632 [⊾] 228	_	E 168	E 146	E 3,546	E 108	E 65	E 43
5-Month Average ^E 3,599 ^E 461	_	E -52	E 120	^E 3,991	E 108	E 65	E 43
2000 5-Month Average 3,399 305 1999 5-Month Average 3,295 269	-	-136 -161	152 155	3,688 3,571	105 132	67 70	38 62

Table 3.5 Distillate Fuel Oil Supply and Disposition

^a Stocks are at end of period. Distillate fuel oil stocks in the "Northeast

Heating Oil Reserve" are not included. ^b Beginning in January 1983, crude oil used directly as distillate fuel oil is reported as crude oil product supplied on Table 3.2b rather than as distillate

fuel oil product supplied. ^c A negative number indicates a decrease in stocks and a positive number indicates an increase. ^d By weight.

e See Note 6 at end of section.

^f See Note 4 at end of section.

^g See Note 3 at end of section.

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

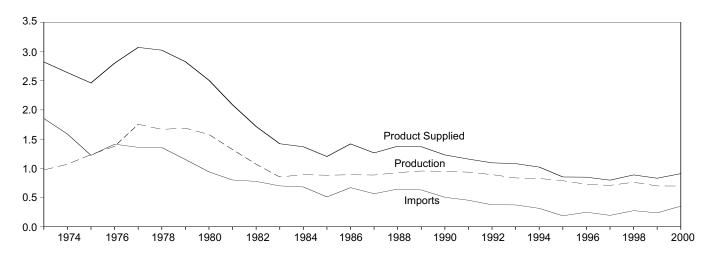
Totals may not equal sum of components due to independent Notes: rounding. Geographic coverage is the 50 States and the District of Columbia.

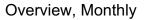
Sources: **1973-1980:** Energy Information Administration (EIA), *Petroleum Supply Monthly*, February 1993, Table S5. **1981 forward:** EIA, *Petroleum Supply Monthly*, June 2001, Table S5.

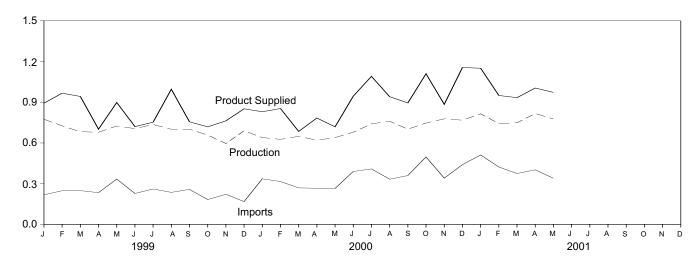
Figure 3.4 Residual Fuel Oil

(Million Barrels per Day, Except as Noted)

Overview, 1973-2000





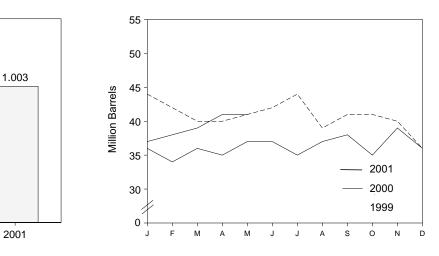


Product Supplied, January-May

0.88

1999

Stocks, End of Month



Note: Because vertical scales differ, graphs should not be compared. Source: Table 3.6.

0.773

2000

1.5

1.2

0.9

0.6

0.3

0.0

		Supply			Disposition		
-	Total Production	Imports	Crude Oil Used Directly ^a	Stock Change ^b	Exports	Product Supplied ^a	Stocks ^c
	·		Thousand Ba	rrels per Day	•		Million Barrels
1072 Average	971	1,853	17	-5	23	2,822	53
1973 Average 1974 Average	1,070	1,587	13	-5 17	23 14	2,639	d 60
1975 Average	1,235	1,223	15	d -2	15	2,462	74
1976 Average	1,377	1,413	17	-5	12	2,801	72
1977 Average	1,754	1,359	13	48	6	3,071	90
1978 Average	1,667	1,355	13	1	13	3,023	90
1979 Average	1,687	1,151	12	15	9	2,826	96
1980 Average	1,580	939	12	-10	33	2,508	d 92
1981 Average ^e	1,321	800	48	^d -37	118	2,088	78
1982 Average	1,070	776	48	-32	209	1,716	d 66
1983 Average	852	699	-	^d -55	185	1,421	49
1984 Average	891	681	-	12	190	1,369	53
1985 Average	882	510	-	-7	197	1,202	50
1986 Average	889	669	-	-8	147	1,418	47
1987 Average	885	565	-	(s)	186	1,264	47
1988 Average	926	644	-	-8	200	1,378	45
1989 Average	954	629	-	-2	215	1,370	44
1990 Average	950	504	-	13	211	1,229	49
1991 Average	934	453	-	4	226	1,158	50
1992 Average	892	375	-	-20	193	1,094	43
1993 Average	835	373	-	4	123	1,080	44
1994 Average	826	314	-	-6	125	1,021	42
1995 Average	788	187	-	-13	136	852	37
1996 Average	726	248	-	24	102	848	46
1997 Average	708	194	-	-15	120	797	40
1998 Average	762	275	-	12	138	887	45
1999 January	775	218	-	-33	133	893	44
February	726	248	-	-62	70	967	42
March	683	249	-	-84	72	943	40
April	679	234	-	26	185	702	40
May	725	334	-	9	153	898	41
June	706	228	-	63	151	721	42
July	736	261	-	62	182	753	44
August	701	236	-	-183	124	996 75 6	39
September	702 658	258 183	_	68 -7	136 130	756 719	41
October November	596	222	_	-7 -5	60	763	41 40
December	690	168	_	-147	154	852	36
Average	698	237	_	-25	129	830	36
Average	030	251	_	-25	125	030	50
2000 January	^R 640	^R 336	_	^R 10	137	^R 830	36
February	^R 627	^R 316	_	^R -60	149	^R 854	34
March	^R 649	^R 269	-	^R 66	167	^R 685	36
April	^R 620	^R 267	-	^R -37	139	^R 784	35
May	^R 640	^R 265	-	^R 63	123	^R 719	37
June	^R 679	^R 390	-	^R -8	133	^R 945	37
July	^R 741	^R 409	-	^R -54	113	^R 1,091	35
August	^R 760	^R 333	-	^R 57	94	^R 941	37
September	702	^R 360	-	^R 19	148	^R 895	38
October	^R 747	^R 497	-	^R -87	221	^R 1,110	35
November	^R 778	^R 341	-	^R 133	100	^R 885	39
December	^R 768	^R 440	-	^R -90	143	^R 1,156	36
Average	^R 696	^R 352	-	^R 1	139	^R 909	36
2001 January	815	512	_	35	141	1,151	37
February	743	423	-	46	171	950	38
March	749	375	_	24	166	934	39
April	^R 817	^R 402	-	^R 54	^R 160	^R 1,005	_ 41
May	E 777	^E 340	-	^E 15	^E 129	_ ^E 973	^E 41
5-Month Average	^E 781	^E 410	-	^E 34	^E 153	^E 1,003	^E 41
2000 5-Month Average 1999 5-Month Average	636 718	290 257	-	10 -29	143 123	773 880	37 41

Table 3.6 Residual Fuel Oil Supply and Disposition

^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 b A negative number indicates a decrease in stocks and a positive number ^e See Note 3 at end of section.

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

indicates an increase.

^c Stocks are at end of period.

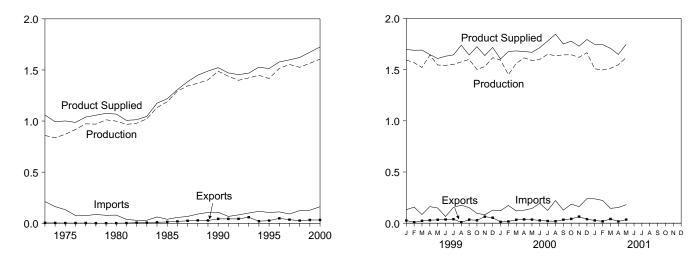
^d See Note 4 at end of section.

Note: Geographic coverage is the 500 States and the District of Columbia. Sources: **1973-1980**: Energy Information Administration (EIA), *Petroleum Supply Monthly*, February 1993, Table S6. **1981 forward:** EIA, *Petroleum Supply Monthly*, June 2001, Table S6.

Figure 3.5 Jet Fuel

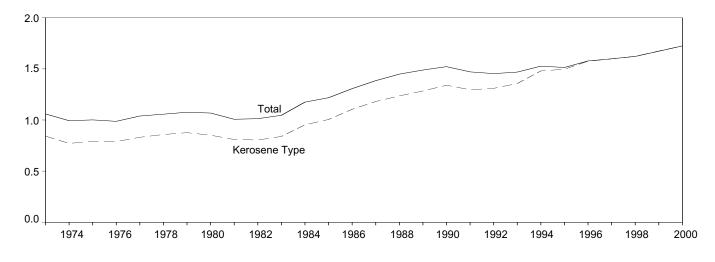
(Million Barrels per Day, Except as Noted)

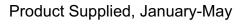
Overview, 1973-2000

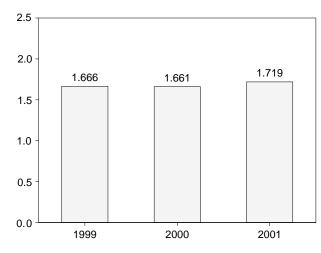


Overview, Monthly

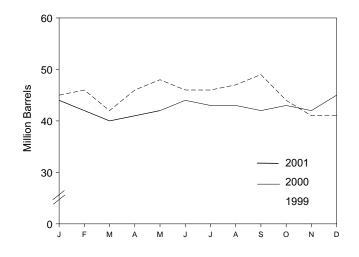
Product Supplied by Type, 1973-2000







Stocks, End of Month



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

		Supply				sposition			
	Р	roduction		01		Prod	luct Supplied		Stocks ^a
	Total	Kerosene Type	Imports	Stock Change ^b	Exports	Total	Kerosene Type	Total	Kerosene Type
			Thous	and Barrels p	ber Day			Mi	llion Barrels
1973 Average	859	679	212	8	4	1,059	842	29	23
1974 Average	836	641	163	2	3	993	771	^с 29	^c 24
1975 Average	871	691	133	с 2	2	1,001	791	30	25
1976 Average	918	731	76	5	2	987	789	32	26
1977 Average	973	787	75	7	2	1,039	831	35	28
1978 Average	970	791	86	-2	1	1,057	858	34	28
1979 Average	1,012	835	78	13	1	1,076	876	39	33
1980 Average	999	811	80	10	1	1,068	851	^c 42	^c 36
1981 Average	968	775	38	^c -4	2	1,007	809	41	34
1982 Average	978	778	29	-12	6	1,013	804	^C 37	^c 31
1983 Average	1,022	817	29	^с (s)	6	1,046	839	39	32
1984 Average	1,132	919	62	9	9	1,175	953	42	35
1985 Average	1,189	983	39	-4	13	1,218	1,005	40	34
1986 Average	1,293	1,097	57	25	18	1,307	1,105	50	43
1987 Average	1,343	1,138	67	(s)	24	1,385	1,181	50	42
1988 Average	1,370	1,164	90	-17	28	1,449	1,236	44	38
1989 Average	1,403	1,197	106	-8	27	1,489	1,284	41	34
1990 Average	1,488	1,311	108	31	43	1,522	1,340	52	46
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	26	1,514	1,497	40	39
1996 Average	1,515	1,513	111	(s)	48	1,578	1,575	40	40
1997 Average	1,554	1,554	91	11	35	1,599	1,598	44	44
1998 Average	1,526	1,525	124	2	26	1,622	1,623	45	45
1000	4 504	4 504	400	2	00	4 007	4 000	45	45
1999 January	1,594	1,594	132	3	26	1,697	1,698	45	45
February	1,567	1,566	157	26	9	1,689	1,689	46	45
March	1,521	1,520	85	-109	23	1,691	1,692	42	42
April	1,642	1,641	162	126	29	1,647	1,652	46	46
May	1,545	1,545	148	51	33	1,609	1,609	48	47
June	1,542	1,541	65	-60	36	1,631	1,640	46	46
July	1,551	1,550	155	22	39	1,644	1,648	46	46
August	1,575	1,575	176	_3	9	1,739	1,739	47	46
September	1,600	1,600	152	74	34	1,643	1,645	49	49
October	1,501	1,500	97	-154	28	1,724	1,725	44	44
November	1,530	1,530	82	-89	64	1,637	1,640	41	41
December	1,616	1,615	128	-25	53	1,717	1,717	41	40
Average	1,565	1,565	128	-11	32	1,673	1,675	41	40
2000 January	^R 1.595	^R 1,595	^R 122	^R 99	13	^R 1.604	^R 1.604	^R 44	^R 44
February	1,450	1,450	R 173	^R -70	17	^R 1,676	^R 1,677	44	^R 41
March	1,561	1,561	R 120	^R -35	33	^R 1,683	^R 1,682	40	40
April	1,615	1,615	R 127	^R 28	37	^R 1,677	^R 1.677	40	40
May	1,589	1,589	R 144	R 28	35	^R 1,669	^R 1,669	41	41
June	^R 1,600	^R 1,600	^R 194	^R 52	27	^R 1,715	^R 1,715	42	42
	1,650	1.010	R 125	^R -25	21	^R 1,779	^R 1,779	44	44 43
July August	1,636	1,649 1,636	^R 221	-23	19	^R 1,846	^R 1,846	43	43
September	^R 1,644	1,643	^R 128	-0 ^R -13	34	^R 1,750	^R 1,750	43	43
October	^R 1,645	1,645	^R 186	^R 12	42	^R 1,778	^R 1,778	43	43
November	1,620	1,620	^R 162	^R -11	64	^R 1,729	^R 1,729	43	43
December	1,665	1,665	R 239	^R 71	39	^R 1,794	^R 1,796	42	42
Average	^R 1,606	^R 1,606	R 162	R 11	32	^R 1,725	R 1,725	45	44
	.,	.,000		••	~	.,	.,. 20		
2001 January	1,508	1,508	238	-27	27	1,746	1,747	44	44
February	1,497	1,497	222	-44	18	1,744	1,743	42	42
March	1,513	1,513	145	-91	41	1,708	1,708	40	40
April	^R 1,547	^R 1,546	^R 153	^R 35	^R 17	^R 1,648	^R 1,648	41	41
May	^E 1,618	E 1,618	^E 181	E 17	^E 35	E 1,747	E 1,747	^E 42	E 42
5-Month Average	E 1,537	^E 1,537	E 187	E -22	E 28	E 1,719	^E 1,́718	^E 42	E 42
0000 C Marstle Asso	4 500	4 500	40-		<u>~</u>	4			
2000 5-Month Average	1,563	1,563	137	11	27	1,661	1,661	42	42
1999 5-Month Average	1,573	1,573	136	19	24	1,666	1,668	48	47

 ^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

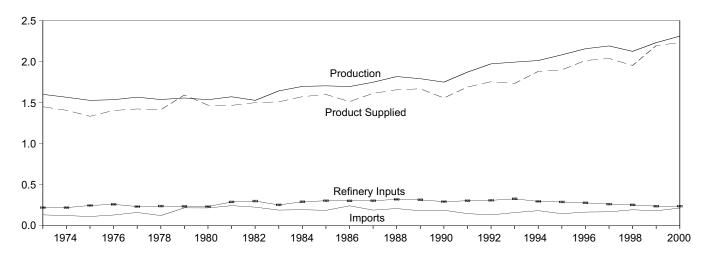
than -500 barrels per day.

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

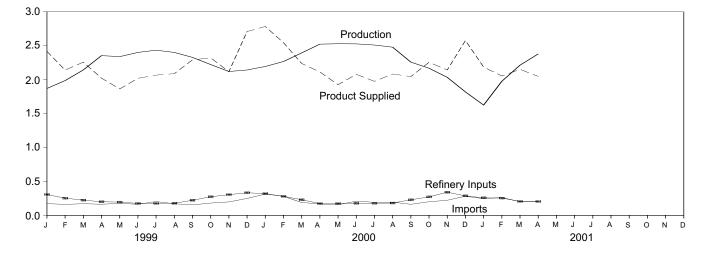
Figure 3.6 Liquefied Petroleum Gases

(Million Barrels per Day, Except as Noted)

Overview, 1973-2000

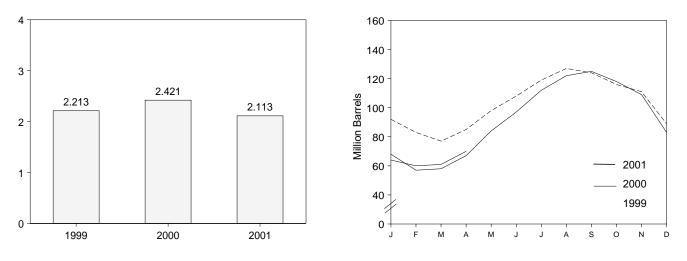






Product Supplied, January-April

Stocks, End of Month



Note: Because vertical scales differ, graphs should not be compared. Source: Table 3.8.

	Sup	ply		Dispo	sition		_
	Total Production	Imports	Stock Change ^a	Refinery Inputs	Exports	Product Supplied	Stocks ^b
			Thousand Ba	arrels per Day			Million Barrels
973 Average	1,600	132	35	220	27	1,449	99
	1,565	123	38	220	25	1,406	⁰ 113
974 Average			с 35				
975 Average	1,527	112		246	26	1,333	125
976 Average	1,535	130	-24	260	25	1,404	116
977 Average	1,566	161	55	233	18	1,422	136
978 Average	1,537	123	-12	239	20	1,413	^c 132
979 Average	1,556	217	^с -70	236	15	1,592	111
980 Average	1,535	216	27	233	21	1,469	^с 120
981 Average	1,571	244	^с 18	289	42	1,466	135
982 Average	^d 1,527	226	-111	300	65	1,499	^с 94
983 Average	1,642	190	с -4	253	73	1,509	^с 101
984 Average	1,697	195	^c -19	291	48	1,572	101
985 Average	1,704	187	-75	304	62	1,599	74
986 Average	1,695	242	80	302	42	1,512	103
987 Average	1,748	190	-15	302	38	1,612	97
	1,817	209	-13	304	49	1,656	97
988 Average		181	-47	315	49 35		80
989 Average	1,791					1,668	
990 Average	1,749	188	48	293	40	1,556	98
991 Average	1,871	147	-15	304	41	1,689	92
992 Average	1,972	131	-10	309	49	1,755	89
993 Average	1,993	160	49	327	43	1,734	106
994 Average	2,012	183	-19	296	38	1,880	99
995 Average	2,082	146	-17	289	58	1,899	93
996 Average	2,156	166	-19	278	51	2,012	86
997 Average	2,190	169	9	263	50	2,038	89
998 Average	2,124	194	70	253	42	1,952	115
999 January	1,871	173	-757	308	75	2,417	92
February	1,987	163	-311	254	64	2,142	83
March	2,144	172	-200	225	32	2,258	77
April	2,355	165	276	201	21	2,023	85
May	2,340	177	424	196	33	1,864	98
	2,340	164	331	190	37	2,021	108
June							
July	2,435	204	354	177	39	2,068	119
August	2,402	172	259	179	47	2,089	127
September	2,329	155	-89	223	58	2,293	124
October	2,223	182	-273	275	81	2,322	116
November	2,121	199	-151	306	47	2,118	111
December	2,143	250	-712	334	61	2,710	89
Average	2,230	182	-71	238	50	2,195	89
000 January	^R 2,195	^R 315	^R -696	^R 321	101	^R 2,784	^R 68
February	^R 2,268	^R 281	^R -359	^R 281	81	^R 2,546	^R 57
March	2,395	^R 190	^R 6	^R 231	109	^R 2,239	58
April	^R 2,524	^R 169	R 330	^R 174	75	^R 2,114	^R 67
May	R 2,530	R 157	548	^R 175	38	^R 1,927	^R 84
June	^R 2,528	R 209	R 410	^R 179	69	R 2,079	^R 97
July	^R 2,511	^R 193	^R 486	^R 180	63	^R 1,976	112
	^R 2,479	^R 195	R 333	^R 182	76	^R 2,084	^R 122
August	Z,4/3 R 2 250	^R 164	^R 84	R 230		Z,004 R 2 046	^R 125
September	^R 2,259				62	^R 2,046	
October	2,169	^R 201	^R -225	R 273	65	^R 2,257	^R 118
November	2,035	^R 223	^R -299	^R 342	72	^R 2,143	^R 109
December	^R 1,820	^R 283	^R -843	_ 288	81	^R 2,577	R 83
Average	^R 2,310	^R 215	^R -19	^R 238	74	^R 2,231	^R 83
001 January	1,626	247	-647	259	75	2,186	64
February	1,977	263	-129	255	59	2,055	60
March	2,214	203	27	206	33	2,152	61
April	2,380	205	296	205	35	2,049	70
4-Month Average	2,048	200	-117	200	50	2,045	70
000 4-Month Average	2,346	239	-181	252	92	2,421	67

Table 3.8 Liquefied Petroleum Gases Supply and Disposition

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

R=Revised.

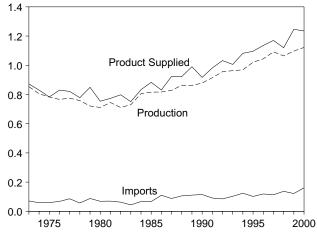
Notes: Liquefied petroleum gases include ethane, ethylene, propane,

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

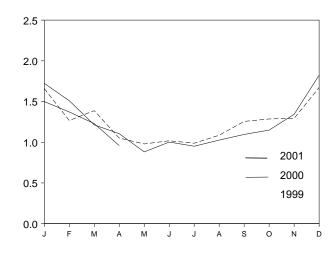
Figure 3.7 Propane and Propylene

(Million Barrels per Day, Except as Noted)

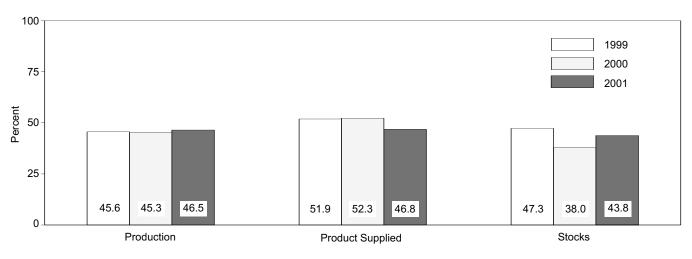
Overview, 1973-2000



Product Supplied, Monthly

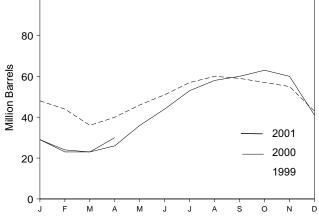


Share of Liquefied Petroleum Gases, April

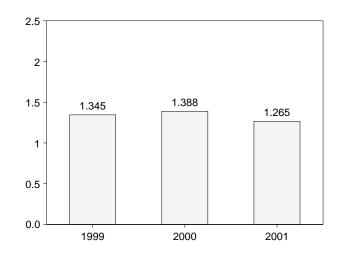


100

Stocks, End of Month



Product Supplied, January-April



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

Sources: Table 3.9 and, for calculation of shares, data prior to rounding for publication in Tables 3.8 and 3.9.

	Sup	ply		Dispo	sition		
	Total Production	Imports	Stock Change ^a	Refinery Inputs	Exports	Product Supplied	Stocks ^b
			Thousand Ba	arrels per Day			Million Barrels
1973 Average	854	71	30	8	15	872	65
1974 Average	805	59	11	9	14	830	69
1975 Average	783	60	36	11	13	783	82
1976 Average	766	68	-22	12	13	830	74
1977 Average	775	86	21	10	10	821	81
1978 Average	758	57	15 ° -61	13 14	9 8	778	^с 87
1979 Average	721 711	88 69	° -61 4	14	。 10	849 754	64 ° 65
1980 Average 1981 Average	745	70	، 18	5	18	773	76
1982 Average	711	63	-59	4	31	798	° 54
1983 Average	730	44	^c -24	4	43	751	^c 48
1984 Average	806	67	°7	4	30	833	58
1985 Average	816	67	-50	3	48	883	39
1986 Average	817	110	64	4	28	831	63
1987 Average	828	88	-41	8	24	924	48
1988 Average	863	106	7	8	31	923	50
1989 Average	862 878	111 115	-52 48	11	24 28	990 917	32 49
1990 Average 1991 Average	915	91	-3	(s) (s)	28	982	49 48
1992 Average	956	85	-24	(s)	33	1,032	39
1993 Average	963	103	34	(s)	26	1,006	51
1994 Average	969	124	-13	0	24	1,082	46
1995 Average	1,021	102	-10	0	38	1,096	43
1996 Average	1,044	119	(s)	0	28	1,136	43
1997 Average	1,092	113	3	0	32	1,170	44
1998 Average	1,064	137	56	0	25	1,120	65
1999 January	1,041	118	-550	0	50	1,659	48
February	1,050	125	-133	0	41	1,267	44
March	1,031 1,073	135 116	-240 126	0	19 13	1,388 1,051	36 40
April May	1,075	98	183	0	20	979	40
June	1,105	92	156	Ő	23	1,018	51
July	1,107	122	213	Õ	27	988	57
August	1,112	113	108	0	32	1,086	60
September	1,134	108	-34	0	20	1,256	59
October	1,132	125	-93	0	65	1,286	57
November	1,127	136	-64	0	34	1,293	55
December	1,169	178	-375	0	49	1,672	43
Average	1,097	122	-59	0	33	1,246	43
2000 January	^R 1,133	R 244	^R -439	0	94	^R 1,723	^R 29
February		R 221 R 142	^R -215 ^R -19	0	53	R 1,510	23
March	^R 1,136	^R 142 ^R 125	∽-19 ^R 101	0	84 62	^R 1,213 ^R 1,105	23 26
April May	1,143 ^R 1,153	^R 102	^R 347	0	62 27	^R 881	^R 36
June	^R 1,163	^R 132	R 252	0	40	^R 1,002	44
July	^R 1,133	^R 125	^R 278	Ő	28	^R 951	53
August	^R 1,123	^R 124	^R 166	0	55	^R 1,026	58
September	^R 1,110	^R 114	^R 87	0	41	^R 1,096	^R 60
October	1,103	^R 167	^R 80	0	41	^R 1,149	63
November	1,112	^R 189	^R -97	0	55	^R 1,343	60
December	1,031 B 4 4 2 2	^R 248	^R -603	0	58	^R 1,823	41
Average	^R 1,122	^R 161	^R -5	0	53	^R 1,235	41
2001 January		213	-403	0	62	1,499	29
February	1,031	222	-160	0	41	1,372	24
March	1,069	151	-31	0	22	1,229	23
April 4-Month Average	1,106 1,038	105 172	234 -91	0 0	18 36	959 1,265	30 30
-							
2000 4-Month Average 1999 4-Month Average	1,135 1,049	183 124	-144 -204	0 0	74 31	1,388 1,345	26 40

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

^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.

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

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

Sources: **1973 through 1975:** U.S. Department of the Interior, Bureau of Mines, *Mineral Industry Surveys*, "Petroleum Statement, Annual." **1976 through 1980:** Energy Information Administration (EIA), *Energy Data Reports*, Petroleum Statement, Annual." **1981 forward:** EIA, *Petroleum* Supply Monthly, June 2001, Table S8.

	Sup	ply		Dispo	sition		
	Total Production	Imports	Stock Change ^a	Refinery Inputs	Exports	Products Supplied	Stocks ^b
			Thousand Ba	arrels per Day			Million Barrels
973 Average	2,833	290	1	750	162	2,211	179
974 Average	2,722	269	25	665	172	2,129	c 188
975 Average	2,547	144	°-6	537	158	2,001	188
976 Average	2,725	129	(s)	524	172	2,158	188
977 Average	2,939	130	20	514	164	2,371	195
		80	-12	492	165		
978 Average	3,076		-12 24	492 352		2,511	191
979 Average	3,141	116			208	2,673	200
980 Average	2,957	130	15	310	197	2,566	° 205
981 Average	2,771	188	^c -42	723	197	2,081	241
982 Average	2,475	305	-68	787	205	^d 1,857	^c 216
983 Average	2,437	382	° -6	712	236	1,877	^c 217
984 Average	2,500	503	^c -32	791	236	2,007	198
985 Average	2,532	550	22	886	227	1,947	206
986 Average	2,704	504	-15	888	291	2,045	201
987 Average	2,737	543	-1	829	264	2,187	200
988 Average	2,773	645	22	799	294	2,303	208
989 Average	2,771	627	12	797	305	2,285	213
990 Average	2,842	705	-32	887	289	2,402	201
991 Average	2,826	675	18	936	203	2,269	208
992 Average	2,928	707	-3	906	263	2,203	° 207
	e3,035	770	-3 د-2	1,081	e300	^e 2,426	206
993 Average			—				
994 Average	2,973	761	24	861	329	2,518	215
995 Average	3,031	708	-23	958	348	2,457	206
996 Average	3,108	879	-11	1,014	376	2,608	202
997 Average	3,204	945	30	985	402	2,733	213
997 Average	3,204	945	30	985	402	2,733	213
998 Average	3,253	888	18	1,002	380	2,741	219
999 January	3,097	891	390	759	307	2,532	232
February	3,159	900	276	775	272	2,736	239
March	3,145	815	375	593	302	2,691	251
April	3,108	1,067	-76	1,041	352	2,859	249
May	3,363	1,007	21	1,427	321	2,602	249
June	3,216	1,132	-520	1,387	311	3,170	234
July	3,271	981	-302	1,295	325	2,935	224
August	3,465	1,040	-190	1,083	359	3,253	218
	3,373	981	-139	1,083	345	3,054	218
September							
October	3,124	929	-192	1,105	327	2,812	208
November	3,120	743	-110	856	396	2,722	205
December	3,083	835	-292	1,300	439	2,470	196
Average	3,211	943	-64	1,061	338	2,819	196
000 January	^R 2,802	^R 977	^R 314	^R 808	319	^R 2,338	_ 206
February	^R 2,945	^R 994	^R 358	^R 710	397	^R 2,473	^R 216
March	^R 3,001	^R 1,019	^R 205	^R 817	387	^R 2,612	R 222
April	^R 3,146	^R 948	^R 174	^R 1,041	468	^R 2,411	R 228
May	^R 3,272	^R 1,009	^R -158	^R 1,117	372	^R 2,949	223
June	^R 3,427	^R 997	^R -143	^R 1,188	438	^R 2,941	^R 218
	^R 3,454	^R 828	R 38	^R 959		^R 2,839	
July		B coc		R 4 005	446	∠,039 B 2,070	220
August	^R 3,341	^R 826	-328 B 450	^R 1,095	421	R 2,979	210
September	^R 3,319	^R 1,032	^R -159	^R 1,192	415	R 2,904	205 R 204
October	^R 3,202	^R 797	R -9	^R 998	484	^R 2,525	^R 204
November	^R 3,135	^R 868	_ ^R 8	^R 1,128	509	^R 2,358	205
December	^R 2,798	^R 971	^R 76	^R 835	490	^R 2,368	207
Average	^R 3,154	^R 938	^R 30	^R 991	429	^R 2,642	207
01 January	2,704	1,079	394	434	483	2,471	220
February	2,982	1,003	566	482	499	2,438	236
March	2,806	1,040	158	770	435	2,495	230
		971					
April 4-Month Average	2,946 2,856	971 1,024	16 279	919 653	451 463	2,531 2,484	241 241
6		-					
000 4-Month Average	2,973	985	262	845	392	2,459	228

Table 3.10 Other Petroleum Products Supply and Disposition

^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.

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

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

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

Petroleum Notes

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

In January 1984, changes were made in the reporting of natural gas liquids. As a result, unfractionated stream, which was formerly included in the "Other Petroleum Products Supply and Disposition" table, is now reported on a component basis (ethane, propane, normal butane, isobutane, and pentanes plus). Most of these stocks now appear in the "Liquefied Petroleum Gases Supply and Disposition" table. This change affects stocks reported and stock change calculations in each table. Under the new basis, end-of-year 1983 stocks, in million barrels, would have been: 108 for liquefied petroleum gases, 55 for propane and propylene, and 210 for other petroleum products.

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

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

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

Table	Data Series	Year Average	<i>MER</i> Data	PSA and PSM Data
3.1a	Natural Gas Plant Production	1976	1,604	1,603
3.1b	Exports, Total	1979	471	472
3.1b	Exports, Petroleum Products	1979	236	237
3.1b	Net Imports	1979	7,985	7,984
3.2a	Crude Used Directly	1976	-19	-18
3.2a	Imports, SPR	1978	161	162
3.2a	Crude Used Directly	1978	-15	-14
3.2a	Crude Used Directly	1979	-14	-13
3.2a	Crude Used Directlý	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
3.2b 3.5 3.5 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 May 2001 was forecast as 1.7 trillion cubic feet, 3 percent higher than production during May 2000.

Consumption of natural and supplemental gas in May 2001 was forecast as 1.7 trillion cubic feet, slightly lower than the level in May 2000.

Deliveries to residential consumers in May 2001 were forecast as 245 billion cubic feet, 9 percent higher than the previous May's deliveries. Total deliveries to industrial consumers during May 2001 were forecast as 796 billion cubic feet, 2 percent higher than the previous May's level. Net imports of natural gas in May 2001 were forecast as 320 billion cubic feet, 19 percent higher than net imports in the previous May.

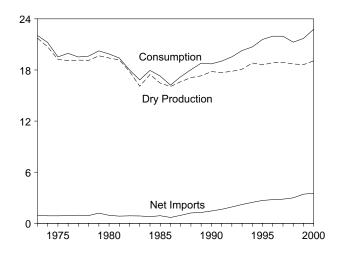
Stocks of working gas¹ in underground natural gas storage reservoirs at the end of May 2001 were forecast as 1.5 billion cubic feet, 4 percent higher than the level of stocks available 1 year earlier.

Net injections into underground storage during May 2001 were forecast as 475 billion cubic feet, 105 percent higher than the amount of net injections during May 2000.

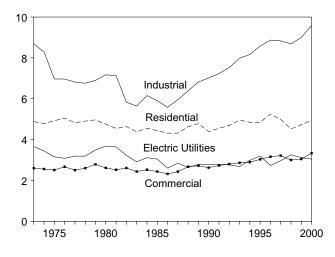
Figure 4.1 Natural Gas

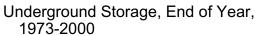
(Trillion Cubic Feet)

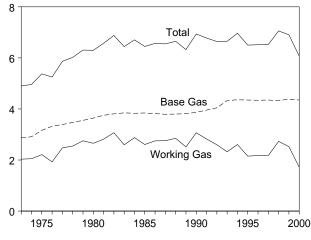
Overview, 1973-2000



Consumption by Sector, 1973-2000

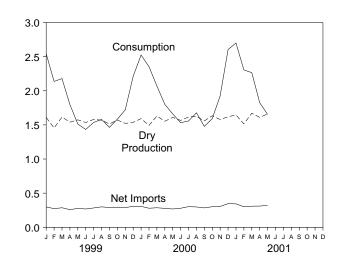




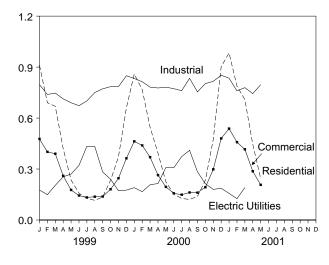


Note: Because vertical scales differ, graphs should not be compared. Sources: Tables 4.1, 4.4, and 4.5.

Overview, Monthly



Consumption by Sector, Monthly



Underground Storage, End of Month

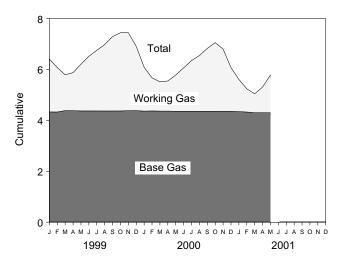


Table 4.1 Natural Gas Overview

(Billion Cubic Feet)

	Dry Gas Production ^a	Supplemental Gaseous Fuels ^b	Net Imports ^c	Net Withdrawals From Storage ^d	Balancing Item ^e	Consumption
973 Total	^g 21,731	NA	956	-442	-196	22,049
974 Total	⁹ 20,713	NA	882	-84	-289	21,223
975 Total	⁹ 19,236	NA	880	-344	-235	19,538
976 Total	⁹ 19,098	NA	899	165	-216	19,946
977 Total	⁹ 19,163	NA	955	-557	-41	19,521
978 Total	⁹ 19,122	NA	913	-120	-287	19,627
979 Total	⁹ 19,663	NA	1,198	-248	-372	20,241
980 Total	19,403	155	936	23	-640	19,877
981 Total	19,181	176	845	-297	-500	19,404
982 Total	17.820	145	882	-308	9-537	18,001
983 Total	16,094	132	864	447	^g -703	16,835
984 Total	17,466	110	788	-197	-217	17,951
985 Total	16,454	126	894	235	-428	17,281
986 Total	16,059	113	689	-147	-493	16,221
987 Total	16,621	101	939	-6	-444	17,211
988 Total	17,103	101	1,220	-0	-444	18,030
089 Total	17,311	107	1,275	326	-433	18,801
990 Total	17,810	123	1,447	-513	-150	18,716
991 Total	17,698	123	1,644	-515	-500	19,035
	17,840	113	1,644	80 173	-500	19,035
992 Total						
993 Total	18,095	119	2,210	-36	-110	20,279
994 Total	18,821	111	2,462	-286	-400	20,708
995 Total	18,599	110	2,687	415	-230	21,581
96 Total	18,854	109	2,784	2	217	21,966
97 Total	18,902	103	2,837	24	92	21,959
998 Total	18,708	102	2,993	-530	-11	21,262
99 January	1,609	10	298	659	-35	2,542
February	1,455	8	273	339	61	2,137
March	1,616	9	286	314	-46	2,178
April	1,540	8	258	-96	87	1,797
May	1,574	8	277	-358	11	1,513
June	1,535	6	268	-327	-49	1,433
July	1,580	8	283	-231	-103	1,536
August	1,569	8	299	-236	-60	1,580
September	1,515	7	290	-335	-12	1,464
October	1,571	8	294	-165	-124	1,584
	1,522	8	287	34	-130	1,721
November		10				
December Total	1,537 18,623	98	308 3,422	573 171	-216 -612	2,212 21,703
	,	_				,
00 January	^{RE} 1,592	^E 10	307	780	^R -166	^R 2,524
February	^{RE} 1,493	E 9	279	454	^R 119	2,353
March	^{RE} 1,630	E 8	286	162	^R 16	^R 2,070
April	^{RE} 1,553	E 7	277	-36	^R -1	^R 1,801
May	^{RE} 1,610	E 7	268	-232	^R 8	^R 1,661
June	^{RE} 1,566	^E 6	279	-272	^R -46	^R 1,533
July	^{RE} 1,616	^E 8	302	-290	^R -79	^R 1,557
August	^{RE} 1,626	E 8	298	-193	^R -60	^R 1,678
September	RE 1.558	E 7	284	-282	^R -89	^R 1,478
October	E 1,634	E 8	301	-227	^R -124	^R 1,592
November	^{RE} 1,579	E 9	305	293	^R -261	^R 1,924
December	^{RE} 1,619	E 10	346	690	^R -62	R 2,603
Total	RE 19,076	E 98	3,533	845	R -777	R 22,775
01 January	^{RE} 1.645	^E 10	^E 343	467	^R 235	^R 2.699
01 January	RE 4 545			467		
February	RE 1,515	E 8	RE 301	338	^R 145	R 2,306
March	E 1,671	RE 9	RE 309	^R 181	RE 96	RF 2,265
April	F 1,610	F9	^{RF} 311	^{RF} -267	^{RF} 164	F 1,826
May	F 1,661	F 8	F 320	F-475	F 139	_ ^F 1,653
5-Month Total	^E 8,101	^E 43	^E 1,584	^E 243	^E 778	^E 10,749
000 5-Month Total	^E 7,877	^E 42	1,417	1,128	-56	10,408

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

^a "Marketed Production (west) initial and a section.
 ^b See Note 4 at end of section.
 ^c "Imports" minus "Exports." See Table 4.3.
 ^d "Withdrawals" minus "Injections." Data for 1980-1999 cover underground storage and liquefied natural gas storage. All other time periods cover underground storage only. See also Note 8 at end of section.

underground storage only. See also Note 8 at end of section. ^e See Note 7 at end of section. Since 1980, excludes transit shipments that cross the U.S.-Canada border (i.e., natural gas delivered to its destination

via the other country). ^f See Note 6 at end of section.

^g May include unknown quantities of nonhydrocarbon gases.

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

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

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

Table 4.2 Natural Gas Production

(Billion Cubic Feet)

	Gross Withdrawals ^a	Repressuring ^b	Nonhydro- carbon Gases Removed ^c	Vented and Flared ^d	Marketed Production ^e	Extraction Loss ^f	Dry Gas Production
		-		11			
973 Total	24,067	1,171	NA	248	^h 22,648	917	^h 21,731
974 Total	22,850	1,080	NA	169	^h 21,601	887	^h 20,713
975 Total	21,104	861	NA	134	^h 20,109	872	^h 19,236
976 Total	20,944	859	NA	132	^h 19.952	854	^h 19.098
977 Total	21,097	935	NA	137	^h 20,025	863	^h 19,163
978 Total	21,309	1,181	NA	153	^h 19,974	852	^h 19,122
979 Total	21,883	1,245	NA	167	^h 20,471	808	^h 19,663
	21,803			125			
980 Total		1,365	199		20,180	777	19,403
981 Total	21,587	1,312	222	98	19,956	775	19,181
982 Total	20,272	1,388	208	93	18,582	762	17,820
983 Total	18,659	1,458	222	95	16,884	790	16,094
984 Total	20,267	1,630	224	108	18,304	838	17,466
985 Total	19,607	1,915	326	95	17,270	816	16,454
986 Total	19,131	1,838	337	98	16,859	800	16,059
987 Total	20,140	2,208	376	124	17,433	812	16,621
988 Total	20,999	2,478	460	143	17,918	816	17,103
89 Total	21,074	2,475	362	142	18,095	785	17,311
990 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
92 Total	22,132	2,973	280	168	18,712	872	17,840
93 Total	22,726	3,103	414	227	18,982	886	18,095
94 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
996 Total	24,114	3,511	518	272	19,812	958	18,854
97 Total	24,213	3,492	599	256	19,866	964	18,902
98 Total	23,924	3,433	611	234	19,646	938	18,708
99 January	2,064	296	54	21	1,693	84	1,609
February	1,878	280	49	19	1,531	76	1,455
March	2,070	298	51	20	1,701	84	1,616
April	1,964	274	50	20	1,620	80	1,540
May	1,984	255	53	20	1,657	82	1,574
		262	48	20			
June	1,945				1,615	80	1,535
July	1,988	253	52	21	1,663	83	1,580
August	1,984	263	50	21	1,651	82	1,569
September	1,931	265	50	23	1,594	79	1,515
October	2,012	286	53	21	1,653	82	1,571
November	1,953	282	49	20	1,601	79	1,522
December	1,982	293	52	20	1,618	80	1,537
Total	23,755	3,305	610	245	19,596	973	18,623
00 January	^{RE} 2,065	^{RE} 313	^{RE} 54	E 23	^{RE} 1,675	^{RE} 83	^{RE} 1,592
	^{RE} 1,938	RE 305	^{RE} 42	E 21	^{RE} 1,571	RE 78	^{RE} 1,493
February	RE 2,083	RE 301	RE 45	E 23	1,371 RE 1 745	RE 85	
March					RE 1,715		RE 1,630
April	RE 2,007	RE 305	RE 46	E 22	RE 1,634	RE 81	^{RE} 1,553
May	^{RE} 2,066	RE 304	^{RE} 46	E 22	^{RE} 1,694	RE 84	^{RE} 1,610
June	^{RE} 1,989	^{RE} 274	^{RE} 45	^E 22	^{RE} 1,648	^{RE} 82	^{RE} 1,566
July	^{RE} 2.044	^{RE} 275	^{RE} 46	E 22	^{RE} 1,701	RE 85	^{RE} 1,616
August	RE 2,058	RE 277	^{RE} 46	E 23	^{RE} 1,711	RE 85	RE 1,626
September	^{RE} 1,977	RE 270	RE 45	E 22	RE 1.640	RE 82	^{RE} 1.558
	RF 0.007					RE 85	
October	RE 2,097	RE 308	RE 47	E 23	RE 1,719	N- 85	E 1,634
November	RE 2,033	RE 304	^{RE} 45	RE 23	^{RE} 1,662	RE 83	^{RE} 1,579
December	^{RE} 2,090	^{RE} 316	^{RE} 47	^{RE} 24	^{RE} 1,704	^{RE} 85	E 1,619
Total	^{RE} 24,448	^{RE} 3,549	^{RE} 555	^{RE} 270	RE 20,074	RE 998	^{RE} 19,076
01 January	^{RE} 2,134	E 338	^{RE} 41	E 24	^{RE} 1,731	^{RE} 86	^{RE} 1,645
February	^{RE} 1,965	^{RE} 311	^E 38	^E 22	^E 1,594	^{RE} 79	^{RE} 1,515
March	E 2,168	E 344	E 42	E 24	E 1,758	E 87	E 1,671
	NA	NA	NA	NA	F 1,694	F 84	F 1,610
April							
May	NA	NA	NA	NA	F 1,749	F 88	^F 1,661
5-Month Total	NA	NA	NA	NA	^E 8,526	^E 424	^E 8,101
00 5-Month Total	^E 10,159	^E 1,527	^E 233	^E 110	^E 8,289	^E 412	^E 7,877

^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 1 at end of section.

^d Vented: Natural gas released into the air on the base site or at processing plants. Flared: Natural gas burned in flares on the base site or at gas processing plants.

gas processing plants. ^e "Gross Withdrawals" minus "Repressuring," "Nonhydrocarbon Gases Removed," and "Vented and Flared." See Note 2 at end of section. ^f See Note 3 at end of section. ⁹ "Marketed Production (Wet)" minus "Extraction Loss."

^h May include unknown quantities of nonhydrocarbon gases.

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

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

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

Table 4.3 Natural Gas Trade by Country

(Billion Cubic Feet)

				Impo	orts	· · · · · · ·			Exports			
	Algeria ^a	Australia ^a	Canada ^b	Mexicob	Qatar ^a	Trinidad and Tobago ^a	Other ^c	Total	Canada ^b	Japan ^a	Mexico ^b	Total
	Jugona	ruotrana	ounduu	moxico	quiui	resuge	0	Total	Gunduu	Uupun	moxico	
973 Total	3	0	1,028	2	0	0	0	1,033	15	48	14	77
974 Total	0	0	959	(s)	0	0	0	959	13	50	13	77
975 Total	5	0	948	0	0	0	0	953	10	53	9	73
976 Total	10	0	954	0	0	0	0	964	8	50	7	65
977 Total	11	0	997	2	0	0	0	1,011	(s)	52	4	56
978 Total	84	0	881	0	0	0	0	966	(s)	48	4	53
979 Total	253 86	0	1,001 797	0 102	0 0	0	0	1,253 985	(s)	51 45	4 4	56 49
980 Total 981 Total	37	0	762	102	0	0	0	985 904	(s) (s)	45 56	4	48
982 Total	55	0	783	95	Ő	0 0	Ő	933	(s) (s)	50	2	52
983 Total	131	ŏ	712	75	ŏ	ŏ	ŏ	918	(s)	53	2	55
984 Total	36	ŏ	755	52	ŏ	ŏ	ŏ	843	(s)	53	2	55
985 Total	24	ŏ	926	Ō	ŏ	ŏ	ŏ	950	(s)	53	2	55
986 Total	0	Ō	749	Ō	Ō	Ō	2	750	9	50	2	61
987 Total	Ō	Ō	993	Ō	Ō	Ō	Ō	993	3	49	2	54
988 Total	17	0	1,276	0	0	0	0	1,294	20	52	2	74
989 Total	42	0	1,339	0	0	0	0	1,382	38	51	17	107
990 Total	84	0	1,448	0	0	0	0	1,532	17	53	16	86
991 Total	64	0	1,710	0	0	0	0	1,773	15	54	60	129
992 Total	43	0	2,094	0	0	0	0	2,138	68	53	96	216
993 Total	82	0	2,267	2	0	0	0	2,350	45	56	40	140
994 Total	51	0	2,566	7	0	0	0	2,624	53	63	47	162
995 Total	18	0	2,816	7	0	0	0	2,841	28	65	61	154
996 Total	35	0	2,883	14	-	0	5	2,937	52	68	34	153
997 Total 998 Total	66 69	10 12	2,899 3,052	17 15	0	0	2 5	2,994 3,152	56 40	62 66	38 53	157 159
350 TOLAI	03	12	3,032	15	U	U	5	3,132	40	00	55	155
999 January	13	0	293	5	0	0	0	311	2	6	5	12
February	8	3	269	4	3	0	0	286	3	6	5	13
March	13	0	288	1	0	0	0	302	4	6	6	16
April	8	0	257	4	2	0	0	271	2	6	5	13
May	4	0	275	7	0	5	0	291	2	6	6	14
June	3	2	260	5	2	7	0	279	2	4	5	11
July	5 3	0 2	278 289	4 6	2 0	7	0 3	296	2 2	6	6 5	13
August	3 8	2	289	6 5	0 5	10 4	3 0	312 302	2	6 6	5 5	13 13
September	о 5	2	287	4	0	4 6	0	302	2	4	4	10
November	2	0	285	6	2	7	3	305	2	6	5	19
December	5	2	306	3	2	5	0	324	6	6	4	16
Total	76	12	3,368	55	20	51	5	3,586	39	64	61	163
			0,000		20		Ŭ	0,000		••	•	
000 January	5	0	310	3	0	8	0	326	7	6	6	19
February	5	0	289	1	0	5	0	300	9	6	6	21
March	4	0	291	(s)	2	8	0	307	9	4	8	21
April	3	2	274	1	7	7	0	294	3	6	8	17
May	2	0	275	0	0	11	0	288	4	6	10	20
June	3	0 2	279 293	0	2 5	7	5	296	4 4	4 6	9	17 20
July	3			(s)		14	5	322			10 11	
August September	2 3	0 1	295 283	(s)	7 8	8 5	5 5	318 305	4 5	6 6	11 10	2' 2'
October	8	0	283	(s) 1	8 7	5 7	5 5	305	5	8	10	2
November	о З	(s)	309	1	7	7	2	325	10	6 6	9	25
December	5 5	(5)	349	4	0	10	2	369	10	6	9 7	23
Total	44	6	3,544	12	46	99	28	3,779	75	66	106	24
	5	0	^E 345	4	0	9	2	^E 366	^E 10	6	E 7	E 23
February	5 5	0	E 345	4 E 4	0	9 7	2 R5	RE 322	E 10	6 4	E 7	E 21
March	5 5	0	E 301	-4	2	9	3	E 332	E 10	4	= 7 E 7	E 23
3-Month Total	5 15	0	E 954	E 13	2	25	10	E 1,020	E 31	15	E 21	= 23 E 66
								,				
000 3-Month Total	14	0	891	4	2	21	0	933	25	15	20	60

^a As liquefied natural gas.

As inqueried natural gas.
 ^b By pipeline, except for very small amounts of liquefied natural gas imported from Canada in 1973, 1977, and 1981 and exported to Mexico beginning in 1998. See Note 5 at end of section.

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

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

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

Table 4.4 Natural Gas Consumption by Sector

(Billion Cubic Feet)

				D	elivered to Co	onsumers		1	
	Lease and Plant Fuel	Pipeline Fuel ^a	Residential	Commercial	Industrial ^b	Vehicles	Electric Utilities	Total	Total Consumption
973 Total	1,496	728	4,879	2,597	8,689	NA	3,660	19,825	22,049
974 Total	1,477	669	4,786	2,556	8,292	NA	3,443	19,077	21,223
975 Total	1,396	583	4,924	2,508	6,968	NA	3,158	17,558	19,538
976 Total	1,634	548	5,051	2,668	6,964	NA	3,081	17,764	19,946
977 Total	1,659	533	4,821	2,501	6,815	NA	3,191	17,329	19,521
978 Total	1,648	530	4,903	2,601	6,757	NA	3,188	17,449	19,627
979 Total	1,499	601	4,965	2,786	6,899	NA	3,491	18,141	20,241
980 Total	1,026	635	4,752	2,611	7,172	NA	3,682	18,216	19,877
981 Total	928	642	4,546	2,520	7,128	NA	3,640	17,834	19,404
982 Total	1,109	596	4,633	2,606	5,831	NA	3,226	16,295	18,001
983 Total	978	490	4,381	2,433	5,643	NA	2,911	15,367	16,835
984 Total	1,077	529	4,555	2,524	6,154	NA	3,111	16,345	17,951
985 Total	966	504	4,433	2,432	5,901	NA	3,044	15,811	17,281
986 Total	923	485	4,314	2,318	5,579	NA	2,602	14,814	16,221
987 Total	1,149	519	4,315	2,430	5,953	NA	2,844	15,542	17,211
988 Total	1,096	614	4,630	2,670	6,383	NA	2,636	16,320	18,030
989 Total	1,096	614	4,630 4,781	2,070	6,816	NA	2,030	16,320	18,801
	,		,	,	,				,
990 Total	1,236	660 601	4,391	2,623	7,018	(s)	2,787	16,820	18,716
991 Total	1,129	601	4,556	2,729	7,231	(s)	2,789	17,305	19,035
992 Total	1,171	588	4,690	2,803	7,527	1	2,766	17,786	19,544
993 Total	1,172	624	4,956	2,862	7,981	1	2,682	18,483	20,279
994 Total	1,124	685	4,848	2,895	8,167	2	2,987	18,899	20,708
995 Total	1,220	700	4,850	3,031	8,580	3	3,197	19,660	21,581
996 Total	1,250	711	5,241	3,158	8,870	3	2,732	20,005	21,966
997 Total	1,203	751	4,984	3,215	8,832	4	2,968	20,004	21,959
998 Total	1,157	635	4,520	2,999	8,686	5	3,258	19,469	21,262
999 January	93	87	911	477	797	NA	176	2,361	2,542
February	85	73	690	401	739	NA	149	1,979	2,137
March	94	74	669	390	747	NA	204	2,010	2,178
April	89	61	420	260	713	NA	254	1,647	1,797
May	90	51	235	177	690	NA	270	1,372	1,513
June	88	48	158	144	673	NA	322	1,297	1,433
July	91	52	127	133	701	NA	434	1,394	1,536
August	90	53	116	137	750	NA	432	1,436	1,580
September	88	49	135	138	772	NA	283	1,327	1,464
October	91	53	234	181	785	NA	240	1,440	1,584
November	88	58	372	246	785	NA	172	1,574	1,721
December	90	76	660	363	849	NA	172	2,047	2,212
Total	1,077	735	4,726	3,045	9,001	6	3,113	19,890	21,703
000 January	RE 92	^R 85	859	^R 463	^R 833	NA	190	^R 2.346	^R 2,524
	RE 86				^R 814		^R 167	^R 2,187	
February	RE 94	80 70	768	439	^R 782	NA	^R 208	^R 1.905	2,353 B 2 070
March	RE 90		546	370		NA			R 2,070
April	RE 93	61	394	264	R 777	NA	^R 215	^R 1,650	^R 1,801
May		56	225	195	782 8 770	NA	R 309	^R 1,511	^R 1,661
June	^{RE} 91	52	153	157	^R 773	NA	^R 307	^R 1,390	^R 1,533
July	RE 94	53	127	^R 149	^R 761	NA	^R 373	1,411	^R 1,557
August	^{RE} 94	57	121	^R 162	^R 834	NA	^R 410	^R 1,527	^R 1,678
September	E 90	50	139	_ 161	^R 754	NA	^R 284	^R 1,338	^R 1,478
October	^{RE} 95	54	_ 234	^R 193	^R 803	NA	_ 213	^R 1,444	^R 1,592
November	^{RE} 91	_ 65	^R 474	^R 298	^R 816	NA	^R 180	^R 1,768	^R 1,924
December	^{RE} 94	^R 88	^R 902	^R 480	^R 852	NA	^R 187	^R 2,421	^R 2,603
Total	^{RE} 1,104	^R 772	^R 4,943	^R 3,332	^R 9,581	NA	^R 3,043	^R 20,899	^R 22,775
001 January	^{RE} 95	^R 91	^R 983	^R 538	^R 835	NA	^R 157	^R 2,512	^R 2,699
February	^{RE} 88	^R 78	^R 788	^R 458	^R 760	NA	^R 134	^R 2,140	^R 2,306
March	F 106	F 67	F 709	F 416	F 779	NA	^R 187	^{RF} 2,092	^{RF} 2,265
April	F 100	F 58	F 446	F 287	F 744	NA	NA	^F 1,668	F 1,826
May	F 104	F 51	F 245	F 207	F 796	NA	NA	F 1,498	F 1,653
5-Month Total	E 493	^E 346	E 3,171	E 1,907	^E 3,915	NA	NA	^E 9,911	E 10,749
000 5-Month Total	456	353	2,792	1,732	3,988	NA	1,088	9,600	10,408
	451	346	2,925	1,704	3,686	NA	1,055	9,369	10,167

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

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

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

Notes: Natural gas includes supplemental gaseous fuels. Totals may not equal sum of components due to independent rounding. Geographic coverage is the 50 States and the District of Columbia.

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

Table 4.5 Natural Gas in Underground Storage

(Volumes in Billion Cubic Feet)

	Natural Gas in Underground Storage, End of Period		Change in Working Gas From Same Period Previous Year		Storage Activity			
	Base Gas	Working Gas	Totala	Volume	Percent	Withdrawals	Injections	Net ^{b,0}
973 Total	2,864	2,034	4,898	305	17.6	1,533	1,974	-442
				16				-84
974 Total	2,912	2,050	4,962		.8	1,701	1,784	
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	-306
983 Total	3,847	2,595	6,442	-476	-15.5	2,142	1,700	442
984 Total	3,830	2,876	6,706	281	10.8	2,064	2,252	-188
985 Total	3,842	2,607	6,448	-270	-9.4	2,359	2,128	231
986 Total	3,819	2,749	6,567	142	5.5	1,812	1,952	-140
987 Total	3,792	2,756	6,548	7	.3	1,881	1,887	-6
988 Total	3,800	2,850	6,650	94	3.4	2,244	2,174	69
989 Total	,	2,513	6,325	-337	-11.8	2,804	2,491	313
	3,812	,					,	
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	-00
997 Total	4,350	2,175	6,525	2	.1	2,824	2,800	24
998 Total	4,326	2,730	7,056	554	25.5	2,379	2,905	-526
999 January	4,332	2,073	6,404	361	21.1	682	58	624
February	4,329	1,746	6,075	319	22.4	385	63	321
March	4,383	1,406	5,789	223	18.9	384	87	297
April	4,381	1,495	5,876	109	7.9	120	210	-90
May	4,371	1,835	6,206	61	3.4	45	381	-337
June	4,370	2,149	6,519	36	1.7	42	349	-307
July	4,370	2,379	6,749	-41	-2.0	81	298	-217
August	4,368	2,610	6,978	-88	-3.3	90	311	-221
September	4,369	2,923	7,292	-5	2	43	358	-315
October	4,370	3,073	7,443	-118	-3.7	92	247	-155
November	4,380	3,065	7,445	-90	-2.8	205	173	32
December	4,383	2,523	6,906	-207	-7.6	606	63	543
	,	,	,					
Total	4,383	2,523	6,906	-207	-7.6	2,772	2,598	174
000 January	4,363	1,725	6,088	-370	-17.6	829	48	780
February	4,371	1,300	5,672	-491	-27.4	532	78	454
March	4,364	1,150	5,514	-280	-19.6	294	132	162
April	4,363	1,184	5,547	-329	-21.8	145	181	-36
May	4,356	1,426	5,782	-420	-22.8	75	308	-232
June	,	1,706	6,061	-420	-20.9	67	339	-272
	4,355	,						
July	4,355	1,996	6,351	-394	-16.5	77	368	-290
August	4,355	2,190	6,544	-442	-16.8	102	296	-193
September	4,354	2,473	6,827	-450	-15.4	72	354	-282
October	4,354	2,699	7,053	-374	-12.2	87	313	-227
November	4,358	2,443	6,801	-622	-20.3	401	108	293
December	4,352	1,720	6,072	-803	-31.8	755	65	690
Total	4,352	1,720	6,072	-803	-31.8	3,436	2,591	845
001 January	4,344	1,265	5,609	-459	-26.6	559	93	467
February	4,328	912	5,241	-388	-29.8	409	71	_ 338
March	^R 4,300	^R 742	^R 5,042	^R -408	^R -35.5	293	113	_ ^R 181
April	^{RF} 4,300	^{RF} 1,009	^{RF} 5,309	^{RF} -175	^{RF} -14.8 ^F 4.0	NA	NA	RF -267
	F 4,300	^F 1,484	F 5,784					F-475

^a For total underground storage capacity at the end of each calendar year, see Note 8 at end of section.
 ^b For 1980-1998, data differ from those shown on Table 4.1, which includes liquefied natural gas storage for that period.
 ^c Positive numbers indicate that withdrawals are greater than injections.

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

ending stocks. See Note 8 at end of section. R=Revised. NA=Not available. F=Forecast. Notes: Totals may not equal sum of components due to independent rounding. Geographic coverage is the 50 States and the District of rounding. Columbia.

Sources: See end of section.

Natural Gas Notes

1. Nonhydrocarbon Gases Removed: Annual data on nonhydrocarbon gases removed from marketed production—carbon dioxide, helium, hydrogen sulfide, and nitrogen—are from the Energy Information Administration (EIA) Natural Gas Annual (NGA). Data are not available prior to 1980. Monthly data are reported by three States and computed for six States. Monthly data are preliminary until after publication of the EIA NGA. Differences between annual data published in the EIA NGA and the sum of the preliminary monthly data (January-December) are allocated proportionally to the months to create final monthly data. For further information on methods of estimating preliminary monthly data, see the EIA Natural Gas Monthly (NGM).

2. Production.

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

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

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

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

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

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

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

Monthly data are revised and considered final after the publication of the EIA NGA. Final monthly data are estimated by allocating annual extraction loss data to the months on the basis of total natural gas marketed production data from the EIA NGA. 4. Supplemental Gaseous Fuels: Any gaseous substance that, introduced into or commingled with natural gas, increases the volume available for disposition. Such substances include, but are not limited to, propane-air, refinery gas, coke oven gas, still gas, manufactured gas, biomass gas, or air or inert gases added for Btu stabilization.

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

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

5. Imports and Exports: The United States imports natural gas via pipeline from Canada and Mexico and imports liquefied natural gas (LNG) via tanker from Algeria, Australia, 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, a small amount of LNG went to Mexico in 1998.

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

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

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

Final data are from the EIA *NGA*. Monthly data are considered preliminary until after publication of the EIA *NGA*. For more detailed information on the methods of estimating preliminary and final monthly data, see the EIA *NGM*.

7. Balancing Item: The balancing item for natural gas represents the difference between the sum of the components of natural gas supply and the sum of components of natural gas disposition. The differences may be due to quantities lost or to the effects of data

reporting problems. Reporting problems include differences due to the net result of conversions of flow data metered at varying temperature and pressure bases and converted to a standard temperature and pressure base; the effect of variations in company accounting and billing practices; differences between billing cycle and calendar period time frames; and imbalances resulting from the merger of data reporting systems which vary in scope, format, definitions, and type of respondents.

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

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

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

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

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

The final monthly and annual storage and withdrawal data for 1980-1998 include both underground and liquefied natural gas (LNG) storage. Annual data on LNG additions and withdrawals are from Form EIA-176. Monthly data are estimated by computing the ratio of each month's underground storage additions and withdrawals to annual underground storage additions

and withdrawals and applying the ratio to the annual LNG data.

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

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

Sources for Table 4.5

Storage Activity

1973-1975: Energy Information Administration (EIA) *Natural Gas Annual 1994, Volume 2,* Table 9. 1976-1979: EIA, *Natural Gas Production and Consumption 1979,* Table 1.

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

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

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

Other Data

1973 and 1974: American Gas Association (AGA), Gas Facts, 1972 Data, Table 57, Gas Facts, 1973 Data, Table 57, and Gas Facts, 1974 Data, Table 40. 1975 and 1976: Federal Energy Administration (FEA), Form FEA-G318-M-O, "Underground Gas Storage Report," and Federal Power Commission (FPC), Form FPC-8, "Underground Gas Storage Report."

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

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

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

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

Section 5. Oil and Gas Resource Development

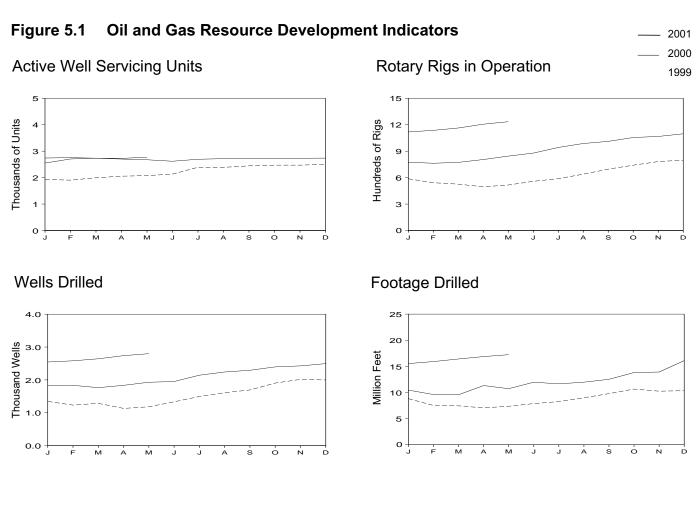
The May 2001 rotary rig count was 1,234, 2 percent higher than the count in April 2001 and 46 percent higher than the count in May 2000. Of the total number of rigs in operation, 1,063 were onshore and 171 were offshore. For May 2001, the number of onshore rigs was up 51 percent, while the number of offshore rigs was up 23 percent from the May 2000 count. Rotary rigs drilling for natural gas as a share of total rigs stood at 81 percent in May 2001.

Total footage drilled in May 2001 was 17.2 million feet, 2 percent higher than the footage drilled in April 2001 and up 61 percent from that drilled in May 2000.

The estimated number of exploratory and development oil and gas wells drilled during May 2001 was 2,221, 2 percent more than the number drilled in April 2001 and 45 percent higher than the number drilled in May 2000. The estimated number of oil wells drilled was 459, and the estimated number of gas wells was 1,762, 18 percent higher and 54 percent higher, respectively, than their May 2000 levels.

The estimated number of dry holes drilled in May 2001 was 577, up 2 percent from the number drilled in April 2001 and up 46 percent from the number drilled in May 2000.

There were an estimated 2.8 thousand well servicing units active in May 2001, 4 percent higher than in May 2000.



Sources: Tables 5.1 and 5.2.

		ws Engaged mic Explorat			Rotary R	igs in Ope	ration ^a			
	Offehere	Onchara	Total	-	Site	By T		Tetalb	Total Footage	Active Well Servicing
	Offshore Mo	Onshore onthly Average	Total	Offshore	Onshore Wee	Oil kly Averag	Gas	Total ^b	Drilled ^c Thousand Feet	Units ^d
			-				-			
1973 Average 1974 Average	23 31	227 274	250 305	84 94	1,110 1,378	NA NA	NA NA	1,194 1,472	138,223 153,374	NA NA
1975 Average	30	254	284	106	1,554	NA	NA	1,660	180,494	NA
1976 Average	25	237	262	129	1,529	NA	NA	1,658	186,982	2,601
1977 Average	27	281	308	167	1,834	NA	NA	2,001	215,866	2,828
1978 Average	25	327	352	185	2,074	NA	NA	2,259	238,669	2,988
1979 Average	30 37	370 493	400 530	207 231	1,970 2,678	NA NA	NA NA	2,177 2,909	244,798 314,654	3,399 4,089
1980 Average 1981 Average	44	637	681	256	3,714	NA	NA	3,970	413,112	4,850
1982 Average	57	531	588	243	2,862	NA	NA	3,105	378,295	4,248
1983 Average	47	426	473	199	2,033	NA	NA	2,232	317,986	3,732
1984 Average	49	445	494	213	2,215	NA	NA	2,428	371,392	4,663
1985 Average	45	333	378	206	1,774	NA	NA	1,980	313,045	4,716
1986 Average 1987 Average	24 24	176 153	200 177	99 95	865 841	NA NA	NA NA	964 936	181,856 162,178	3,036 3,060
1988 Average	29	153	182	123	813	554	354	936	156,354	3,341
1989 Average	23	109	132	105	764	453	401	869	134,439	3,391
1990 Average	23	102	125	108	902	532	464	1,010	153,701	3,658
1991 Average	19	85	104	81	779	482	351	860	143,021	3,331
1992 Average 1993 Average	12 16	64 63	76 79	52 82	669 672	373 373	331 364	721 754	121,124 135,118	2,732 3,158
1994 Average	NA	NA	NA	102	673	335	427	775	124,809	2,961
1995 Average	NA	NA	NA	101	622	323	385	723	117,832	3,043
1996 Average	NA	NA	NA	108	671	306	464	779	129,045	3,425
1997 Average	NA	NA	NA	122	821	376	564	943	156,661	3,499
1998 Average	NA	NA	NA	123	703	264	560	827	149,627	3,030
1999 January	NA	NA	NA	104	483	125	461	587	8,817	1,932
February	NA	NA	NA	101	441	117 114	425	542	7,511	1,904
March	NA NA	NA NA	NA NA	106 99	420 397	114	412 371	526 496	7,438 7,052	1,994 2,054
May	NA	NA	NA	102	414	136	380	516	7,362	2,076
June	NA	NA	NA	100	458	124	434	558	7,870	2,133
July	NA	NA	NA	99	489	108	478	588	8,250	2,391
August	NA	NA	NA	106	533	111	527	639	8,990	2,388
September October	NA NA	NA NA	NA NA	109 111	587 630	130 137	565 601	696 741	9,781 10,648	2,445 2,472
November	NA	NA	NA	119	663	145	635	782	10,247	2,472
December	NA	NA	NA	122	676	161	636	798	^R 10,341	2,500
Average	NA	NA	NA	106	519	128	496	625	^R 104,307	2,230
2000 January	NA	NA	NA	125	650	143	632	775	10,450	2,550
February	NA	NA	NA	122	641	147	616	763	9,602 B 0 562	2,705
March	NA NA	NA NA	NA NA	124 125	649 680	173 196	600 609	773 805	^R 9,563 11,324	2,734 2,702
Арлі Мау	NA	NA	NA	125	705	196	645	805 844	10,725	2,702
June	NA	NA	NA	139	739	201	677	878	11,959	2,619
July	NA	NA	NA	158	784	208	733	942	11,648	2,694
August	NA	NA	NA	159	828	206	779	987	11,972	2,717
September October	NA NA	NA NA	NA NA	146 147	865 908	199 212	810 842	1,011 1,055	12,521 13,813	2,722 2,719
November	NA	NA	NA	151	908	234	832	1,055	^R 13,912	2,732
December	NA	NA	NA	147	950	242	854	1,097	16,097	2,738
Average	NA	NA	NA	140	778	197	720	918	^R 143,586	2,692
2001 January	NA	NA	NA	174	944	239	879	1,118	15,525	2,741
February	NA	NA	NA	163	973	237	898	1,136	^R 15,916	2,755
March	NA	NA	NA	167	996	248	913	1,163	^R 16,416	2,734
April May	NA NA	NA NA	NA NA	169 171	1,037 1,063	247 235	957 997	1,206 1,234	^R 16,866 17,235	2,728 2,770
5-Month Average	NA	NA	NA	168	1,003	233 241	928	1,171	81,958	2,746
2000 5-Month Average 1999 5-Month Average	NA NA	NA NA	NA NA	126 102	665 430	171 123	619 408	791 532	51,664 38,180	2,673 1,992

Table 5.1 Oil and Gas Drilling Activity Measurements

^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 oil, gas, and miscellaneous other rigs (not shown). ^c Values shown are totals.

^d See Glossary. R=Revised. NA=Not available.

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

Exploration Geophysicists, Tulsa, Oklahoma, Monthly Seismic Crew Count. Rotary Rigs in Operation: By Site - Baker Hughes, Inc., Houston, Texas, Rotary Rigs Running--by State. By Type - Baker Hughes, Inc., Houston, Texas, 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 Auministration Computations, which are based on wein reports submitted to the American Petroleum Institute by the Petroleum Information Corporation, Denver, Colorado. Active Well Servicing Units: 1976 - July 1998— Association of Energy Service Companies, Dallas, Texas, *Field Reports;* August 1998 forward—Guiberson Well Service Products, a Halliburton Company, Carrollton, Texas.

Table 5.2 Oil and Gas Wells Drilled

(Number of Wells)

		Explo	ratory			Develo	pment			То	otal	
	Oil	Gas	Dry	Total	Oil	Gas	Dry	Total	Oil	Gas	Dry	Tota
973 Total	642	1,067	5,952	7,661	9,525	5,866	4,368	19,759	10,167	6,933	10,320	27,42
974 Total	859	1,190	6,833	8,882	12,788	5,948	5,283	24,019	13,647	7,138	12,116	32,90
975 Total	982	1,248	7,129	9,359	15,966	6,879	6,517	29,362	16,948	8,127	13,646	38,72
976 Total	1,086	1,346	6,772	9,204	16,602	8,063	6,986	31,651	17,688	9,409	13,758	40,85
77 Total	1,164	1,548	7,283	9,995	17,581	10,574	7,702	35,857	18,745	12,122	14,985	45,85
78 Total	1,171	1,771	7,965	10,907	18,010	12,642	8,586	39,238	19,181	14,413	16,551	50,14
979 Total	1,321	1,907	7,437	10,665	19,530	13,347	8,662	41,539	20,851	15,254	16,099	52,20
80 Total	1,764	2,081	9,039	12,884	30,875	15,252	11,599	57,726	32,639	17,333	20,638	70,61
81 Total	2,636	2,514	12,349	17,499	40,962	17,652	15,440	74,054	43,598	20,166	27,789	91,55
82 Total	2,431	2,125	11,247	15,803	36,768	16,854	14,972	68,594	39,199	18,979	26,219	84,39
83 Total	2,023	1,593	10,148	13,764	35,097	12,971	14,005	62,073	37,120	14,564	24,153	75,83
84 Total	2,198	1,521	11,278	14,997	40,407	15,606	14,403	70,416	42,605	17,127	25,681	85,41
985 Total	1,679	1,190	8,924	11,793	33,439	12,978	12,132	58,549	35,118	14,168	21,056	70,34
86 Total	1,084	793	5,549	7,426	18,013	7,723	7,129	32,865	19,097	8,516	12,678	40,29
987 Total	925	754	5,049	6,728	15,239	7,301	6,063	28,603	16,164	8,055	11,112	35,33
988 Total	855	732	4,693	6,280	12,781	7,823	5,348	25,952	13,636	8,555	10,041	32,23
89 Total	607	705	3,924	5,236	9,597	8,834	4,264	22,695	10,204	9,539	8,188	27,93
90 Total	654	689	3,715	5,058	11,544	10,355	4,598	26,497	12,198	11,044	8,313	31,55
91 Total	592	534	3,314	4,440	11,178	8,992	4,282	24,452	11,770	9,526	7,596	28,89
992 Total	493	423	2,513	3,429	8,264	7,786	3,605	19,655	8,757	8,209	6,118	23,08
993 Total	502	548	2,469	3,519	7,905	9,469	3,859	21,233	8,407	10,017	6,328	24,75
994 Total	570	726	2,405	3,701	6,151	8,812	2,902	17,865	6,721	9,538	5,307	21,56
995 Total	542	570	2,198	3,310	7,085	7,784	2,877	17,746	7,627	8,354	5,075	21,05
996 Total	483	570	2,136	3,189	7,831	8,732	3,146	19,709	8,314	9,302	5,282	22,89
997 Total	428	536	2,130	3,074	10.008	10,791	3,592	24,391	10,436	11,327	5,702	27,46
98 Total	303	579	1,816	2,698	6,761	11,527	3,097	21,385	7,064	12,106	4,913	24,08
99 January	13	37	104	154	282	746	163	1,191	295	783	267	1,34
	13	36	99	148		740		,	293	751	207	1,23
February					215		155	1,085				
March	9	35	96	140	234	762	151	1,147	243	797	247	1,28
April	10	31	90	131	234	625	143	1,002	244	656	233	1,13
May	15	38	94	147	250	634	151	1,035	265	672	245	1,18
June	10	37	102	149	290	730	164	1,184	300	767	266	1,33
July	15	40	113	168	341	805	181	1,327	356	845	294	1,49
August	9	45	117	171	371	886	182	1,439	380	931	299	1,61
September	19	56	127	202	350	943	199	1,492	369	999	326	1,69
October	13	70	158	241	477	996	190	1,663	490	1,066	348	1,90
November	14	73	143	230	513	1,049	223	1,785	527	1,122	366	2,01
December	17	56	146	219	422	1,068	289	1,779	439	1,124	435	1,99
Total	157	554	1,389	2,100	3,979	9,959	2,191	16,129	4,136	10,513	3,580	18,22
00 January	13	53	142	208	339	1,064	221	1,624	352	1,117	363	1,83
February	13	58	139	210	327	1,037	261	1,625	340	1,095	400	1,83
March	14	54	141	209	324	1,009	222	1,555	338	1,063	363	1,76
April	16	51	147	214	366	1,024	231	1,621	382	1,075	378	1,83
	16	60	154	230	372	1,085	242	1,699	388	1,145	396	1,92
June	16	55	170	241	376	1,085	248	1,709	392	1,140	418	1,95
July	17	62	172	251	389	1,233	270	1,892	406	1,295	442	2,14
August	16	66	180	262	386	1,311	282	1,979	402	1,377	462	2,24
September	16	68	184	268	372	1,364	289	2,025	388	1,432	473	2,29
October	17	71	193	281	397	1,417	301	2,115	414	1,488	494	2,39
November	19	70	195	284	438	1,400	305	2,143	457	1,470	500	2,42
December	19	72	200	291	453	1,437	314	2,204	472	1,509	514	2,49
Total	192	740	2,017	2,949	4,539	14,466	3,186	22,191	4,731	15,206	5,203	25,14
01 January	19	74	204	297	447	1,480	321	2,248	466	1,554	525	2,54
February	19	76	207	302	443	1,511	325	2,279	462	1,587	532	2,58
March	20	77	212	309	464	1,537	333	2,334	484	1,614	545	2,64
April	20	81	220	321	462	1,610	345	2,334	482	1,691	565	2,0
May	19	84	225	328	440	1,678	352	2,470	459	1,762	577	2,79
5-Month Total	97	392	1,068	1,557	2,256	7,816	1,676	11,748	2,353	8,208	2,744	13,30
00 5-Month Total	72	276	723	1,071	1,728	5,219	1,177	8,124	1,800	5,495	1,900	9,1

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

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

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

Oil and Gas Resource Development Notes

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

Prior to the March 1985 *MER*, drilling statistics consisted of completion data for the above types and classes of wells as reported to the American Petroleum Institute (API) during a given month. Due to time lags between the date of well completion and the date of completion reporting to the API, as-reported well completions proved to be an inaccurate indicator of drilling activity. During 1982, for example, as-reported well completions rose, while the number of actual completions fell. Consequently, the drilling statistics published since the March 1985 *MER* are Energy Information Administration(EIA) estimates 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 May 2001 totaled 99 million short tons, 11 percent higher than in May 2000.

Coal consumed by the electric power sector in March 2001 totaled 82 million short tons, 7 percent higher than the level in March 2000.

Electric power sector coal stocks were 97 million short

tons at the end of March 2001, 28 percent lower than the level a year earlier.

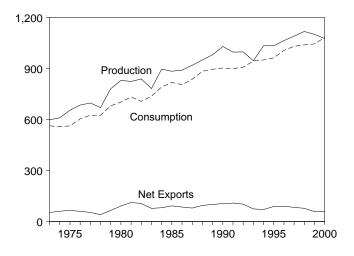
Coal exports in March 2001 totaled 3 million short tons, 40 percent lower than exports in March 2000.

Coal imports in March 2001 totaled 1 million short tons, 22 percent higher than imports in March 2000.

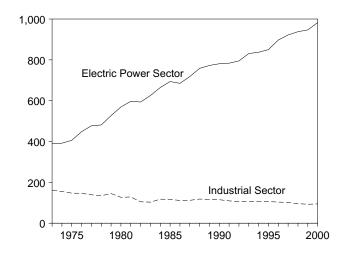
Figure 6.1 Coal

(Million Short Tons)

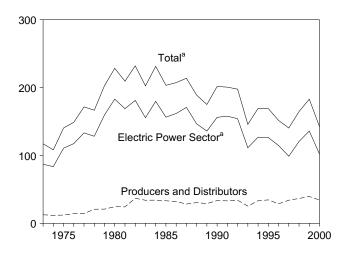
Overview, 1973-2000



Consumption by Sector, 1973-2000

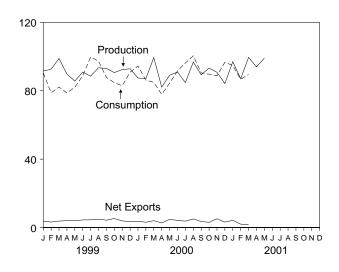




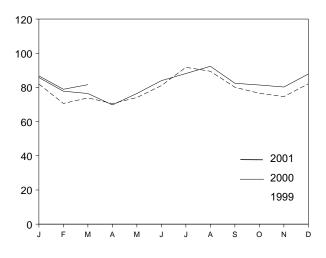


^aOther power producers stocks are included beginning in 1998. Note: Because vertical scales differ, graphs should not be compared. Sources: Tables 6.1, 6.2, and 6.3.

Overview, Monthly



Electric Power Sector Consumption, Monthly



Electric Power Sector Stocks, End of Month

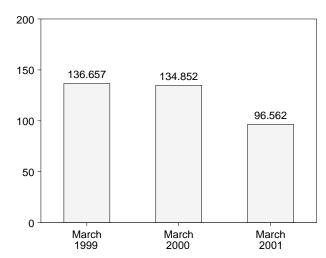


Table 6.1 Coal Overview

(Thousand Short Tons)

	Production	Consumption	Imports ^a	Exports	Stocks ^b		
72 T-4-1	500 500	500 504	407	52 507	447 455		
973 Total	598,568	562,584	127	53,587	117,155		
974 Total	610,023	558,402	2,080	60,661	108,237		
975 Total	654,641	562,640	940	66,309	140,391		
976 Total	684,913	603,790	1,203	60,021	148,899		
977 Total	697,205	625,291	1,647	54,312	171,543		
978 Total	670,164	625,225	2,953	40,714	166,606		
979 Total	781,134	680,524	2,059	66,042	202,812		
980 Total	829,700	702,730	1,194	91,742	228,407		
981 Total	823,775	732,627	1,043	112,541	209,423		
982 Total	838,112	706,911	742	106,277	232,038		
983 Total	782,091	736,672	1,271	77,772	202,584		
84 Total	895,921	791,296	1,286	81,483	231,300		
	883,638	818,049	1,952	92,680	203,367		
985 Total							
986 Total	890,315	804,231	2,212	85,518	207,319		
987 Total	918,762	836,941	1,747	79,607	213,780		
988 Total	950,265	883,642	2,134	95,023	188,831		
989 Total	980,729	^c 895,369	2,851	100,815	175,087		
990 Total	1,029,076	902,893	2,699	105,804	201,629		
991 Total	995,984	899,067	3,390	108,969	200,682		
992 Total	997,545	907,378	3,803	102,516	197,685		
993 Total	945,424	943,467	8,181	74,519	145,742		
994 Total	1,033,504	950,141	8,870	71,359	169,358		
995 Total	1,032,974	962,038	9,473	88,547	169,083		
996 Total	1,063,856	1.006.306	8,115	90,473	151,627		
		, ,	,	'			
997 Total	1,089,932	1,030,145	7,487	83,545	140,374		
998 Total	1,117,535	1,038,292	8,724	78,048	^d 164,602		
999 January	91,518	90,539	739	4,492	166,415		
February	92,616	78,840	726	3,922	176,246		
March	98,891	82,137	782	4,548	185,979		
	89,792	78,760	715	4,698			
April	,	,			191,007		
May	85,669	82,049	421	4,345	195,232		
June	90,958	88,757	961	5,405	193,603		
July	88,554	99,704	670	5,175	180,780		
August	93,434	97,311	900	5,800	175,066		
September	93,112	87,873	818	5,100	176,307		
October	90,638	84,751	684	5,966	178,207		
November	92,394	82,937	1,097	4,986	182,391		
December	92,856	90,880	575	4,039	182,976		
Total	1,100,431	1,044,536	9,089	58,476	182,976		
)00 January	87,488	^R 94,464	1,002	4,710	^R 175.019		
February	87,122	^R 86,208	698	3,765	^R 182,614		
March	99,427	^R 84,940	1,115	5,123	^R 185,576		
April	82,135	^R 77,922	823	3,503	^R 185,977		
Мау	89,090	^R 84,426	770	5,536	^R 185,669		
June	90,966	^R 91,619	1,152	5,339	^R 177,686		
July	84,809	^R 96,227	1,212	4,948	^R 164.171		
	96,791	^R 100,464	1,404	6,405	^R 158,859		
August		_ ,					
September	89,355	^R 90,438	946	4,447	^R 157,473		
October	93,270	^R 89,718	1,442	4,492	^R 157,683		
November	90,812	^R 88,783	854	5,958	^R 155,464		
December	84,234	^R 96,701	1,095	4,264	^R 142,355		
Total	1,075,500	^R 1,081,912	12,513	58,489	^R 142,355		
	^R 97,023	^R 94,809	1 202	5 510	^R 140.082		
001 January			1,303	5,512			
February	^R 87,077	^R 86,754	1,252	3,236	^R 145,361		
March	^R 99,499	89,492	1,355	3,094	149,727		
April	94,006	NA	NA	NA	NA		
May	99,112	NA	NA	NA	NA		
5-Month Total	476,717	NA	NA	NA	NA		
000 5-Month Total	AAE 262	427.064	4 400	22 627	105 660		
000 5-Month Total	445,263	427,961	4,409 3,384	22,637 22,005	185,669 195,232		
WW & Month Total	458,486	412,325					

^a Includes Puerto Rico.

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

^c Beginning in 1989, includes coal consumed by "Other Power Producers." See Table 6.2. ^d Beginning in 1998, includes coal stocks at "Other Power Producers." See

Table 6.3.

R=Revised. NA=Not available.

Notes: Data through 1997 are final. Subsequent data are preliminary. For methodology used to calculate production, consumption, and stocks, see Notes 1, 2, and 3 at end of section. Totals may not equal sum of Geographic coverage is the 50 components due to independent rounding. States and the District of Columbia.

Sources: See end of section for sources.

Table 6.2 Coal Consumption by Sector

(Thousand Short Tons)

	Residential and Commercial 11,117 11,417 9,410 8,916 8,954 9,511 8,388 6,452 7,421 8,240 8,448 9,130 7,779 7,667 6,914 7,130 6,167 6,724	Coke Plants 94,101 90,191 83,598 84,704 77,739 71,394 77,368 66,657 61,014 40,908 37,033 44,022 41,056	Industrial Other 68,038 64,903 63,646 61,787 61,463 63,085 67,717 60,347 67,395 64,097	Total 162,139 155,094 147,244 146,491 139,202 134,479 145,085 127,004	Transportation 116 80 24 12 9 (^d)	Electric Utilities 389,212 391,811 405,962 448,371 477,126	Other Power Producers ^{a,b} NA NA NA	Total ^c 389,212 ^c 391,811 ^c 405,962 ^c 448,371	Total 562,584 558,402 562,640
973 Total 974 Total 975 Total 975 Total 976 Total 977 Total 978 Total 977 Total 978 Total 979 Total 979 Total 980 Total 981 Total 982 Total 983 Total 983 Total 984 Total 985 Total 986 Total 987 Total 988 Total 989 Total 990 Total 991 Total 992 Total 993 Total 994 Total 995 Total 995 Total 996 Total 997 Total 998 Total 999 Total	Commercial 11,117 11,417 9,410 8,916 8,954 9,511 8,388 6,452 7,421 8,240 8,448 9,130 7,779 7,667 6,914 7,130 6,167	94,101 90,191 83,598 84,704 77,739 71,394 77,368 66,657 61,014 40,908 37,033 44,022	68,038 64,903 63,646 61,787 61,463 63,085 67,717 60,347 67,395 64,097	162,139 155,094 147,244 146,491 139,202 134,479 145,085	116 80 24 12 9	Utilities 389,212 391,811 405,962 448,371	NA NA NA NA	^c 389,212 ^c 391,811 ^c 405,962	562,584 558,402 562,640
974 Total 975 Total 976 Total 976 Total 977 Total 978 Total 979 Total 980 Total 981 Total 981 Total 983 Total 983 Total 984 Total 985 Total 985 Total 986 Total 987 Total 998 Total 999 Total 999 Total 991 Total 991 Total 992 Total 993 Total 993 Total 994 Total 994 Total 995 Total 995 Total 996 Total 996 Total 997 Total 997 Total 998 Total	11,417 9,410 8,916 8,954 9,511 8,388 6,452 7,421 8,240 8,448 9,130 7,779 7,667 6,914 7,130 6,167	90,191 83,598 84,704 77,739 71,394 77,368 66,657 61,014 40,908 37,033 44,022	64,903 63,646 61,787 61,463 63,085 67,717 60,347 67,395 64,097	155,094 147,244 146,491 139,202 134,479 145,085	80 24 12 9	391,811 405,962 448,371	NA NA NA	^c 391,811 ^c 405,962	558,402 562,640
974 Total 975 Total 975 Total 976 Total 977 Total 978 Total 978 Total 978 Total 978 Total 979 Total 980 Total 981 Total 982 Total 983 Total 984 Total 985 Total 986 Total 987 Total 986 Total 987 Total 988 Total 999 Total 990 Total 991 Total 992 Total 993 Total 994 Total 995 Total 995 Total 995 Total 997 Total 998 Total 999 Total	9,410 8,916 8,954 9,511 8,388 6,452 7,421 8,240 8,448 9,130 7,779 7,667 6,914 7,130 6,167	83,598 84,704 77,739 71,394 77,368 66,657 61,014 40,908 37,033 44,022	63,646 61,787 61,463 63,085 67,717 60,347 67,395 64,097	147,244 146,491 139,202 134,479 145,085	24 12 9	391,811 405,962 448,371	NA NA	^c 405,962	562,640
976 Total 977 Total 978 Total 978 Total 980 Total 980 Total 981 Total 982 Total 983 Total 983 Total 984 Total 985 Total 986 Total 987 Total 987 Total 990 Total 991 Total 992 Total 993 Total 993 Total 994 Total 994 Total 995 Total 995 Total 995 Total 995 Total 998 Total 998 Total	8,916 8,954 9,511 8,388 6,452 7,421 8,240 8,448 9,130 7,779 7,667 6,914 7,130 6,167	84,704 77,739 71,394 77,368 66,657 61,014 40,908 37,033 44,022	61,787 61,463 63,085 67,717 60,347 67,395 64,097	146,491 139,202 134,479 145,085	12 9	448,371	NA		
976 Total 977 Total 978 Total 978 Total 978 Total 980 Total 980 Total 981 Total 982 Total 983 Total 984 Total 985 Total 986 Total 987 Total 988 Total 998 Total 999 Total 990 Total 991 Total 993 Total 993 Total 993 Total 994 Total 995 Total 995 Total 995 Total 995 Total 996 Total 997 Total 998 Total 999 Total 994 Total 995 Total 995 Total 998 Total 998 Total 999 Total 999 Total 998 Total 998 Total 999 Total 999 Total 999 Total 999 Total 999 Total 999 Total	8,916 8,954 9,511 8,388 6,452 7,421 8,240 8,448 9,130 7,779 7,667 6,914 7,130 6,167	84,704 77,739 71,394 77,368 66,657 61,014 40,908 37,033 44,022	61,787 61,463 63,085 67,717 60,347 67,395 64,097	146,491 139,202 134,479 145,085	9	448,371			
977 Total 978 Total 979 Total 979 Total 980 Total 981 Total 982 Total 983 Total 983 Total 985 Total 986 Total 987 Total 987 Total 998 Total 999 Total 999 Total 991 Total 993 Total 994 Total 994 Total 995 Total 995 Total 995 Total 995 Total 995 Total 997 Total 998 Total 998 Total 997 Total 998 Total 998 Total 998 Total 998 Total 998 Total 998 Total 998 Total 998 Total 998 Total 999 January	8,954 9,511 8,388 6,452 7,421 8,240 8,448 9,130 7,779 7,667 6,914 7,130 6,167	77,739 71,394 77,368 66,657 61,014 40,908 37,033 44,022	61,463 63,085 67,717 60,347 67,395 64,097	139,202 134,479 145,085	9 (^d)				603,790
978 Total 979 Total 979 Total 980 Total 980 Total 981 Total 982 Total 983 Total 984 Total 985 Total 986 Total 987 Total 988 Total 988 Total 999 Total 990 Total 991 Total 993 Total 993 Total 993 Total 993 Total 994 Total 995 Total 995 Total 995 Total 995 Total 997 Total 998 Total 999 Total 999 Total 995 Total 996 Total 997 Total 998 Total 999 January	9,511 8,388 6,452 7,421 8,240 8,448 9,130 7,779 7,667 6,914 7,130 6,167	71,394 77,368 66,657 61,014 40,908 37,033 44,022	63,085 67,717 60,347 67,395 64,097	134,479 145,085	(b)		NA	^c 477,126	625,291
979 Total 980 Total 981 Total 981 Total 982 Total 983 Total 984 Total 985 Total 986 Total 987 Total 988 Total 988 Total 989 Total 990 Total 991 Total 992 Total 993 Total 994 Total 995 Total 996 Total 997 Total 998 Total 999 Total 995 Total 995 Total 997 Total 998 Total 999 January	8,388 6,452 7,421 8,240 8,448 9,130 7,779 7,667 6,914 7,130 6,167	77,368 66,657 61,014 40,908 37,033 44,022	67,717 60,347 67,395 64,097	145,085		481,235	NA	^c 481,235	625,225
3080 Total 3081 Total 3082 Total 3083 Total 3084 Total 3085 Total 3086 Total 3087 Total 3087 Total 3088 Total 3080 Total 3090 Total 3090 Total 3091 Total 3092 Total 3093 Total 3094 Total 3095 Total 3095 Total 3096 Total 3097 Total 3097 Total 3097 Total 3098 Total 3099 Total 3090 Total 3091 Total 3095 Total 3095 Total 3097 Total 3098 Total 3099 Total 3099 Total 3090 Total	6,452 7,421 8,240 8,448 9,130 7,779 7,667 6,914 7,130 6,167	66,657 61,014 40,908 37,033 44,022	60,347 67,395 64,097	- /	(d)	527,051	NA	^c 527,051	680,524
881 Total 882 Total 883 Total 884 Total 885 Total 885 Total 886 Total 887 Total 888 Total 889 Total 990 Total 991 Total 992 Total 993 Total 994 Total 995 Total 997 Total 998 Total 999 January	7,421 8,240 8,448 9,130 7,779 7,667 6,914 7,130 6,167	61,014 40,908 37,033 44,022	67,395 64,097		(d)	569,274	NA	^c 569,274	702,730
382 Total 383 Total 384 Total 384 Total 385 Total 386 Total 387 Total 388 Total 389 Total 399 Total 399 Total 391 Total 392 Total 393 Total 393 Total 395 Total 395 Total 396 Total 397 Total 398 Total 399 January	8,240 8,448 9,130 7,779 7,667 6,914 7,130 6,167	40,908 37,033 44,022	64,097	128,409	(d)	596,797	NA	°596,797	732,627
983 Total 984 Total 985 Total 985 Total 986 Total 987 Total 988 Total 998 Total 999 Total 990 Total 991 Total 992 Total 993 Total 994 Total 995 Total 995 Total 995 Total 995 Total 995 Total 996 Total 997 Total 998 Total 999 Total 995 Total 996 Total 997 Total 998 Total 999 January	8,448 9,130 7,779 7,667 6,914 7,130 6,167	37,033 44,022		105,005	(d)	593,666	NA	°593,666	706,911
384 Total 385 Total 386 Total 387 Total 388 Total 388 Total 390 Total 390 Total 391 Total 392 Total 393 Total 394 Total 395 Total 395 Total 396 Total 397 Total 398 Total 399 Total 393 Total 394 Total 395 Total 395 Total 396 Total 397 Total 398 Total 399 Total	9,130 7,779 7,667 6,914 7,130 6,167	44,022	6E 000		(d)	,			
885 Total 886 Total 887 Total 888 Total 888 Total 989 Total 990 Total 991 Total 992 Total 993 Total 994 Total 995 Total 995 Total 996 Total 997 Total 998 Total 998 Total 999 January	7,779 7,667 6,914 7,130 6,167		65,980	103,013	(d)	625,211	NA	^c 625,211	736,672
986 Total 987 Total 988 Total 990 Total 990 Total 991 Total 992 Total 993 Total 993 Total 995 Total 995 Total 995 Total 996 Total 997 Total 998 Total 999 January	7,667 6,914 7,130 6,167	41,056	73,745	117,767	(d)	664,399	NA	^c 664,399	791,296
987 Total 988 Total 988 Total 989 Total 990 Total 991 Total 992 Total 993 Total 994 Total 995 Total 995 Total 995 Total 995 Total 995 Total 996 Total 997 Total 998 Total 999 January	6,914 7,130 6,167		75,372	116,429	(d)	693,841	NA	^c 693,841	818,049
388 Total 389 Total 390 Total 391 Total 392 Total 393 Total 394 Total 395 Total 395 Total 396 Total 397 Total 398 Total 399 Total 395 Total 395 Total 396 Total 397 Total 398 Total 399 January	7,130 6,167	35,924	75,583	111,508		685,056	NA	^c 685,056	804,231
989 Total	6,167	36,957	75,175	112,132	(d) (d)	717,894	NA	^c 717,894	836,941
990 Total 991 Total 992 Total 993 Total 994 Total 995 Total 996 Total 998 Total 998 Total 999 January		41,888	76,252	118,140		758,372	NA	^c 758,372	883,642
991 Total 992 Total 993 Total 994 Total 995 Total 996 Total 997 Total 998 Total 998 Total 998 Total	6 7 7 4	40,508	76,134	116,643	(ď)	766,888	5,670	^e 772,558	^e 895,369
992 Total 993 Total 994 Total 995 Total 995 Total 996 Total 997 Total 998 Total 998 Total	6,724	38,877	76,330	115,207	(ď)	773,549	7,413	780,962	902,893
993 Total 994 Total 995 Total 996 Total 997 Total 998 Total 999 January	6,094	33,854	75,405	109,259	(ď)	772,268	11,446	783,714	899,067
994 Total 995 Total 996 Total 997 Total 998 Total 998 Total	6,153	32,366	74,042	106,408	(ď)	779,860	14,957	794,817	907,378
994 Total 995 Total 996 Total 997 Total 998 Total 998 Total	6,221	31,323	74,892	106,215	(d)	813,508	17,523	831,031	943,467
995 Total 996 Total 997 Total 998 Total 999 January	6,013	31,740	75,179	106,919	(d)	817,270	19,940	837,210	950,141
996 Total 997 Total 998 Total 999 January	5,807	33,011	73,055	106,067	(d)	829,007	21,158	850,165	962,038
997 Total 998 Total 999 January	6,006	31,706	71.689	103,395	(d)	874,681	22,224	896,905	1,006,306
998 Total 999 January	6,463	30,203	71,515	101,718	(d)	900,361	21,603	921,964	1,030,145
,	4,856	28,189	67,439	95,628	(d)	910,867	26,941	937,808	1,038,292
,	670	2,287	5,593	7,879	(^d)	78,575	^E 3,415	^E 81,990	90,539
					(d)	,	E 3,401	E 70.621	
	502 292	2,122	5,595	7,717	(d)	67,220			78,840
March		2,387	5,588	7,975	(d)	70,643	E 3,227	E 73,870	82,137
April	419	2,496	5,268	7,764	(d)	66,961	^E 3,615	E 70,576	78,760
May	257	2,448	5,261	7,710	(d)	70,285	^E 3,797	^E 74,082	82,049
June	299	2,128	5,261	7,389	(d)	76,507	^E 4,562	[⊨] 81,069	88,757
July	407	2,363	5,181	7,544		87,020	^E 4,733	^E 91,753	99,704
August	329	2,351	5,181	7,532	(d)	84,729	^E 4,721	^E 89,450	97,311
September	240	2,310	5,226	7,536	(d)	75,520	^E 4,576	^E 80,096	87,873
October	305	2,389	5,494	7,882	(d)	71,938	^E 4,626	^E 76,564	84,751
November	424	2,352	5,553	7,905	(d)	69,353	E 5.255	E 74,608	82,937
December	735	2,476	5,538	8,013	(d)	75,369	E 6,763	E 82,132	90,880
Total	4,879	28,108	64,738	92,846	(d)	894,120	^E 52,691	^E 946,811	1,044,536
000 January	630	2,473	5,583	8,056	(^d)	^R 77,090	^E 8.689	^{RE} 85,779	^R 94,464
February	469	2,343	5,608	7,951	(d)	^R 69,442	E 8,346	^{RE} 77,788	^R 86,208
March	364	2,545	5,624	8,130	(d)	^R 67,925	^E 8,521	^{RE} 76,446	^R 84,940
April	415	2,500	5,024	7,750	(d)	^R 61,214	^E 8,543	^{RE} 69,757	^R 77,922
	278		5,122	7,702	(d)	^R 67,428	^E 9,017	^{RE} 76,445	^R 84,426
May		2,578			(d)		^E 10.050	RE 83,960	
June	282	2,240	5,136	7,376	(d)	^R 73,910		03,960 RE 00 400	^R 91,619
July	340	2,506	5,250	7,757	(d)	^R 77,051	E 11,079	RE 88,130	^R 96,227
August	348	2,494	5,254	7,748		^R 80,021	E 12,348	RE 92,369	R 100,464
September	288	2,451	5,272	7,722	(d)	^R 70,725	E 11,703	RE 82,428	^R 90,438
October	228	2,319	5,764	8,083	(d)	^R 69,835	^E 11,572	^{RE} 81,407	^R 89,718
November	473	2,339	5,734	8,073	(d)	^R 69,114	^E 11,123	^{RE} 80,237	^R 88,783
December	763	2,427	5,638	8,065	(d)	^R 75,579	^E 12,294	RE 87,873	^R 96,701
Total	4,879	29,303	65,110	94,413	(d)	^R 859,335	^E 123,285	^{RE} 982,620	^R 1,081,912
001 January	^R 579	^R 2,284	^R 5,197	^R 7,480	(^d)	^R 74,601	^E 12,148	^{RE} 86,749	^R 94,809
February	^R 462	^R 2,164	^R 5,206	^R 7,370	(d)	^{RF} 67,947	E 10,976	^{RE} 78,923	^R 86,754
March	F 423	F 2,315	F 5,150	F 7,465	(b)	^F 69,651	E 11,954	E 81,605	89,492
3-Month Total	E 1,464	E 6,762	E 15,553	E 22,315	(d)	E 212,198	E 35,078	E 247,276	271,055
000 3-Month Total	1,464	7 200	16,814	24,136	(^d)	214,457	^E 25,556	Faire	265,613
999 3-Month Total		7,322	10.014	24,130	(°) (d)	214.437		E 240,013	

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

that are not included in the end-use sectors. Only annual data are collected; prior to 1998, monthly estimates are derived from the annual total's daily rate; for 1998 forward, monthly estimates are developed from industry analysis. ^c Electric utilities only.

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

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

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

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

Table 6.3 Coal Stocks

(Thousand Short Tons)

						Consumers				
				Industria	al	E	lectric Power	Sector		
	Producers and Distributors	Residential and Commercial	Coke Plants	Other	Total	Electric Utilities	Other Power Producers ^a	Total	Total	Total
973 Year	12,530	290	6.998	10,370	17,368	86.967	NA	86.967	104,625	117,155
974 Year		280	6,209	6,605	12,814	83,509	NA	83,509	96,603	108,237
75 Year		233	8,797	8,529	17,326	110,724	NA	110,724	128,283	140,391
76 Year		240	9,902	7,100	17,002	117,436	NA	117,436	134,678	148,899
077 Year	14,225	220	12,816	11,063	23,879	133,219	NA	133,219	157,318	171,543
78 Year		360	8,278	9,048	17,326	128,225	NA	128,225	145,911	166,606
79 Year		340	10,155	11,777	21,932	159,714	NA	159,714	181,986	202,812
80 Year		(b)	9,067	11,951	21,018	183,010	NA	183,010	204,028	228,407
81 Year		(b)	6,475	9,906	16,381	168,893	NA	168,893	185,274	209,423
82 Year		(b)	4,642	9,479	14,121	181,132	NA	181,132	195,254	232,038
83 Year		(b) (b)	4,346	8,710	13,056	155,598	NA	155,598	168,654	202,584
84 Year		(b) (b)	6,166	11,317	17,483	179,727	NA NA	179,727	197,211	231,300
85 Year 86 Year		(b) (b)	3,420 2,992	10,438 10,429	13,857 13,420	156,376 161,806	NA NA	156,376 161,806	170,234 175,226	203,367 207,319
87 Year		(b)	2,992	10,429	14,662	170,797	NA	170,797	185,459	207,319
88 Year		(b)	3,004	8.768	14,002	146.507	NA	146.507	158,413	188,831
89 Year		(b)	2,864	7,363	10,227	135,860	NA	135,860	146,087	175,087
90 Year		(b)	3,329	8,716	12,044	156,166	NA	156,166	168,210	201,629
91 Year		(b)	2.773	7.061	9.835	157,876	NA	157.876	167,711	200,682
92 Year		(þ)	2,597	6,965	9,562	154,130	NA	154,130	163,692	197,685
93 Year		(b)	2,401	6,716	9,117	111,341	NA	111,341	120,458	145,742
94 Year		(°)	2.657	6,585	9,243	126,897	NA	126.897	136,139	169.358
95 Year		(^D)	2,632	5,702	8,334	126,304	NA	126,304	134,639	169,083
96 Year		(^b)	2.667	5,688	8,355	114.623	NA	114.623	122,979	151.627
97 Year		(b)	1,978	5,597	7,576	98,826	NA	98,826	106,401	140,374
98 Year	36,530	(b)	2,026	5,545	7,571	120,501	NA	^{c E} 120,501	^c 128,072	^c 164,602
99 January	38,216	(^b)	1,983	5,278	7,261	119,382	^E 1,556	^E 120,938	128,199	166,415
February	40,288	(b)	1,941	5,010	6,951	127,428	^E 1,579	^E 129,007	135,958	176,246
March	42,682	(b)	1,898	4,743	6,640	134,897	^E 1,760	^E 136,657	143,297	185,979
April		(b)	1,957	4,716	6,673	139,495	^E 2,754	^E 142,249	148,922	191,007
May		(b)	2,016	4,690	6,706	143,561	^E 3,156	^E 146,717	153,423	195,232
June		(b)	2,075	4,663	6,739	141,267	^E 3,896	^E 145,163	151,902	193,603
July		(b)	2,042	4,811	6,853	130,673	^E 3,877	^E 134,550	141,403	180,780
August		(b) (b)	2,009	4,959	6,968	127,633	^E 3,244	E 130,877	137,845	175,066
September			1,975	5,107	7,083	129,302	E 3,277	E 132,579	139,662	176,307
October		(b) (b)	1,965	5,255	7,219	132,608	E 3,550	E 136,158	143,377	178,207
November December		(b)	1,954 1,943	5,396 5,569	7,349 7,512	135,355 128,493	^E 5,092 ^E 7,496	^E 140,447 ^E 135,989	147,796 143,501	182,391 182,976
	38.166	(^b)	1 0 4 0	E 100	7.108	^R 123,661	E 6.084	^{RE} 129,745	^R 136.853	^R 175.019
00 January	,	(°) (b)	1,940 1,938	5,168 4,768	6,705	^R 123,001	^E 7.146	RE 136.201	^R 142.906	^R 175,019
February March		(°) (b)	1,938	⁴ ,768 ^R 4.366	^R 6,301	^R 129,055 ^R 127,130	E 7,146	RE 136,201	^R 142,906	^R 182,612
April	, -	(b)	1,933	4,300	6,334	^R 128,669	E 9,521	^{RE} 138,190	^R 144,524	^R 185,977
May		(b)	1,303	4,495	6.366	R 127,090	E 10.557	RE 137 647	^R 144,013	R 185,669
June		(b)	1,839	^R 4,555	^R 6,394	^R 119,634	E 11,218	RE 130,852	^R 137,246	^R 177,686
July	,	(b)	1,752	4,601	6,353	^R 111,494	E 10,592	RE 122,086	^R 128,439	^R 164,171
August		(b)	1,665	4,642	6,307	^R 106,201	E 10,745	^{RE} 116,946	^R 123,253	R 158,859
September		(b)	1,578	^R 4,677	^R 6,255	^R 102,876	^E 11,199	^{RE} 114,075	^R 120,330	R 157,473
October		(b)	1,562	4,647	6,209	^R 104,422	^E 11,861	^{RE} 116,283	^R 122,492	^R 157,683
November		(b)	1,546	4,611	6,157	^R 102,227	^E 12,177	^{RE} 114,404	^R 120,561	^R 155,464
December		(b)	1,529	^R 4,587	^R 6,116	^R 90,115	^E 11,919	^{RE} 102,034	^R 108,151	^R 142,355
01 January	38,166	(^b)	^R 1,622	^R 4,545	^R 6,167	^R 85,685	^E 10,064	^{RE} 95,749	^R 101,916	^R 140,082
February		(b)	^{RF} 1,715	^{RF} 4,503	^{RF} 6,218	^{RF} 86,423	^E 10,564	^{RE} 96,987	^R 103,205	^R 145,361
March		(b)	F 1,807	F 4,461	F 6,269	F 85,061	E 11,501	E 96,562	102,830	149,727

^a Nonutility wholesale producers of electricity, and nonutility cogeneration plants

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

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

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

Coal Notes

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

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

2. Consumption: Coal consumption data are reported by major end-use sector. Forecast data for the most recent months (designated by an "F") are derived from forecasted values shown in the EIA *Short-Term Energy Outlook* (DOE/EIA-0202) table titled "U.S. Coal Supply and Demand: Mid World Oil Price Case." The monthly estimates are one-third of the quarterly values shown in the then current issue of the publication, regularly released in February, May, October, and November. The estimates are revised quarterly as collected data become available from the data sources. Sector-specific information follows.

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

modify baseline figures developed by the Bureau of Mines. From 1980-1987, monthly estimates were derived by proportioning reported quarterly data by using the ratios of monthly-to-quarterly consumption data in 1979, the last year in which monthly data were reported on Form EIA-2. During 1981 and 1982, the estimates were also modified to reflect air temperature degree-days. Quarterly consumption data were taken directly from reported data and were defined as distribution to the residential and commercial sector as reported by coal producers and distributors on Form EIA-6. Beginning in January 1988, monthly residential and commercial consumption estimates are derived from reported quarterly data by using monthly national average population weighted heating/cooling degree-days obtained from the National Oceanic and Atmospheric Administration. The monthly ratios are the monthly national sum of heating and cooling degree-days as a proportion of the quarterly national sum. Quarterly consumption data are taken directly from reported data.

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

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

Classification (SIC) 20; paper and products, SIC 26; chemicals and products, SIC 28; petroleum products, SIC 29; clay, glass, and stone products, SIC 32; and primary metals, SIC 33. The monthly ratios are computed as the monthly sum of the weighted indices as a proportion of the quarterly sum of the weighted indices by using the 1977 proportion as the weights.

Electric Utilities—Monthly consumption data for electric utility plants are taken directly from reported data.

3. Stocks: Coal stocks data are reported by major end-use sector. Forecast data for the most recent months (designated by an "F") are derived from forecasted values shown in the EIA *Short-Term Energy Outlook* (DOE/EIA-0202) table titled "U.S. Coal Supply and Demand: Mid World Oil Price Case." The monthly estimates are one-third of the quarterly values shown in the then current issue of the publication, regularly released in February, May, October, and November. The estimates are revised quarterly as collected data become available from the data sources. Sector-specific information follows.

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

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

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

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

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

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

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

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

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

Sources for Table 6.1

Production

1973-September 1977—U.S. Department of the Interior, Bureau of Mines, *Minerals Yearbook* and *Minerals Industry Surveys*. October 1977 forward—Energy Information Administration, *Weekly Coal Production*.

Consumption—See Table 6.2.

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

Stocks—See Table 6.3.

Sources for Table 6.2

Residential and Commercial

1973-1976—U.S. Department of the Interior (DOI), Bureau of Mines (BOM), *Minerals Yearbook*. January-September 1977—DOI, BOM, Form 6-1400, "Monthly Coal Report, Retail Dealers-Upper Lake Docks."

October 1977-1979—Energy Information Administration (EIA), Form EIA-2, "Monthly Coal Report, Retail Dealers-Upper Lake Docks." 1980-1997—EIA, Form EIA-6, "Coal Distribution Report," quarterly.

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

Industrial Coke Plants

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

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

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

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

Industrial Other

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

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

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

Transportation

1973-1976—DOI, BOM, Minerals Yearbook.

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

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

Electric Utilities

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

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

Other Power Producers

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

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

Sources for Table 6.3

Producers and Distributors

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

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

Residential and Commercial

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

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

October 1977-1979—EIA, Form EIA-2, "Monthly Coal Report, Retail Dealers-Upper Lake Docks."

Industrial Coke Plants

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

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

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

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

Industrial Other

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

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

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

Electric Utilities

See Table 7.9.

Other Power Producers

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

Section 7. Electricity

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

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

Net Generation. In March 2001, total net generation of electricity was forecast as 313 billion kilowatthours, 6 percent more than in March 2000. At utilities, net generation was forecast as 245 billion kilowatthours, up 1 percent, while at nonutility power plants, net generation was forecast as 69 billion kilowatthours, up 29 percent, compared to 1 year earlier.

At utilities in March 2001, fossil fuels (primarily coal) were forecast to account for 68 percent of net generation, nuclear 23 percent, and renewable resources 9 percent. At nonutility power plants, fossil fuels were forecast to account for 77 percent of net generation, nuclear 10 percent; and renewable resources 13 percent.

Electric Utility Retail Sales. March 2001 total utility sales of electricity to end-users were forecast at 274 billion kilowatthours, 6 percent more than in March 2000. March 2001 electricity sales to residential con-

sumers were forecast at 97 billion kilowatthours (35 percent of the month's total), commercial users 83 billion kilowatthours (30 percent), industrial consumers 87 billion kilowatthours of electricity (32 percent), and other users 9 billion kilowatthours (3 percent).

Consumption of Fossil Fuels. In March 2001, 84 million short tons of coal were forecast as consumed to generate electricity, 9 percent more than in March 2000. Of the total, 70 million short tons (3 percent more than a year earlier) were forecast as consumed at electric utilities and 14 million short tons (56 percent more than a year earlier) were forecast as consumed by nonutility power producers.

In March 2001, 445 billion cubic feet of natural gas were forecast as consumed to generate electricity, slightly more than in March 2000. Of the total, 187 billion cubic feet (10 percent less than a year earlier) was forecast as consumed by electric utilities and 258 billion cubic feet (9 percent more than a year earlier) was forecast as consumed by nonutility power plants.

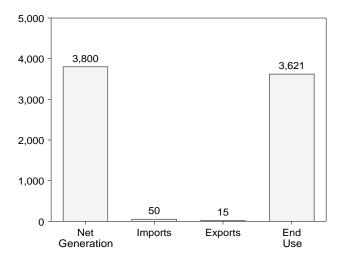
Stocks of Coal and Petroleum. At the end of March 2001, 97 million short tons of coal were forecast as held in storage for electricity generation, 32 percent less than in March 2000. Of the total, 85 million short tons (33 percent less than a year earlier) were held at electric utilities and 12 million short tons (23 percent less than a year earlier) were held by nonutility power plants.

At the end of March 2001, 44 million barrels of petroleum liquids (i.e., heavy and light oil) were forecast as held in storage for electric utilities, 25 percent more than in March 2000.

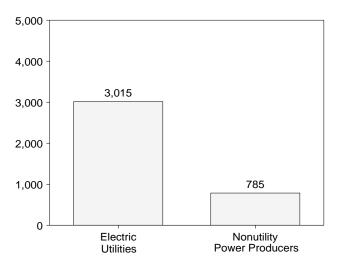
Figure 7.1 Electricity Overview

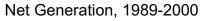
(Billion Kilowatthours)

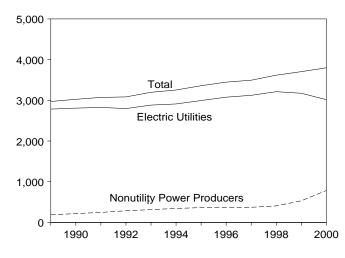
Overview, 2000



Net Generation, 2000



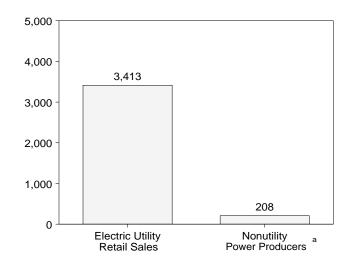




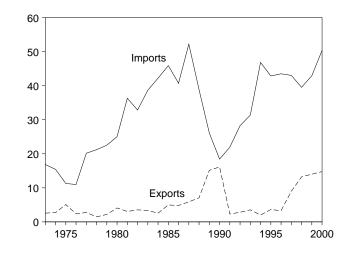
^ANonutility direct use and sales to end users.

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

End Use, 2000



Trade, 1973-2000



Net Generation, Monthly

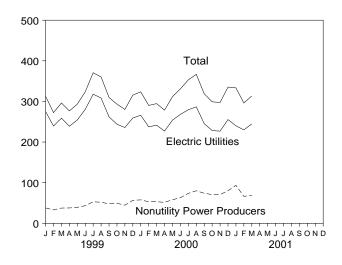


Table 7.1 Electricity Overview

(Billion Kilowatthours)

	N	et Generation	a					End Use	
	Electric	Nonutility Power				Losses and Unaccounted	Electric Utility	Nonutility Power	
	Utilities	Producers	Total	Imports ^b	Exportsb	for ^c	Retail Sales ^d	Producers ^e	Totald
973 Total	1,861	NA	1,861	17	3	NA	1,713	NA	NA
974 Total	1,867	NA	1,867	15	3	NA	1,706	NA	NA
975 Total	1,918	NA	1,918	11	5	NA	1,747	NA	NA
976 Total	2,038	NA	2,038	11	2	NA	1,855	NA	NA
977 Total	2,124	NA	2,124	20	3	NA	1,948	NA	NA
978 Total 979 Total	2,206	NA NA	2,206	21 23	1 2	NA NA	2,018	NA NA	NA NA
980 Total	2,247 2,286	NA	2,247 2,286	25	4	NA	2,071 2,094	NA	NA
981 Total	2,200	NA	2,200	36	3	NA	2,094	NA	NA
982 Total	2,233	NA	2,241	33	4	NA	2,086	NA	NA
983 Total	2,310	NA	2,310	39	3	NA	2,151	NA	ŇĂ
984 Total	2,416	NA	2,416	42	3	NA	2,286	NA	NA
985 Total	2,470	NA	2,470	46	5	NA	2,324	NA	NA
986 Total	2,487	NA	2,487	41	5	NA	2,369	NA	NA
987 Total	2,572	NA	2,572	52	6	NA	2,457	NA	NA
988 Total	2,704	ŇĂ	2,704	39	7	NA	2,578	ŇĂ	NA
989 Total	2,784	^f 188	2,972	26	15	236	2,647	^f 100	2,747
990 Total	2,808	[†] 217	3,025	18	16	210	2,713	[†] 104	2,817
991 Total	2,825	¹ 246	3,071	22	2	218	2,762	[†] 111	2,873
992 Total	2,797	286	3,083	28	3	224	2,763	122	2,885
993 Total	2,883	314	3,197	31	4	236	2,861	127	2,988
994 Total	2,911	343	3,254	47	2	223	2,935	141	3,075
995 Total	2,995	363	3,358	43 43	4 3	235 237	3,013	149 149	3,162
996 Total 997 Total	3,077 3,123	370 372	3,447 3,494	43 43	3 9	237	3,101 3,146	149	3,250 3,295
998 Total	3,212	406	3,434	40	13	234	3,264	149	3,233
	-		-						-
999 January	275	38	313	2	2	NA	284	NA	NA
February	240	33 37	273 296	2 3	1 2	NA	251	NA	NA
March	259 239	38	296 277	3 4	2	NA NA	261 247	NA NA	NA NA
April	239 254	30 39	^R 293	4	1	NA	247 254	NA	NA
May June	280	43	293 324	4	1	NA	285	NA	NA
July	318	53	371	4	1	NA	324	NA	NA
August	308	52	360	4	1	NA	323	NA	NA
September	262	48	310	5	1	NA	295	NA	NA
October	244	R 49	293	5	1	NA	265	NA	NA
November	236	^R 44	280	5	1	NA	253	NA	NA
December	259	^R 56	316	4	1	NA	271	NA	NA
Total	3,174	^R 531	^R 3,705	43	14	^R 233	3,312	189	3,501
000 January	^R 266	^R 58	^R 324	4	1	NA	^R 287	NA	NA
February	237	53	^R 290	4	1	NA	^R 271	NA	NA
March	241	53	^R 295	4	1	NA	259	NA	NA
April	227	_ 51	278	4	1	NA	^R 246	NA	NA
May	254	^R 58	^R 312	4	1	NA	^R 267	NA	NA
June	268	63	^R 331	5	2	NA	^R 299	NA	NA
July	279	^R 74	^R 353	5	2	NA	^R 317	NA	NA
August	R 287	80	^R 367	7	1	NA	R 331	NA	NA
September	245	74 8 71	^R 319	5	1	NA	^R 305 B 374	NA	NA
October	228 8 227	R 71	R 299	3	1	NA	R 274	NA	NA
November	R 227	R 71	297 R 225	4	1	NA	^R 265	NA	NA
December Total	255 ^R 3,015	^R 80 ^R 785	^R 335 ^R 3,800	3 50	3 15	NA ^R 214	292 ^R 3,413	NA F 208	NA ^R 3,621
									-
DO1 January	^R 240	^R 93	^R 333 ^{RF} 296	3	2	NA	^R 310	NA	NA
February	^{RF} 230 ^F 245	F 66 F 69	F 313	3 4	3	NA	^{RF} 273 ^F 274	NA	NA
March 3-Month Total	E 715	E 228	E 943	4 10	1 5	NA NA	E 858	NA NA	NA NA
00 3-Month Total	745	164	908	11	2 5	NA	817	NA	NA

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

^b Electricity transmitted across U.S. borders with Canada and Mexico.

^c Energy losses that occur between the point of generation and delivery to the customer, and data collection frame differences and nonsampling error. See Note 11 at end of Section 2 for discussion on electrical system energy

losses. ^d Beginning in 1996, includes sales to ultimate consumers by power marketers. See box on Table 7.5 for additional information.

^e Nonutility facility use of onsite net electricity generation, and nonutility

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

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

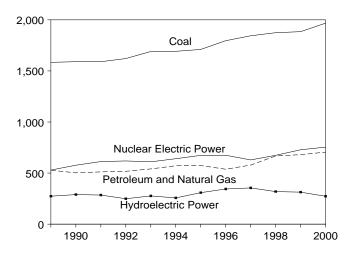
Notes: Totals may not equal sum of components due to independent rounding. Geographic coverage is the 50 states and the District of Columbia.

Sources: Net Generation: Tables 7.2-7.4. Imports and Exports: See end of section. Losses and Unaccounted for: Calculated. End Use: Table 7.5.

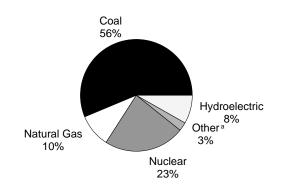
Figure 7.2 Electricity Net Generation

(Billion Kilowatthours, Except as Noted)

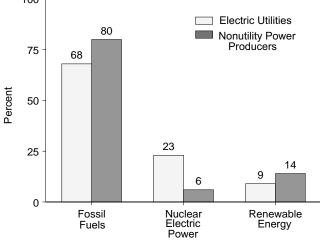
By Major Source, 1989-2000



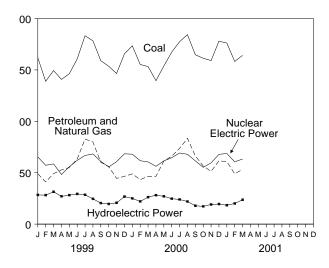
Electric Utility Sources, 2000



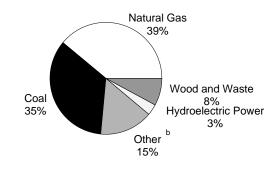
Shares of Net Generation by Producer Type and Source Category, 2000



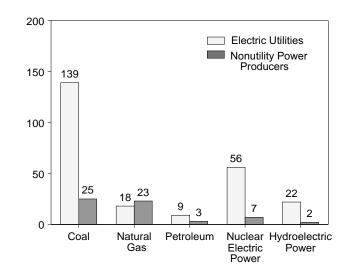
By Major Source, Monthly



Nonutility Power Producer Sources, 2000



By Selected Source, March 2001



^aPetroleum, geothermal, wood, waste, wind, and solar.

^bPetroleum, other gases, nuclear electric power, geothermal, wind, solar, batteries, chemicals, hydrogen,

pitch, sulfur, and purchased steam. Note: Because vertical scales differ, graphs should not be compared. Source: Table 7.2-7.4.

Table 7.2 Electricity Net Generation

(Million Kilowatthours)

		Fossil	Fuels					R	enewable	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	Geo- thermal	Wood ^f	Waste ^g	Wind	Solar ^h	Total ⁱ
1989 Total	1,583,824	163,861	363,942	(^j)	529,402	(^k)	273,665	14,879	27,728	9,958	2,280	623	2,971,863
1990 Total		124,048	378,342	(i)	576,974	-3,508	293,013	15,788	30,413	13,163	3,035	646	3,024,867
1991 Total		118,957	392,590	(f)	612,642	-4,541	289,506	16,040	33,165	15,750	3,019	759	3,071,329
1992 Total		99.424	418,301	(i)	618.841	-4,177	253.088	16.422	35.580	17,777	2.888	727	3,083,367
1993 Total	,- ,	112,353	428,417	(i)	610,367	-4,036	280,494	17,025	36,788	18,520	3,022	874	3,196,924
1993 Total		105,503	420,417	12,110	640,492	-4,030	260,494	16,756	37,804	19,084	3,022	803	3,190,924
			405,920	13,506	673,402	-3,378	311,004	14,359	36,396	20,279	3,447	803	
1995 Total		75,260										879	3,357,837
1996 Total 1997 Total		81,683 93,025	455,835 485,440	14,169 11,175	674,729 628.644	-3,088 -4,041	347,448 358,946	15,126 14,569	36,779 34,231	20,672 20,585	3,376 3,222	879	3,446,994 3,494,222
1997 Total	,- , -	126,932	485,440 540,638	8,514	673,702	-4,041	323,330	14,569	34,231	20,585	2,988	856	3,494,222
			_	-			-			-	-		_
1999 January		13,247	^E 35,740	^E 950	65,399	^R -554	28,954	^R 1,118	^E 3,442	^{RE} 2,321	207	9	^R 312,769
February	_ 138,946	10,287	^E 30,813	^E 836	57,235	^R -357	28,552	^R 983	^E 2,803	^{RE} 2,171	226	17	^R 272,513
March		11,264	^E 37,848	^E 925	58,578	^R -380	31,846	^R 1,091	^E 3,009	^{RE} 2,240	296	27	^R 296,130
April		9,916	[⊾] 42,826	^E 947	48,315	^R -464	27,479	^R 1,046	^E 2,959	^{RE} 2,346	392	47	^R 276,618
May	146,243	10,509	^E 44,552	^E 966	55,809	^R -676	28,882	^R 1,115	^E 3,002	^{RE} 2,357	586	86	^R 293,430
June	^R 160,690	11,641	^E 51,665	^E 1,076	62,025	^R -571	29,957	^R 1,294	^E 2,930	^{RE} 2,311	581	142	^R 323,740
July	^R 183,270	15,340	^E 67,454	^E 1,377	66,807	^R -606	29,131	^R 1,406	^E 3,355	^{RE} 2,321	568	141	^R 370,564
August	^R 178,333	12,953	^E 66,936	^E 1,374	68,283	^R -761	25,341	^R 1,455	^E 3,257	^{RE} 2,303	487	142	^R 360,104
September		8,769	^E 51,390	^E 1,256	61,032	^R -424	20,900	^R 1,395	^{RE} 3,788	RE 2,192	361	114	R 309,739
October		7,267	E 48,790	E 1,308	55,597	^R -472	20,074	^R 1,448	^E 3,136	E 2,031	294	67	R 293,157
November		5,819	^E 38,658	^E 1,129	60,754	^R -449	21,176	^R 1,335	E 2,922	^{RE} 2,199	225	39	^R 280,272
December		6.548	E 39.977	E 1,185	68,420	^R -393	27.190	^R 1,329	E 2,997	RE 2,309	266	17	R 315,508
Total		123,560	E 556,649	E 13,330	728,254	^R -6,107	319,484	R 15,015	RE 37,600	RE 27,101	4,488	848	R 3,704,544
2000 January	^R 173,505	^R 8,318	^{RE} 40,546	^E 1,147	68,013	^R -489	^R 25,515	1,199	^{RE} 3,409	^{RE} 2.008	^R 390	^E 35	^R 323,596
February	- ·	^R 5.713	RE 37,583	E 1,097	61.688	^R -417	^R 22,497	1.073	E 3.225	RE 1.978	^R 367	E 47	R 290.175
March		R 4,893	RE 41.580	E 1,096	60,494	^R -547	R 26.794	1,065	E 3.370	RE 1.077	427	E 60	^R 294,561
April		4,900	^{RE} 41.591	^E 1,058	56,252	^R -383	^R 28,546	1,109	E 3,237	RE 2.026	493	E 69	^R 278,481
May		^R 7,829	RE 53,495	^E 1,247	61,479	^R -492	R 27,540	1,133	RE 3,055	RE 2,118	^R 460	E 76	R 311,703
June		R 10,076	^{RE} 55,997	E 1,371	64,595	^R -561	R 25,312	1,133	E 3,203	RE 2,042	^R 427	E 105	R 331,025
July		^R 9.659	RE 63,950	^E 1,479	69.171	^R -319	^R 24.316	1,144	^{RE} 3,516	RE 2.1042	398	E 102	R 353.039
	n / ·	^R 12,198	RE 71.295	^E 1,686	,	R-319	R 22,385		E 3,318	RE 2,104	398 407	E 102	
August			RE 56.172		67,954 ^R 61,549	^R -641	^R 18,515	1,250	E 3,318	RE 1.995		E 94	^R 366,678 ^R 318,985
September		^R 10,224		E 1,475				1,208		RE 2.067	380	E 49	
October		^R 8,989	RE 47,586	E 1,377	55,240	^R -415	^R 17,677	1,244	E 3,396		442	⊑ 49 ^E 57	^R 299,027
November		^R 8,222	RE 43,084	E 1,319	59,579	^R -367	^R 19,467	1,251	RE 3,233	RE 2,039	418		^R 297,395
December Total		^R 17,761 ^R 108,781	^{RE} 43,829 ^{RE} 596,708	^E 1,320 ^{RE} 15,672	67,881 ^R 753,893	^R -530 ^R -5,552	^R 20,070 ^R 278,633	1,303 14,197	^E 3,294 ^{RE} 39,498	^{RE} 2,014 ^{RE} 24,590	343 R 4,953	^E 44 ^E 844	^R 335,280 ^R 3,799,944
			-				-	,			-		
2001 January		^R 18,971	^R 41,830	^R 1,347	^R 68,655	^R -428	^R 18,797	^R 1,315	^R 3,841	^R 2,455	^R 358	^R 12	^R 333,306
February		^{RF} 13,063	^{RF} 35,927	^F 1,190	^F 60,663	^F -569	F 20,637	^F 1,112	F 3,393	^F 2,144	^F 365	F 47	^{RF} 296,212
March	^F 164,207	F 12,202	F 41,038	F 1,193	^F 63,288	F-670	^F 24,372	F 1,113	F 3,758	F 2,377	^F 410	F 53	^F 313,340
3-Month Total	^E 498,598	^E 44,236	^E 118,795	^E 3,729	E 192,606	^E -1,667	^E 63,806	^E 3,541	E 10,991	E 6,977	^E 1,133	^E 112	^E 942,859
2000 3-Month Total	482,082	18,923	119,710	3,340	190,194	-1,453	74,805	3,337	10,003	5,063	1,185	142	908,332
1999 3-Month Total	450,268	34,799	104,401	2,711	181,213	-1,291	89,352	3,192	9,254	6,732	728	53	881,411

 $^{\rm a}\,$ Coal, fine coal, anthracite culm, bituminous gob, lignite waste, tar coal, waste

b Fuel oil nos. 1, 2, 4, 5, and 6, crude oil, petroleum coke, kerosene, liquid butane, liquid propane, methanol, liquid byproducts, oil waste, sludge oil, and tar oil. ^c Includes supplemental gaseous fuels at electric utilities.

^d Blast furnace gas, coke oven gas, butane gas, propane gas, refinery gas, and other process and waste gases derived from coal, petroleum, and natural gas. ^e Pumped storage facility production minus energy used for pumping.

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

^g Municipal solid waste, landfill gas, methane, digester gas, liquid acetonitrile

waste, tall oil, waste alcohol, medical waste, paper pellets, sludge waste, solid

^h Solar thermal and photovoltaic energy.
 ⁱ Includes batteries, chemicals, hydrogen, pitch, sulfur, and purchased steam, which are not separately displayed on this table.

j Included in natural gas.

k Included in conventional hydroelectric power.

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

Notes: Totals may not equal sum of components due to independent rounding. Geographic coverage is the 50 states and the District of Columbia. Sources: Tables 7.3 and 7.4.

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

Table 7.3 Electricity Net Generation at Electric Utilities

(Million Kilowatthours)

	F	ossil Fuels					F	Renewable	Energy			
	Coal	Petro- leum ^a	Natural Gas ^b	Nuclear Electric Power	Hydro- electric Pumped Storage ^c	Conven- tional Hydro- electric Power	Geo- thermal	Wood ^d	Waste ^e	Wind	Solar ^f	Total
73 Total	847,651	314,343	340,858	83,479	(^g)	272,083	1,966	130	198	0	0	1,860,710
74 Total	828,433	300,931	320,065	113,976	(°)	301,032	2,453	68	182	Ō	Ō	1,867,140
75 Total	852,786	289,095	299,778	172,505	(g)	300,047	3,246	18	174	0	0	1,917,649
76 Total	944,391	319,988	294,624	191,104	(g)	283,707	3,616	84	182	0	0	2,037,696
77 Total	985,219	358,179	305,505	250,883	(g)	220,475	3,582	308	173	0	0	2,124,323
78 Total	975,742	365,060	305,391	276,403	(^g)	280,419	2,978	197	140	0	0	2,206,331
79 Total	1,075,037	303,525	329,485	255,155	(g)	279,783	3,889	300	198	0	0	2,247,372
80 Total	1,161,562	245,994	346,240	251,116	(g)	276,021	5,073	275	158	0	0	2,286,439
81 Total	1,203,203	206,421	345,777	272,674	(^g)	260,684	5,686 4,843	245 196	123 125	0	0	2,294,812 2,241,211
082 Total 083 Total	1,192,004 1,259,424	146,797 144,499	305,260 274,098	282,773 293,677	(9)	309,213 332,130	4,643	216	125	3	0	2,241,211
84 Total	1,341,681	119,808	297,394	327,634	(9)	321,150	7,741	461	425	6	5	2,416,304
85 Total	1,402,128	100,202	291,946	383,691	(9)	281,149	9,325	743	640	6	11	2,469,841
86 Total	1,385,831	136,585	248,508	414,038	(g)	290,844	10,308	492	685	4	14	2,487,310
87 Total	1,463,781	118,493	272,621	455,270	(9)	249,695	10,775	783	694	4	10	2,572,127
88 Total	1,540,653	148,900	252,801	526,973	(g)	222,940	10,300	936	738	1		2,704,250
89 Total	1,553,661	158,318	266,598	529,355	(°)	265,063	9,342	972	993	(s)	3	2,784,304
90 Total	1,559,606	117,017	264,089	576,862	-3,508	283,434	8,581	810	1,257	(s)	2	2,808,151
91 Total	1,551,167	111,463	264,172	612,565	-4,541	280,061	8,087	732	1,314	(s)	3	2,825,023
92 Total	1,575,895	88,916	263,872	618,776	-4,177	243,736	8,104	816	1,276	(s)	3	2,797,219
93 Total	1,639,151	99,539	258,915	610,291	-4,036	269,098	7,571	890	1,100	(s)	4	2,882,525
94 Total	1,635,493	91,039	291,115	640,440	-3,378	247,071	6,941	765	1,224	(s)	3	2,910,712
95 Total	1,652,914	60,844	307,306	673,402	-2,725	296,378	4,745	633	1,016	11	4	2,994,529
96 Total	1,737,453	67,346	262,730	674,729	-3,088	331,058	5,234	788	1,179	10	3	3,077,442
97 Total	1,787,806	77,753	283,625	628,644	-4,041	341,273	5,469	739	1,244	6	3	3,122,522
98 Total	1,807,480	110,158	309,222	673,702	-4,441	308,844	5,176	719	1,305	3	3	3,212,171
999 January	155,033	9,746	17,200	65,399	-548	27,679	414	70	99	2	(s)	275,093
February	133,065	7,700	14,482	57,235	-356	26,899	352	49	105	2	(s)	239,532
March	141,907	8,238	19,785	58,578	-377	30,061	397	39	107	2	(s)	258,737
April	133,566	6,947	24,328	48,315	-462	25,624	429	57	117	2	(s)	238,923
May	138,729	7,249	25,684	55,809	-672	27,224	14	75	124	1	(s)	254,238
	151,546	7,956	30,659	62,025	-558	28,658	13	52 66	119 112	1	(s)	280,471
July	171,686 167,063	11,563 9,727	40,575 40,102	66,519 67,842	-595 -746	27,828 24,153	13 13	63	105	2	(s)	317,770 308,324
August September	148,884	6,113	26,865	60,666	-407	19,623	13	56	103	2	(s) (s)	261,922
October	141,960	5,061	20,805	55,099	-407	18,696	13	46	107	2	(s) (s)	243,781
November	135,784	3,492	16,610	60,285	-434	19,876	13	61	106	2	(S)	235,794
December	148,455	3,139	16,841	67,265	-373	23,595	14	50	102	3	(s)	259,090
Total	1,767,679	86,929	296,381	725,036	-5,982	299,914	1,698	684	1,307	23	3	3,173,674
000 January	^R 153,871	^R 4.771	^R 18,152	66,214	^R -470	^R 23,281	14	44	^R 111	^R 3	(s)	^R 265.991
February	^R 137,477	^R 3,184	^R 16,166	60,053	^R -401	^R 20,654	13	59	^R 115	R 4	(s) (s)	R 237,324
March	^R 135,329	^R 2,974	^R 20,186	58,704	^R -534	^R 24.531	13	61	^R 131	2	(S)	R 241,397
April	^R 122,437	3,110	R 20,937	54,514	^R -342	R 26,172	13	58	^R 131	R2	(s)	R 227,031
May	^R 134,171	^R 5,743	^R 29,146	59,864	^R -435	^R 25,190	13	55	^R 140	2	(s)	R 253,890
June	^R 145,722	^R 7,395	^R 29,226	62,973	^R -500	^R 23,136	13	48	^R 113	2	(s)	R 268,128
July	^R 150,690	^R 7,004	^R 35,077	64,538	^R -247	^R 22,167	13	59	^R 118	2	(s)	R 279,421
August	^R 156,643	^R 8,689	^R 38,381	62,905	^R -317	^R 20,193	13	61	^R 113	_ 2	(s)	^R 286,682
September	^R 139,802	^R 7,488	^R 27,366	54,521	^R -570	^R 16,352	11	55	^R 108	^R 2	(s)	^R 245,137
October	^R 137,211	^R 5,758	^R 20,693	49,097	^R -354	^R 15,788	12	67	^R 116	2	(s)	^R 228,389
November	^R 134,200	R 4,914	^R 17,332	^R 52,841	^R -314	^R 17,602	12	65	^R 107	4	(s)	R 226,765
December Total	^R 149,065 ^R 1,696,619	^R 11,150 ^R 72,180	^R 18,054 ^R 290,715	59,209 ^R 705,433	^R -475 ^R -4,960	^R 18,088 ^R 253,155	13 151	67 700	^R 55 ^R 1,358	2 R 29	(s) 3	R 255,229 R 3,015,383
		_			-				-			
01 January	^R 147,016	^R 11,705	^R 15,530	^R 48,823	^R -372	^R 17,054	^R 14	^{RE} 117	^{RE} 75	^R 5	(s) F(s)	R 239,966
February	^{RF} 134,508	^{RF} 10,037	^{RF} 12,702	F 53,985	F-519	F 19,087	F 12	F 52	F 95	F2	_ (s)	^{RF} 229,963
March 3-Month Total	^F 139,252 ^E 420,776	F 9,020 E 30,762	^F 17,746 ^E 45,977	^F 56,321 ^E 159,129	^F -619 ^E -1,510	^F 22,821 ^E 58,962	F13 ⊑39	^F 58 ^E 227	F 107 E 276	F3 ⊑9	F(S) E(S)	F 244,721 E 714,650
	-	-		-							.,	
00 3-Month Total	426,678	10,929	54,505	184,971	-1,405	68,466	39	164	357	9	0	744,71

^a Fuel oil nos. 1, 2, 4, 5, and 6, crude oil, kerosene, and petroleum coke.
 ^b Includes supplemental gaseous fuels.
 ^c Pumped storage facility production minus energy used for pumping.
 ^d Wood, wood waste, wood liquors, wood sludge, peat, railroad ties, and utility

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

 ^f Solar thermal and photovoltaic energy.
 ^g Included in conventional hydroelectric power.
 R=Revised. NA=Not available. E=Estimate. F=Forecast. (s)=Less than 500 thousand kilowatthours.

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

Electricity Net Generation at Nonutility Power Producers Table 7.4

(Million Kilowatthours)

		Fossil	Fuels					F	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	Geo- thermal	Wood ^f	Waste ^g	Wind	Solar ^h	Total ⁱ
1989 Total ^j	30.163	5.543	97,343	(^k)	47	0	8,602	5,537	26,756	8,965	2,279	621	187,558
1990 Total	30,699	7,031	114,253	(k)	113	ŏ	9,580	7,207	29,603	11,906	3,035	644	216,716
1991 Total	38,773	7,494	128,419	(^k)	77	Ō	9,446	7.953	32,433	14,435	3.019	756	246,306
1992 Total	45,189	10,508	154,429	(k)	65	Ō	9,352	8,318	34,764	16,500	2,887	724	286,148
1993 Total	50,859	12,814	169,502	(k)	76	Ō	11,396	9,454	35,898	17,420	3,022	870	314,399
1994 Total	56,197	14,464	174,813	12,110	52	ŏ	13,095	9,816	37,039	17,860	3,447	799	343,087
1995 Total	57,261	14,416	191,235	13,506	0	Ő	14,626	9,614	35,763	19,263	3,153	799	363,308
1996 Total	58,257	14,337	193,106	14,169	ŏ	ŏ	16,390	9,892	35,991	19,493	3,366	876	369,552
1997 Total	56,298	15,272	201,816	11,175	ŏ	ŏ	17,673	9,100	33,492	19,341	3,216	866	371,700
1998 Total	66,466	16,775	231,415	8,514	Ő	Ő	14,486	9,550	31,070	19,981	2,985	854	405,702
1999 January	^R 6.904	3,501	^E 18.540	^E 950	0	^R -6	1,275	^R 703	^E 3.372	RE 2.222	205	9	^R 37,675
February	^R 5,881	2,588	E 16,331	E 836	Ő	^R -1	1,653	^R 631	E 2,754	RE 2,067	224	17	^R 32,981
March	^R 7.478	3,026	E 18,063	E 925	0 0	^R -3	1.785	^R 695	E 2.970	RE 2,134	294	27	^R 37,393
April	^R 7.243	2,969	E 18,498	E 947	Ő	R-2	1.855	^R 616	E 2.902	RE 2.230	390	47	^R 37,695
May	^R 7,513	3,260	E 18,868	E 966	0	R -4	1,658	^R 1,102	E 2,927	RE 2,233	584	86	^R 39,193
June	^R 9,143	3,685	E 21,006	E 1,076	0	^R -12	1,299	^R 1,281	E 2.878	RE 2,193	579	141	^R 43,269
July	^R 11,584	3,778	E 26,879	E 1,377	287	R-11	1,304	^R 1,393	E 3,289	RE 2,209	566	141	^R 52,794
August	^R 11.270	3,226	E 26,834	^E 1,374	442	^R -14	1,304	^R 1,442	E 3,194	RE 2,203	485	141	^R 51,781
September	^R 10,081	2,656	E 24,526	E 1,256	367	^R -17	1,100	^R 1,382	E 3,731	RE 2.085	359	114	^R 47,817
October	^R 11,657	2,030	E 25,540	E 1,308	499	^R -18	1,278	^R 1,434	E 3,090	E 1,924	292	66	^R 49,376
November	^R 10,681	2,200	E 22.049	E 1.129	469	^R -16	1,301	^R 1.322	E 2.861	E 2.093	223	39	^R 44.478
December	^R 17,207	3,409	E 23,136	^E 1,129	1,155	^R -20	3,596	^R 1,315	E 2,948	RE 2,207	223	39 17	^R 56,419
Total	^R 116,642	36,631	E 260,268	E 13,330	3,218	^R -124	19,570	^R 13,316	RE 36,916	RE 25,794	4,465	845	^R 530,871
2000 January	^R 19,634	^R 3.547	^{RE} 22.394	^E 1,147	1,799	-19	^R 2,234	1,186	^E 3,365	^{RE} 1,897	387	^E 35	^R 57,605
February	^R 17,847	^R 2.528	RE 21,417	E 1,097	1,635	-19	^R 1,842	1,061	^{RE} 3,167	^{RE} 1,863	364	E 47	^R 52.851
March	^R 17,923	R 1,919	RE 21,394	E 1,096	1,790	-13	^R 2,263	1,052	E 3,308	^{RE} 1.946	426	E 60	^R 53,164
April	^R 17,148	^R 1,791	RE 20.654	E 1,058	1,737	(s)	^R 2,374	1,095	E 3,179	RE 1.896	491	E 69	^R 51,450
	^R 19,593	^R 2.086	RE 24,349	^E 1,247	1,615	^R -57	R 2,374	1,120	E 2.999	^{RE} 1.978	458	E 76	^R 57,814
May	^R 21,593	^R 2,681	RE 26,771	E 1,371	1,613	^R -61	^R 2,176	1,120	E 3,155	RE 1.929	438	E 104	^R 62,896
	^R 26,755	^R 2,656	RE 28,873	^E 1,479		^R -71	^R 2,178		E 3,155	RE 1,929	424 397	E 104	^R 73.618
July	^R 26,755 ^R 27,707	^R 3.509	RE 32,915	^E 1,686	4,633	^R -73	^R 2,148	1,205 1,237	E 3,456	RE 2.008	397 405	^E 102	^R 79,996
August			RE 28,806	^E 1,686	5,049	-73 ^R -71	^R 2,192		E 3,257	E 1,887	405 379	E 94	
September	^R 24,967 ^R 24,161	^R 2,735 ^R 3.232	RE 28,806 RE 26,894	E 1,475	7,028	^R -60	^R 1,889	1,197 1,232	E 3,188	^{RE} 1,951	379 440	E 49	^R 73,849 ^R 70.637
October			RE 25,894		6,143	^R -54				E 1,951		= 49 E 57	
November	R 24,894	R 3,307	RE 25,752 RE 25,776	^E 1,319 ^E 1,320	6,737		^R 1,865 ^R 1,983	1,238	^E 3,167 ^{RE} 3,227	RE 1,932	414 341	E 44	^R 70,630 ^R 80,051
December Total	^R 28,884 ^R 271,106	^R 6,611 36,601	RE 305,993	RE 15,672	8,672 48,460	-56 ^R -592	^R 25,478	1,290 14,046	RE 38,798	RE 23,232	4,925	E 842	^R 784,561
2001 Jonuary	^R 29,137	^R 7.266	RE 26,300	^R 1.347	^R 19.831	^R -56	^R 1,743	^R 1.302	^{RE} 3.724	RE 2.381	R 353	^R 12	^R 93,340
2001 January	F 23,730	F 3.026		^F 1,190	^F 6,678	F-50	F 1,550	F 1.100	F 3.341	F 2,049	F 363	F 47	^F 66.249
February			F 23,226										
March 3-Month Total	^F 24,955 F 77,822	^F 3,182 F 13,474	F 23,292 F 72,818	[⊦] 1,193 F 3,729	^F 6,967 F 33,477	^F -50 F -157	^F 1,550 F 4,844	F 1,100 F 3,502	F 3,700 F 10,765	F 2,270 F 6,700	F 407 F 1,123	^F 53 F 112	^F 68,619 F 228,209
2000 3-Month Total	55.404	7.994	65,205	3,340	5,224	-48	6.339	3.298	9.840	5,706	1.177	142	163,620
1999 3-Month Total	20,263	7,994 9,116	52,934	2,711	5,224	-40 -10	4,714	2,029	9,840 9,097	6,422	723	52	103,020

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

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

 $^{\rm d}$ Blast furnace gas, coke oven gas, butane gas, propane gas, refinery gas, and other process and waste gases derived from coal, petroleum, and natural gas.

Pumped storage facility production minus energy used for pumping.

f Wood, wood waste, black liquor, red liquor, spent sulfite liquor, wood sludge, ⁹ Municipal solid waste, landfill gas, methane, digester gas, liquid acetonitrile

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

ⁱ Includes batteries, chemicals, hydrogen, pitch, sulfur, and purchased steam, which are not separately displayed on this table.

^j Data for 1989-1991 were collected for facilities with capacities of 5 megawatts

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

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

Notes: Due to restructuring of the electric power sector, the sale of generation assets is resulting in reclassification of plants from electric utility to nonutility plants. Totals may not equal sum of components due to independent rounding.

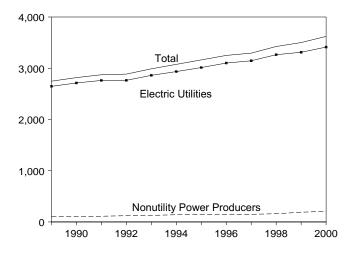
Geographic coverage is the 50 states and the District of Columbia.

Sources: 1989-1997: Energy Information Administration (EIA), Form EIA-867, "Annual Nonutility Power Producer Report." 1998: EIA, Form EIA-860B, "Annual Electric Generator Report-Nonutility" 1999 and 2000: EIA, Form EIA-900, Electric Generator Report-Nonutility" January 2001: EIA, Form EIA-906, "Power "Monthly Nonutility Power Report." February and March 2001: Derived from EIA's Short-Term Plant Report." Integrated Forecasting System. See related note on page 79 (Note 9).

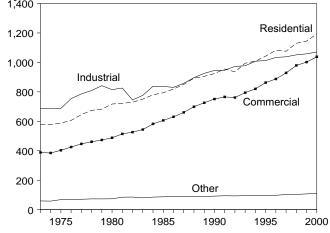
Figure 7.3 Electricity End Use

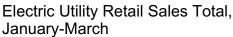
(Billion Kilowatthours)

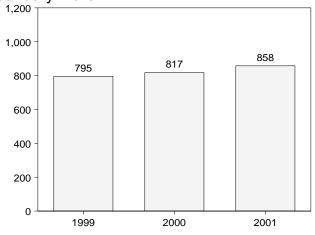
Electricity End Use Overview, 1989-2000



Electric Utility Retail Sales by Sector, 1973-2000

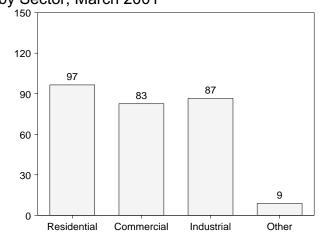




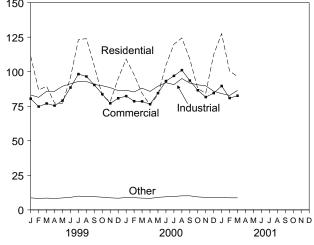


Note: Because vertical scales differ, graphs should not be compared. Source: Table 7.5.

Electric Utility Retail Sales by Sector, March 2001



Electric Utility Retail Sales by Sector, Monthly



Electric Utility Retail Sales Total, Monthly

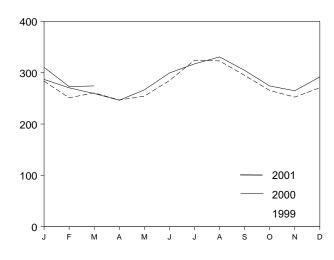


Table 7.5 Electricity End Use

(Million Kilowatthours)

		Electric	c Utility Retail	Sales ^a		Nonuti	ility Power Pro	ducers	
	Residential	Commercial	Industrial	Other ^b	Total	Direct Use ^c	Sales to End Users	Total	Total ^a
973 Total	579,231	388,266	686,085	59,326	1,712,909	NA	NA	NA	NA
974 Total	578,184	384,826	684,875	58,039	1,705,924	NA	NA	NA	NA
975 Total	588,140	403,049	687,680	68,222	1,747,091	NA	NA	NA	NA
976 Total	606,452	425,094	754,069	69,631	1,855,246	NA	NA	NA	NA
977 Total	645,239	446,514	786,037	70,571	1,948,361	NA	NA	NA	NA
978 Total 979 Total	674,466 682,819	461,163 473,307	809,078 841,903	73,215	2,017,922	NA NA	NA NA	NA NA	NA NA
980 Total	717,495	488,155	815,067	73,070 73,732	2,071,099 2,094,449	NA	NA	NA	NA
981 Total	722,265	514,338	825,743	84,756	2,034,445	NA	NA	NA	NA
982 Total	729,520	526,397	744,949	85,575	2,086,441	NA	NA	NA	NA
983 Total	750,948	543,788	775,999	80,219	2,150,955	NA	NA	NA	NA
984 Total	780,092	582,621	837,836	85,248	2,285,796	NA	NA	NA	NA
985 Total	793,934	605,989	836,772	87,279	2,323,974	NA	NA	NA	NA
986 Total	819,088	630,520	830,531	88,615	2,368,753	NA	NA	NA	NA
987 Total	850,410	660,433	858,233	88,196	2,457,272	NA	NA	NA	NA
988 Total	892,866	699,100	896,498	89,598	2,578,062	NA	NA	NA	NA
989 Total	905,525	725,861	925,659	89,765	2,646,809	d 82,742	^d 17,687	^d 100,430	2,747,239
990 Total	924,019	751,027	945,522	91,988	2,712,555	^d 84,367	^d 19,824	^d 104,191	2,816,746
991 Total	955,417	765,664	946,583	94,339	2,762,003	^d 99,623	^d 11,419	^d 111,042	2,873,045
992 Total	935,939	761,271	972,714	93,442	2,763,365	110,988	10,786	121,774	2,885,140
993 Total	994,781	794,573	977,164	94,944	2,861,462	111,322	15,569	126,891	2,988,353
994 Total	1,008,482	820,269	1,007,981	97,830	2,934,563	123,283	17,626	140,909	3,075,472
995 Total	1,042,501	862,685	1,012,693	95,407	3,013,287	133,609	15,548	149,157	3,162,443
996 Total	1,082,512	887,445	1,033,631	97,539	3,101,127	134,644	14,284	148,928	3,250,05
997 Total	1,075,880	928,633	1,038,197	102,901	3,145,610	130,836	18,147	148,983	3,294,593
998 Total	1,130,109	979,401	1,051,203	103,518	3,264,231	134,041	25,777	159,818	3,424,049
999 January	111,219	80,473	83,152	8,689	283,533	NA	NA	NA	NA
February	86,705	74,720	81,448	8,277	251,150	NA	NA	NA	NA
March	89,450	76,978	85,802	8,544	260,773	NA	NA	NA	NA
April	77,285	75,453	85,814	8,236	246,788	NA	NA	NA	NA
May	77,152	79,060	89,495	8,650	254,356	NA	NA	NA	NA
June	95,915	88,513	91,226	9,079	284,733	NA	NA	NA	NA
July	123,126	98,260	92,951	9,978	324,315	NA	NA	NA	NA
August	123,960 104,055	96,523 90,406	92,930 90,750	9,568 9,588	322,980 294,798	NA NA	NA NA	NA NA	NA NA
September October	82,605	90,406 83,776	90,750 89,839	9,588 9,180	265,399	NA	NA	NA	NA
November	78,288	77,076	88,454	8,711	252,529	NA	NA	NA	NA
December	95,163	80,759	86,356	8,453	270,732	NA	NA	NA	NA
Total	1,144,923	1,001,996	1,058,217	106,952	3,312,087	147,161	41,683	188,844	3,500,93
000 January	^R 109,058	^R 82,339	^R 86,602	^R 8.937	^R 286,936	NA	NA	NA	NA
	^R 97.785	^R 78.627	^R 85,341	^R 8,826	^R 270,580	NA	NA	NA	NA
February March	^R 84.358	^R 78,497	^R 88.061	^R 8,533	^R 259,448	NA	NA	NA	NA
April	^R 75.934	^R 76,460	^R 85,708	^R 8,330	^R 246,434	NA	NA	NA	NA
May	^R 83,429	^R 84,479	^R 89.535	^R 9.085	^R 266.528	NA	NA	NA	NA
June	^R 104,742	^R 93,219	^R 92,042	^R 9,471	^R 299,473	NA	NA	NA	NA
July	^R 119,907	^R 96,943	^R 90,629	^R 9,719	^R 317,198	NA	NA	NA	NA
August	^R 124,424	^R 101,128	^R 95,043	^R 10,174	^R 330.768	NA	NA	NA	NA
September	^R 109,078	^R 93,563	^R 91,737	^R 10,167	^R 304,545	NA	NA	NA	NA
October	^R 87,664	^R 86,559	^R 90,521	^R 9,382	^R 274,125	NA	NA	NA	NA
November	^R 84,449	^R 81,625	^R 89,753	^R 9,036	^R 264,863	NA	NA	NA	NA
December	^R 112,551	^R 84,497	^R 85,855	^R 8,963	^R 291,866	NA	NA	NA	NA
Total	^R 1,193,380	^R 1,037,936	^R 1,070,827	^R 110,622	^R 3,412,766	NA	NA	^F 208,400	^R 3,621,160
)01 January	^R 127,490	^R 89,662	^R 84,146	^R 9,164	^R 310,462	NA	NA	NA	NA
February	^{RF} 100,447	^{RF} 80,919	^{RF} 82,850	^{RF} 8,743	^{RF} 272,959	NA	NA	NA	NA
March	F 96,521	^F 82,566	^F 86,502	^F 8,743	^F 274,331	NA	NA	NA	NA
3-Month Total	^E 324,458	E 253,147	E 253,498	E 26,650	E 857,752	NA	NA	NA	NA
000 3-Month Total	291,201	239,464	260,004	26,295	816,964	NA	NA	NA	NA
999 3-Month Total	287,374	232,170	250,403	25,509	795,457	NA	NA	NA	NA

^a Beginning in 1996, includes sales to ultimate consumers by power marketers.

See box below for additional information. ^b Public street and highway lighting, other sales to public authorities, sales to railroads and railways, and interdepartmental sales. ^c Nonutility facility use of onsite net electricity generation.

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

R=Revised. E=Estimate. F=Forecast.

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

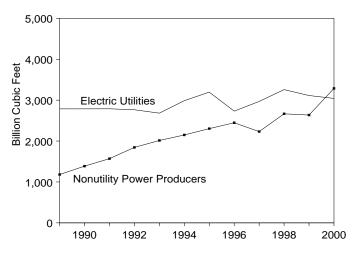
Sources: See end of section. Forecast values are derived from EIA's Short-Term Integrated Forecasting System. See related note on page 79 (Note 9).

Beginning in 1996, data include sales to ultimate consumers by power marketers in several State 'retail wheeling" pilot programs. In million kilowatthours, these were 3,317 in 1996; 5,849 in 1997; and 24,412 in 1998. In 1999 these sales totaled 76,188 million kilowatthours, of which 4,162 were to the residential sector; 31,395 to the commercial sector; 40,434 to the industrial sector; and 198 to other. See EIA, *Electric Sales and Revenue 1999*, Appendix C, for more information. for more information.

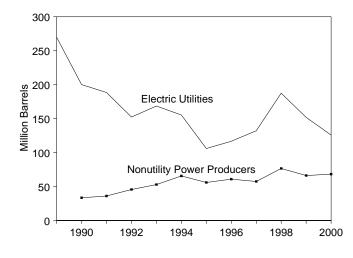
Figure 7.4 Consumption of Fossil Fuels To Generate Electricity

Coal Consumption, 1989-2000



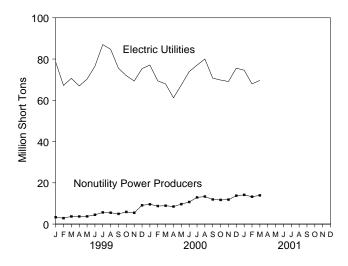


Petroleum Consumption, 1989-2000

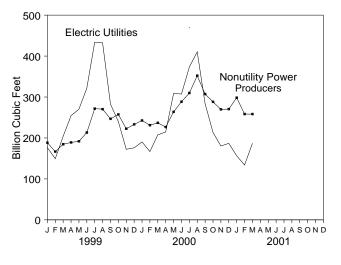


Note: • Petroleum includes petroleum coke, which is converted to liquid units at 5 barrels per short ton. • Because vertical scales differ, graphs should not be compared. Sources: Tables 7.7 and 7.8.

Coal Consumption, Monthly



Natural Gas Consumption, Monthly



Petroleum Consumption, Monthly

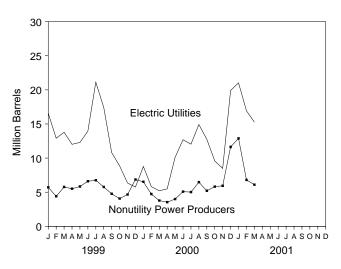


Table 7.6 Consumption of Fossil Fuels To Generate Electricity

			Petroleum		
	Coal ^a	Liquids ^b	Petroleum Coke	Total ^c	Natural Gas ^d
	Thousand	Thousand	Thousand	Thousand	Million
	Short Tons	Barrels	Short Tons	Barrels	Cubic Feet
989 Total	797,650	295,828	NA	NA	3,968,027
990 Total	805,860	223,932	1,927	233,570	4,174,073
991 Total	810.387	212.768	2,351	224,521	4,358,864
992 Total	824,467	179,211	3.749	197,955	4,610,465
993 Total	861,851	199,414	4,402	221,426	4,696,228
994 Total	869.531	192,893	5,615	220,966	5,136,392
995 Total	879,336	137,181	4,949	161,927	5,500,451
996 Total	927,880	151,718	5,165	177,544	5,179,827
997 Total 998 Total	953,274 967,716	160,740 232,889	5,764 6,239	189,561 264,086	5,199,816 5,924,484
550 Total			-		
999 January	^R 81,914	^R 20,609	^R 335	^R 22,285	^{RE} 364,779
February	^R 70,091	^R 16,064	^R 250	^R 17,312	^{RE} 315,902
March	^R 74.347	^R 16.866	^R 537	^R 19,552	^{RE} 388.691
April	^R 70.643	^R 15.419	R 422	^R 17,530	RE 443.369
May	^R 74.021	^R 16,386	R 350	^R 18.138	RE 462.292
June	^R 81,009	^R 18.787	R 355	^R 20,561	RE 534.831
July	^R 92.680	^R 26,302	R 316	^R 27,880	RE 705.507
August	^R 90.222	^R 21,318	^R 376	^R 23,199	RE 702.829
September	^R 80,460	^R 14,211	R 271	^R 15,567	RE 529,369
October	^R 77,826	^R 11,627	R 260	^R 12,927	^{RE} 497,503
	^R 74.825	^R 8.791	^R 444		RE 394,910
November	,		^R 605	^R 11,011	
December	^R 84,478	^R 9,592		^R 12,615	RE 408,962
Total	^R 952,516	^R 195,971	4,416	^R 218,049	^{RE} 5,748,944
000 January	^R 86,680	^R 13,136	^R 432	^R 15,295	^{RE} 433,009
February	^R 78,180	^R 8,610	^R 386	^R 10,540	RE 398,053
March	^R 76,835	^R 7,139	^R 369	^R 8,986	^{RE} 444,525
April	^R 69,715	^R 7,282	350	^R 9,034	^{RE} 441,203
May	^R 77,092	^R 12,550	^R 310	^R 14,102	^{RE} 572,447
June	^R 84,601	^R 16,127	^R 329	^R 17,772	^{RE} 595,733
July	^R 89,976	^R 15,450	^R 321	^R 17,057	^{RE} 683,015
August	^R 93.366	^R 19.648	349	^R 21,391	^{RE} 762.448
September	^R 82,656	^R 16,231	^R 346	^R 17,962	^{RE} 590,715
October	^R 81,549	^R 13,778	R 326	^R 15,406	RE 501.618
November	^R 80.967	R 12.801	R 325	^R 14,426	RE 450.103
December	^R 89.348	^R 30.016	R 308	^R 31,554	RE 457.314
Total	^R 990,966	^R 172,769	4,255	^R 194,043	^E 6,330,184
004	-	P oo ooo	Paga	-	
001 January	^R 88,767	^R 32,230	R 336	^R 33,912	RE 455,004
February	^{RF} 81,209	^{RF} 22,178	^{RF} 308	^{RF} 23,719	^{RF} 392,160
March	^F 83,571	F 20,003	F 273	F 21,367	F 445,302
3-Month Total	^E 253,547	^E 74,411	^E 917	^E 78,998	^E 1,292,466
2000 3-Month Total	241,695	28,885	1,187	34,821	1,275,587
999 3-Month Total	226,352	53,539	1,122	59,149	1,069,372

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

^a Coal, and coke breeze.
 ^b Fuel oil nos. 1, 2, 4, 5, and 6, crude oil, kerosene, liquid butane, liquid propane, methanol, liquid byproducts, oil waste, sludge oil, and tar oil.
 ^c Petroleum coke is converted at 5 barrels per short ton.

^d Includes supplemental gaseous fuels at electric utilities.

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

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

Sources: Tables 7.7 and 7.8.

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

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

		Co	al				Petroleum			
	Anthra- cite ^a	Bituminous Coal ^b	Lignite	Total	Heavy Oil ^c	Light Oil ^d	Total Liquids	Petroleum Coke	Total ^e	Natural Gas ^f
		Thousand S	Short Tons		т	housand Barre	els	Thousand Short Tons	Thousand Barrels	Million Cubic Fee
072 Total	4 440	070 07E	40 704	200.242	0542 400	h47.050	EC0 040	507	EC0 704	2 000 470
973 Total 974 Total	1,443 1,498	376,975 378,643	10,794 11,670	389,212 391,811	⁹ 513,190 ⁹ 483,146	^h 47,058 ^h 53,128	560,248 536,274	507 625	562,781 539,399	3,660,172 3,443,428
975 Total	1,480	388,523	15,960	405,962	⁹ 467,221	^h 38,907	506,128	70	506,479	3,157,669
976 Total	1,350	425,205	21,817	448,371	9514,077	^h 41,843	555,920	68	556,261	3,080,868
977 Total	1,425	451,051	24,650	477,126	⁹ 574,869	h48,837	623,705	98	624,193	3,191,200
978 Total	1,064	448,763	31,407	481,235	⁹ 588,319	^h 47,520	635,839	398	637,830	3,188,363
979 Total	1,046	488,129	37,876	527,051	9 492,606	^h 30,691	523,297	268	524,636	3,490,523
980 Total	951	526,680	41,642	569,274	391,163	29,051	420,214	179	421,110	3,681,59
981 Total	1,221	550,784	44,792	596,797	329,798	21,313	351,111	139	351,806	3,640,154
982 Total	1,075	543,346	49,245	593,666	234,434	15,337	249,771	149	250,517	3,225,518
983 Total	1,036	570,108	54,067	625,211	228,984	16,512	245,497	261	246,804	2,910,76
984 Total	1,070	606,339	56,990	664,399	189,289	15,190	204,479	252	205,736	3,111,342
985 Total	1,033	631,885	60,923	693,841	158,779	14,635	173,414	231	174,571	3,044,08
986 Total	829 972	616,134	68,093 69,098	685,056 717 804	216,156	14,326 15,367	230,482 199,378	313 348	232,046 201,116	2,602,37
987 Total 988 Total	1,063	647,824 681,048	69,098 76,260	717,894 758,372	184,011 229,327	15,367	248,096	348 409	201,116	2,844,05 2,635,61
989 Total	1,003	688,504	77,335	766,888	241,960	25,491	267,451	517	270,038	2,035,01
990 Total	1,045	694,317	78,201	773,549	181.231	14,823	196,054	819	200,152	2.787.33
991 Total	994	691,275	79,999	772,268	171,157	13,729	184,886	722	188,494	2,789,01
992 Total	986	698,626	80,248	779,860	135,779	11,556	147,335	999	152,329	2,765,60
993 Total	951	732,736	79,821	813,508	149,287	13,168	162,454	1,220	168,556	2,682,44
994 Total	1,123	737,102	79,045	817,270	134,666	16,338	151,004	875	155,377	2,987,14
995 Total	978	749,951	78,078	829,007	86,584	15,565	102,150	761	105,956	3,196,50
996 Total	1,009	795,252	78,421	874,681	96,382	16,892	113,274	681	116,680	2,732,10
997 Total	1,014	821,823	77,524	900,361	109,989	15,157	125,146	1,400	132,147	2,968,453
998 Total	867	832,094	77,906	910,867	156,573	22,041	178,614	1,769	187,461	3,258,054
999 January	84	71,649	6,842	78,575	13,563	2,355	15,919	130	16,570	176,375
February	87	61,212	5,921	67,220	11,484	888	12,372	108	12,910	149,31
March	102	65,226	5,314	70,643	12,004	1,092	13,096	137	13,782	204,10
April	93	61,603	5,264	66,961	9,730	1,672	11,403	123	12,019	254,33
May	2	64,237	6,046	70,285	10,353	1,257	11,609	138	12,301	270,39
June	58 78	69,642	6,807	76,507	11,302	1,959	13,261	139 169	13,955	321,64
July	78	79,706	7,236	87,020	15,505	4,777	20,282		21,125	433,91
August September	48	77,452 68,729	7,202 6,744	84,729 75,520	13,528 8,967	2,972 1,260	16,500 10,227	186 115	17,431 10,803	432,40 282,64
October	48 59	65,350	6,529	71,938	7,259	1,200	8,281	115	8,861	240,00
November	NĂ	62,848	6,505	69,353	4,598	1,022	5,813	108	6,353	172,40
December	NA	68,254	7,115	75,369	4,010	1,059	5,068	138	5,756	175,87
Total	686	815,909	77,525	894,120	122,303	21,528	143,830	1,608	151,868	3,113,41
000 January	NA	^R 70,591	6,499	^R 77,090	^R 6,194	^R 1,769	^R 7,963	162	^R 8,772	^R 190,31
February	NA	^R 63,085	6,357	^R 69,442	^R 4,083	^R 1,068	^R 5,150	132	^R 5,810	^R 166,84
March	NA	^R 61,921	^R 6,004	^R 67,925	^R 3,859	^R 913	^R 4,772	87	^R 5,209	^R 207,54
April	NA	^R 56,301	4,912	^R 61,214	R 4,222	^R 824	^R 5,046	89	^R 5,493	^R 214,59
May	NA	^R 61,750	^R 5,678	^R 67,428	^R 7,781	^R 1,921	^R 9,702	81	^R 10,109	^R 308,78
June	NA	^R 67,458	6,452	^R 73,910	R 10,533	^R 1,659	^R 12,192	99	^R 12,687	R 307,21
July	NA	^R 69,993	7,058	^R 77,051	^R 9,792	^R 1,957	^R 11,749	58	^R 12,041	R 373,25
August	NA	^R 72,974	7,046	^R 80,021	^R 12,149	^R 2,198	^R 14,347	114	^R 14,915	R 410,34
September	NA	^R 64,397	6,328	R 70,725	R 10,836	R 1,485	R 12,321	87	R 12,757	R 283,53
October	NA	^R 63,225 ^R 62,711	6,610 86.404	R 69,835	^R 8,222 ^R 6,827	^R 1,023 ^R 1,292	R 9,245	69 74	^R 9,588 ^R 8,490	R 213,48
November December	NA NA	^R 69,129	^R 6,404 6,450	^R 69,114 ^R 75,579	^R 12,852	^R 6,668	^R 8,120 ^R 19,520	74 80	^R 19,918	^R 180,31 ^R 186,84
Total	NA	^R 783,536	^R 75,799	^R 859,335	^R 97,350	^R 22,779	^R 120,129	1,132	^R 125,788	^R 3,043,09
001 January	NA	^R 68,499	^R 6,101	^R 74,601	^R 14,200	^R 6,287	^R 20,487	^R 107	^R 21,024	^R 156.65
February	NA	^{RF} 62,131	^{RF} 5,816	^{RF} 67,947	^{RF} 14,778	^{RF} 1,260	^{RF} 16,038	^{RF} 177	RF 16,924	RF 133,83
March	NA	F 63,689	F 5,962	^F 69,651	F 13,086	F 1,395	F 14,481	F 157	F 15,265	F 186,97
3-Month Total	NA	E 194,319	^E 17,880	E 212,198	E 42,065	^E 8,942	^E 51,006	^E 441	^E 53,213	E 477,46
000 3-Month Total	NA	195,597	18,860	214,457	14,136	3,750	17,886	381	19,791	564,70
999 3-Month Total	273	198,088	18,077	216,439	37,051	4,335	41,386	375	43,263	529,80

a Includes anthracite sin stored b Includes subbituminous coal. Includes anthracite silt stored off-site.

⁶ For 1980 forward, fuel oil nos. 4, 5, and 6, and residual fuel oils.
 ⁶ For 1980 forward, fuel oil nos. 1 and 2, kerosene, and jet fuel.
 ⁶ Petroleum coke is converted at 5 barrels per short ton.

e f

Includes supplemental gaseous fuels.

^g For 1973-1979, data for steam plant consumption of petroleum are used as

estimates for heavy oil consumption. ^h For 1973-1979, data for gas turbine and internal combustion plant use of petroleum are used as estimates for light oil consumption.

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

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

Notes: Totals may not equal sum of components due to independent rounding. Geographic coverage is the 50 States and the District of Columbia. Sources: **1973-September 1977**: Federal Power Commission, Form FPC-4, "Monthly Power Plant Report." **October 1977-1979**: Federal Energy Regulatory Commission, Form FPC-4, "Monthly Power Plant Report." **1980-1989**: Energy Information Administration (EIA), *Electric Power Monthly*, April 2001, Table 14. **February and March 2001**: Derived from EIA's Short-Term Integrated Forecasting System. See related note on page 79 (Note 9).

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

			Petroleum		
	Coala	Liquids ^b	Petroleum Coke	Total ^c	Natural Gas ^d
	Thousand	Thousand	Thousand	Thousand	Million
	Short Tons	Barrels	Short Tons	Barrels	Cubic Feet
989 Total ^e	30,762	28,377	NA	NA	1,181,015
990 Total ^e	32.311	27.878	1.108	33.418	1.386.741
991 Total ^e	38,119	27,882	1,629	36,027	1,569,850
992 Total	44,607	31,876	2,750	45,626	1,844,857
993 Total	48,343	36,960	3,182	52,870	2,013,788
994 Total	52,261	41,889	4,740	65,589	2,149,246
995 Total	50,329	35,031	4,188	55,971	2,303,944
1996 Total	53,199	38,444	4,100	60.864	2,303,344
997 Total	52,913	35,594	4,364	57,414	2,231,363
998 Total	56,849	54,275	4,470	76,625	2,666,430
	^R 3,339	^R 4,690	^R 205	^R 5,715	^{RE} 188,404
999 January February	^R 2,871	^R 3.692	^R 142	^R 4,402	^{RE} 166,583
	^R 3.704	^R 3.770	R 400	^R 5,770	^{RE} 184.584
March	^R 3.682	^R 4.016	^R 299	^R 5.511	RE 184,584
April	^R 3,736	^R 4,777	^R 299	^R 5,837	RE 191,898
May	^R 4.502	^R 5.526			RE 213.185
June			^R 216	^R 6,606	
July	^R 5,660	^R 6,020	^R 147 ^R 190	^R 6,755	^{RE} 271,593 ^{RE} 270,424
August	^R 5,493	^R 4,818		^R 5,768	
September	^R 4,940	^R 3,984	^R 156	^R 4,764	RE 246,727
October	^R 5,888	^R 3,346	^R 144	^R 4,066	RE 257,501
November	^R 5,472	^R 2,978	^R 336	^R 4,658	^{RE} 222,502
December	^R 9,109	^R 4,524	^R 467	^R 6,859	RE 233,092
Total	^R 58,396	^R 52,141	2,808	^R 66,181	^{RE} 2,635,525
000 January	^R 9,590	^R 5,173	^R 270	^R 6,523	^E 242,693
February	^R 8,738	^R 3,460	^R 254	^R 4,730	^E 231,211
March	^R 8,910	^R 2,367	^R 282	^R 3,777	^E 236,980
April	^R 8,501	^R 2,236	261	^R 3,541	^E 226,604
May	^R 9,664	^R 2,848	^R 229	^R 3,993	^E 263,660
June	^R 10,691	^R 3,935	^R 230	^R 5,085	^E 288,515
July	^R 12,925	^R 3,701	^R 263	^R 5,016	^E 309,759
August	^R 13,345	^R 5,301	235	^R 6,476	^E 352,104
September	^R 11,931	^R 3,910	^R 259	^R 5,205	^E 307,180
October	^R 11,714	^R 4,533	^R 257	^R 5,818	^E 288,131
November	^R 11,853	^R 4,681	^R 251	^R 5,936	^E 269,785
December	^R 13,769	^R 10,496	^R 228	^R 11,636	E 270,468
Total	^R 131,631	^R 52,640	3,123	^R 68,255	^E 3,287,090
2001 January	^R 14,166	^R 11,743	^R 229	^R 12,888	^R 298,345
February	F 13,262	F 6,140	F 131	F 6,795	F 258,330
March	F 13,920	F 5,522	F 116	F 6,102	F 258,330
3-Month Total	E 41,348	E 23,405	E 476	E 25,785	E 815,005
2000 3-Month Total	27,238	11,000	806	15.030	^E 710,884
1999 3-Month Total	9,914	12,152	747	15,887	E 539,571

 a Coal, fine coal, anthracite culm, bituminous gob, lignite waste, tar coal, waste coal, and coke breeze. b Fuel oil nos. 1, 2, 4, 5, and 6, crude oil, kerosene, liquid butane, liquid

^b Fuel oil nos. 1, 2, 4, 5, and 6, crude oil, kerosene, liquid butane, liquid propane, methanol, liquid byproducts, oil waste, sludge oil, and tar oil. ^c Petroleum coke is converted at 5 barrels per short ton.

^d Natural gas only.

^e Data for 1989-1991 were collected for facilities with capacities of 5 megawatts or more. In 1992, the threshold was lowered to include facilities with capacities of 1 megawatt or more.

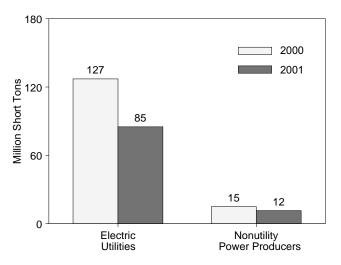
R=Revised. NA=Not available. E=Estimate. F=Forecast.

Notes: Data prior to 1999 are for fuels consumed to produce both electricity and useful thermal output; data for 1999 forward are for fuels consumed to

produce electricity only. Due to restructuring of the electric power sector, the sale of generation assets is resulting in reclassification of plants from electric utility to nonutility plants. Totals may not equal sum of components due to independent rounding. Geographic coverage is the 50 States and the District of Columbia.

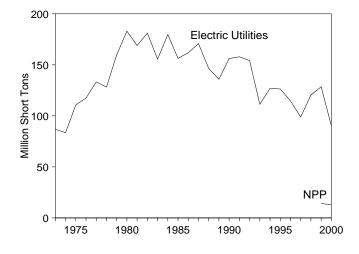
Source: **1989-1997:** Energy Information Administration (EIA), Form EIA-867, "Annual Nonutility Power Producer Report." **1998:** EIA, Form EIA-860B, "Annual Electric Generator Report-Nonutility." **1999 and 2000:** EIA, Form EIA-900, "Monthly Nonutility Power Report." **January 2001:** EIA, Form EIA-906, "Power Plant Report." **February and March 2001:** Derived from EIA's Short-Term Integrated Forecasting System. See related note on page 79 (Note 9).

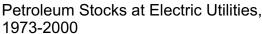
Figure 7.5 Electric Power Sector Stocks of Coal and Petroleum

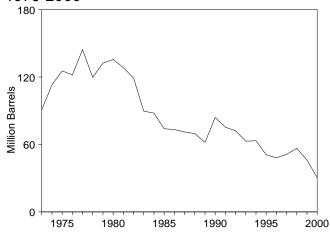


Coal Stocks, March

Coal Stocks, 1973-2000



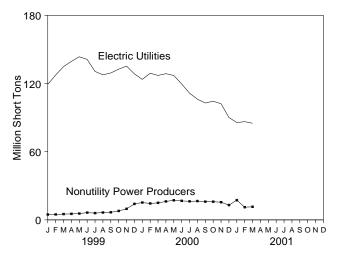




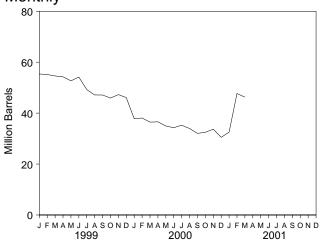
Notes: • Petroleum includes petroleum coke, which is converted to liquid units at 5 barrels per short ton. • Because vertical scales differ, graphs should not be compared. Source: Tables 7.9.

60 50 2000 44 2001 40 Million Barrels 36 30 20 10 7 NA 0 Electric Nonutility Utilities **Power Producers**

Coal Stocks, Monthly



Petroleum Stocks at Electric Utilities, Monthly



Petroleum Liquids Stocks, March

Table 7.9 Electric Power Sector Stocks of Coal and Petroleum

		Coal	1				Petrol	eum			
		N	Total		Electric	Utilities		Nonutili	ty Power Pro	oducers	Total
	Electric Utilities	Nonutility Power Producers	Electric Power Sector	Heavy Oil ^a	Light Oil ^b	Petroleum Coke	Total ^c	Liquids	Petroleum Coke	Total ^c	Electric Power Sector
	Th	ousand Short	Fons	Thousar	d Barrels	Thousand Short Tons	Thousand Barrels	Thousand Barrels	Thousand Short Tons	Thousand Barrels	Thousan Barrels
	I										
973 Total 974 Total		NA NA	NA NA	^d 79,121 ^d 97,718	^e 10,095 ^e 15,199	312 35	90,776 113,091	NA NA	NA NA	NA NA	NA NA
975 Total		NA	NA	d108,825	^e 16,432	31	125,413	NA	NA	NA	NA
976 Total		NA	NA	d106,993	^e 14,703	32	121,857	NA	NA	NA	NA
977 Total		NA	NA	^d 124,750	^e 19,281	44	144,252	NA	NA	NA	NA
978 Total	128,225	NA	NA	^d 102,402	^e 16,386	198	119,778	NA	NA	NA	NA
979 Total		NA	NA	^d 111,121	^e 20,301	183	132,338	NA	NA	NA	NA
980 Total		NA	NA	105,351	30,023	52	135,635	NA	NA	NA	NA
981 Total		NA	NA	102,042	26,094	42	128,345	NA	NA	NA	NA
982 Total		NA	NA	95,515	23,369	41	119,090	NA	NA	NA	NA
983 Total 984 Total		NA NA	NA NA	70,573 68,503	18,801 19,116	55 50	89,652 87,870	NA NA	NA NA	NA NA	NA NA
985 Total		NA	NA	57,304	16,386	49	73.933	NA	NA	NA	NA
986 Total		NA	NA	56,841	16,269	40	73,313	NA	NA	NA	NA
987 Total		NA	NA	55,069	15,759	51	71,084	NA	NA	NA	NA
988 Total		NA	NA	54,187	15.099	86	69.714	NA	NA	NA	NA
989 Total		NA	NA	47,446	13,824	105	61,795	NA	NA	NA	NA
990 Total		NA	NA	67,030	16,471	94	83,970	NA	NA	NA	NA
991 Total	157,876	NA	NA	58,636	16,357	70	75,343	NA	NA	NA	NA
992 Total	154,130	NA	NA	56,135	15,714	67	72,183	NA	NA	NA	NA
993 Total		NA	NA	46,769	15,674	89	62,889	NA	NA	NA	NA
994 Total		NA	NA	46,342	16,644	69	63,331	NA	NA	NA	NA
995 Total		NA	NA	35,102	15,392	65	50,821	NA	NA	NA	NA
996 Total		NA NA	NA NA	32,473 33,336	15,216 15,456	91 469	48,146 51.138	NA NA	NA NA	NA NA	NA NA
997 Total 998 Total		NA	NA	33,336 37,447	16,343	469 559	56,586	NA	NA	NA	NA
999 January		4.678	124.060	35,426	17,202	548	55.367	3,258	NA	NA	NA
February		4,777	132,205	35,246	17,058	568	55,143	2,957	NA	NA	NA
March		5,098	139,995	35,055	16,841	540	54,594	3,042	NA	NA	NA
April		5,282	144,777	33,821	17,457	592	54,240	3,319	NA	NA	NA
		5,546	149,108	32,676	17,046	592	52,680	4,579	NA	NA	NA
June		6,374	147,641	33,447	17,264	690	54,162	4,504	NA	NA	NA
July		5,948	136,621	30,247	15,812	633	49,225	5,353	NA	NA	NA
August		6,462	134,095	27,983	16,302	570	47,137	5,129	NA	NA	NA
Septembe		6,677	135,979	27,839	16,503	553	47,108	5,453	NA	NA	NA
October		7,848	140,456	26,647	16,736	507	45,919	6,561	NA	NA	NA
November December		9,694 14,050	145,049 142,543	28,677 27,763	16,413 16,549	435 355	47,263 46,089	6,185 8,666	NA NA	NA NA	NA NA
000 January	^R 123,661	^R 15,233	^R 138,894	^R 21,678	^R 14,655	297	^R 37,816	^R 6,710	NA	NA	NA
February		^R 14,446	^R 143.501	^R 22.055	^R 15,048	195	^R 38,076	^R 6,611	NA	NA	NA
March	^R 127,130	^R 14,983	^R 142,113	^R 20,966	^R 14,643	171	^R 36,462	^R 6,587	NA	NA	NA
April	^R 128,669	^R 16,235	^R 144,904	^R 21,135	^R 14,698	150	^R 36,584	^R 7,336	NA	NA	NA
Mav	^R 127.090	^R 17,240	^R 144,330	^R 20,169	^R 14,206	113	^R 34,942	^R 7,621	NA	NA	NA
June	^R 119.634	^R 16,719	^R 136,353	^R 19,145	^R 14,693	87	^R 34,274	^R 9,344	NA	NA	NA
July	^R 111.494	^R 16,317	^R 127,811	^R 20,136	^R 14,579	108	^R 35,253	^R 12,470	NA	NA	NA
August	^R 106,201	^R 16,546	^R 122,746	^R 18,759	^R 14,419	157	^R 33,964	^R 11,383	NA	NA	NA
Septembe	er ^R 102,876	^R 16,020	^R 118,896	^R 17,265	^R 13,780	199	^R 32,039	^R 11,784	NA	NA	NA
October	^R 104,422	^R 15,980	^R 120,402	^R 17,302	R 13,932	247	R 32,470	R 12,365	NA	NA	NA
November December	r ^R 102,227 r ^R 90,115	^R 15,537 ^R 13,001	^R 117,765 ^R 103,117	^R 18,451 ^R 16,899	^R 14,020 ^R 12,655	245 186	^R 33,694 ^R 30,486	^R 12,701 ^R 11,089	NA NA	NA NA	NA NA
001 January	^R 85,685	^R 17,359	^R 103,044	^R 16.408	^R 15,110	^R 200	^R 32.515	13,085	NA	NA	NA
February		F 11.167	^{RF} 97,590	^F 31,269	^F 14,588	F 368	F 47,697	NA	NA	NA	NA
March		^F 11,501	^F 96,562	^F 30,111	^F 14,386	F 355	^F 46,272	NA	NA	NA	NA
maton		1,501	50,50Z	50,111	14,000	555	-0,212				INA.

^a Fuel oil nos. 4, 5, and 6, and residual fuel oils.
 ^b Fuel oil nos. 1 and 2, kerosene, and jet fuel.
 ^c Petroleum coke is converted at 5 barrels per short ton.

^d For 1973-1979, stocks held at steam plants are used as estimates for heavy ^e For 1973-1979, stocks held at gas turbine and internal combustion plants are

used as estimates for light oil stocks. R=Revised. NA=Not available. F=Forecast. Notes: Stocks are at end of period. Data are for fuels available to produce

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

Sources for Table 7.1, Imports and Exports of Electricity

1973-September 1977—Unpublished Federal Power Commission data.

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

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

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

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

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

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

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

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

Sources for Table 7.3

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

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

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

1981—EIA, *Electric Power Monthly*, March 1992, Table 4, and (for geothermal energy and other) FERC, Form FPC-4, "Monthly Power Plant Report."

1982—EIA, *Electric Power Monthly*, March 1993, Table 4, and (for geothermal energy and other) EIA,

Form EIA-759, "Monthly Power Plant Report."

1983-1989—EIA, *Electric Power Monthly*, March 1994, Table 4, and (for small components) EIA, Form EIA-759, "Monthly Power Plant Report."

1990-2000—EIA, *Electric Power Monthly*, April 2001, Tables 4 and 5, and (for small components) EIA, Form EIA-759, "Monthly Power Plant Report."

January 2001—EIA, Form EIA-906, "Power Plant Report."

February and March 2001—Derived from EIA's Short-Term Integrated Forecasting System. See related note on page 79 (Note 9).

Sources for Table 7.5

Electric Utilities

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

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

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

1983—Energy Information Administration (EIA), Form EIA-826, "Monthly Electric Utility Sales and Revenue Report with State Distributions" (formerly "Electric Utility Company Monthly Statement").

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

1990-2000—EIA, *Electric Power Monthly*, April 2001, Table 44.

January 2001—EIA, Form EIA-906, "Power Plant Report."

February and March 2001—Derived from EIA's Short-Term Integrated Forecasting System. See related note on page 79 (Note 9).

Nonutility Power Producers

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

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

January 2001—EIA, Form EIA-906, "Power Plant Report."

February and March 2001—Derived from EIA's Short-Term Integrated Forecasting System. See related note on page 79 (Note 9).

Sources for Table 7.9

Electric Utilities

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

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

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

1990-2000—EIA, *Electric Power Monthly*, April 2001, Table 21.

January 2001—EIA, Form EIA-906, "Power Plant Report."

February and March 2001—Derived from EIA's Short-Term Integrated Forecasting System. See related note on page 79 (Note 9).

Nonutility Power Producers

1999 and 2000—EIA, Form EIA-900, "Monthly Nonutility Power Report."

January 2001—EIA, Form EIA-906, "Power Plant Report."

February and March 2001—Derived from EIA's Short-Term Integrated Forecasting System. See related note on page 79 (Note 9).

Section 8. Nuclear Energy

U.S. nuclear electricity net generation during March 2001 was forecast as 63 net terawatthours (billion kilowatthours) of electricity, 5 percent higher than in March 2000. Nuclear units generated at an average capacity factor of 87.3 percent, 3.8-percentage points higher than the capacity factor in March 2000.

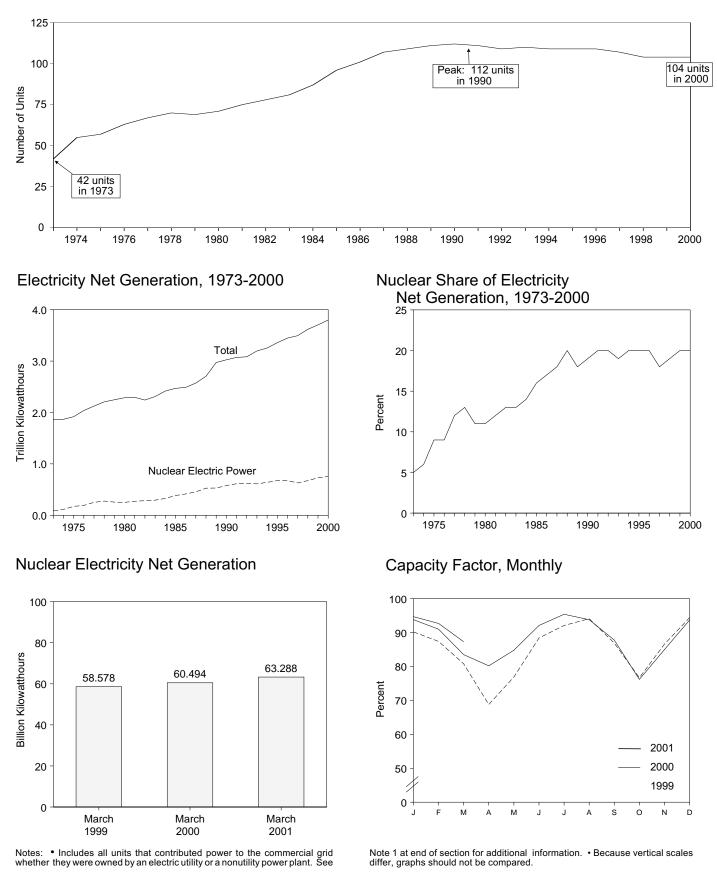
On March 31, 2001, there were 104 operable nuclear generating units in the United States, with a collective net summer capability of 97.4 million kilowatts of electricity. Of the 104 operable units, 3 units generated

no electricity during the month because of maintenance, refueling, or repair outage, and 64 units reported operating at 90 percent of capacity or more. Of these 64 units, 32 operated at 100 percent or greater (based on net summer capability).

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

Figure 8.1 Nuclear Power Plant Operations

Operable Units, End of Year, 1973-2000



	Nuclear Electricity Net Generation	Nuclear Share of Electricity Net Generation	Net Summer Capability of Operable Units ^{a,b}	Capacity Factor ^c
-	Million Kilowatthours	Percent	Million Kilowatts	Percent
		1 oroont	T (IIO Matto	1 croont
973 Year	83,479	4.5	22.683	53.5
974 Year	113,976	6.1	31.867	47.8
975 Year	172,505	9.0	37.267	55.9
976 Year	191,104	9.4	43.822	54.7
977 Year	250,883	11.8	46.303	63.3
978 Year	276,403	12.5	50.824	64.5
979 Year	255,155	11.4	49.747	58.4
980 Year	251,116	11.0	51.810	56.3
981 Year	272,674	11.9	56.042	58.2
982 Year	282,773	12.6	60.035	56.6
983 Year	293,677	12.7	63.009	54.4
984 Year	327,634	13.6	69.652	56.3
985 Year	383,691	15.5	79.397	58.0
986 Year	414,038	16.6	85.241	56.9
987 Year	455,270	17.7	93.583	57.4
988 Year	455,270 526,973	19.5	93.565	63.5
	^d 529.402	^d 17.8	^d 98.179	d62.2
989 Year	, -			
990 Year	576,974	19.1	99.642	66.0
991 Year	612,642	19.9	99.608	70.2
992 Year	618,841	20.1	99.004	70.9
993 Year	610,367	19.1	99.060	70.5
994 Year	640,492	19.7	99.148	73.8
995 Year	673,402	20.1	99.515	77.4
996 Year	674,729	19.6	100.784	76.2
997 Year	628,644	18.0	99.716	71.1
998 Year	673,702	18.6	97.070	78.2
999 January	65,399	20.9	97.502	90.2
February	57,235	21.0	97.502	87.4
March	58,578	19.8	97.502	80.8
April	48,315	17.5	97.502	68.8
Арш	55,809	19.0	97.502	76.9
	,	^R 19.2		
June	62,025		97.502	88.4
July	66,807	18.0	97.502	92.1
August	68,283	19.0	97.502	94.1
September	61,032	19.7	97.502	86.9
October	55,597	19.0	97.502	76.7
November	60,754	21.7	97.502	86.6
December	68,420	_ 21.7	97.411	94.4
Year	728,254	^R 19.7	97.411	85.3
000 January	68,013	^R 21.0	97.411	93.8
February	61,688	21.3	97.411	91.0
March	60,494	^R 20.5	97.411	83.5
April	56,252	R 20.2	97.411	80.2
May	61,479	R 19.7	97.411	84.8
June	64,595	^R 19.5	97.411	92.1
July	69,171	19.6	97.411	95.4
August	67,954	^R 18.5	97.411	93.8
September	^R 61,549	19.3	97.411	93.0 87.8
October	55,240	18.5 B 20.0	97.411	76.2
November	59,579	^R 20.0	97.411	85.0
December Year	67,881 ^R 753,893	20.2 ^R 19.8	97.411 97.411	93.7 88.1
001 January	^R 68,655	^R 20.6	97.411	^R 94.7
February	F_60,663	F_20.5	97.411	92.7
March	_ ^F 63,288	F_20.2	97.411	87.3
3-Month Total	^E 192,606	^E 20.4	97.411	91.5
000 3-Month Total	190,194	20.9	97.411	89.4

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

^b For the definition of the summer capability, see here 2(a, a size 2), sector, section.
 ^c For an explanation of the method of calculating the capacity factor, see Note 2 at end of section.
 ^d Beginning in 1989, includes nonutility facilities.
 R=Revised. F=Forecast.
 Notes: The performance data shown in this table are based on a

universe of reactor units that differs in some respects from the reactor universe used to profile the nuclear power industry in Table 8.2. See Note 1 at end of section for further discussion. Nuclear electricity net generation totals may not equal sum of components due to independent rounding. Geographic coverage is the 50 States and the District of Columbia.

Sources: See end of section.

Table 8.2	Nuclear	Generating	Units
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	Orders ^a	Construction Permits ^b	Low Power Operating Licenses ^c	New Operable Units ^d	Shutdowns ^e	Total Operable Units ^f	Cancellations ^g	Cumulative Cancellation
1973 Year	42	14	12	15	0	42	0	7
1974 Year	28	23	14	15	2	55	9	16
975 Year	4	20	3	2	ō	57	13	29
976 Year	3	9	7	7	1	63	1	30
977 Year	4	15	4	4	ò	67	10	40
978 Year	2	13	3	4	1	70	13	53
979 Year	õ	2	Ő	ō	1	69	6	59
980 Year	ŏ	Ő	5	2	ò	71	15	74
981 Year	ŏ	Ö	3	4	0 0	75	9	83
982 Year	Ő	0	6	4	1	78	18	101
983 Year	0	0	3	3	0 0	81	6	107
	0	0	3 7	6	0	87	6	113
984 Year	0	0	7	9	0	96	2	115
985 Year			7	9 5			2	
986 Year	0	0	6	5	0	101	2	117
987 Year	-	-	-		2 0	107	-	117
988 Year	0	0	1	2		109	3	120
989 Year	0	0	3	4	2	111	0	120
990 Year	0	0	1	2	1	112	1	121
991 Year	0	0	0	0	1	111	0	121
992 Year	0	0	0	0	2	109	0	121
993 Year	0	0	1	1	0	110	0	121
994 Year	0	0	0	0	1	109	1	122
995 Year	0	0	1	0	0	109	2	124
996 Year	0	0	0	1	1	109	0	124
997 Year	0	0	0	0	2	107	0	124
998 Year	0	0	0	0	3	104	0	124
999 January	0	0	0	0	0	104	0	124
February	0	0	0	0	0	104	0	124
March	0	0	0	0	0	104	0	124
April	0	0	0	0	0	104	0	124
May	0	0	0	0	0	104	0	124
June	0	0	0	0	0	104	0	124
July	0	0	0	0	0	104	0	124
August	0	0	0	0	0	104	0	124
September	0	0	0	0	0	104	0	124
October	Ō	0	0	0	Ō	104	Õ	124
November	õ	Ő	õ	õ	Ő	104	Ő	124
December	õ	Ő	Ő	õ	Ő	104	Ő	124
Year	ŏ	ŏ	ŏ	ŏ	ŏ	104	Ŏ	124
2000 January	0	0	0	0	0	104	0	124
February	0	0	0	0	0	104	0	124
March	0	0	0	0	0	104	0	124
April	0	0	0	0	0	104	0	124
	0	0	0	0	0	104	0	124
May	0	0	0	0	0	104	0	124
June	0	0	0	0	0	104	0	124
July	0	0	-	0	0		0	
August	-	-	0	-	-	104	-	124
September	0	0	0	0	0	104	0	124
October	0	0	0	0	0	104	0	124
November	0	0	0	0	0	104	0	124
December	0	0	0	0	0	104	0	124
Year	0	0	0	0	0	104	0	124
001 January	0	0	0	0	0	104	0	124
February	0	0	0	0	0	104	0	124
March	0	0	0	0	0	104	0	124

^a Placement of an order by a utility or government agency for a nuclear steam supply system.

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

^c Issuance by regulatory authority of license, or equivalent permission, to conduct testing but not to operate at full power.

conduct testing but not to operate at full power. ^d Issuance by regulatory authority of full-power operating license, or equivalent permission. Units generally did not begin immediate operation. See Note 1 at end of section. ^e Ceased operating permanently, irrespective of intent. ^f Total of units holding full-power licenses or equiv

^f Total of units holding full-power licenses, or equivalent permission to operate, at the end of the period. See Note 1 at end of section.

⁹ Cancellation by utilities of ordered units. Does not include three units (Bellefonte 1 and 2 and Watts Bar 2) where construction has been stopped indefinitely.

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

Sources: See end of section.

Nuclear Energy Notes

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

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

A reactor is generally defined as operable in Table 8.2 while it possessed a full-power license from the Nuclear Regulatory Commission or its predecessor the Atomic Energy Commission, or equivalent permission to operate, at the end of the year or month shown. The definition is liberal in that it does not exclude units retaining full-power licenses during long, non-routine shutdowns that for a time rendered them unable to generate electricity. Examples are:

(a) In 1985 the five then-active Tennessee Valley Authority units (Browns Ferry 1, 2, and 3 and Sequoyah 1 and 2) were shut down under a regulatory forced outage. Browns Ferry 1 remains shut down and has been defueled, while the other units were idle for several years, restarting in 1991, 1995, 1988, and 1988, respectively. All five units are counted as operable during the shutdowns.

(b) Shippingport was shut down from 1974 through 1976 for conversion to a light-water breeder reactor, but is counted as operable from 1957 until its retirement in 1982.

(c) Calvert Cliffs 2 was shut down in 1989 and 1990 for replacement of pressurizer heater sleeves but is counted as operable during those years.

Exceptions to the definition are Shoreham and Three Mile Island 2. Shoreham was granted a full-power

license in April 1989, but was shut down two months later and never restarted. In 1991, the license was changed to Possession Only. Although not operable at the end of the year, Shoreham is treated as operable during 1989 and shut down in 1990, because counting it as operable and shut down in the same year would introduce a statistical discrepancy in the tallies. A major accident closed Three Mile Island 2 in 1979, and although the unit retained its full-power license for several years, it is considered permanently shut down since that year.

2. Capacity: Nuclear generating units may have more than one type of net capacity rating, including the following:

(a) Net Summer Capability—The steady hourly output that generating equipment is expected to supply to system load, exclusive of auxiliary power, as demonstrated by test at the time of summer peak demand. Auxiliary power of a typical nuclear power plant is about 5 percent of gross generation.

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

The monthly capacity factors are computed as the actual monthly generation divided by the maximum possible generation for that month. The maximum possible generation is the number of hours in the month multiplied by the net summer capability at the end of the month. That fraction is then multiplied by 100 to obtain a percentage. Annual capacity factors are averages of the monthly values for that year.

Sources for Table 8.1

Nuclear Electricity Net Generation and Nuclear Share of Electricity Net Generation— See Table 7.2 for actual data. The forecast value is derived from EIA's Short-Term Integrated Forecasting System. See related note on page 79 (Note 9).

Net Summer Capability of Operable Units— 1973-1982—Compiled from various sources, primarily DOE, Office of Nuclear Reactor Programs, "U.S. Central Station Nuclear Electric Generating Units: Significant Milestones."

1983 forward—Energy Information Administration (EIA), Form EIA-860, "Annual Electric Generator Report," and monthly updates as appropriate.

Capacity Factor—EIA, Office of Coal, Nuclear, Electric and Alternate Fuels for actual data. The forecast value is derived from EIA's Short-Term Integrated Forecasting System. See related note on page 79 (Note 9).

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

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

Low-Power Operating Licenses—Nuclear Energy Institute, *Historical Profile of U.S. Nuclear Power Development*, 1988 edition; U.S. Department of Energy, *Nuclear Reactors Built, Being Built, and Planned:* *1995*; various utility, Federal, and contractor officials. **New Operable Units**—Nuclear Regulatory Commission, *Information Digest*, 1997 edition, Table 11 and Appendices A and B; various utility, Federal, and contractor officials.

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

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

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

Section 9. Energy Prices

Crude Oil. The average price of domestic crude oil at the wellhead was \$23.02 per barrel in March 2001, 12 percent below the level of March 2000. The refiner acquisition cost of imported crude oil in March 2001 was \$23.03 per barrel, 17 percent below the March 2000 level. The average cost of domestic crude oil in March 2000 level. The average cost of domestic crude oil in March 2000 average.

Motor Gasoline. The national city average retail price of unleaded regular gasoline at all types of stations was \$1.56 per gallon in April 2001, 4 percent higher than the price in April 2000. The price of unleaded premium gasoline averaged \$1.75 in April 2001, 3 percent higher than the price in April 2000.

Residual Fuel Oil. The average price, excluding taxes, of residual fuel oil sold to end users in March 2001 was 58 cents per gallon, 4 percent lower than the previous month's price and slightly lower than the March 2000 average. The average resale price, excluding taxes, of residual fuel oil in March 2001 was 51 cents, 7 percent below February 2001 and 1 percent lower than the price 1 year earlier.

Aviation Fuel. The average price, excluding taxes, of aviation gasoline sold to end users in March 2001 was \$1.25 per gallon, 4 percent lower than the previous month's average price and 7 percent lower than the March 2000 average. The average price, excluding taxes, of kerosene-type jet fuel sold to end users in March 2001 was 81 cents per gallon, 7 percent lower than the previous month's average price and 5 percent lower than the March 2000 average price.

No. 2 Distillate Fuel Oil. The March 2001 national average price, excluding taxes, of heating oil sold to residential customers was \$1.29 per gallon, 4 percent lower than the February 2001 price but 4 percent higher than the March 2000 price. The average price of No. 2 fuel oil sold to all end users was 87 cents per gallon in March 2001, 8 percent lower than February 2001 but 1 percent higher than March 2000.

Electricity. The average price of electricity sold by electric utilities to all ultimate consumers in the United States in January 2001 was 6.89 cents per kilowatthour, 10 percent higher than the January 2000 mean price. The price of electricity sold to residential consumers in January 2001 averaged 7.73 cents per kilowatthour, 1 percent higher than the January 2000 price. The price of electricity sold to commercial consumers averaged 7.60 cents per kilowatthour in January 2001, 12 percent higher than the January 2000 price. The price of electricity sold to other consumers was 6.00 cents per kilowatthour, 2 percent lower than the January 2000 price. The price of electricity sold to industrial users in January 2001 averaged 4.96 cents per kilowatthour, 20 percent higher than the price 1 year earlier.

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

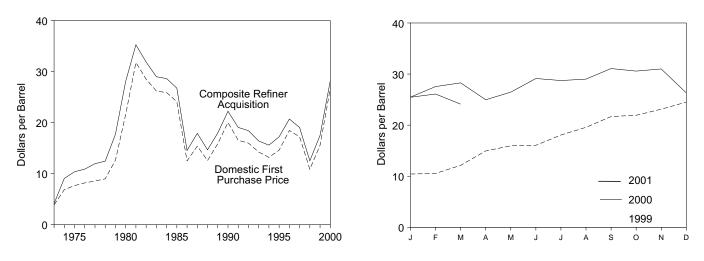
Natural Gas. The average wellhead price of natural gas for April 2001 was estimated as \$5.21 per thousand cubic feet, 104 percent higher than the April 2000 price.

The average price of natural gas delivered to electric utility plants was \$9.47 per thousand cubic feet in January 2001 (latest date for which data are available), 247 percent higher than the January 2000 price. The average price of natural gas used by residential consumers in February 2001 was \$10.13 per thousand cubic feet, 55 percent higher than the February 2000 price. The average price of natural gas used by commercial consumers in February 2001 was \$9.51 per thousand cubic feet, 68 percent higher than the February 2000 price. The average price of natural gas used by commercial consumers in February 2001 was \$9.51 per thousand cubic feet, 68 percent higher than the February 2000 price. The average price of natural gas used by industrial consumers in February 2001 was \$6.90 per thousand cubic feet, 86 percent above the February 2000 price.

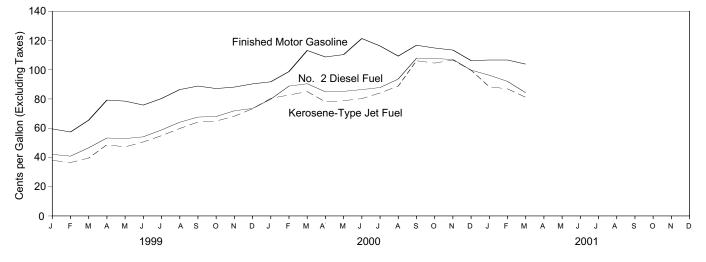
Figure 9.1 Petroleum Prices

Crude Oil Prices, 1973-2000

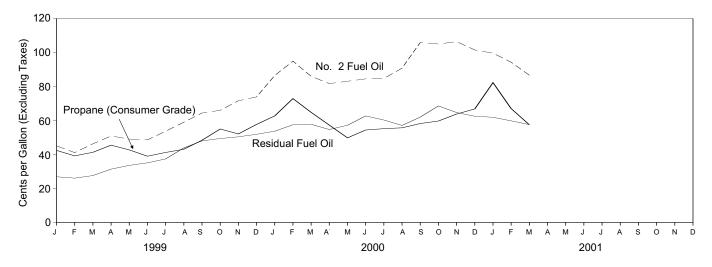
Composite Refiner Acquisition Cost, Monthly



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



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



Sources: Tables 9.1, 9.5, and 9.7.

Table 9.1 Crude Oil Price Summary

(Dollars per Barrel)

				Re	finer Acquisition Co	sta
	Domestic First	F.O.B. Cost	Landed Cost			
	Purchase Price ^b	of Imports ^c	of Imports ^d	Domestic	Imported	Composite
973 Average	3.89	^e 5.21	^e 6.41	^E 4.17	^E 4.08	^E 4.15
974 Average	6.87	10.91	12.32	7.18	12.52	9.07
975 Average	7.67	11.18	12.70	8.39	13.93	10.38
976 Average	8.19	12.15	13.32	8.84	13.48	10.89
977 Average	8.57	13.24	14.36	9.55	14.53	11.96
978 Average	9.00	13.24	14.35	10.61	14.55	12.46
	12.64	20.07	21.45	14.27	21.67	
979 Average						17.72
980 Average	21.59	32.37	33.67	24.23	33.89	28.07
981 Average	31.77	35.15	36.47	34.33	37.05	35.24
982 Average	28.52	32.02	33.18	31.22	33.55	31.87
983 Average	26.19	27.81	28.93	28.87	29.30	28.99
984 Average	25.88	27.60	28.54	28.53	28.88	28.63
985 Average	24.09	25.84	26.67	26.66	26.99	26.75
986 Average	12.51	12.52	13.49	14.82	14.00	14.55
987 Average	15.40	16.69	17.65	17.76	18.13	17.90
988 Average	12.58	13.25	14.08	14.74	14.56	14.67
989 Average	15.86	16.89	17.68	17.87	18.08	17.97
990 Average	20.03	20.37	21.13	22.59	21.76	22.22
991 Average	16.54	16.89	18.02	19.33	18.70	19.06
992 Average	15.99	16.77	17.75	18.63	18.20	18.43
993 Average	14.25	14.71	15.72	16.67	16.14	16.41
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 January	8.57	9.17	10.18	10.89	10.16	10.43
February	8.60	9.34	10.59	10.92	10.33	10.55
March	10.76	11.83	12.90	12.19	12.10	12.13
April	12.82	14.14	15.05	15.17	14.82	14.95
May	13.92	14.43	15.50	16.55	15.57	15.95
June	14.39	15.13	16.08	16.30	15.91	16.06
	16.12					
July		17.30	18.13	18.10	18.05	18.07
August	17.58	19.10	19.75	19.57	19.56	19.57
September	20.03	21.04	21.70	21.75	21.64	21.68
October	19.71	20.89	21.78	22.40	21.62	21.93
November	21.35	22.46	23.06	23.08	23.14	23.12
December	22.55	22.91	23.83	24.73	24.35	24.51
Average	15.56	16.47	17.23	17.90	17.26	17.51
000 January	23.53	24.56	25.60	25.79	25.29	25.49
February	25.48	26.54	27.15	27.80	27.39	27.55
March	26.19	25.77	27.22	29.25	27.70	28.28
April	23.19	23.41	24.74	26.07	24.29	24.97
May	25.46	25.95	26.69	26.62	26.35	26.46
June	27.88	27.71	28.71	29.46	28.91	29.13
July	26.83	26.53	28.29	29.91	28.02	28.73
August	28.13	27.89	29.02	29.36	28.80	29.01
September	29.71	28.82	30.49	31.95	30.52	31.08
October	29.63	27.70	29.51	32.03	29.69	30.58
November	30.30	27.37	28.88	32.43	30.00	31.00
December Average	24.55 26.73	22.69 26.24	24.71 27.53	27.90 29.06	25.19 27.69	26.31 28.23
-						
001 January	24.58 B 05.07	^R 22.49	^R 24.17	26.84	24.49 B 04.07	25.46
February	^R 25.27	^R 23.10	^R 24.36	^R 27.67	^R 24.97	^R 26.09
March	23.02	20.50	22.69	25.76	23.03	24.11

^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.
 R=Revised. E=Estimate.
 Notes: Values for Domestic First Purchase Price and Refiner Acquisition

Cost for the current month and for F.O.B. and Landed Costs of Imports for the current 2 months are preliminary. F.O.B. and landed costs through 1980 reflect the period of reporting; prices since then reflect the period of loading. Annual averages are the averages of the monthly prices, weighted by volume. Geographic coverage is the 50 States, the District of Columbia, Puerto Rico, the Virgin Islands, and all U.S. Territories and Possessions. Sources: See end of section.

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	w	w	NA	7.81	3.25	NA	5.39	3.68	5.43	4.80
1974 Average	11.87	w	w	12.44	10.17	NA	10.71	10.60	11.33	9.59
1975 Average	10.97	(^d)	11.44	11.82	10.87	NA	11.04	10.88	11.34	10.62
976 Average	12.02	(d)	12.22	13.08	11.62	w	11.39	11.65	12.23	11.70
977 Average	13.29	(d)	13.42	14.44	12.38	14.11	12.63	12.56	13.29	12.97
978 Average	13.32	idi	13.24	14.05	12.70	13.82	12.38	12.77	13.31	13.23
979 Average	19.85	(d)	20.27	21.69	17.28	21.70	16.90	18.77	19.88	20.92
980 Average	33.45	w	31.06	35.93	28.17	34.36	24.81	28.92	32.21	32.85
981 Average	35.55	(d)	33.01	38.31	32.60	36.06	28.95	33.00	35.17	35.12
982 Average	31.86	(d)	28.08	35.13	33.73	33.42	23.74	33.55	33.48	30.58
983 Average	28.14	(d)	25.20	29.81	27.53	29.91	21.48	27.70	28.46	27.20
984 Average	27.46	(d)	26.39	29.51	27.67	28.87	24.23	27.48	27.79	27.45
985 Average	26.30	(d)	25.33	28.04	22.04	27.64	23.64	23.31	25.67	25.96
	13.30	12.34	11.84	14.35	11.36	13.84	10.92	11.35	12.21	12.87
986 Average	17.27	12.34	16.36	14.35	15.12	18.28	15.08	15.97	16.43	12.87
987 Average										
988 Average	13.70	13.61	12.18	15.16	12.16	14.80	12.96	12.38	13.43	13.05
989 Average	17.66	17.89	15.96	18.31	16.29	17.89	16.09	16.61	17.06	16.72
990 Average	20.23	20.75	19.26	22.46	20.36	23.43	19.55	18.54	20.40	20.32
991 Average	18.47	18.49	15.37	20.29	14.62	20.81	14.91	15.22	16.99	16.77
992 Average	18.41	18.02	15.26	19.98	15.85	19.61	14.39	16.35	16.87	16.66
993 Average	16.23	15.87	13.74	17.79	13.77	16.64	12.46	14.21	14.78	14.65
994 Average	15.40	14.99	13.68	16.32	14.12	15.66	12.21	13.97	14.00	14.34
995 Average	16.58	16.73	15.64	17.40	w	16.94	13.86	w	15.36	16.02
996 Average	20.71	21.33	19.14	21.27	19.28	19.43	17.73	19.22	18.94	19.65
997 Average	18.81	18.85	16.72	19.43	15.16	18.59	15.33	15.24	16.26	17.51
998 Average	12.11	12.56	10.49	12.97	8.87	12.52	9.31	9.09	10.20	11.21
998 Average	12.11	12.56	10.49	12.97	8.87	12.52	9.31	9.09	10.20	11.21
999 January	10.75	10.96	8.67	10.78	9.36	(^d)	6.33	8.97	8.26	9.81
February	10.16	10.47	8.52	10.50	11.59	W	7.06	11.18	8.93	9.57
March	11.92	13.33	10.92	13.67	13.26	W	10.70	12.97	12.04	11.69
April	15.06	15.95	13.77	16.12	W	W	12.53	13.64	13.68	14.51
May	14.88	15.87	14.05	15.46	W	15.39	12.26	15.11	13.99	14.75
June	15.56	16.43	14.40	16.50	W	16.03	13.82	16.61	15.11	15.13
July	19.10	18.27	16.99	18.81	Ŵ	16.96	15.80	17.41	16.93	17.55
August	20.31	19.88	18.74	20.69	Ŵ	19.79	17.55	19.00	18.73	19.32
September	22.48	23.12	20.52	22.68	20.64	21.97	19.18	20.21	20.29	21.57
October	21.65	22.39	20.02	22.19	22.15	20.65	18.82	21.60	20.20	21.07
November	24.90	24.95	20.00	22.13 W	22.13	22.62	19.84	22.43	20.30	22.96
December	24.90 24.73	24.95 25.89	21.94 22.42	W	22.33	22.62	20.21	22.43	21.71	22.96
	17.46	25.89 17.20	15.89	17.32	17.65	19.14	14.33	23.05 17.15	15.90	23.50 16.84
Average	17.40	17.20	15.69	17.52	17.05	19.14	14.55	17.15	15.90	10.04
000 January	25.99	27.12	23.31	W	25.49	24.47	23.36	25.33	24.44	24.64
February	27.71	29.56	26.25	29.07	23.72	26.22	25.02	24.47	25.96	26.98
March	28.29	29.43	25.48	27.39	23.40	27.76	24.21	23.00	24.30	26.79
April	22.72	25.40	21.95	24.34	28.28	23.62	22.73	25.46	23.89	23.10
	28.36	26.50	25.27	28.85	24.31	25.91	25.12	24.53	25.71	26.07
June	29.15	29.98	26.85	30.04	24.82	29.09	26.26	24.54	26.84	28.22
July	28.48	27.50	24.89	28.93	26.84	26.92	23.29	26.24	25.77	27.13
August	30.40	30.47	26.66	31.06	26.41	26.41	26.45	26.66	27.74	28.01
September	30.40	32.66	28.00	30.54	27.81	29.91	26.04	26.87	27.80	29.63
October	29.13	32.36	28.00	30.54	23.61	29.91 W	26.63	20.07	26.71	29.03
November	30.27	32.24	27.07	31.92	21.46	30.91	24.08	22.51	25.34	28.80
December	24.59 27.83	25.66 29.04	21.44 25.39	25.45 28.70	20.80 24.44	24.80 27 03	20.98 24.45	20.95 24.63	21.89 25 53	23.29 26.74
Average	21.03	23.04		20.70		27.03	24.43		25.53	20.14
001 January	24.28	26.72	^R 21.35	26.46	^R 20.55	26.16	21.15 B 20.42	^R 20.78	^R 21.99	22.87
February	^R 25.99	^R 27.06	^R 21.39	^R 27.04	^R 20.97	W	^R 20.43	^R 21.43	R 22.35	^R 23.72
March	21.76	25.51	19.06	24.58	19.54	W	19.04	19.20	20.03	20.97

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

^b Current members are Algeria, Indonesia, Iran, Iraq, Kuwait, Libya, Nigeria, Qatar, Saudi Arabia, United Arab Emirates, and Venezuela. Ecuador withdrew at the end of 1992 and Gabon withdrew at the end of 1994.

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

^d No data reported.

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

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

Values for the current 2 months are preliminary. section. Prices through 1980 reflect the period of reporting; prices since then reflect the period of loading. Annual averages are averages of the monthly prices, prices not published, weighted by including volume. Cargoes that are purchased on a "netback" basis, or under similar contractual arrangements whereby the actual purchase price is not established at the time the crude oil is acquired for importation into the United States, are not included in the published data until the actual prices have been determined and reported. U.S. geographic coverage is the 50 States and the District of Columbia.

Sources: See end of section.

Table 9.3 Landed Costs of Crude Oil Imports From Selected Countries

(Dollars per Barrel)

				Selected	Countries						
	Angola	Canada	Colombia	Mexico	Nigeria	Saudi Arabia	United Kingdom	Venezuela	Persian Gulf Nations ^a	Total OPEC ^b	Total Non-OPEC
1973 Average ^c	w	5.33	w	NA	9.08	5.37	NA	5.99	5.91	6.85	5.64
1974 Average		11.48	w	w	13.16	11.63	NA	11.25	12.21	12.49	11.81
1975 Average	11.81	12.84	(^d)	12.61	12.70	12.50	NA	12.36	12.64	12.70	12.70
1976 Average	12.71	13.36	(d)	12.64	13.81	13.06	w	11.89	13.03	13.32	13.35
1977 Average	14.04	14.13	(ď)	13.82	15.29	13.69	14.83	13.11	13.85	14.35	14.42
1978 Average	14.07	14.41	(ď)	13.56	14.88	13.94	14.53	12.84	14.01	14.34	14.38
1979 Average		20.22	(ď)	20.77	22.97	18.95	22.97	17.65	20.42	21.29	22.10
1980 Average		30.11	w	31.77	37.15	29.80	35.68	25.92	30.59	33.56	33.99
1981 Average		32.32	(^d)	33.70	39.66	34.20	37.29	29.91	34.61	36.60	36.14
1982 Average		27.15	(d)	28.63	36.16	34.99	34.25	24.93	34.94	34.81	31.47
1983 Average		25.63		25.78	30.85	29.27	30.87	22.94	29.37	29.84	28.08
1984 Average		26.56	(d)	26.85	30.36	29.20	29.45	25.19	29.07	29.06	28.14
1985 Average		25.71	(d)	25.63	28.96	24.72	28.36	24.43	25.50	26.86	26.53
1986 Average		13.43	12.85	12.17	15.29	12.84	14.63	11.52	12.92	13.46	13.52
1987 Average		17.04	18.43	16.69	19.32	16.81	18.78	15.76	17.47	17.64	17.66
1988 Average		13.50	14.47	12.58	15.88	13.37	15.82	13.66	13.51	14.18	13.96
1989 Average		16.81 20.48	18.10 22.34	16.35 19.64	19.19 23.33	17.34 21.82	18.74 22.65	16.78 20.31	17.37 20.55	17.78 21.23	17.54
1990 Average 1991 Average		17.16	22.34 19.55	15.89	23.33	17.22	22.05	15.92	17.34	18.08	20.98 17.93
1992 Average		17.04	18.46	15.60	20.78	17.48	20.63	15.13	17.54	17.81	17.67
1993 Average		15.27	16.54	14.11	18.73	15.40	17.92	13.39	15.26	15.68	15.78
1994 Average		14.83	15.80	14.09	17.21	15.11	16.64	13.12	15.00	15.08	15.29
1995 Average		16.65	17.45	16.19	18.25	16.84	17.91	14.81	16.78	16.61	16.95
1996 Average		19.94	22.02	19.64	21.95	20.49	20.88	18.59	20.45	20.14	20.47
1997 Average		17.63	19.71	17.30	20.64	17.52	20.64	16.35	17.44	17.73	18.45
1998 Average		11.62	13.26	11.04	14.14	11.16	13.55	10.16	11.18	11.46	12.22
1999 January	11.77	10.66	11.49	9.27	11.32	10.17	11.34	7.93	10.08	9.75	10.66
February		10.97	11.15	8.86	11.21	11.98	11.47	8.16	11.53	10.72	10.46
March	13.42	12.81	13.83	11.20	13.98	14.17	11.76	11.57	13.77	13.22	12.53
April	16.06	15.20	16.62	14.26	15.72	15.33	15.17	13.79	15.16	14.89	15.23
May	16.25	15.84	16.30	14.45	16.27	16.32	16.18	13.62	15.98	15.40	15.61
June	16.66	15.68	16.67	14.71	16.80	17.38	16.67	14.90	16.98	16.32	15.87
July		17.80	18.78	17.32	19.16	18.90	18.00	16.96	18.33	18.09	18.17
August		19.22	20.43	19.10	20.84	19.82	20.12	18.55	19.84	19.69	19.80
September		21.63	23.10	21.05	23.01	21.40	22.81	20.45	21.19	21.28	22.11
October		21.91	22.84	20.42	23.30	22.44	22.06	19.95	21.99	21.67	21.88
November		22.06	24.95	22.28	25.02	22.99	23.64	21.09	22.99	22.76	23.29
December		23.32	26.08	22.78	26.92	24.20	25.89	21.95	24.00	23.65	23.99
Average	18.37	17.54	18.09	16.12	17.63	17.48	18.26	15.58	17.37	16.94	17.51
2000 January	27.21	24.63	27.39	23.77	26.99	26.77	25.86	24.31	26.46	25.85	25.36
February		26.14	29.74	26.52	29.05	25.81	27.48	25.96	26.30	26.85	27.45
March		27.35	29.64	26.39	29.64	25.70	28.99	25.85	26.09	26.74	27.73
April	24.50	24.97	26.34	22.57	25.78	25.76	25.60	23.72	25.19	24.95	24.51
May		25.27	27.40	25.66	27.93	26.50	26.79	26.19	26.53	26.81	26.60
June		28.18	30.60	27.57	31.06	27.25	30.61	27.81	27.20	28.30	29.11
July		27.98	29.40	25.75	31.14	27.81	30.57	25.21	27.68	27.96	28.69
August		28.09	30.34	27.25	31.59	28.29	29.27	28.16	28.11	28.98	29.06
September		29.94	33.84	28.94	32.63	30.03	31.97	28.33	29.77	30.13	30.87
October	31.87	28.32	33.68	28.10	33.10	27.47	30.82	28.54	27.97	29.06	30.03
November		26.91	33.36	27.76	34.02	25.91	32.93	26.34	26.91	28.07	29.74
December Average		23.47 26.71	28.12 29.68	21.89 26.04	27.77 30.04	24.27 26.58	28.86 29.13	23.13 26.05	24.48 26.79	24.73 27.30	24.68 27.78
-				_							
2001 January		21.98	28.27	^R 21.53	28.37	^R 23.79	28.27	23.04	^R 23.81	^R 24.29	^R 24.03
February		^R 22.47	^R 28.71	^R 21.61	^R 28.89	^R 23.38	^R 29.12	^R 22.15	^R 23.30	^R 24.16	^R 24.56
March	24.16	21.54	27.49	19.74	27.89	22.03	26.27	21.05	22.28	23.03	22.31

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

Emirates. ^b Current members are Algeria, Indonesia, Iran, Iraq, Kuwait, Libya, Nigeria, Qatar, Saudi Arabia, United Arab Emirates, and Venezuela. Ecuador withdrew at the end of 1992 and Gabon withdrew at the end of 1994. ^c Based on October, November, and December data only.

^d No data reported.

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

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

Form FEA-F701-M-0, "Transfer Pricing Report." 1978 forward: EIA, Petroleum Marketing Monthly, June 2001, Table 25.

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

(Cents per Gallon, Including Taxes)

	Leaded Regular	Unleaded Regular	Unleaded Premium	All Types ^a
22 4	20.0			
973 Average	38.8	NA	NA	NA
974 Average	53.2	NA	NA	NA
975 Average	56.7	NA	NA	NA
976 Average	59.0	61.4	NA	NA
977 Average	62.2	65.6	NA	NA
978 Average	62.6	67.0	NA	65.2
979 Average	85.7	90.3	NA	88.2
	119.1	124.5	NA	122.1
980 Average				
981 Average ^b	131.1	137.8	^c 147.0	135.3
082 Average	122.2	129.6	141.5	128.1
983 Average	115.7	124.1	138.3	122.5
984 Average	112.9	121.2	136.6	119.8
985 Average	111.5	120.2	134.0	119.6
986 Average	85.7	92.7	108.5	93.1
	89.7	94.8	109.3	95.7
987 Average				
988 Average	89.9	94.6	110.7	96.3
989 Average	99.8	102.1	119.7	106.0
990 Average	114.9	116.4	134.9	121.7
991 Average	NA	114.0	132.1	119.6
992 Average	NA	112.7	131.6	119.0
993 Average	NA	110.8	130.2	117.3
994 Average	NA	111.2	130.5	117.4
995 Average	NA	114.7	133.6	120.5
996 Average	NA	123.1	141.3	128.8
997 Average	NA	123.4	141.6	129.1
98 Average	NA	105.9	125.0	111.5
		07.0		400.4
999 January	NA	97.2	117.1	103.1
February	NA	95.5	115.5	101.4
March	NA	99.1	118.6	104.8
April	NA	117.7	136.7	123.2
May	NA	117.8	137.0	123.3
June	NA	114.8	133.9	120.4
July	NA	118.9	137.8	124.4
August	NA	125.5	144.1	130.9
September	NA	128.0	146.8	133.4
October	NA	127.4	146.4	132.9
November	NA	126.4	145.4	131.9
December	NA	129.8	148.6	135.3
	NA	116.5	135.7	133.3 122.1
Average		110.0	100.7	122.1
000 January	NA	130.1	148.6	135.6
February	NA	136.9	155.1	142.2
March	NA	154.1	172.3	159.4
April	NA	150.6	169.8	156.1
May	NA	149.8	168.2	155.2
June	NA	161.7	178.6	166.6
July	NA	159.3	177.3	164.2
August	NA	151.0	168.9	155.9
September	NA	158.2	176.4	163.5
October	NA	155.9	174.4	161.3
November	NA	155.5	173.8	160.8
December	NA	148.9	167.9	154.4
Average	NA	151.0	169.3	156.3
001 January	NA	147.2	165.7	152.5
	NA	148.4	167.1	
February				153.8
March	NA	144.7	163.8	150.3
April	NA	156.4	174.8	161.7

 ^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

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

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

Table 9.5 Refiner Prices of Residual Fuel Oil

(Cents per Gallon, Excluding Taxes)

	Sulfur Co	Il Fuel Oil Intent Less al to 1 Percent	Sulfur	Il Fuel Oil Content an 1 Percent	Ανε	erage
	Sales for Resale	Sales to End Users	Sales for Resale	Sales to End Users	Sales for Resale	Sales to End Users
978 Average	29.3	31.4	24.5	27.5	26.3	29.8
979 Average	45.0	46.8	36.6	38.9	39.9	43.6
980 Average	60.8	67.5	47.9	52.3	52.8	60.7
981 Average	74.8	82.9	62.2	67.3	66.3	75.6
982 Average	69.5	74.7	57.2	61.1	61.2	67.6
983 Average	64.3	69.5	59.1	61.1	60.9	65.1
984 Average	68.5	72.0	63.9	65.9	65.4	68.7
985 Average	61.0	64.4	56.0	58.2	57.7	61.0
986 Average	32.8	37.2	28.9	31.7	30.5	34.3
987 Average	41.2	44.7	36.2	39.6	38.5	42.3
988 Average	33.3	37.2	27.1	30.0	30.0	33.4
989 Average	40.7	43.6	33.1	34.4	36.0	38.5
990 Average	47.2	50.5	37.2	40.0	41.3	44.4
991 Average	36.4	40.2	29.2	30.6	31.4	34.0
992 Average	35.1	38.9	28.6	31.2	30.8	33.6
993 Average	33.7	39.7	25.6	30.3	29.3	33.7
994 Average	34.5	40.1	28.7	33.0	31.7	35.2
995 Average	38.3	43.6	33.8	37.7	36.3	39.2
996 Average	45.6	52.6	38.9	43.3	42.0	45.5
997 Average	41.5	48.8	36.6	40.3	38.7	42.3
998 Average	29.9	35.4	26.9	28.7	28.0	30.5
999 January	27.5	32.4	23.9	25.2	25.6	26.9
February	21.8	30.6	21.9	24.5	21.9	26.1
March	27.2	31.4	24.0	26.2	25.1	27.6
April	30.9	32.9	30.0	30.8	30.4	31.4
May	34.6	36.6	29.5	32.0	32.5	33.6
June	35.0	37.5	31.2	34.0	32.6	35.1
July	38.6	40.9	34.5	35.7	36.1	37.4
August	44.8	45.7	40.1	43.1	42.7	43.9
September	49.8	47.1	43.6	48.2	46.7	48.0
October	47.3	52.5	43.1	48.4	44.8	49.4
November	48.5	54.4	44.2	49.1	46.8	50.4
December	50.3	56.9	44.0	49.9	47.2	51.9
Average	38.2	40.5	32.9	36.2	35.4	37.4
000 January	57.2	64.5	44.3	49.3	49.2	53.7
February	61.1	67.3	48.6	53.6	54.6	57.5
March	53.2	66.5	50.4	55.9	51.7	57.8
April	52.3	65.1	44.3	52.5	47.9	54.7
May	58.9	63.2	51.4	54.8	54.5	57.2
June	65.8	70.2	54.3	59.7	59.6	62.7
July	65.1	69.7	50.8	57.5	58.2	60.3
August	61.5	67.0 75.9	46.7	53.6	53.9	57.1
September	71.9	75.8	58.6	59.2	64.5	62.0
October	73.7	76.8	57.3	65.4	63.8	68.6
November	71.3	77.1	52.8	59.2	61.3	64.7
December Average	66.6 63.0	75.8 70.3	50.4 50.9	57.0 56.5	57.8 56.4	62.5 60.1
001 January	64.5	73.1	48.5	56.2	55.6	61.9
February	61.9	^R 68.4	^R 49.5	^R 55.2	^R 54.9	^R 59.8
March	57.2	66.1	49.3	53.1	51.3	57.6

R=Revised.

Notes: Sales for resale are those made to purchasers other than ultimate consumers. Sales to end users are those made directly to ultimate consumers, including bulk consumers (such as agriculture, industry, and electric utilities) and commercial consumers. Values for the current month

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

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

Table 9.6 Refiner Prices of Petroleum Products for Resale

(Cents per Gallon, Excluding Taxes)

	Finished Motor Gasoline ^a	Finished Aviation Gasoline	Kerosene- Type Jet Fuel	Kerosene	No. 2 Fuel Oil	No. 2 Diesel Fuel	Propane (Consume Grade)
978 Average	43.4	53.7	38.6	40.4	36.9	36.5	23.7
979 Average	63.7	72.1	66.0	62.4	56.9	57.4	29.1
980 Average	94.1	112.8	86.8	86.4	80.3	80.1	41.5
981 Average	106.4	125.0	101.2	106.6	97.6	97.2	46.6
-	97.3	123.0	95.3	100.0	91.4	97.2 91.4	40.0
982 Average	88.2	122.0	95.3 85.4	89.2	81.5	80.8	42.7
983 Average							
984 Average	83.2	116.5	83.0	91.6	82.1	80.3	45.0
985 Average	83.5	113.0	79.4	87.4	77.6	77.2	39.8
986 Average	53.1	91.2	49.5	60.6	48.6	45.2	29.0
987 Average	58.9	85.9	53.8	59.2	52.7	53.4	25.2
988 Average	57.7	85.0	49.5	54.9	47.3	47.3	24.0
989 Average	65.4	95.0	58.3	66.9	56.5	56.7	24.7
990 Average	78.6	106.3	77.3	83.9	69.7	69.4	38.6
991 Average	69.9	100.1	65.0	72.2	62.2	61.5	34.9
992 Average	67.7	99.1	60.5	63.2	57.9	59.1	32.8
993 Average	62.6	96.5	57.7	60.4	54.4	57.0	35.1
994 Average	59.9	93.3	53.4	61.8	50.6	52.9	32.4
995 Average	62.6	97.5	53.9	58.0	51.1	53.8	34.4
996 Average	71.3	105.5	64.6	71.4	63.9	65.9	46.1
997 Average	70.0	106.5	61.3	65.3	59.0	60.6	41.6
998 Average	52.6	91.2	45.0	46.5	42.2	44.4	28.8
99 January	44.5	81.2	37.3	42.0	36.3	36.2	26.5
February	42.9	79.2	35.2	37.8	33.1	35.1	26.1
March	52.1	86.3	39.5	43.7	39.8	43.2	26.8
April	62.8	98.9	46.6	47.3	44.7	48.8	28.7
May	62.1	99.2	46.8	43.8	43.8	47.9	29.1
June	61.5	94.8	48.6	45.4	44.7	50.4	29.1
July	68.6	103.6	53.7	53.0	51.2	56.4	34.7
August	74.1	107.6	59.1	59.6	56.2	61.6	38.3
September	75.9	111.7	62.7	66.0	60.9	64.9	42.6
	72.4	109.3	63.8	64.7	61.0	65.0	42.0
October							
November	75.2	108.1	66.5	72.8	66.2	69.9	42.6
December Average	76.0 64.5	110.2 100.7	72.1 53.3	76.5 55.0	67.8 49.3	70.5 54.6	41.8 34.2
-							
00 January	78.6	111.4	79.8	94.3	82.8	77.4	49.2
February	88.2	118.9	83.6	103.0	91.8	85.2	60.3
March	98.7	130.6	83.6	83.7	79.6	85.2	52.8
April	88.3	124.8	77.7	77.3	76.4	79.9	48.8
May	97.7	130.1	78.0	79.0	78.4	81.6	49.4
June	109.2	142.1	79.9	80.4	80.3	82.5	53.8
July	99.1	139.3	83.6	83.1	81.0	83.5	54.9
August	96.8	133.8	88.0	89.8	88.3	92.1	60.2
September	104.7	142.5	105.2	107.7	100.9	105.0	66.0
October	102.1	138.1	104.5	108.2	98.8	104.0	64.3
November	100.1	137.6	105.1	113.0	100.4	103.2	63.3
December	87.9	128.3	99.4	105.8	94.1	93.8	76.7
Average	96.2	132.8	88.0	95.7	88.4	89.8	59.5
001 January	94.2	131.0	88.2	107.3	90.3	90.7	86.4
February	^R 93.9	131.9	^R 86.8	^R 93.4	82.5	^R 85.8	66.9
March	91.0	129.2	80.2	83.6	76.3	78.1	60.1

 $^{\rm a}\,$ See Note 5 at end of section.

R=Revised.

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

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

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

Table 9.7 Refiner Prices of Petroleum Products to End Users

(Cents per Gallon, Excluding Taxes)

	Finished Motor Gasoline ^a	Finished Aviation Gasoline	Kerosene- Type Jet Fuel	Kerosene	No. 2 Fuel Oil	No. 2 Diesel Fuel	Propane (Consume 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
	106.0	131.2	96.3	108.9	90.5	94.2	59.2
082 Average							
983 Average	95.4	125.5	87.8	96.1	91.6	82.6	70.9
984 Average	90.7	123.4	84.2	103.6	91.6	82.3	73.7
985 Average	91.2	120.1	79.6	103.0	84.9	78.9	71.7
986 Average	62.4	101.1	52.9	79.0	56.0	47.8	74.5
987 Average	66.9	90.7	54.3	77.0	58.1	55.1	70.1
988 Average	67.3	89.1	51.3	73.8	54.4	50.0	71.4
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
99 January	59.5	87.1	38.0	51.5	45.1	42.1	42.4
February	57.4	85.1	36.5	49.9	41.1	40.9	39.2
March	65.5	90.1	39.6	53.6	46.3	46.6	41.3
April	79.2	101.4	48.7	51.4	50.9	53.3	45.5
May	78.5	104.2	47.2	53.7	49.1	52.9	42.7
June	75.8	104.1	50.6	50.4	48.6	54.1	39.0
July	80.3	107.9	54.9	60.4	53.7	58.8	41.2
August	86.4	113.2	59.8	63.9	59.0	64.1	43.1
	88.8	115.4	64.2	70.4	64.4	67.6	48.4
September	87.1		64.9	70.4	66.0	68.0	40.4 55.0
October		117.6					
November	88.1	116.4	68.2	84.8	71.6	71.9	52.1
December	90.3	119.6	73.3	89.1	73.9	73.5	57.7
Average	78.1	105.9	54.3	60.5	55.8	58.4	45.8
000 January	91.7	119.6	80.4	106.6	86.5	79.8	62.7
February	98.7	123.8	82.7	126.2	94.9	88.8	72.9
March	113.1	133.8	85.0	107.9	86.0	90.4	64.8
April	108.7	130.7	78.0	99.6	81.7	84.9	NA
May	110.3	133.6	78.8	86.8	83.1	85.2	49.8
June	121.3	140.8	80.2	88.4	84.5	86.4	54.4
July	116.2	140.8	84.1	90.1	84.7	87.8	55.2
	109.3	142.1 NA	88.8	90.1 96.5	84.7 90.8	87.8 93.6	
August							55.7
September	116.7	138.2	106.1	116.2	105.9	107.8	58.2
October	114.8	134.9	104.5	116.0	105.0	107.6	59.7
November	113.4	134.9	106.6	122.9	106.4	107.0	63.8
December	106.2	126.1	99.6	122.7	101.5	99.7	66.8
Average	110.3	132.9	89.8	111.4	92.7	93.5	60.2
001 January	106.6	128.5	88.3	126.0	99.6	96.2	82.3
February	^R 106.6	^R 130.3	86.9	122.1	^R 94.3	^R 92.0	67.0
March	103.8	124.5	81.1	112.8	86.6	84.2	57.5

^a See Note 5 at end of section.

R=Revised. NA=Not available.

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

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

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

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

(Cents per Gallon, Excluding Taxes)

		Maine	New Hampshire	Vermont	Massachusetts	Rhode Island	Connecticut	New York	New Jersey	Pennsylvania
978 Average		48.6	50.3	50.8	48.8	50.7	50.1	50.1	49.6	48.8
979 Average .		68.8	72.5	72.5	70.9	72.8	72.0	71.2	71.0	69.8
980 Average .		96.3	100.4	101.5	97.8	101.1	98.3	98.2	97.9	96.4
		120.4	123.7	125.4	121.3	123.8	121.7	123.2	121.5	118.1
981 Average . 982 Average .		115.5	123.7	120.1	117.6	123.0	121.7	123.2	121.5	113.7
		102.8	104.1	112.9	109.1	120.1	109.1	1120.5	107.9	105.8
983 Average .		102.8	104.1	111.9	111.6	111.4	112.1	115.5	111.0	105.8
984 Average .		99.7	102.4	107.7	107.0	106.7	108.0	111.3	105.9	107.9
985 Average		99.7 74.4	75.9		82.1	82.8	89.0	91.1	90.2	81.4
986 Average .		74.4	76.5	86.6 81.1	80.6	82.5	83.4	85.2	90.2 84.3	76.9
987 Average										
988 Average		77.7	78.2	82.6	82.1	83.6	85.3	86.3	84.8	77.8
989 Average		89.4	89.3	90.5	92.6	93.9	92.9	95.8	91.8	85.1
990 Average		98.9	102.8	107.0	108.4	108.6	109.8	112.5	108.7	102.6
991 Average		96.0	91.6	101.9	103.0	99.9	106.2	111.3	104.0	99.7
992 Average		87.1	85.6	92.1	92.5	91.2	94.7	102.8	93.9	89.0
993 Average		82.6	82.8	90.4	89.7	89.3	91.9	100.1	92.4	86.3
994 Average		81.8	79.2	87.6	87.0	88.5	89.0	96.6	89.5	85.7
995 Average		78.7	77.9	85.3	84.4	87.4	86.4	95.5	88.8	82.6
996 Average .		97.2	94.0	96.9	97.6	98.6	98.6	106.3	102.4	95.3
997 Average .		94.2	94.2	98.7	96.0	98.9	96.3	106.5	103.3	95.0
998 Average		78.8	78.8	87.3	81.8	86.8	83.1	94.8	89.2	81.4
99 January		72.0	70.8	80.6	76.1	79.9	78.6	90.3	83.5	77.8
February .		71.6	70.4	79.7	75.6	79.4	77.3	89.6	83.4	77.3
March		74.3	70.4	79.5	76.1	79.3	77.9	90.6	83.6	77.3
April		79.3	70.2	80.4	76.9	79.2	79.6	94.2	88.6	75.4
May		79.2	69.0	79.8	77.6	79.5	76.7	95.6	87.0	75.0
June		77.5	68.5	78.5	76.1	78.2	74.6	96.2	84.4	73.3
July		79.9	69.7	80.1	77.6	79.0	77.3	95.5	86.1	72.8
August		83.1	74.5	82.4	80.4	81.2	79.5	NA	88.0	73.9
September	r	89.0	82.0	88.2	86.1	90.6	85.2	98.6	94.9	81.1
October		91.4	87.8	92.4	91.0	93.0	90.9	105.6	100.8	86.0
November		97.2	92.0	95.7	96.5	96.8	95.8	111.0	105.7	91.3
December		100.4	99.0	99.6	100.0	101.6	100.9	114.7	111.8	95.4
Average .		81.3	77.0	85.4	83.6	85.8	85.2	96.9	91.3	81.5
)00 January		127.1	120.9	117.0	123.7	118.7	124.6	142.0	134.8	117.6
February .		140.5	140.3	133.1	139.6	132.8	141.5	162.8	154.8	133.3
March		120.8	123.0	118.4	116.5	114.8	121.3	135.8	131.7	114.8
April		113.5	116.4	113.5	111.6	112.2	114.0	127.4	124.9	108.7
May		115.1	118.0	112.2	114.4	114.2	114.4	127.8	125.3	107.3
June		115.9	117.0	116.9	112.9	113.9	113.9	128.3	125.2	107.0
July		118.9	117.1	119.1	111.7	111.5	114.0	128.0	125.0	104.9
August		124.9	121.5	121.9	117.4	115.1	115.8	129.0	128.2	110.4
September		135.6	132.3	133.6	128.7	132.5	129.4	140.9	139.9	123.8
October		138.3	131.5	131.2	132.2	133.9	134.5	147.2	144.5	123.8
November		141.1	135.9	133.4	135.1	138.1	137.1	150.2	150.0	131.9
December		138.0	136.4	132.7	137.0	136.8	139.2	152.2	147.3	135.4
Average .		138.0 129.7	128.2	132.7 125.4	137.0 127.3	125.8	139.2 129.2	132.2 144.2	147.3 140.6	135.4 122.9
Average .		123.1	120.2	123.4	121.5	123.0	123.2	144.2	140.0	122.9
001 January		132.8	134.8	132.7	132.8	134.2	136.7	148.6	146.4	133.4
February .		^R 129.5	^R 132.9	130.6	129.6	129.5	132.0	^R 143.5	^R 140.7	128.3
March		125.7	129.8	128.9	125.4	125.6	129.0	138.8	133.9	121.9

R=Revised. NA=Not available.

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

Prices prior to 1983 are Energy Information Administration (EIA) estimates. See Note 6 at end of section. Source: EIA, *Petroleum Marketing Monthly*, June 2001, Table 18.

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

(Cents per Gallon, Excluding Taxes)

	Delaware	District of Columbia	Maryland	Virginia	West Virginia	Ohio	Michigan	Indiana	Illinois	Wisconsin	Minnesota
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 January	82.1	W	85.7	81.2	74.6	72.9	76.2	71.4	68.6	75.0	68.0
February	80.4	W	86.1	81.4	72.6	71.9	76.5	71.0	65.9	73.9	67.0
March	82.9	W	86.8	81.6	78.4	76.4	77.7	73.7	67.8	76.4	69.5
April	88.7	W	86.9	85.8	71.9	76.0	81.5	75.6	63.4	77.8	73.5
May	NA	W	84.5	83.5	71.2	76.1	NA	72.9	60.2	77.3	72.5
June	77.0	W	81.8	82.6	66.2	77.3	NA	74.0	W	76.4	72.4
July	76.0	W	84.4	83.0	69.7	78.8	NA	76.3	62.8	79.8	74.0
August	78.1	W	85.9	84.8	75.8	80.3	NA	84.5	80.6	86.7	81.5
September	85.0	W	92.4	88.8	79.4	86.9	NA	91.7	85.7	91.6	85.3
October	90.3	W	95.7	92.9	NA	89.9	NA	90.9	89.2	95.3	89.7
November	97.0	W	102.2	99.2	NA	96.2	NA	96.8	92.6	99.0	93.9
December	104.2	W	107.9	103.7	NA	97.5	NA	99.3	95.7	101.1	99.1
Average	88.4	101.1	90.7	87.0	78.9	82.0	88.3	79.3	71.6	84.7	77.4
000 January	124.2	W	123.6	121.1	NA	110.5	NA	109.5	100.3	105.6	101.9
February	137.3	W	141.5	131.9	NA	119.7	NA	116.1	109.2	110.1	109.9
March	120.6	W	126.3	122.5	NA	116.8	NA	117.8	108.0	112.0	109.6
April	NA	W	119.9	114.5	NA	111.2	NA	112.5	104.4	109.9	107.5
May	NA	W	119.6	112.0	NA	111.8	NA	109.5	98.5	111.0	110.3
June	103.7	W	115.1	109.3	NA	112.4	NA	115.1	95.8	111.3	111.7
July	104.4	W	115.6	108.9	102.9	110.4	NA	111.5	NA	107.9	110.8
August	112.6	W	120.4	117.8	117.4	111.8	NA	118.6	106.2	115.9	108.6
September	125.1	W	133.3	130.2	130.3	129.5	NA	133.6	122.8	128.2	123.7
October	NA	W	141.5	132.8	132.7	133.7	NA	134.9	122.3	131.7	130.5
November	140.0	W	147.4	135.8	136.6	134.0	NA	134.4	123.7	130.0	127.6
December	140.3	W	150.1	137.2	137.4	131.2	NA	127.0	122.7	130.2	125.7
Average	126.0	w	135.1	127.0	113.8	121.4	NA	121.0	109.2	117.2	115.3
001 January	140.1	W	150.3	141.5	137.1	131.8	NA	127.1	122.2	128.0	124.5
February	138.0	Ŵ	146.5	^R 133.5	127.6	^R 126.8	NA	^R 123.1	118.2	126.5	^R 120.6
March	129.6	Ŵ	140.7	122.8	119.2	117.5	NA	114.2	114.7	120.2	114.2

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

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

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, June 2001, Table 18.

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

(Cents per Gallon, Excluding Taxes)

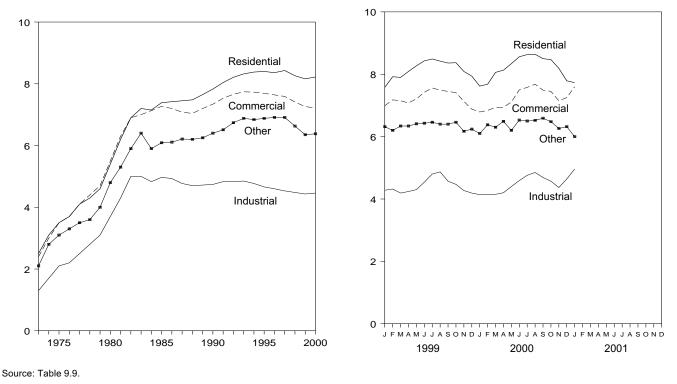
	Idaho	Washington	Oregon	Alaska	U.S. Average
		U			
978 Average	43.6	48.6	45.8	53.2	49.0
979 Average	62.1	69.7	68.0	68.2	70.4
980 Average	91.6	100.8	97.3	97.8	97.4
981 Average	110.4	116.5	111.4	118.0	119.4
	110.4	117.6	111.6	117.4	116.0
982 Average					
983 Average	101.8	109.0	103.6	108.8	107.8
984 Average	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
988 Average	68.8	78.5	70.9	86.9	81.3
989 Average	77.8	87.4	80.2	96.4	90.0
990 Average	97.4	102.9	97.0	110.1	106.3
991 Average	95.1	101.6	93.3	105.0	101.9
992 Average	85.7	94.0	87.6	94.1	93.4
993 Average	86.2	99.9	91.8	96.1	91.1
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
0					
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 January	68.5	93.1	82.1	80.5	80.5
February	67.8	93.6	80.5	81.8	80.0
March	70.9	101.6	88.4	84.8	81.0
April	74.1	111.6	98.1	NA	83.0
May	75.4	107.6	95.8	96.0	82.0
June	75.7	110.3	105.2	96.8	80.7
July	78.2	110.3	103.6	99.2	81.5
August	81.6	107.9	102.9	NA	83.5
September	89.7	111.3	100.6	103.9	90.1
October	87.5	114.0	102.2	108.6	94.9
November	89.7	116.8	104.8	111.7	100.1
December	92.7	118.5	106.0	117.1	104.5
Average	76.2	106.5	93.8	96.6	87.6
	93.7	127.0	115.6	123.5	125.8
DOO January	93.7 97.7	127.0	124.9	123.5	125.8
February					
March	109.2	145.4	136.1	131.3	124.0
April	105.9	133.7	127.7	130.3	117.6
May	98.1	132.0	121.2	124.7	116.9
June	NA	128.1	122.8	120.7	116.3
July	110.6	NA	126.4	121.8	115.2
August	114.6	134.3	131.3	130.8	119.0
September	133.4	156.6	154.4	140.8	132.1
October	140.9	162.8	156.1	NA	136.6
November	140.5	160.5	150.6	154.1	139.6
December	128.6	162.5	155.8	152.9	141.0
Average	117.3	144.4	136.7	134.3	131.0
001 January	120.9	144.0	134.3	NA	138.7
February	114.1	^R 145.4	^R 134.4	^R 149.4	^R 134.2
					129.1
March	109.0	141.8	129.7	NA	129.1

R=Revised. NA=Not available. Notes: States are grouped in Tables 9.8a, 9.8b, and 9.8c by geographic gion of the country. Values for the current month are preliminary. region of the country.

Prices prior to 1983 are Energy Information Administration (EIA) estimates. See Note 6 at end of section. Source: EIA, *Petroleum Marketing Monthly*, June 2001, Table 18.

Retail Prices of Electricity Sold by Electric Utilities Figure 9.2 (Cents per Kilowatthour)

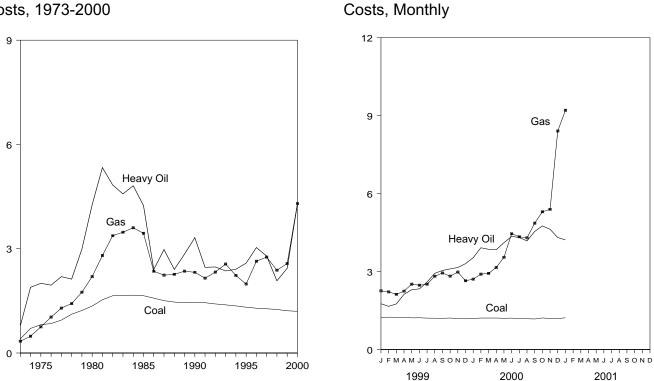
By Sector, 1973-2000



By Sector, Monthly

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

Costs, 1973-2000



Source: Table 9.10.

Table 9.9 Retail Prices of Electricity Sold by Electric Utilities

(Cents per Kilowatthour)

	Residential	Commercial	Industrial	Othera	Total
973 Average	2.5	2.4	1.3	2.1	2.0
974 Average	3.1	3.0	1.5	2.8	2.5
	3.5	3.5	2.1	3.1	2.9
975 Average					
976 Average	3.7	3.7	2.2	3.3	3.1
977 Average	4.1	4.1	2.5	3.5	3.4
978 Average	4.3	4.4	2.8	3.6	3.7
979 Average	4.6	4.7	3.1	4.0	4.0
980 Average	5.4	5.5	3.7	4.8	4.7
981 Average	6.2	6.3	4.3	5.3	5.5
982 Average	6.9	6.9	5.0	5.9	6.1
983 Average	7.2	7.0	5.0	6.4	6.3
984 Average	7.15	7.13	4.83	5.90	6.25
	7.39	7.27	4.97	6.09	6.44
985 Average					
986 Average	7.42	7.20	4.93	6.11	6.44
987 Average	7.45	7.08	4.77	6.21	6.37
988 Average	7.48	7.04	4.70	6.20	6.35
989 Average	7.65	7.20	4.72	6.25	6.45
990 Average	7.83	7.34	4.74	6.40	6.57
991 Average	8.04	7.53	4.83	6.51	6.75
992 Average	8.21	7.66	4.83	6.74	6.82
993 Average	8.32	7.74	4.85	6.88	6.93
994 Average	8.38	7.73	4.77	6.84	6.91
0					6.89
995 Average	8.40	7.69	4.66	6.88	
996 Average	8.36	7.64	4.60	6.91	6.86
997 Average	8.43	7.59	4.53	6.91	6.85
998 Average	8.26	7.41	4.48	6.63	6.74
999 January	7.58	6.99	4.28	6.32	6.42
February	7.92	7.18	4.32	6.20	6.50
March	7.90	7.15	4.19	6.34	6.43
April	8.09	7.08	4.24	6.34	6.40
-	8.27	7.21	4.30	6.41	6.50
May					
June	8.43	7.42	4.54	6.43	6.83
July	8.49	7.56	4.80	6.46	7.11
August	8.42	7.49	4.87	6.40	7.08
September	8.36	7.45	4.57	6.40	6.87
October	8.37	7.41	4.47	6.46	6.70
November	8.09	7.13	4.27	6.17	6.41
December	7.94	6.88	4.19	6.24	6.39
Average	8.16	7.26	4.43	6.35	6.66
)00 January	7.62	^R 6.79	^R 4.14	^R 6.10	^R 6.29
	7.68	^R 6.84	^R 4.15	^R 6.38	6.28
February	^R 8.06	^R 6.94			
March			^R 4.15	^R 6.30	^R 6.34
April	8.13	^R 6.94	^R 4.20	^R 6.49	6.34
Мау	^R 8.34	^R 7.11	_ 4.40	6.20	^R 6.56
June	^R 8.56	^R 7.50	^R 4.59	6.53	^R 6.94
July	^R 8.63	^R 7.58	^R 4.76	^R 6.50	^R 7.14
August	^R 8.64	^R 7.68	^R 4.85	^R 6.52	^R 7.19
September	^R 8.50	^R 7.49	^R 4.69	^R 6.59	^R 6.98
October	^R 8.47	^R 7.45	^R 4.57	^R 6.48	^R 6.79
November	^R 8.19	^R 7.15	^R 4.37	^R 6.26	^R 6.51
December	7.79 ^R a aa	^R 7.25	4.64 B 4 .40	^R 6.32	^R 6.66
Average	^R 8.22	^R 7.22	^R 4.46	^R 6.38	^R 6.68
001 January	7.73	7.60	4.96	6.00	6.89

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

R=Revised.

Notes: Prices are calculated by dividing revenue by sales. Revenue may not correspond to sales for a particular month because of electric utility billing and accounting procedures. That lack of correspondence could result

in uncharacteristic increases or decreases in the monthly prices. See Note 7 at end of section. Geographic coverage is the 50 States and the District of Columbia.

Sources: See end of section.

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

	C	bal		Petro	leum		Natural	Gas ^a	All Fossil Fuels ^b
			Heav	y Oil ^b	Tot	al ^{b,c}			
	Quantity (thousand short tons)	Cost (cents per million Btu)	Quantity (thousand barrels)	Cost (cents per million Btu)	Quantity (thousand barrels)	Cost (cents per million Btu)	Quantity (million cubic feet)	Cost (cents per million Btu)	Cost (cents per million Btu
973 Year	374,842	40.5	512,650	78.5	535,859	80.0	3,382,677	33.8	47.6
974 Year	384,868	70.9	479,166	189.0	515,217	191.0	3,225,203	48.2	91.4
975 Year	431,527	81.4	457,582	200.5	510,352	202.3	3,034,808	75.2	104.4
976 Year	454,858	84.8	495,363	195.2	549,973	199.0	2,962,811	103.4	111.9
977 Year	490,415	94.7	563,685	219.8	635,556	224.9	3,106,403	129.1	129.7
978 Year	476,169	111.6	546,197	212.5	616,040	219.1	3,140,654	142.2	141.1
979 Year	556,558	122.4	479,705	298.8	515,695	307.2	3,368,976	174.9	163.9
980 Year	593,995	135.1	394,159	426.7	419,140	435.1	3,588,814	219.9	192.8
981 Year	579,374	153.2	327,477	533.4	345,544	542.5	3,573,558	280.5	225.6
982 Year	601,427	164.7	228,200	483.2	239,111	492.2	3,161,348	337.6	224.9
983 Year	592,728	165.6	211,705	457.8	219,652	462.8	2,732,248	347.4	220.6
984 Year	684,111	166.4	193,832	481.2	202,372	486.3	2,878,808	360.3	219.1
985 Year	666,743	164.8	156,410	424.4	164,947	431.7	2,808,921	344.4	209.4
986 Year	686,964	157.9	220,585	240.1	228,522	243.7	2,387,622	235.1	175.0
987 Year	721,298	150.6	187,300	297.6	194,578	301.1	2,605,191	224.0	170.6
988 Year	727,775	146.6	230,234	240.5	236,924	243.9	2,362,721	226.3	164.3
989 Year	753,217	144.5	237,668	284.6	246,422	289.3	2,472,506	235.5	167.5
990 Year	786,627	145.5	202,281	331.9	209,350	338.4	2,490,979	232.1	168.9
991 Year	769,923	144.7	163,106	246.5	169,625	254.8	2,630,818	215.3	160.3
992 Year	775,963	141.2	138,537	247.5	144,390	255.1	2,637,678	232.8	159.0
993 Year	769,152	138.5	141,719	236.2	147,902	243.3	2,574,523	256.0	159.5
994 Year	831,929	135.5	135,184	240.9	142,940	248.8	2,863,904	223.0	152.6
995 Year	826,860	131.8	78,216	258.6	84,292	267.9	3,023,327	198.4	145.3
996 Year	862,701	128.9	98,926	303.4	106,629	315.7	2,604,663	264.1	151.9
997 Year 998 Year	880,588 929,448	127.3 125.2	110,906 156,852	278.8 207.9	117,789 165,191	288.0 213.6	2,764,734 2,922,957	276.0 238.1	152.2 143.8
999 January	76,346	122.1	13,215	176.3	14,028	181.9	163,114	225.8	134.7
February	73,956	124.7	10,013	166.2	10,417	171.5	138,852	221.7	134.5
March	76,771	124.0	11,001	175.6	11,471	180.6	187,369	212.3	135.4
April	71,933	124.4	10,647	212.4	11,099	217.6	229,069	224.7	141.3
	74,458	121.8	10,701	230.2	11,289	236.0	253,352	251.6	144.3
June	74,427	122.3	11,176	233.5	11,959	240.5	278,473	247.5	146.0
July	76,496	121.0	13,249	259.6	14,198	267.9	367,060	251.3	151.9
August	81,351	120.6	12,129	293.3	13,203	303.7	379,367	282.1	157.2
September	76,745	120.3	9,557	304.2	10,126	312.0	262,342	294.5	151.4
October	77,114	121.3	8,052	310.2	8,636	320.9	220,823	282.4	146.7
November	73,998	119.1	7,449	315.8	8,035	329.0	164,874	298.2	142.7
December Total	74,638 908,232	118.2 121.6	6,030 123,219	330.4 243.6	6,946 131,407	353.9 252.7	164,761 2,809,455	264.7 257.4	138.5 144.1
000 January	70.017	119.4	2,668	353.6	3,037	378.6	170,117	270.9	138.8
February	66,992	121.3	3,846	391.7	4,271	419.6	151.115	290.2	143.3
March	69,703	121.3	3,846 3,764	385.8	4,271 4,066	402.7	191,465	290.2 293.0	143.3
April	63,275	121.2	4,621	384.3	4,909	394.3	199,665	315.8	140.0
May	67,178	121.3	7,578	411.3	4,909 8,188	424.3	268,904	354.9	167.4
June	65,080	120.3	10,034	435.4	10,636	444.2	268,618	445.7	187.4
July	68,229	119.3	11,394	431.0	12,024	439.8	321,994	434.0	191.3
August	69,160	118.5	10,992	418.0	11,406	426.4	330,155	429.6	189.0
September	64,081	117.6	8,481	454.5	8,939	467.8	236,112	486.1	186.3
October	59,993	121.6	8,944	475.9	9,351	487.1	177,499	530.1	187.4
November	59,599	119.2	8,184	462.8	8,667	477.6	146,725	539.4	178.2
December	60,972	118.8	10,454	431.0	12,603	471.7	156,959	840.9	218.1
Total	784,279	119.9	90,960	429.6	98,098	445.3	2,619,327	430.0	173.8
001 January	67,470	122.3	13,773	421.7	17,254	471.4	134,549	920.7	214.5

^a Includes supplemental gaseous fuels. ^b Heavy oil includes fuel oil nos. 4, 5, and 6, and topped crude oil. The weighted averages for petroleum and all fossil fuels include both heavy and light oil (fuel oil nos. 1 and 2, kerosene, and jet fuel) prices. Data do not ^c Data for 1973-1982 do not include small quantities of rerefined motor oil,

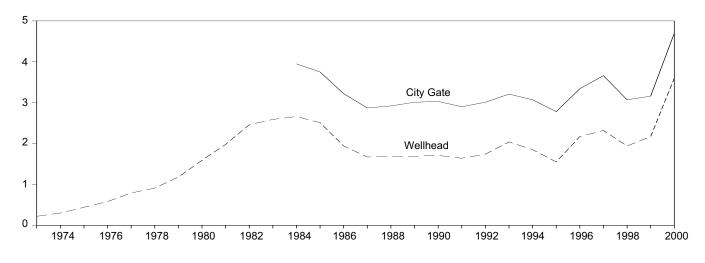
bunker oil, and liquefied petroleum gas. Notes: Receipts are purchases of fuel. Yearly costs are averages of monthly values, weighted by quantities in Btu. See Note 8 at end of section. Geographic coverage is the 50 States and the District of Columbia. Sources: See end of section.

An update to Table 9.10 was not available for inclusion this month.

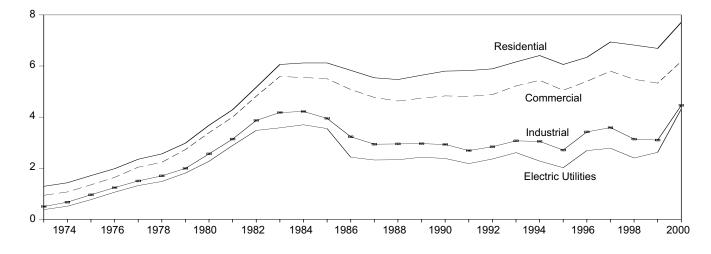
Figure 9.4 Natural Gas Prices

(Dollars per Thousand Cubic Feet)

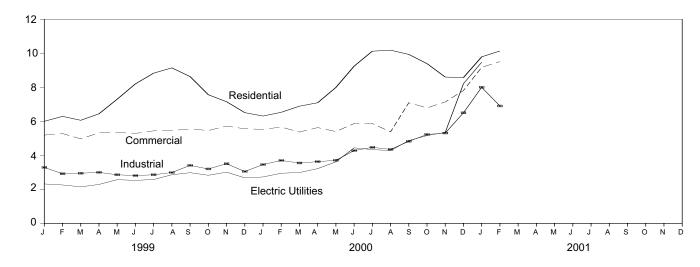
Selected Prices, 1973-2000



Delivered to Consumers, 1973-2000



Delivered to Consumers, Monthly



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

Table 9.11 Natural Gas Prices

					Delivered to Co	nsumers ^{a,b}		
				Con	nmercial	Ind	ustrial	
	Wellhead	City Gate	Residential	Price	Share of Total Volume Delivered	Price	Share of Total Volume Delivered	Electric Utilities ^c
1973 Average	0.22	NA	1.29	0.94	NA	0.50	NA	0.38
1974 Average	.30	NA	1.43	1.07	NA	.67	NA	.51
1975 Average	.44	NA	1.71	1.35	NA	.96	NA	.77
1976 Average	.58	NA	1.98	1.64	NA	1.24	NA	1.06
1977 Average	.79	NA	2.35	2.04	NA	1.50	NA	1.32
978 Average	.91	NA	2.56	2.23	NA	1.70	NA	1.48
979 Average	1.18	NA	2.98	2.73	NA	1.99	NA	1.81
1980 Average	1.59	NA	3.68	3.39	NA	2.56	NA	2.27
1981 Average	1.98	NA	4.29	4.00	NA	3.14	NA	2.89
1982 Average	2.46	NA	5.17	4.82	NA	3.87	85.1	3.48
1983 Average	2.59	NA	6.06	5.59	NA	4.18	80.7	3.58
1984 Average	2.66	3.95	6.12	5.55	NA	4.22	74.7	3.70
1985 Average	2.51	3.75	6.12	5.50	NA	3.95	68.8	3.55
1986 Average	1.94	3.22	5.83	5.08	NA	3.23	59.8	2.43
1987 Average	1.67	2.87	5.54	4.77	93.1	2.94	47.4	2.32
1988 Average	1.69	2.92	5.47	4.63	90.8	2.95	42.6	2.33
1989 Average	1.69	3.01	5.64	4.74	89.1	2.96	36.9	2.43
1990 Average	1.71	3.03	5.80	4.83	86.6	2.93	35.2	2.38
1991 Average	1.64	2.90	5.82	4.81	85.1	2.69	32.7	2.18
1992 Average	1.74	3.01	5.89	4.88	83.2	2.84	30.3	2.36
1993 Average	2.04	3.21	6.16	5.22	83.9	3.07	29.7	2.61
1994 Average	1.85	3.07	6.41	5.44	79.3	3.05	25.5	2.28
1995 Average	1.55	2.78	6.06	5.05	76.7	2.71	24.5	2.02
1996 Average	2.17	3.34	6.34	5.40	77.6	3.42	19.4	2.69
1997 Average	2.32	3.66	6.94	5.80	70.8	3.59	18.1	2.78
1998 Average	1.94	3.07	6.82	5.48	67.0	3.14	16.1	2.40
1999 January	1.84	2.87	6.00	5.19	73.1	3.29	16.9	2.32
February	1.75	2.93	6.29	5.28	69.7	2.92	16.8	2.26
March	1.68	2.69	6.06	4.97	69.3	2.95	17.4	2.15
April	1.86	2.94	6.44	5.32	65.4	3.00	16.6	2.29
May	2.16	3.41	7.30	5.34	61.1	2.86	16.0	2.57
June	2.12	3.28	8.20	5.29	61.1	2.81	15.8	2.53
July	2.18	3.23	8.83	5.44	58.2	2.86	15.7	2.58
August	2.49	3.53	9.14	5.46	56.6	2.99	18.8	2.86
September	2.61	3.72	8.63	5.55	60.0 61.7	3.41	17.5	2.98
October	2.50	3.31	7.56	5.46	61.7	3.20	17.5	2.83
November	2.67 2.20	3.76 3.24	7.15	5.72 5.56	63.0 67.6	3.51 3.05	17.7 21.3	3.01
December	2.20 2.17	3.24 3.16	6.51 6.69	5.56 5.33	66.2	3.05 3.10	21.3 17.4	2.68 2.62
Average	2.17	3.10	0.09	5.55	00.2	3.10	17.4	2.02
2000 January	^E 2.12	3.30	6.31	^R 5.53	^R 66.7	3.46	16.0	^R 2.73
February	^E 2.30	3.50	6.53	5.66	67.6	3.70	16.4	2.95
March	^E 2.36	3.54	6.89	ຼ 5.37	63.5	^R 3.55	15.6	2.99
April	^E 2.55	3.70	7.09	^R 5.63	ຼ63.3	^R 3.63	_ 15.2	3.22
May	^E 2.90	4.14	7.99	^R 5.40	^R 62.2	^R 3.71	^R 14.3	^R 3.62
June	^E 3.73	5.17	9.24	^R 5.87	58.8	^R 4.28	15.1	^R 4.44
July	^E 3.70	5.12	10.12	^R 5.87	^R 57.4	^R 4.47	^R 14.4	^R 4.34
August	^E 3.67	4.59	10.18	^R 5.38	^R 59.6	^R 4.35	^R 14.3	^R 4.28
September	^E 4.26	5.66	9.93	^R 7.09	58.3	^R 4.82	13.2	^R 4.87
October	^E 4.61	5.99	9.39	^R 6.79	^R 60.8	^R 5.23	^R 12.1	^R 5.16
November	^E 4.62	5.39	^R 8.60	7.14	^R 64.1	5.31	18.2	^R 5.35
December	^E 6.35	6.64	^R 8.57	^R 7.81	^R 68.2	6.50	^R 18.1	^R 8.21
Average	^E 3.60	4.70	7.71	^R 6.18	^R 64.0	4.46	^R 15.3	^R 4.32
2001 January	^E 8.06	^R 8.63	^R 9.79	^R 9.17	^R 68.8	^R 8.00	^R 17.3	9.47
February	^E 5.84	7.07	10.13	9.51	66.8	6.90	16.9	NA
March	^E 5.15	NA	NA	NA	NA	NA	NA	NA
April	^E 5.21	NA	NA	NA	NA	NA	NA	NA
Year-to-Date Avg.d	^E 6.07	NA	NA	NA	NA	NA	NA	NA
2000 Year-to-Date Avg. ^d 1999 Year-to-Date Avg. ^d	^E 2.33 1.78	3.39 2.89	6.41 6.12	5.59 5.23	67.1 71.6	3.58 3.11	16.2 16.9	2.73 2.32

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

^a Includes supplemental gaseous fuels.

^b See Note 9 at end of section.

^c See Note 8 at end of section.

^d Based on number of months with data in the current year. R=Revised. NA=Not available. E=Estimate. F=Forecast.

Notes: Prices shown on this page are intended to include all taxes. See

Note 9 at end of section. Wellhead annual and year-to-date prices are simple averages of the monthly prices; all other annual and year-to-date prices are volume-weighted averages of the monthly prices. Geographic coverage is the 50 States and the District of Columbia.

Sources: See end of section.

Energy Prices Notes

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

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

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

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

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

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

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

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

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

7. Preliminary monthly data are based on submissions from over 250 publicly and privately owned electric utilities reporting on Form EIA-826, "Monthly Electric Utility Sales and Revenue Report With State Distributions." These utilities are statistically chosen as a cutoff sample from more than 3,000 electric utilities that report annually on Form EIA-861, "Annual Electric Utility Report." Preliminary annual values are the sum of the monthly revenues divided by the sum of the monthly sales. When final Form EIA-861 annual data become available each year, their ratios to the preliminary Form EIA-826 values are used to derive adjusted final monthly values. Prior to January 1986, only privately owned electric utilities were included in the monthly survey and the sample was chosen using stratification techniques through December 1992.

8. Data for 1973-1982 cover all electric generating plants at which the generator nameplate capacity of all steam-electric units combined totaled 25 megawatts or greater. From 1974-1982, peaking units were included in the data and counted towards the 25-megawatt-or-greater total. Data for 1983-1990 cover all electric generating plants at which the generator nameplate capacity of all steam-electric units combined totaled 50 megawatts or greater. Data for 1991 forward cover all electric generating plants at which the generator nameplate capacity of all steam-electric units and combined-cycle units together totaled 50 megawatts or greater.

9. Natural gas prices are intended to include all taxes. Instructions on the data collection forms specifically direct that all Federal, State, and local taxes, surcharges, and/or adjustments billed to consumers are to be included. However, sales and other taxes itemized on more than 3,000 consumers' bills are sometimes excluded by the reporting utilities. Delivered-to-consumers prices for 1987 forward represent natural gas delivered and sold to residential, commercial, industrial, and electric utility consumers. They do not include the price of natural gas delivered to industrial and commercial consumers on behalf of third parties. Volumes of natural gas delivered on behalf of third parties are included in the consumption data shown in Table 4.4. Additional information is available in the EIA Natural Gas Monthly, Appendix C.

Sources for Table 9.1

Domestic First Purchase Price

1973-1976—U.S. Department of the Interior (DOI), Bureau of Mines (BOM), *Minerals Yearbook*, "Crude Petroleum and Petroleum Products" chapter. 1977—Federal Energy Administration (FEA), based on Form FEA-P124, "Domestic Crude Oil Purchaser's Monthly Report."

1978 forward—Energy Information Administration (EIA), *Petroleum Marketing Monthly*, June 2001, Table 1.

F.O.B. and Landed Cost of Imports

December 1973-September 1977—Federal Energy Administration, Form FEA-F701-M-0, "Transfer Pricing Report."

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

1978 forward—EIA, *Petroleum Marketing Monthly*, June 2001, Table 1.

Refiner Acquisition Cost

1973—EIA estimates. The domestic price was derived by adding estimated transportation costs to the reported domestic first purchase price. The imported price was derived by adding an estimated ocean transport cost to the average "Free Alongside Ship" value published by the U.S. Bureau of the Census.

1974-1976—DOI, BOM, *Minerals Yearbook*, "Crude Petroleum and Petroleum Products" chapter.

1977—January-September, FEA, based on Form FEA-P110-M-1, "Refiners' Monthly Cost Allocation Report." October-December, EIA, based on Form FEA-P110-M-1, "Refiners' Monthly Cost Allocation Report."

1978 forward—EIA, *Petroleum Marketing Monthly*, June 2001, Table 1.

Sources for Table 9.2

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

October 1977-December 1977—Energy Information Administration (EIA), Form FEA-F701-M-0, "Transfer Pricing Report."

1978 forward—EIA, *Petroleum Marketing Monthly*, June 2001, Table 24.

Sources for Table 9.9

1973-September 1977—Federal Power Commission (FPC), Form FPC-5, "Monthly Statement of Electric Operating Revenues and Income."

October 1977-February 1980—Federal Energy Regulatory Commission (FERC), Form FPC-5, "Monthly Statement of Electric Operating Revenues and Income." March 1980-1982—FERC, Form FERC-5, "Electric Utility Company Monthly Statement."

1983—Energy Information Administration (EIA), Form EIA-826, "Electric Utility Company Monthly Statement."

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

1990 forward—EIA, *Electric Power Monthly*, April 2001, Table 52.

Sources for Table 9.10

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

June 1977-December 1977—Federal Energy Regulatory Commission, Form FERC-423, "Monthly Report on Cost and Quality of Fuels for Electric Utility Plants." 1978 and 1979—Energy Information Administration

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

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

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

Sources for Table 9.11

Prices, 1973-1993

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

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

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

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

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

Prices, 1994 forward

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

Share of Total Volume Delivered, Annual

Calculated from EIA, *Natural Gas Annual, Volume 1*, report series, Table 1, "Summary Statistics for Natural Gas in the United States," as total amount of natural gas delivered to the sector's consumers minus the amount delivered for the account of others (to derive the amount on system) divided by the total amount delivered to the sector.

Share of Total Volume Delivered, Monthly

EIA, table titled, "Percentage of Total Deliveries Represented by Onsystem Sales, by State," in the *Natural Gas Monthly* issues as follows:

April 1988-March 1989	-	Table C-1
April 1989-December 1991	-	Table 33
January 1992-February 1993	-	Table 32
March 1993-October 1995	-	Table 28
November 1995-December 1997	-	Table 24
January 1998-Present	-	Table 25

Section 10. International Energy

Crude Oil Production. World crude oil production during March 2001 was 69 million barrels per day, up by 0.7 million barrels per day from the level in the previous month. World crude oil production in the first quarter of 2001 averaged 69 million barrels per day, up 4 percent from the first quarter 2000 average.

Organization of Petroleum Exporting Countries (OPEC) production during March 2001 averaged 30 million barrels per day, up 0.6 million barrels per day from the level during the previous month. OPEC production during the first quarter of 2001 averaged 29 million barrels per day, up 6 percent from the first quarter 2000 average. During March 2001, production increased in Iraq by 660 thousand barrels per day; Iran by 50 thousand barrels per day; the United Arab Emirates by 40 thousand barrels per day; and Nigeria by 30 thousand barrels per day. Production decreased in Indonesia by 85 thousand barrels per day; both Venezuela and Kuwait by 30 thousand barrels per day; and Libya by 10 thousand barrels per day. Production remained unchanged in Algeria and Qatar.

Among the non-OPEC nations, production during March 2001 increased in the United Kingdom by 124 thousand barrels per day; Norway by 59 thousand barrels per day; the United States by 38 thousand barrels per day; both Russia and Canada by 17 thousand barrels per day; and Mexico by 15 thousand barrels per day. Production

decreased in China by 105 thousand barrels per day and Egypt by 3 thousand barrels per day.

Petroleum Consumption. In January 2001, consumption in all Organization for Economic Cooperation and Development (OECD) countries was 43.6 million barrels per day, 5 percent¹ higher than the January 2000 rate. Comparing January rates in 2001 and 2000, consumption was higher in 2001 in Japan and Germany (each +12 percent); Canada (+10 percent); the United States (+5 percent); the United Kingdom (+2 percent); and France (less than +1 percent). The January 2001 consumption rate was lower in Italy (-3 percent), compared with the rate 1 year earlier.

Petroleum Stocks. For all OECD countries, petroleum stocks at the end of January 2001 totaled 3.5 billion barrels, less than 1 percent higher than the ending stock level in January 2000. Stock levels were higher in January 2001 in Canada (+9 percent); Italy (+3 percent); France and Japan (each +1 percent); and the United States (slightly higher). Stock levels were lower in Germany (-8 percent); and the United Kingdom (-5 percent), compared with levels 1 year earlier.

Nuclear Electricity Generation. Based on *Nucleonics Week*² information for March 2001, all reporting countries with nuclear capacity generated 224.8 gross terawatthours (one terawatthour equals 1 billion kilowatthours) of nuclear-generated electricity.

As of March 31, 2001, there were 435 operable nuclear generating units in the world.

¹ Percentage changes are based on unrounded data.

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Table 10.1a World Oil Production: OPEC Members

(Thousand Barrels per Day)

	Algoria	Indonesia	Iran	Iraa	Kuwait ^a	Libya	Nigeria	Qatar	Saudi Arabia ^a	United Arab Emirates	Venezuela	OPEC
	Algeria	indonesia	Iran	Iraq	Kuwaita	Libya	Nigeria	Qatar	Arabia	Emirates	venezuela	OPEC
73 Average	1,097	1,339	5,861	2,018	3,020	2,175	2,054	570	7,596	1,533	3,366	30,629
74 Average	1,009	1,375	6,022	1,971	2,546	1,521	2,255	518	8,480	1,679	2,976	30,351
75 Average	983	1,307	5,350	2,262	2,084	1,480	1,783	438	7,075	1,664	2,346	26,771
76 Average	1,075	1,504	5,883	2,415	2,145	1,933	2,067	497	8,577	1,936	2,294	30,327
77 Average	1,152	1,686	5,663	2,348	1,969	2,063	2,085	445	9,245	1,999	2,238	30,893
78 Average	1,231	1,635	5,242	2,563	2,131	1,983	1,897	487	8,301	1,831	2,165	29,464
79 Average	1,224	1,591	3,168	3,477	2,500	2,092	2,302	508	9,532	1,831	2,356	30,581
80 Average	1,106	1,577	1,662	2,514	1,656	1,787	2,055	472	9,900	1,709	2,168	26,60
81 Average	1,002	1,605	1,380	1,000	1,125	1,140	1,433	405	9,815	1,474	2,102	22,48′
82 Average	987	1,339	2,214	1,012	823	1,150	1,295	330	6,483	1,250	1,895	18,778
83 Average	968	1,343	2,440	1,005	1,064	1,105	1,241	295	5,086	1,149	1,801	17,497
84 Average	1,014	1,412	2,174	1,209	1,157	1,087	1,388	394	4,663	1,146	1,798	17,442
35 Average	1,037	1,325	2,250	1,433	1,023	1,059	1,495	301	3,388	1,193	1,677	16,18
B6 Average	945	1,390	2,035	1,690	1,419	1,034	1,467	308	4,870	1,330	1,787	18,275
87 Average	1,048	1,343	2,298	2,079	1,585	972	1,341	293	4,265	1,541	1,752	18,517
38 Average	1,040	1,342	2,240	2,685	1,492	1,175	1,450	346	5,086	1,565	1,903	20,324
39 Average	1,095	1,409	2,810	2,897	1,783	1,150	1,716	380	5,064	1,860	1,907	22,07
90 Average	1,175	1,462	3,088	2,040	1,175	1,375	1,810	406	6,410	2,117	2,137	23,19
91 Average	1,230	1,592	3,312	305	190	1,483	1,892	395	8,115	2,386	2,375	23,27
92 Average	1,214	1,504	3,429	425	1,058	1,433	1,943	423	8,332	2,266	2,371	24,39
93 Average	1,162	1,511	3,540	512	1,852	1,361	1,960	413	8,198	2,159	2,450	25,119
94 Average	1,180	1,510	3,618	553	2,025	1,378	1,931	415	8,120	2,193	2,588	25,510
95 Average	1,202	1,503	3,643	560	2,057	1,390	1,993	442	8,231	2,233	2,750	26,004
96 Average	1,242	1,547	3,686	579	2,062	1,401 1,446	2,001	510	8,218	2,278	2,938	26,461
97 Average 98 Average	1,277 1,246	1,520 1,518	3,664 3,634	1,155 2,150	2,083 2,085	1,390	2,332 2,153	649 696	8,562 8,389	2,316 2,345	3,315 3,167	28,320 28,774
99 January	1,230	1,508	3,665	2,515	1,995	1,360	2,080	666	8,065	2,239	3,019	28,342
February	1,240	1,488	3,925	2,655	2,005	1,360	2,010	666	8,165	2,329	2,999	28,84
March	1,250	1,498	3,795	2,430	2,020	1,360	2,160	742	8,220	2,234	2,960	28,66
April	1,210	1,498	3,485	2,655	1,785	1,320	2,160	675	7,665	2,180	2,800	27,43
	1,190	1,498	3,435	2,705	1,815	1,300	2,190	656	7,665	2,130	2,780	27,36
June	1,180	1,478	3,415	2,355	1,830	1,290	2,150	627	7,610	2,110	2,760	26,80
July	1,180	1,458	3,515	2,805	1,830	1,290	2,130	656	7,610	2,130	2,760	27,364
August	1,190	1,448	3,535	2,855	1,860	1,290	2,140	656	7,710	2,140	2,760	27,584
September	1,190	1,448	3,485	2,855	1,885	1,300	2,150	656	7,735	2,145	2,760	27,609
October	1,190	1,448	3,535	2,670	1,925	1,310	2,170	656	7,845	2,145	2,760	27,654
November	1,190	1,448	3,485	2,205	1,905	1,320	2,160	656	7,865	2,105	2,780	27,119
December	1,190	1,448	3,435	1,405	1,922	1,330	2,050	666	7,863	2,155	2,780	26,243
Average	1,202	1,472	3,557	2,508	1,898	1,319	2,130	665	7,833	2,169	2,826	27,57
00 January	1,190	1,460	3,465	2,215	1,962	1,330	2,010	695	7,863	2,245	2,790	27,22
February	1,190	1,430	3,525	2,595	2,015	1,380	2,060	705	7,865	2,250	2,850	27,86
March	1,190	1,430	3,735	2,215	2,040	1,390	2,080	705	7,865	2,300	2,850	27,80
April	1,230	1,460	3,675	2,655	2,100	1,400	2,140	715	8,100	2,380	2,900	28,75
May	1,240	1,490	3,685	3,055	2,100	1,400	2,110	735	8,200	2,380	2,930	29,32
June	1,250	1,490	3,705	2,565	2,150	1,420	2,140	735	8,250	2,280	2,950	28,93
July	1,250	1,490	3,750	2,525	2,170	1,425	2,180	755	8,390	2,320	2,970	29,22
August	1,260	1,490	3,750	2,995	2,173	1,420	2,160	755	8,823	2,380	2,980	30,18
September	1,250	1,490	3,755	2,875	2,170	1,430	2,110	755	8,975	2,390	2,980	30,18
October	1,270	1,460	3,835	3,005	2,210	1,440	2,210	760	8,800	2,410	3,050	30,450
November	1,265	1,450	3,830	2,815	2,215	1,440	2,260	765	8,900	2,415	3,050	30,40
December	1,280	1,455	3,905	1,355	2,210	1,445	2,265	765	8,800	2,420	3,080	28,98
Average	1,239	1,466	3,719	2,571	2,126	1,410	2,144	737	8,404	2,348	2,949	29,11
01 January	1,280	1,435	3,935	1,735	2,200	1,450	2,260	775	8,700	2,440	3,100	29,31
February	1,250	1,440	3,785	2,195	2,130	1,400	2,230	735	8,320	2,380	3,030	28,89
March	1,250	1,355	3,835	2,855	2,100	1,390	2,260	735	8,300	2,420	3,000	29,500
3-Mo. Avg	1,260	1,409	3,854	2,264	2,144	1,414	2,251	749	8,444	2,414	3,044	29,24
00 3-Mo. Avg	1,190	1,440	3,576	2,336	2,005	1,366	2,050	702	7,864	2,265	2,830	27,62
99 3-Mo. Avg	1,240	1,498	3,790	2,529	2,007	1,360	2,086	692	8,149	2,266	2,993	28,610

^a Includes about one-half of the production in the Kuwait-Saudi Arabia Neutral Zone from 1973 through July 1990 and in June 1991. Kuwaiti Neutral Zone output was discontinued following Iraq's invasion of Kuwait on August 2, 1990, but was resumed in June 1991. In March 2001, Neutral Zone production

by both Kuwait and Saudi Arabia totaled about 640 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.

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

(Thousand Barrels per Day)

					Select	ed Non-OF	PEC Produc	ers				
	Persian Gulf						Former		United	United	Total Non-	
	Nationsa	Canada	China	Egypt	Mexico	Norway	U.S.S.R.	Russia	Kingdom	States	OPEC	World
973 Average	20,668	1,798	1,090	165	465	32	8,324	NA	2	9,208	25,050	55,679
74 Average	21,282	1,551	1,315	150	571	35	8,912	NA	2	8,774	25,366	55,716
975 Average	18,934	1,430	1,490	235	705	189	9,523	NA	12	8,375	26,058	52,828
76 Average	21,514	1,314	1,670	330	831	279	10,060	NA	245	8,132	27,018	57,344
77 Average	21,725	1,321	1,874	415	981	280	10,603	NA	768	8,245	28,814	59,707
78 Average	20,606	1,316	2,082	485	1,209	356	11,105	NA	1,082	8,707	30,694	60,158
79 Average	21,066	1,500	2,122	525	1,461	403	11,384	NA	1,568	8,552	32,094	62,674
980 Average	17,961	1,435	2,114	595 598	1,936	528 501	11,706	NA	1,622	8,597	32,994	59,600
981 Average 982 Average	15,245 12,156	1,285 1,271	2,012 2,045	670	2,313 2,748	520	11,850 11.912	NA NA	1,811 2,065	8,572 8,649	33,595 34,703	56,076 53,481
983 Average	11,081	1,356	2,045	727	2,689	614	11,972	NA	2,003	8,688	35,759	53,256
984 Average	10,784	1,438	2,296	822	2,003	697	11,861	NA	2,480	8,879	37,047	54,489
985 Average	9,630	1,471	2,505	887	2,745	788	11,585	NA	2,530	8,971	37,801	53,982
986 Average	11,696	1,474	2,620	813	2,435	870	11,895	NA	2,539	8,680	37,952	56,227
987 Average	12,103	1,535	2,690	896	2,548	1,022	12,050	NA	2,406	8,349	38,149	56,666
988 Average	13,457	1,616	2,730	848	2,512	1,158	12,053	NA	2,232	8,140	38,413	58,737
89 Average	14,837	1,560	2,757	865	2,520	1,554	11,715	NA	1,802	7,613	37,792	59,863
990 Average	15,278	1,553	2,774	873	2,553	1,704	10,975	NA	1,820	7,355	37,371	60,566
991 Average	14,741	1,548	2,835	874	2,680	1,890	9,992	NA	1,797	7,417	36,932	60,207
992 Average	15,970	1,605	2,845	881	2,669	2,229	8,541	7,632	1,825	7,171	35,815	60,213
993 Average	16,715	1,679	2,890	890	2,673	2,350	-	6,730	1,915	6,847	35,117	60,236
994 Average	16,964	1,746	2,939	896	2,685	2,521	-	6,135	2,375	6,662	35,481	60,991
95 Average	17,208	1,805	2,990	920	2,618	2,768	-	5,995	2,489	6,560	36,331	62,335
96 Average	17,367	1,837	3,131	922	2,855	3,104	-	5,850	2,568	6,465	37,250	63,711
97 Average	18,470 19,337	1,922 1,981	3,200 3,198	856 834	3,023 3,070	3,143 3,017	_	5,920 5,854	2,518 2,616	6,452 6,252	38,100 38,188	66,420 66,962
•						-			·		-	
99 January	19,182	1,892	3,219	860	3,144	3,002	-	E 5,962	2,721	5,963	38,549	66,891
February	19,782	1,878	3,224	860	3,020	3,004	-	E 5,897	2,728	5,966	38,369	67,211
March	19,479	1,835	3,204	870	3,053	2,975	-	^E 6,024 ^E 6,021	2,708	5,883	38,220	66,888
April May	18,482 18,443	1,832 1,882	3,179 3,179	870 860	2,893 2,926	2,953 2,948	_	^E 6,021	2,746 2,597	5,887 5,875	38,013 37,890	65,446 65,253
June	17,984	1,936	3,179	850	2,920	2,940	_	^E 6,026	2,397	5,760	37,398	64,202
July	18,583	1,959	3,250	840	2,920	3,094	_	^E 6,148	2,429	5,798	38,362	65,725
August	18,793	1,906	3,159	840	2,848	2,868	_	^E 6,139	2,699	5,780	38,019	65,603
September	18,798	1,857	3,134	850	2,861	2,864	_	^E 6,141	2,670	5,804	38,033	65,642
October	18,813	1,892	3,166	840	2,766	3,070	_	^E 6,153	2,762	5,947	38,503	66,156
November	18,258	2,006	3,234	840	2,852	3,300	_	^E 6,153	2,782	5,960	39,025	66,143
December	17,482	2,002	3,214	840	2,793	3,404	_	^E 6,231	2,697	5,959	39,094	65,337
Average	18,667	1,907	3,195	852	2,906	3,018	-	E 6,079	2,684	5,881	38,291	65,870
00 January	18,481	1,979	3,250	740	3,032	3,233	_	^E 6,239	2,721	^R 5,784	^R 38,937	^R 66,162
February	18,991	1,991	3,280	735	2,897	3,348	-	^E 6,248	2,644	^R 5,852	^R 38,919	^R 66,784
March	18,896	1,892	3,280	730	2,998	3,248	-	^E 6,321	2,678	^R 5,918	^R 39,015	^R 66,815
April	19,661	1,894	3,300	735	3,041	3,052	-	^E 6,308	2,549	^R 5,854	^R 38,711	^R 67,466
May	20,191	1,990	3,250	725	3,040	3,149	-	^E 6,352	2,311	^R 5,847	^R 38,626	^R 67,951
June	19,721	2,020	3,295	720	3,056	2,984	-	^E 6,421	2,446	^R 5,823	^R 38,813	^R 67,748
July	19,946	1,986	3,280	706	2,876	3,398	-	^E 6,494	2,535	^R 5,739	^R 39,153	^R 68,378
August	20,911	1,955	3,205	695	3,162	3,025	-	^E 6,546	2,370	^R 5,789	^R 38,980	^R 69,165
September	20,956	2,007	3,220	690	3,173	3,012	-	E 6,590	2,315	^R 5,758	^R 39,009	^R 69,189
October	21,056	1,961	3,210	685	2,861	3,247	-	^E 6,711	2,334	^R 5,809	^R 39,176	R 69,626
November	20,976	2,029	3,206	680	2,965	3,327	-	E 6,737	2,389	^R 5,833	^R 39,769	^R 70,174
December Average	19,491 19,941	2,021 1,977	3,212 3,249	677 710	3,043 3,012	3,336 3,197	_	^E 6,771 ^E 6,479	2,413 2,475	^R 5,855 ^R 5,822	^R 39,930 ^R 39,087	^R 68,910 ^R 68,200
	19,820	2,032						^E 6,875	2,338	^E 5,836	^R 39,813	^R 69,123
001 January	19,820	2,032 ^R 2,052	3,220 ^R 3,330	669 671	3,087	3,325	-	E 6,966	2,338 ^R 2,264	^E 5,836	^R 39,813	^R 68,639
February March	20,280	2,052	3,225	671 668	3,136 3,151	3,153 3,212	_	^E 6,983	2,388	⁻ 5,840 ^E 5,878	39,744	69,366
3-Mo. Avg	20,280 19,904	2,009 2,051	3,225 3,256	669	3,131 3,124	3,212 3,233	_	^E 6,941	2,388 2,332	E 5,852	39,800 39,810	69,056
000 3-Mo. Avg	18,785	1,953	3,270	735	2,977	3,275	_	^E 6,270	2,682	5,851	38,958	66,583
	10,100	1,333	0,210		2,311	0,210	-	E 5,963	2,002	5,051	00,000	

 $^{\rm a}$ 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.

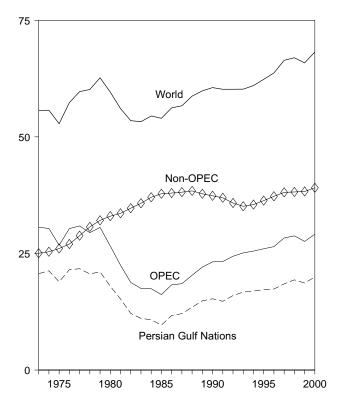
Notes: Crude oil includes lease condensate but excludes natural gas plant liquids. Monthly data are often preliminary figures and may not

Sources: See end of section.

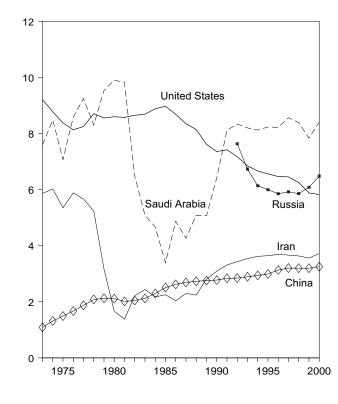
Figure 10.1 Crude Oil Production

(Million Barrels per Day)

World Production, 1973-2000

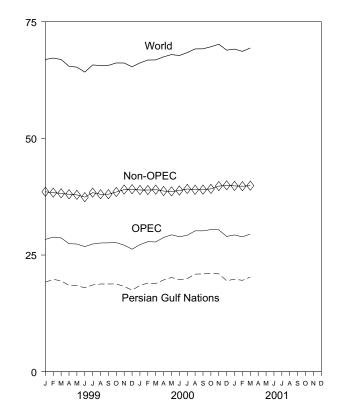


Selected Producers, 1973-2000



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

World Production, Monthly



Selected Producers, Monthly

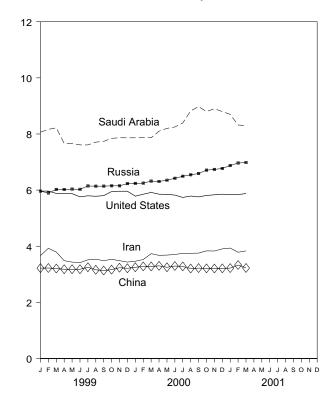
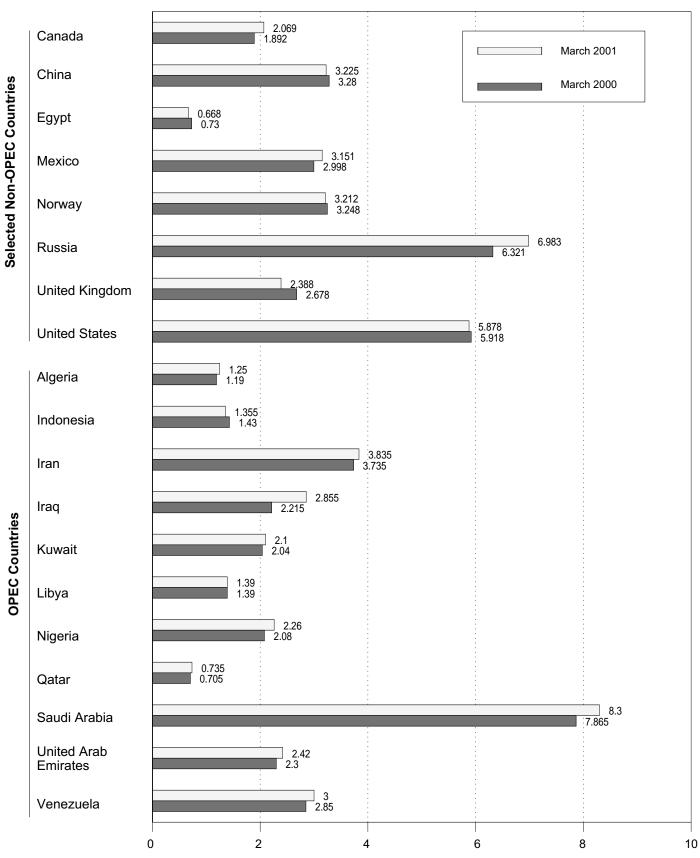


Figure 10.2 Crude Oil Production by Selected Country

(Million Barrels per Day)

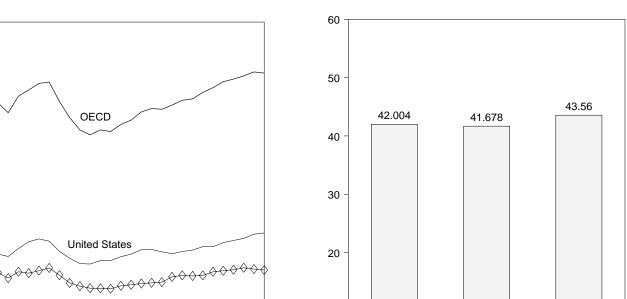


Note: OPEC is the Organization of Petroleum Exporting Countries. Sources: Tables 10.1a and 10.1b.

Figure 10.3 Petroleum Consumption in OECD Countries

(Million Barrels per Day)

Overview, 1973-2000

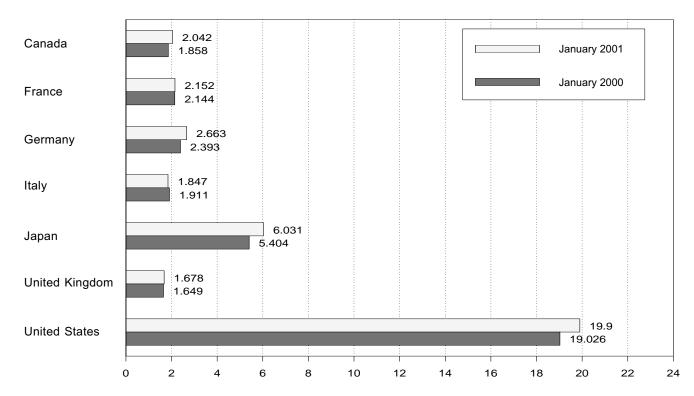


OECD Total, January

By Selected OECD Country

OECD Europe

Japan



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

Table 10.2 Petroleum Consumption in OECD Countries

(Thousand Barrels per Day)

						United	United	OECD	Other	
	Canada	France	Germanya	Italy	Japan	Kingdom	States	Europeb	OECDC	OECD
973 Average	1,729	2.601	3,055	2,068	4.949	2,341	17,308	14,925	988	39,900
974 Average	1,779	2.447	2,748	2,004	4,864	2,210	16,653	13,988	1,095	38,379
975 Average	1,779	2,252	2,650	1,855	4,621	1,911	16,322	13,217	1,041	36,980
976 Average	1.818	2,420	2,877	1,971	4,837	1,892	17,461	14,124	1,119	39,358
977 Average	1,850	2,294	2,865	1,897	4,880	1,905	18,431	13,916	1,160	40,237
978 Average	1,902	2,408	2,927	1,952	4,945	1,938	18,847	14,290	1,204	41,187
979 Average	1,971	2,463	3.003	2,039	5,050	1,971	18,513	14,667	1,178	41,379
980 Average	1,873	2,405	2,707	1,934	4.960	1,725	17,056	13,634	1,072	38,595
981 Average	1,768	2,230	2,449	1,874	4,848	1,590	16,058	12,515	1,072	36,269
	1,578	1,880	2,445	1,781	4,582	1,590	15,296	12,053	1,008	34,517
982 Average		1,835			4,382				954	
983 Average	1,448		2,324	1,750		1,531	15,231	11,765		33,793
984 Average	1,472	1,754	2,322	1,646	4,576	1,849	15,726	11,736	989	34,500
985 Average	1,504	1,775	2,338	1,717	4,384	1,634	15,726	11,681	976	34,271
986 Average	1,506	1,772	2,498	1,738	4,439	1,649	16,281	12,102	951	35,279
987 Average	1,548	1,789	2,424	1,855	4,484	1,603	16,665	12,255	959	35,911
988 Average	1,693	1,797	2,422	1,836	4,752	1,697	17,283	12,427	939	37,093
989 Average	1,733	1,857	2,280	1,930	4,983	1,738	17,325	12,531	998	37,570
990 Average	1,690	1,818	2,382	1,872	5,140	1,752	16,988	12,629	1,027	37,475
991 Average	1,622	1,935	2,828	1,863	5,284	1,801	16,714	13,391	1,056	38,067
992 Average	1,643	1,926	2,843	1,937	5,446	1,803	17,033	13,605	1,051	38,778
993 Average	1,688	1,875	2,900	1,852	5,401	1,815	17,237	13,523	1,117	38,966
994 Average	1,727	1,833	2,879	1,841	5,674	1,837	17,718	13,597	1,171	39,887
995 Average	1,755	1,896	2,875	2,048	5,711	1,845	17,725	14,120	1,265	40,575
996 Average	1,797	1,935	2,911	2,058	5,867	1,845	18,309	14,269	1,190	41,432
997 Average	1.842	1.954	2.903	2.045	5,711	1.781	18,620	14.412	1.221	41.807
998 Average	1,859	2,031	2,916	2,072	5,512	1,765	18,917	14,699	1,271	42,259
999 January	1,853	2,022	2,561	2,047	5,887	1,670	19,029	14,106	1,129	42,004
February	1,975	2,218	3,171	2,108	6,471	1,865	19,107	15,659	1,258	44,469
March	1,871	2,123	3,549	2,003	6,192	1,838	19,497	15,911	1,407	44,878
April	1,814	2,004	2,431	1,886	5,323	1,685	19,152	13,900	1,312	41,501
May	1,899	1,728	2,472	1,764	4,788	1,619	18,705	13,150	1,250	39,792
June	1,903	2,007	2,687	1,953	4,968	1,683	19,836	14,261	1,366	42,334
July	1,967	1,998	2,587	1,948	5,091	1,674	19,820	13,950	1,241	42,070
August	1,932	1,890	2,735	1,795	5,277	1,678	20,093	13,759	1,360	42,421
	2.010	1,988	2,876	2.060	5,359	1,703	19,483	,	1,236	42.574
September	1,932	,	2,876	2,060	5,359 5,088	1,703	19,463	14,486 14,413	1,236	42,574
October		2,015		,	,	,				,
November	2,021	2,155	2,968	2,067	5,732	1,784	19,087	15,233	1,273	43,346
December	2,020	2,196	2,929	2,111	6,744	1,716	20,498	15,379	1,457	46,098
Average	1,933	2,027	2,822	1,975	5,572	1,717	19,519	14,508	1,305	42,837
000 January	^R 1,858	2,144	^R 2,393	1,911	5,404	1,649	^R 19,026	^R 14,019	1,371	^R 41,678
February		2,120	^R 2,705	2,077	6,347	1,738	^R 19,635	^R 14,951	1,298	^R 45,020
March	^R 1,913	2,101	^R 2,736	1,982	6,211	1,833	^R 19,218	^R 14,750	1,396	R 43,489
April	1,814	1,925	^R 2,639	1,863	5,196	1,591	^R 18,816	^R 13,729	1,240	^R 40,795
May	2.033	1,837	^R 2,672	1,835	4,871	1,604	^R 19,605	^R 13.965	1,299	^R 41.773
June	2,000	1,945	^R 2,697	1,997	4.880	1,639	^R 20,054	^R 14.216	1,235	^R 42.429
July	D / * *	1,943	^R 2,747	1,898	5,230	1,583	^R 19,696	^R 13,865	1,273	R 42,429
	^R 2,025	1,947	^R 3,063	,	,	1,565	^R 20,496	^R 14,730	1,403	^R 44,137
August			^R 2,987	1,900	5,483		^R 19,899			
September	^R 2,070	1,784		2,016	5,429	1,739		^R 14,617	1,201	^R 43,216
October	^R 2,084	2,234	^R 2,736	1,944	5,005	1,736	^R 19,798	^R 14,689	1,391	^R 42,968
November	^R 2,170	2,015	^R 2,824	1,973	5,580	1,776	^R 19,328	^R 14,690	^R 1,394	^R 43,162
December		1,952	^R 2,810	2,062	6,206	1,588	^R 20,814	^R 14,357	1,373	^R 44,832
Average	2,007	1,997	2,751	1,954	5,484	1,681	^R 19,701	^R 14,379	1,327	^R 42,948
01 January	2,042	2,152	2,663	1,847	6,031	1,678	19,900	14,250	1,337	43,560

^a Through December 1990, the data for Germany are for the former West Germany only. Beginning with January 1991, the data for Germany are for the unified Germany, i.e., the former East Germany and West Germany.

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

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.

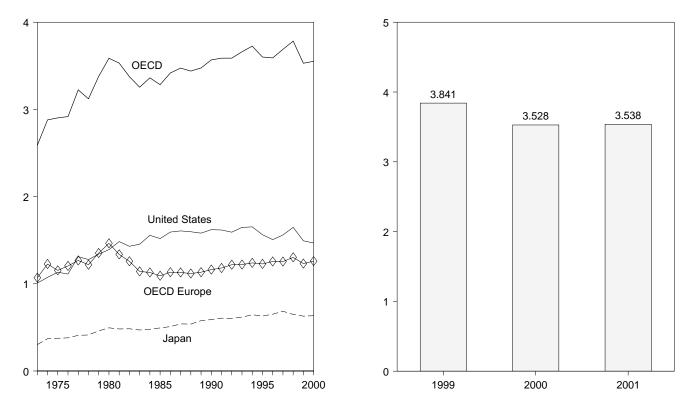
All Other Data: Sources: United States: Table 3.1a. 1973-1979—International Energy Agency (IEA), Annual Oil and Gas Statistics of OECD Countries. 1980 forward-IEA, quarterly and monthly computer tapes supporting Quarterly Oil Statistics and Energy Balances.

Figure 10.4 Petroleum Stocks in OECD Countries

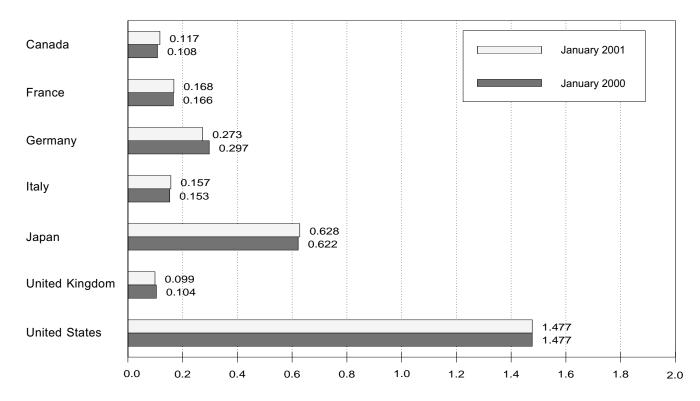
(Billion Barrels)

Overview, End of Year, 1973-2000

OECD Stocks, End of Month, January



By Selected Country, End of Month



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

Table 10.3 Petroleum Stocks in OECD Countries

(Million Barrels)

		_				United	United	OECD	Other	
	Canada	France	Germany ^a	Italy	Japan	Kingdom	States	Europe ^b	OECD ^c	OECDd
973 Year	140	201	181	152	303	156	1,008	1,070	67	2,588
974 Year	145	249	213	167	370	191	1,074	1,227	64	2,880
975 Year	174	225	187	143	375	165	1,133	1,154	67	2,903
976 Year	153	234	208	143	380	165	1,112	1,205	68	2,918
977 Year	167	239	225	161	409	148	1,312	1,268	68	3,224
978 Year	144	201	238	154	413	157	1,278	1,219	68	3,122
979 Year	150	226	272	163	460	169	1,341	1,353	75	3,379
980 Year	164	243	319	170	495	168	1,392	1,464	72	3,587
981 Year	161	214	297	167	482	143	1,484	1,337	67	3,531
982 Year	136	193	272	179	484	125	1,430	1,258	68	3,376
983 Year	121	153	249	149	470	118	1,454	1,142	68	3,255
984 Year	128	152	239	159	479	112	1,556	1,130	69	3,362
985 Year	113	139	233	157	494	123	1,519	1,092	66	3,284
986 Year	111	127	252	155	509	124	1,593	1,133	72	3,418
987 Year	126	127	259	169	540	121	1,607	1,130	71	3,474
988 Year	116	140	266	155	538	112	1,597	1,118	71	3,440
989 Year	114	138	271	164	577	118	1,581	1,133	71	3,476
990 Year	121	140	265	172	590	112	1,621	1,163	73	3,568
991 Year	119	153	288	160	606	119	1,617	1,181	65	3,588
992 Year	107	146	310	174	603	113	1,592	1,219	67	3,588
993 Year	105	158	309	163	618	118	1,647	1,221	69	3,661
994 Year	119	158	312	164	645	115	1,653	1,240	69	3,726
995 Year	109	159	301	162	630	107	1,563	1,228	71	3,601
996 Year	103	158	300	152	651	108	1,507	1,256	74	3,591
997 Year	115	164	298	147	685	104	1,560	1,255	74	3,689
998 Year	118	161	321	153	649	108	1,647	1,303	66	3,784
999 January	118	181	329	154	645	110	1,642	1,364	72	3,841
February	118	175	320	146	633	109	1,635	1,323	74	3,783
March	120	179	306	149	634	109	1,620	1,308	71	3,754
April	119	173	316	153	636	110	1,624	1,333	75	3,787
	120	182	317	154	637	106	1,658	1,342	74	3,829
June	118	177	310	146	638	102	1,642	1,304	73	3,776
July	115	174	313	145	645	103	1,644	1,310	76	3,790
August	114	178	307	151	661	108	1,622	1,324	78	3,799
September	114	173	300	150	652	105	1,615	1,289	77	3,747
October	118	169	295	151	658	105	1,585	1,288	73	3,723
November	116	169	290	150	659	103	1,571	1,257	76	3,678
December	108	163	287	148	629	104	1,493	1,232	69	3,530
000 January	^R 108	166	297	153	622	104	^R 1,477	1,253	69	^R 3,528
February	108	167	^R 288	149	613	106	^R 1,466	^R 1,244	72	^R 3,504
March	110	170	284	154	606	106	^R 1,476	1,243	66	^R 3,501
April	112	171	^R 281	152	618	104	^R 1,505	1,222	69	^R 3,527
May	110	172	^R 280	148	634	97	^R 1,518	^R 1,207	72	^R 3,540
June	111	174	277	152	632	99	^R 1,526	1,223	71	^R 3,563
July	117	171	^R 280	150	639	105	^R 1,540	^R 1,243	77	^R 3,615
August	117	171	274	153	639	101	^R 1,532	1,237	66	^R 3,591
September	116	172	274	156	627	99	^R 1,527	1,241	76	^R 3.587
October	114	170	276	160	642	102	^R 1,507	^R 1,245	71	^R 3,578
November	116	171	R 272	162	645	100	^R 1,505	^R 1,245	77	R 3.588
December	115	174	271	157	634	103	^R 1,468	1,260	70	^R 3,547
001 January	117	168	273	157	628	99	1,477	1,244	71	3,538

^a Through December 1990, the data for Germany are for the former West Germany only. Beginning with January 1991, the data for Germany are for the unified Germany, i.e., the former East Germany and West Germany.

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

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

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

R=Revised.

Notes: Stocks are at end of period. Petroleum stocks include crude oil (including strategic reserves), unfinished oils, natural gas plant liquids, and refined products. Petroleum stocks include all nonmilitary petroleum held for

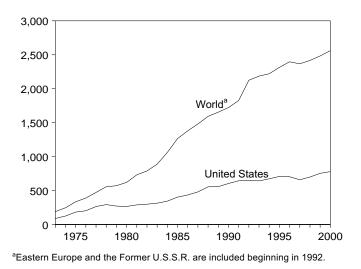
storage, regardless of ownership, within each country in bulk terminals, refinery tanks, pipeline tankage, intercoastal tankers, tankers in port, and inland ship bunkers. Data exclude oil held in pipelines (except for those in the United States), rail and truck cars, sea-going ships' bunkers, service stations, retail stores, and tankers at sea. In the United States in January 1975, 1981, and 1983, numerous respondents were added to bulk terminal and pipeline surveys, thereby affecting subsequent stocks reported. New-basis end-of-year U.S. stocks, in million barrels, would have been 1,121 in 1974, 1,425 in 1980, and 1,461 in 1982. Data through 1996 are final. Subsequent data are preliminary. Totals may not equal sum of components due to independent rounding. U.S. geographic coverage is the 50 States and the District of Columbia.

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

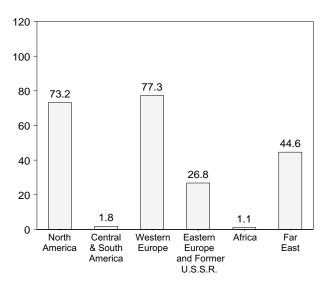
Figure 10.5 Nuclear Electricity Gross Generation

(Billion Kilowatthours)

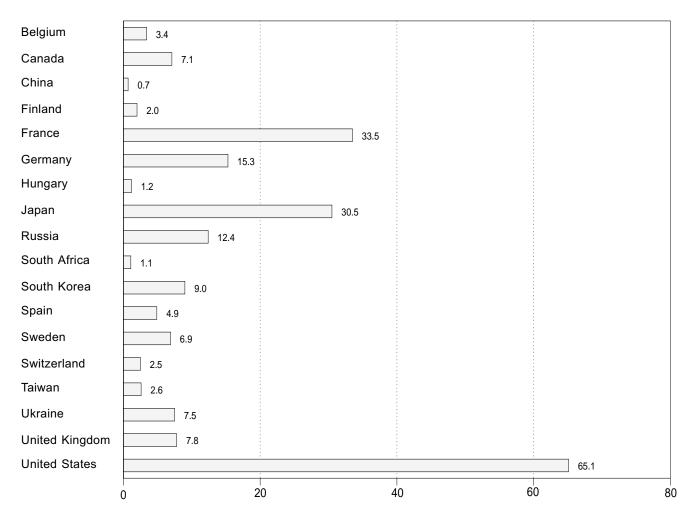
U.S. and World, 1973-2000



By Region, March 2001



By Selected Country, March 2001



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

Table 10.4a Nuclear Electricity Gross Generation: Regions and World

(Billion Kilowatthours)

	North	Central and	Western	Eastern Europe and Former			
	America	South America	Europe ^a	U.S.S.R. ^a	Africa	Far East ^a	World ^{a,b}
73 Total	103.1	_	73.9	NA	_	12.3	189.3
74 Total	139.7	1.0	83.9	NA	-	21.4	246.0
75 Total	195.5	2.5	111.7	NA	-	24.4	334.1
76 Total	219.8	2.6	126.2	NA	_	40.3	388.9
7 Total	290.8	1.6	148.1	NA	_	31.5	472.0
'8 Total	325.4	2.9	166.9	NA	_	60.6	555.9
79 Total	309.0	2.7	184.3	NA	_	74.7	570.7
30 Total	305.8	2.3	214.2	NA	_	97.4	619.8
					-		
31 Total	331.8	2.8	293.4	NA		102.9	730.9
32 Total	341.2	1.9	321.8	NA	-	123.6	788.5
83 Total	366.6	3.6	377.2	NA	-	140.1	887.5
34 Total	397.6	6.6	485.4	NA	4.2	167.7	1,061.5
35 Total	465.6	9.1	582.8	NA	5.9	202.0	1,265.4
36 Total	508.8	5.8	631.5	NA	9.3	223.6	1,378.9
37 Total	560.1	6.2	648.3	NA	6.6	259.5	1,480.7
38 Total	639.7	5.5	688.1	NA	11.1	248.5	1,592.8
9 Total	640.2	6.6	732.2	NA	11.7	263.4	1,654.1
90 Total	681.3	9.4	738.6	NA	8.9	284.3	1,722.5
91 Total	733.4	9.2	769.7	NA	9.7	303.3	1,825.2
92 Total	735.2	8.8	787.8	E 267.5	9.9	315.2	^{b E} 2,124.5
				E 259.0		E 345.2	
93 Total	744.6	8.1	820.9		7.7		E 2,185.6
94 Total	787.3	8.2	820.2	E 227.8	10.3	E 366.7	E 2,220.4
95 Total	816.1	9.6	E 835.7	E 234.9	11.9	^E 407.0	^E 2,315.1
96 Total	806.4	9.8	E 879.5	^E 261.6	12.5	^E 426.4	^E 2,396.3
97 Total	^E 752.8	11.1	E 886.5	^E 247.1	13.3	^E 456.2	^E 2,367.0
98 Total	^E 781.0	10.8	^E 884.2	^E 248.9	14.3	^E 477.2	^E 2,416.4
99 January	^E 74.4	^E 1.2	^E 84.7	^E 27.4	.9	^E 40.7	^E 229.3
February	^E 66.2	1.1	^E 75.0	^E 24.8	.8	E 35.7	^E 203.5
March	^E 69.0	1.1	^E 79.0	^E 26.8	1.4	40.6	^E 218.0
April	^E 59.9	1.1	^E 71.8	E 22.6	1.4	E 39.2	^E 195.9
May	E 63.2	.8	66.5	E 20.2	1.2	E 37.7	E 189.7
June	E 68.6	.0	E 67.1	E 18.7	1.2	E 36.2	E 192.6
	E 74.5	E.7	E 66.3	E 19.2	1.3	^E 41.3	E 203.3
July						E 43.3	
August	E 76.9	.8	^E 66.6	E 19.2	1.2		E 208.0
September	E 70.9	.7	^E 68.1	E 19.5	.9	^E 40.1	E 200.3
October	^E 66.1	.8	^E 74.1	^E 19.8	.7	^E 40.6	^E 202.1
November	^E 69.6	1.0	E 77.1	^E 21.6	1.2	E 41.4	E 212.0
December	^E 78.0	1.1	^E 81.7	^E 24.6	1.3	^E 41.1	^E 228.0
Total	E 837.3	E 11.1	^E 878.1	^E 264.7	13.5	^E 478.0	^E 2,482.6
00 January	^E 77.7	1.2	^E 82.0	^E 27.3	1.3	^E 40.8	E 230.3
February	^E 70.4	1.1	^E 76.6	^E 25.8	1.3	E 37.9	^E 213.0
March	E 69.7	.9	E 80.5	E 26.5	1.1	E 42.9	E 221.7
April	E 63.6	E.8	^E 72.6	E 21.7	.8	E 41.6	E 201.2
May	E 69.9	.5	E 69.6	E 20.9	.7	^E 41.5	E 203.2
,	E 73.8	.7	^E 68.7	E 22.0	1.2	^E 40.5	E 206.8
June							
July	E 79.1	.8	E 66.5	E 20.7	1.3	E 43.7	E 212.1
August	E 76.5	E 1.0	E 66.6	E 19.3	1.1	E 43.4	E 207.9
September	^E 69.2	.8	E 70.1	E 23.9	1.2	^E 39.6	E 204.8
October	E 63.2	.8	^E 77.6	^E 25.5	1.4	^E 40.2	E 208.7
November	^E 68.5	1.6	^E 78.7	^E 25.3	1.2	^E 41.8	E 217.1
December	^E 78.5	1.4	^E 83.5	^E 26.3	1.1	E 43.2	^E 234.0
Total	E 860.3	^E 11.5	^E 893.1	^E 285.3	13.6	^E 497.1	^E 2,560.9
1 January	^E 80.0	1.5	^E 82.3	^E 27.2	.8	^E 41.4	E 233.2
February	E 72.6	1.6	E 75.2	^E 26.5	.6	E 39.4	E 215.9
March	E 73.2	1.8	E 77.3	E 26.8	1.1	E 44.6	E 224.8
3-Month Total	E 225.8	4.8	E 234.7	E 80.5	2.5	E 125.5	E 673.8
00 3-Month Total	^E 217.8	3.2	^E 239.1	^E 79.6	3.7	^E 121.6	^E 665.0

^a Sum of available data only.

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

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

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

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

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

Table 10.4b Nuclear Electricity Gross Generation: North, Central, and South America

(Billion Kilowatthours)

		North	America		Centr	al and South Am	erica
	Canada	Mexico	United States	Total	Argentina	Brazil	Total
973 Total	15.3	_	87.8	103.1	_	_	_
974 Total	15.4	_	124.3	139.7	1.0	_	1.0
975 Total	13.2	_	182.3	195.5	2.5	_	2.5
976 Total	18.0	_	201.8	219.8	2.6	_	2.6
	26.6	_			1.6	_	1.6
977 Total			264.2	290.8		-	
978 Total	33.0	-	292.4	325.4	2.9	-	2.9
979 Total	38.4	-	270.6	309.0	2.7	-	2.7
980 Total	40.4	-	265.4	305.8	2.3	-	2.3
981 Total	43.3	-	288.5	331.8	2.8	-	2.8
982 Total	42.6	-	298.6	341.2	1.9	0.1	1.9
983 Total	53.0	-	313.6	366.6	3.4	.2	3.6
984 Total	53.8	_	343.8	397.6	4.5	2.1	6.6
985 Total	62.9	_	402.7	465.6	5.8	3.4	9.1
986 Total	74.6	_	434.1	508.8	5.7	.1	5.8
987 Total	80.6	_	479.5	560.0	5.2	1.0	6.2
		-					
988 Total	85.6	-	554.1	639.7	5.1	.3	5.5
989 Total	83.2	_	557.0	640.2	5.0	1.6	6.6
990 Total	75.8	2.1	603.4	681.3	7.4	2.0	9.4
991 Total	86.1	4.2	643.0	733.4	7.7	1.4	9.2
992 Total	81.3	3.9	650.0	735.2	7.1	1.8	8.8
993 Total	97.6	4.9	642.0	744.6	7.7	.4	8.1
994 Total	110.7	4.2	672.4	787.3	8.2	.0	8.2
995 Total	100.4	7.9	707.7	816.1	7.1	2.5	9.6
996 Total	95.2	7.9	703.3	806.4	7.4	2.4	9.8
997 Total	84.1	10.4	E 658.3	E 752.8	8.0	3.2	11.1
998 Total	E 72.7	9.5	E 698.7	^E 781.0	7.5	3.3	10.8
	12.1	5.5	030.7	701.0	1.5	5.5	10.0
999 January	_ 6.3	.9	^E 67.2	E74.4	E.7	.4	^E 1.2
February	^E 5.7	.8	^E 59.6	^E 66.2	.7	.4	1.1
March	7.2	.9	^E 60.9	^E 69.0	.7	.4	1.1
April	6.1	.9	^E 52.9	^E 59.9	.7	.3	1.1
	4.7	.9	^E 57.6	E 63.2	.5	.3	.8
June	5.5	.9	E 62.2	E 68.6	.5	.2	.7
July	6.1	1.0	E 67.4	^E 74.5	.5	E.2	E.7
	6.8	.6	^E 69.5	^E 76.9	.5	.2	.8
August			E 63.8	E 70.9			
September	6.6	.5			.4	.3	.7
October	6.1	.7	^E 59.3	^E 66.1	.5	.3	.8
November	6.1	.9	^E 62.7	^E 69.6	.7	.3	1.0
December	6.7	1.0	^E 70.3	^E 78.0	.7	.4	1.1
Total	^E 73.9	10.0	^E 753.4	^E 837.3	^E 7.1	^E 4.0	E 11.1
000 January	7.1	.7	^E 69.9	^E 77.7	.7	.4	1.2
February	6.3	.6	E 63.6	E 70.4	.7	.4 .4	1.2
			E 63.0				
March	6.2	.6		^E 69.7	.5 ^E .5	.4	.9 ^E .8
April	5.2	.5	^E 57.9	^E 63.6		.4	
May	6.0	.5	^E 63.4	^E 69.9	.5	.0	.5
June	6.1	.6	^E 67.0	^E 73.8	.7	.0	.7
July	7.2	.8	^E 71.1	^E 79.1	.7	(s)	.8
August	6.8	.5	^E 69.2	^E 76.5	E.7	.2	^E 1.0
September	5.1	.5	^E 63.6	E 69.2	.4	.4	.8
October	5.0	1.0	E 57.3	E 63.2	.3	.5	.8
November	5.9	.9	^E 61.7	E 68.5	.5	1.1	1.6
December	7.0	1.0	E 70.6	E 78.5	.2	1.2	1.4
					E 6.3		E 11.5
Total	73.8	8.2	^E 778.3	E 860.3	- 0.3	5.2	- 11.5
001 January	7.5	1.0	^E 71.4	E 80.0	.5	1.0	1.5
February	E 7.4	.8	^E 64.4	E 72.6	.4	P11	1.6
March	E 7.1	1.0	^E 65.1	E 73.2	.5	P 1.3	1.8
3-Month Total	^E 22.1	2.7	E 200.9	E 225.8	1.4	P 3.4	4.8
00 3-Month Total	19.5	1.8	E 196.5	E 217.8	1.9	1.3	3.2
999 3-Month Total	19.2	2.7	^E 187.8	E 209.6	2.2	1.2	3.4

- =Not applicable. E=Estimate. P=Preliminary. (s)=Less than 0.05 billion kilowatthours.

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

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

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

Table 10.4c Nuclear Electricity Gross Generation: Western Europe

(Billion Kilowatthours)

			-	,	Western Europe												
	Belgium	Finland	France	Germany ^a	Italy ^b	Nether- lands	Slovenia	Spain	Sweden	Switzer- land	United Kingdom ^c	Total					
973 Total	0.0	_	14.7	11.9	3.1	1.1	_	6.5	2.1	6.2	28.2	73.9					
74 Total	.1	-	14.7	12.0	3.4	3.3	-	7.2	2.3	7.0	33.8	83.9					
75 Total	6.8	-	18.3	21.7	3.8	3.3	-	7.5	12.0	7.7	30.5	111.7					
76 Total	10.0	_	15.8	24.5	3.8	3.9	_	7.6	16.0	7.9	36.8	126.2					
77 Total	11.9	2.7	17.9	36.0	3.4	3.7	-	6.5	19.9	8.1	38.1	148.1					
78 Total	12.5	3.3	30.6	35.7	4.5	4.1	_	7.6	23.8	8.3	36.6	166.9					
79 Total	11.4	6.7	39.9	42.2	2.6	3.5	_	6.7	21.0	11.8	38.5	184.3					
80 Total	12.5	7.0	61.2	43.7	2.2	4.2	-	5.2	26.7	14.3	37.2	214.2					
81 Total	12.8	14.5	105.2	53.4	2.7	3.7	_	9.4	37.7	15.2	38.9	293.4					
82 Total	15.6	16.5	108.9	63.4	6.8	3.9	_	8.8	38.8	15.0	44.1	321.8					
83 Total	24.1	17.4	144.2	65.8	5.8	3.6	NA	10.7	40.4	15.5	49.6	377.2					
84 Total	27.7	18.5	191.2	92.6	6.9	3.8	NA	23.1	51.3	16.3	54.1	485.4					
85 Total	34.5	18.8	224.0	125.8	7.0	3.9	NA	28.0	58.6	22.4	59.7	582.8					
86 Total	38.6	18.8	254.3	118.9	8.7	4.2	NA	37.5	69.9	22.5	58.2	631.5					
87 Total	41.9	19.4	265.5	130.2	.2	3.6	NA	41.2	67.2	23.0	56.2	648.3					
88 Total	43.1	19.3	274.9	145.2	.0	3.7	NA	50.4	69.4	22.7	59.4	688.1					
89 Total	41.2	18.8	302.5	149.6	.0	4.0	NA	56.1	65.6	22.8	71.6	732.2					
90 Total	42.7	18.9	314.1	147.2	.0	3.4	NA	54.3	68.2	23.6	66.1	738.6					
91 Total	42.9	19.2	331.4	147.3	.0	3.3	NA	55.6	76.8	22.9	70.4	769.7					
92 Total	43.5	19.0	337.6	158.8	.0	3.8	4.0	55.8	63.5	23.4	78.5	787.8					
93 Total	41.9	19.6	366.7	153.5	.0	3.9	4.0	56.1	61.4	23.3	90.4	820.9					
94 Total	40.6	19.1	359.1	151.1	.0	4.0	4.6	55.1	72.8	24.2	_ 89.5	_ 820.2					
95 Total	41.4	18.9	377.6	154.3	.0	4.0	4.8	54.5	69.9	24.8	^E 85.5	^E 835.7					
96 Total	43.3	19.5	397.0	161.7	.0	4.2	4.6	59.1	_76.2	25.0	^E 88.8	^E 879.5					
97 Total	47.4	20.9	389.3	170.4	.0	3.1	5.4	55.4	^E 70.6	25.3	^E 98.8	E 886.5					
98 Total	46.1	21.9	384.4	161.0	.0	3.8	5.3	^E 58.6	73.8	25.7	^E 103.7	^E 884.2					
99 January	4.5	2.1	38.0	15.1	.0	.4	.5	5.4	7.6	2.4	^E 8.8	^E 84.7					
February	4.0	1.9	33.6	13.1	.0	.3	.4	4.1	6.9	2.2	^E 8.3	^E 75.0					
March	4.4	2.1	34.3	14.2	.0	.4	.4	4.2	^E 7.5	2.3	9.3	^E 79.0					
April	3.8	2.0	31.5	14.0	.0	.3	.0	3.7	6.7	2.1	E 7.7	^E 71.8					
May	4.2	1.6	26.6	12.8	.0	.4	.1	5.1	5.9	2.3	7.6	66.5					
June	3.9	1.9	E 26.6	13.4	.0	.3	.4	4.7	^E 5.2	2.0	8.8	E 67.1					
July	3.8	1.9	30.0	E 13.4	.0	.3	.5	4.9	3.7	1.2	6.5	E 66.3					
August	3.8	1.7	29.1	13.5	.0	.3	.5	5.5	4.3	1.1	E 7.0	E 66.6					
September	3.5	1.7	29.5	E 13.5	.0	.1	.5	4.9	4.8	1.9	7.7	E 68.1					
October	4.3	2.1	31.7	E 13.5	.0	.4	.5	5.3	7.0	2.3	7.1	E 74.1					
	4.3	2.1	32.4		.0		.5			2.3		E 77.1					
November				15.1		.3		5.5	7.3		7.3 ^E 8.1	E 81.7					
December	4.5	2.1	34.2	16.2	.0	.4	.5	5.6	7.7	2.5							
Total	49.0	23.0	^E 377.4	^E 167.8	.0	3.8	4.7	58.9	^E 74.5	24.8	^E 94.1	^E 878.1					
00 January	4.3	2.1	E 36.2	15.8	.0	.4	.5	^E 5.6	7.1	2.5	7.5	E 82.0					
February	3.2	1.9	^E 35.3	13.9	.0	.3	.5	5.3	6.8	2.3	7.0	^E 76.6					
March	4.1	2.1	E 37.4	13.3	.0	.3	5	5.2	6.5	2.5	_ 8.6	^E 80.5					
April	3.7	1.9	E 34.0	12.9	.0	.3	^E .5	4.7	5.3	_ 2.4	^E 6.9	^E 72.6					
May	_ 3.9	1.5	^E 32.8	13.9	.0	.4	.0	5.1	3.3	^E 2.4	^E 6.4	^E 69.6					
June	^E 3.6	1.8	^E 32.8	12.3	.0	.3	.2	5.5	3.0	2.3	7.0	^E 68.7					
July	3.5	1.8	^E 31.0	14.0	.0	.4	.5	5.6	2.1	1.4	6.2	^E 66.5					
August	4.0	1.5	^E 31.7	13.2	.0	.3	.5	5.2	2.6	1.1	6.5	^E 66.6					
September	^E 4.1	1.7	^E 33.2	^E 13.2	.0	.3	.4	4.2	4.1	2.1	6.9	^E 70.1					
October	4.5	2.0	E 35.9	15.3	.0	.2	.5	4.6	5.1	2.5	7.0	E 77.6					
November	4.4	2.0	E 36.5	14.9	.0	.3	.5	5.3	5.4	2.4	E 7.0	E 78.7					
December		2.0	E 38.4	15.6	.0	.0	.5	5.8	5.8	2.5	7.9	E 83.5					
Total	E 47.8	22.5	E 415.2	E 168.3	.0 .0	3.9	^E 5.0	E 62.0	57.2	E 26.3	E 84.9	E 893.1					
01 January	4.5	2.1	^E 36.3	15.9	.0	.4	.5	5.7	7.0	2.5	7.5	^E 82.3					
February	3.9	1.9	E 33.5	14.1	.0	.4	.5	5.0	E 6.6	2.3	^E 7.1	E 75.2					
	3.9 3.4	2.0	E 33.5		.0 .0		.5	5.0 4.9			^E 7.8	E 77.3					
March 3-Month Total	3.4 11.8	2.0 6.0	E 103.5	15.3 45.3	.0 .0	.4 1.0	.5 1.5	4.9 15.6	6.9 E 20.4	2.5 7.2	E 22.4	E 234.7					
00 3-Month Total	11.7	6.1	^E 108.9	43.1	0	10	1.4	16.1	^E 20.4	7.3	^E 23.1	^E 239.1					
					.0	1.0			[∟] 20.4 ^E 21.9		^E 23.1 ^E 26.4	E 239.1					
99 3-Month Total	13.0	6.0	^E 105.9	42.4	.0	1.0	1.4	13.7	- 21.9	6.9	- 20.4	- 238.7					

^a Through December 1990, the data for Germany are for the former West Germany only. Beginning with January 1991, the data for Germany are for the unified Germany, i.e., the former East Germany and West Germany.

^b In 1987, Italy's citizens voted for a nuclear power moratorium, which shut down their nuclear power plants indefinitely.

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

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

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

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

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

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

(Billion Kilowatthours)

, , , , , , , , , , , , , , , , , , ,											
	Armenia ^a	Bulgaria	Czech Republic ^b	Hungary	Kazakhstan ^b	Lithuania ^b	Romania	Russia	Slovakia ^b	Ukraine	Total ^c
973 Total	_	-	-	-	NA	-	-	NA	NA	-	NA
974 Total	-	NA	-	-	NA	-	-	NA	NA	-	NA
975 Total	-	NA	-	-	NA	-	-	NA	NA	-	NA
976 Total	-	NA	-	-	NA	-	-	NA	NA	-	NA
977 Total	-	NA	-	-	NA	-	-	NA	NA	_	NA
978 Total	-	NA	-	-	NA	-	-	NA	NA	NA	NA
979 Total	-	NA	-	-	NA	-	-	NA	NA	NA	NA
980 Total	-	NA	-	-	NA	-	-	NA	NA	NA	NA
981 Total	-	NA	-	-	NA	-	-	NA	NA	NA	NA
982 Total	_	NA	_	-	NA	-	-	NA	NA	NA	NA
983 Total	_	NA	_	NA	NA	-	_	NA	NA	NA	NA
984 Total 985 Total	_	NA NA	NA	NA NA	NA NA	NA	_	NA NA	NA NA	NA NA	NA NA
986 Total	_	NA	NA	NA	NA	NA	_	NA	NA	NA	NA
987 Total	_	NA	NA	NA	NA	NA	_	NA	NA	NA	NA
988 Total	_	NA	NA	NA	NA	NA	_	NA	NA	NA	NA
989 Total	_	NA	NA	NA	NA	NA	_	NA	NA	NA	NA
990 Total	_	NA	NA	NA	NA	NA	_	NA	NA	NA	NA
991 Total	_	NA	NA	NA	NA	NA	_	NA	NA	NA	NA
992 Total	_	E 12.2	E 12.9	E 13.8	E.5	E 16.4	_	E 125.6	E 11.7	E 74.6	E 267.5
993 Total	_	14.0	E 13.2	13.8	E.4	^E 12.9	_	120.4	^E 11.6	^E 72.7	E 259.0
994 Total	-	14.9	E 12.7	14.0	E.4	E 7.0	-	97.7	E 12.7	68.4	E 227.8
995 Total	_	17.2	E 12.8	14.0	E.4	^E 9.7	_	98.3	^E 12.0	70.4	E 234.9
996 Total	NA	18.7	E 13.5	14.2	E.1	E 13.6	^E 1.0	108.8	E 11.8	80.0	E 261.6
997 Total	1.4	E 15.5	NA	14.0	^E .3	12.1	3.9	108.1	11.0	80.8	E 247.1
998 Total	1.6	^E 19.2	^E 7.6	13.9	NA	13.5	5.1	103.7	10.3	^E 74.0	^E 248.9
999 January	.2	^E 1.9	NA	1.3	NA	1.3	.5	12.3	.9	7.7	^E 27.4
February	.3	E 1.9	NA	1.2	NA	1.1	.5	10.7	.8	7.2	E 24.8
March	.3	E 1.9	NA	1.1	NA	1.0	.5	11.7	.0	8.0	E 26.8
April	3	E 1.9	NA	1.1	NA	.5	.5	10.2	.8	6.4	E 22.6
May	E.3	E 1.9	1.0	1.1	.0	.6	.5	8.1	.9	5.8	E 20.2
June	E.3	E 1.9	1.0	1.0	.0	.3	.5	7.6	.8	5.2	E 18.7
July	.2	1.9	1.0	1.0	.0	.7	E.5	8.8	.8	4.4	E 19.2
August	.2	^E 1.0	.9	1.0	.0	.8	.5	8.9	.8	5.1	E 19.2
September	.1	E 1.0	1.0	1.1	.0	.9	.5	8.7	.9	5.4	E 19.5
October	.0	^E 1.0	1.2	1.4	.0	1.0	(s)	8.7	1.0	5.6	^E 19.8
November	.0	^E 1.0	1.3	^E 1.4	.0	.9	. 1	10.9	.9	5.1	^E 21.6
December	.2	^E 1.5	1.2	1.4	.0	.9	.5	11.4	1.1	6.3	^E 24.6
Total	^E 2.4	^E 19.0	13.4	^E 14.2	NA	9.9	^E 5.2	118.0	10.5	72.2	^E 264.7
000 January	.3	^E 1.5	^E 1.2	1.4	.0	.9	.5	13.2	1.1	7.2	E 27.3
February	.3	E 1.5	1.2	1.3	.0	.6	.5	12.3	1.3	6.7	E 25.8
March	.3	^E 1.8	1.1	1.1	.0	.7	.5	12.9	1.3	6.7	E 26.5
April	.3	^E 1.8	1.0	1.0	.0	.5	.5	9.8	1.0	5.8	E 21.7
May	.3	^E 1.8	1.0	1.0	.0	.5	.5	9.2	1.1	5.4	E 20.9
June	.3	^E 1.8	1.0	1.0	.0	.7	.5	9.5	1.4	5.9	E 22.0
July	E.0	^E 1.8	1.1	1.0	.0	.6	.4	8.5	1.3	6.0	^E 20.7
August	.0	^E 1.8	E 1.1	.9	.0	.7	.4	9.8	1.3	^E 3.2	^E 19.3
September	.0	^E 1.8	E 1.1	1.3	.0	.9	E.5	10.1	1.5	6.7	^E 23.9
October	.0	^E 1.8	1.2	1.4	.0	.8	.1	10.8	1.6	7.7	E 25.5
November	(s)	^E 1.8	1.3	1.3	.0	E.8	.5	10.6	1.7	7.3	E 25.3
December	3	_ ^E 1.8	_ 1.3	1.4	.0	9	4	12.2	1.7	_ 6.1	_ ^E 26.3
Total	E 1.9	E 21.3	^E 13.8	14.2	.0	E 8.7	E 5.5	128.9	16.2	^E 74.8	E 285.3
001 January	.3	^E 1.8	1.3	1.4	.0	.8	.5	12.5	1.5	7.0	^E 27.2
February	.2	^E 1.8	E 1.3	1.3	.0	.9	.4	11.7	1.7	7.1	E 26.5
March	.2	E 1.8	1.2	1.2	.0	.6	.5	12.4	1.3	7.5	E 26.8
3-Month Total	.8	E 5.5	E 3.9	3.9	.0	2.3	1.4	36.6	4.5	21.6	E 80.5
000 3-Month Total	.8	4.9	NA	3.8	.0	2.3	1.5	38.3	3.7	20.7	^E 79.6
999 3-Month Total	.0	[⊑] 5.8	NA	3.7	.0	3.3	1.5	34.7	2.6	22.9	^E 79.0

 ^a According to EIA's Nuclear Power Generation and Fuel Cycle Report 1996, Armenia has two units; one came on line in November 1995 but no data are available prior to 1997, and the other is projected to come on line in 2001.
 ^b The total gross generation estimates for Czech Republic, Kazakhstan,

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

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

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

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

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

(Billion Kilowatthours)

	Africa			1	Far East		1	
	South Africa ^a	China ^b	India	Japan	Pakistan	South Korea	Taiwan	Total
973 Total	_	_	2.5	9.4	0.5	_	_	12.3
74 Total	_	-	1.9	18.9	.6	-	-	21.4
75 Total	-	-	2.5	21.3	.5	-	-	24.4
76 Total	-	-	3.2	36.6	.5	-	-	40.3
77 Total	-	-	2.8	28.2	.3	0.1	0.1	31.5
78 Total	-	-	2.3	53.1	.2	2.3	2.7	60.6
79 Total	-	-	3.2	62.0	(s)	3.2	6.3	74.7
80 Total	-	-	2.9	82.8	.1	3.5	8.2	97.4
81 Total	-	-	3.1	86.0	.2	2.9	10.7	102.9
82 Total	-	-	2.2	104.5	.1	3.8	13.1	123.6
83 Total	-	-	2.9	109.1	.2	9.0	18.9	140.1
84 Total	4.2	-	4.1	127.2	.3	11.8	24.3	167.7
85 Total	5.9	-	4.5	152.0	.3	16.5	28.7	202.0
86 Total	9.3	-	5.1	164.8	.5	26.1	26.9	223.6
87 Total	6.6	-	5.5	182.8	.3	37.8	33.1	259.5
88 Total	11.1	-	6.1	173.6	.2	38.7	29.9	248.5
89 Total	11.7	-	4.0	183.7	.1	47.2	28.3	263.4
90 Total	8.9	-	6.3	191.9	.4	52.8	32.9	284.3
91 Total	9.7	-	5.4	205.8	.4	56.3	35.3	303.3
92 Total	9.9		6.3	218.0	.6	56.4	33.8	_ 315.2
93 Total	7.7	_ ^E 2.6	6.2	243.5	.4	58.1	34.3	^E 345.2
94 Total	10.3	^E 14.2	5.0	253.8	.6	58.3	34.8	^E 366.7
95 Total	11.9	^E 13.0	8.0	286.1	.5	64.0	35.3	^E 407.0
96 Total	12.5	^E 14.3	8.3	293.2	.4	72.5	37.8	^E 426.4
97 Total	13.3	^E 11.4	^E 11.0	318.0	.4	78.9	36.6	^E 456.2
98 Total	14.3	^E 14.5	^E 11.2	326.9	.4	87.3	36.9	^E 477.2
99 January	.9	1.2	1.2	27.4	.0	7.6	3.3	^E 40.7
February	.8	E.6	1.0	23.8	.0	7.0	3.3	E 35.7
March	1.4	_ 1.0	1.1	27.7	.0	7.9	2.9	_ 40.6
April	1.4	^E 1.4	1.0	26.1	.0	7.9	2.7	E 39.2
Мау	1.2	^E 1.5	1.2	24.0	.0	7.8	3.2	E 37.7
June	1.3	E 1.4	1.2	23.1	.0	7.3	3.3	E 36.2
July	1.3	^E 1.4	1.2	28.2	.0	7.2	3.3	^E 41.3
August	1.2	^E 1.4	.9	29.1	.0	8.2	3.7	^E 43.3
September	.9	^E 1.3	1.1	26.5	.0	8.2	3.0	^E 40.1
October	.7	E 1.3	.9	26.5	.0	8.7	3.2	^E 40.6
November	1.2	_ ^E .9	1.2	27.5	(s)	8.7	3.1	^E 41.4
December	1.3	^E 1.1	1.1	27.6	(s)	8.2	3.1	^E 41.1
Total	13.5	^E 14.6	^E 13.2	317.4	.1	94.6	38.2	^E 478.0
00 January	1.3	E.9	1.2	25.6	(s)	9.4	3.6	^E 40.8
February	1.3	_E.7	1.2	24.2	(s)	8.6	3.2	^E 37.9
March	1.1	^E 1.3	_ 1.2	28.3	.1	8.9	3.1	^E 42.9
April	.8	E 1.4	^E 1.2	28.0	.1	8.3	2.6	^E 41.6
May	.7	^E 1.4	E 1.2	27.0	.1	8.8	3.1	^E 41.5
June	1.2	E 1.4	1.2	25.9	.1	8.4	3.6	^E 40.5
July	1.3	^E 1.4	^E 1.2	28.2	(s)	9.3	3.6	^E 43.7
August	1.1	E 1.5	E 1.2	27.5	.1	9.8	3.5	E 43.4
September	1.2	^E 1.4	1.2	24.5	(s)	9.6	2.9	E 39.6
October	1.4	E 1.4	1.4	25.5	.0	8.9	3.0	^E 40.2
November	1.2	1.1 F 7	E 1.4	27.7	.0	8.8	2.8	E 41.8
December	1.1	E.7	E 1.6	27.3	.0	10.1	3.5	E 43.2
Total	13.6	^E 14.7	^E 14.8	319.8	.4	108.9	38.5	^E 497.1
01 January	.8	^E _1.0	1.6	25.0	.2	10.1	3.5	^E 41.4
February	.6	Ē.7	_ 1.6	25.0	.2	9.0	2.9	^E 39.4
March	1.1	E.7	E 1.6	30.5	.1	9.0	2.6	^E 44.6
3-Month Total	2.5	^E 2.5	E 4.8	80.4	.5	28.2	9.1	^E 125.5
00 3-Month Total	3.7	^E 2.9	3.6	78.1	.2	27.0	9.8	^E 121.6
99 3-Month Total	3.0	E 2.8	3.3	78.9	.0	22.5	9.5	E 117.0

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

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

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

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

Sources for Tables 10.1a and 10.1b

United States—See Table 3.1a.

All Other Countries: Monthly Data

1999-forward: *Petroleum Intelligence Weekly, Oil and Gas Journal*, and other industry sources.

All Other Countries: Annual Data

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

World: Monthly Data

1999-forward: EIA, *International Petroleum Monthly*, sum of all countries' monthly data.

World: Annual Data

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

Appendix A. Thermal Conversion Factors

The 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.

In general, the annual thermal conversion factors presented in Tables A1 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.

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.

Table A1. Approximate Heat Content of Petroleum Products

Petroleum Product	Heat Content	Petroleum Product	Heat Content
Asphalt	6.636	Natural Gasoline and Isopentane	4.620
Aviation Gasoline	5.048	Pentanes Plus	4.620
Butane	4.326	Petrochemical Feedstocks	
Butane Propane Mixture ^a	4.130	Naptha Less Than 401° F	5.248
Distillate Fuel Oil	5.825	Other Oils Equal to or Greater Than 401° F	5.825
Ethane	3.082	Still Gas	6.000
Ethane-Propane Mixture ^b	3.308	Petroleum Coke	6.024
Isobutane	3.974	Plant Condensate	5.418
Jet Fuel, Kerosene Type	5.670	Propane	3.836
Jet Fuel, Naphtha Type	5.355	Residual Fuel Oil	6.287
Kerosene	5.670	Road Oil	6.636
Lubricants	6.065	Special Naphthas	5.248
Motor Gasoline		Still Gas	6.000
Conventional ^c	5.253	Unfinished Oils	5.825
Reformulated ^c	5.150	Unfractionated Stream	5.418
Oxygenated ^c	5.150	Waxes	5.537
Fuel Ethanol ^d	3.539	Miscellaneous	5.796

(Million Btu per Barrel)

^a 60 percent butane and 40 percent propane.

^b 70 percent ethane and 30 percent propane.

^c See Table A3 for motor gasoline annual weighted averages beginning in 1994.

^d Fuel ethanol, which is derived from agricultural feedstocks (primarily corn), is not a petroleum product but is blended into motor gasoline. Its gross heat content (3.539 million Btu per barrel) is used in *Monthly Energy Review* calculations; its net heat content (3.192 million Btu per barrel) is used in the Energy Information Administration's *Renewable Energy Annual* calculations.

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

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

(Million Btu per Barrel)

		Crude Oil		Crude Oil a	nd Products	Natural Gas
	Production	Imports	Exports	Imports	Exports	Plant Liquids Production
973	5.800	5.817	5.800	5.897	5.752	4.049
974	5.800	5.827	5.800	5.884	5.774	4.011
975	5.800	5.821	5.800	5.858	5.748	3.984
976	5.800	5.808	5.800	5.856	5.745	3.964
977	5.800	5.810	5.800	5.834	5.797	3.941
978	5.800	5.802	5.800	5.839	5.808	3.925
979	5.800	5.810	5.800	5.810	5.832	3.955
980	5.800	5.812	5.800	5.796	5.820	3.914
981	5.800	5.818	5.800	5.775	5.821	3.930
982	5.800	5.826	5.800	5.775	5.820	3.872
983	5.800	5.825	5.800	5.774	5.800	3.839
984	5.800	5.823	5.800	5.745	5.850	3.812
985	5.800	5.832	5.800	5.736	5.814	3.815
986	5.800	5.903	5.800	5.808	5.832	3.797
987	5.800	5.901	5.800	5.820	5.858	3.804
988	5.800	5.900	5.800	5.820	5.840	3.800
989	5.800	5.906	5.800	5.833	5.857	3.826
990	5.800	5.934	5.800	5.849	5.833	3.822
991	5.800	5.948	5.800	5.873	5.823	3.807
992	5.800	5.953	5.800	5.877	5.777	3.804
993	5.800	5.954	5.800	5.883	5.779	3.801
994	5.800	5.950	5.800	5.861	5.779	3.794
995	5.800	5.938	5.800	5.855	5.746	3.796
996	5.800	5.947	5.800	5.847	5.736	3.777
997	5.800	5.954	5.800	5.862	5.734	3.762
998	5.800	5.953	5.800	5.861	5.720	3.769
999	5.800	5.942	5.800	5.840	5.699	3.744
000	5.800	^R 5.959	5.800	^R 5.849	5.658	3.733
001 ^a	5.800	^R 5.959	5.800	^R 5.849	5.658	3.733

^a Preliminary.

R=Revised.

Note: Crude oil includes lease condensate.

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

Table A3. Approximate Heat Content of Petroleum Products, Weighted Averages

(Million Btu per Barrel)

			Consu	mption						
	Residential	Commercial	Industrial	Transportation	Electric Utilities	Total	Imports	Exports	Liquefied Petroleum Gases Consumption	Motor Gasoline Consumption
1973	5.205	5.749	5.568	5.395	6.245	5.515	5.983	5.752	3.746	5.253
1973	5.196	5.749	5.538	5.394	6.238	5.504	5.959	5.773	3.740	5.253
1974	5.196	5.704	5.528	5.394	6.250	5.504 5.494	5.935	5.747	3.715	5.253
1976	5.215	5.726	5.538	5.395	6.251	5.504	5.980	5.747	3.715	5.253
1977	5.213	5.733	5.555	5.400	6.249	5.518	5.908	5.796	3.677	5.253
1977	5.213	5.716	5.553	5.400	6.251	5.516	5.955	5.814	3.669	5.253
1979	5.298	5.769	5.418	5.428	6.258	5.494	5.811	5.864	3.680	5.253
1980	5.245	5.803	5.376	5.440	6.254	5.494	5.748	5.841	3.674	5.253
1980	5.245	5.751	5.313	5.432	6.258	5.479	5.659	5.837	3.643	5.253
1982	5.167	5.751	5.263	5.422	6.258	5.440 5.415	5.664	5.829	3.645	5.253
1982	5.022	5.642	5.263	5.415		5.415	5.677	5.800		5.253
1984	5.129	5.700	5.223	5.415	6.255 6.251	5.395	5.613	5.800	3.614 3.599	5.253
1985	5.129	5.660	5.225	5.422	6.247	5.387	5.572	5.819	3.603	5.253
1986	5.130	5.691	5.286	5.423	6.257	5.418	5.624	5.839	3.640	5.253
1987	5.095	5.659	5.253	5.430	6.249	5.403	5.599	5.860	3.659	5.253
1988	5.118	5.657	5.248	5.434	6.250	5.410	5.618	5.842	3.652	5.253
1989	5.057	5.615	5.233	5.440	6.241	5.410	5.641	5.869	3.683	5.253
1990	4.952	5.612	5.272	5.445	6.247	5.411	5.614	5.838	3.625	5.253
1991	4.912	5.591	5.192	5.442	6.248	5.384	5.636	5.827	3.614	5.253
1992	4.943	5.579	5.188	5.445	6.243	5.378	5.623	5.774	3.624	5.253
1993	4.943	5.573	5.200	5.438	6.241	5.379	5.620	5.777	3.606	5.253
1994	4.940	5.583	5.170	5.427	6.231	5.361	5.534	5.777	3.635	^b 5.230
1995	4.928	5.549	5.140	5.419	6.210	5.341	5.483	5.740	3.623	5.215
1996	4.871	5.497	5.136	5.421	6.212	5.336	5.468	5.728	3.613	5.216
1997	4.873	5.463	5.139	5.417	6.220	5.336	5.469	5.726	3.616	5.213
1998	4.844	5.447	5.156	5.416	6.220	5.349	5.462	5.710	3.614	5.212
1999	4.751	5.368	5.115	5.419	6.208	5.328	5.421	5.684	3.616	5.211
2000	4.760	5.395	5.089	5.427	6.193	5.326	^R 5.432	5.651	^R 3.607	5.210
2001 ^a	4.760	5.395	5.089	5.427	6.193	5.326	^R 5.432	5.651	^R 3.607	5.210

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

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

Table A4. Approximate Heat Content of Natural Gas

(Btu per Cubic Foot)

	Prod	uction		Consumption			
	Dry	Marketed	Sectors Other Than Electric Utilities	Electric Utilities	Total	Imports	Exports
973	1,021	1,093	1,020	1,024	1,021	1,026	1,023
974	1,024	1,097	1,024	1,022	1,024	1,027	1,016
975	1,021	1,095	1,020	1,026	1,021	1,026	1,014
976	1,020	1,093	1,019	1,023	1,020	1,025	1,013
977	1,021	1,093	1,019	1,029	1,021	1,026	1,013
978	1,019	1,088	1,016	1,034	1,019	1,030	1,013
979	1,021	1,092	1,018	1,035	1,021	1,037	1,013
980	1,026	1,098	1,024	1,035	1,026	1,022	1,013
981	1,027	1,103	1,025	1,035	1,027	1,014	1,011
982	1,028	1,107	1,026	1,036	1,028	1,018	1,011
983	1,031	1,115	1,031	1,030	1,031	1,024	1,010
84	1,031	1,109	1,030	1,035	1,031	1,005	1,010
985	1,032	1,112	1,031	1,038	1,032	1,002	1,011
86	1,030	1,110	1,029	1,034	1,030	997	1,008
987	1,031	1,112	1,031	1,032	1,031	999	1,011
	1,029	1,109	1,029	1,028	1,029	1,002	1,018
89	1,031	1,107	1,031	1,030	1,031	1,004	1,019
90	1,031	1,105	1,030	1,034	1,031	1,012	1,018
91	1,030	1,108	1,031	1,024	1,030	1,014	1,022
992	1,030	1,110	1,031	1,022	1,030	1,011	1,018
993	1,027	1,106	1,028	1,022	1,027	1,020	1,016
994	1,028	1,105	1,029	1,022	1,028	1,022	1,011
995	1,027	1,106	1,027	1,025	1,027	1,021	1,011
96	1,027	1,109	1,027	1,024	1,027	1,022	1,011
97	1,026	1,107	1,027	1,019	1,026	1,023	1,011
998	1,031	1,110	1,033	1,022	1,031	1,023	1,011
999 ^a	1,027	1,111	1,028	1,019	1,027	1,022	1,006
000 ^a	1,027	1,111	1,028	1,019	1,027	1,022	1,006
)01 ^a	1,027	1,111	1,028	1,019	1,027	1,022	1,006

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

Table A5. Approximate Heat Content of Coal and Coal Coke

(Million Btu per Short Ton)

		Coal							Coal Cok	
				Consu	mption					
		Er	d-Use Sector	'S	Electric P	ower Sector				
	Production		Indu	strial						
		Residential and Commercial	Coke Plants	Other ^a	Electric Utilities	Other Power Producers ^b	Total	Imports	Exports	Imports and Exports
1973	23.376	22.831	26.780	22.586	22.246	NA	23.057	25.000	26.596	24.800
1973 1974	23.072	22.031	26.778	22.380	21.781	NA	23.037	25.000	26.700	24.800
1974 1975	22.897	22.479	26.782	22.419	21.642	NA	22.506	25.000	26.562	24.800
1975	22.855	22.774	26.782	22.430	21.679	NA	22.506	25.000	26.601	24.800
1970	22.597	22.919	26.787	22.330	21.508	NA	22.490	25.000	26.548	24.800
1978	22.248	22.466	26.789	22.207	21.275	NA	22.017	25.000	26.478	24.800
1979	22.454	22.242	26.788	22.452	21.364	NA	22.100	25.000	26.548	24.800
980	22.415	22.543	26.790	22.690	21.295	NA	21.947	25.000	26.384	24.800
981	22.308	22.474	26.794	22.585	21.085	NA	21.713	25.000	26.160	24.800
982	22.239	22.695	26.797	22.712	21.194	NA	21.674	25.000	26.223	24.800
983	22.052	22.035	26.798	22.691	21.134	NA	21.576	25.000	26.223	24.800
984	22.032	22.844	26.799	22.543	21.105	NA	21.573	25.000	26.402	24.800
985	21.870	22.646	26.798	22.040	20.959	NA	21.366	25.000	26.307	24.800
986	21.913	22.947	26.798	22.198	20.939	NA	21.462	25.000	26.292	24.800
987	21.913	23.404	26.799	22.381	21.136	NA	21.402	25.000	26.292	24.800
988	21.823	23.571	26.799	22.360	20.900	NA	21.328	25.000	26.299	24.800
989	21.765	23.650	26.800	22.300	20.848	21.474	21.268	25.000	26.160	24.800
990	21.822	23.137	26.799	22.457	20.929	20.539	21.324	25.000	26.202	24.800
991	21.681	23.137	26.799	22.457	20.323	19.933	21.131	25.000	26.188	24.800
1992	21.682	23.105	26.799	22.250	20.787	18.983	21.107	25.000	26.161	24.800
1993	21.418	22.994	26.800	22.123	20.639	19.040	20.947	25.000	26.335	24.800
994	21.394	23.112	26.800	22.068	20.673	19.485	20.979	25.000	26.329	24.800
995	21.326	23.112	26.800	21.950	20.495	19.471	20.815	25.000	26.180	24.800
996	21.322	23.011	26.800	22.105	20.525	19.427	20.826	25.000	26.174	24.800
997	21.296	22.494	26.800	22.103	20.548	19.596	20.836	25.000	26.251	24.800
998	21.418	22.620	27.426	23.164	20.540	20.143	20.868	25.000	26.800	24.800
999	21.070	23.880	27.426	22.489	20.401	20.718	20.753	25.000	26.081	24.800
2000 ^c	21.070	23.880	27.426	22.489	20.401	20.718	20.753	25.000	26.117	24.800
2000° 2001°	21.072	23.880	27.426	22.489	20.401	20.718	20.753	25.000	26.117	24.800

^a Includes transportation.
 ^b Nonutility wholesale producers of electricity, and nonutility cogeneration plants that are not included in the end-use sectors.
 ^c Preliminary.
 Source: See "Thermal Conversion Factor Source Documentation," which follows Table A6.

Table A6. Approximate Heat Rates for Electricity

(Btu per Kilowatthour)

		Electricity Net Generation		
	Fossil-Fueled Steam-Electric Plants ^a	Nuclear Steam-Electric Plants	Geothermal Energy Plants ^b	Electricity Consumption
973	10,389	10.903	21.674	3,412
974	10,442	11,161	21,674	3,412
975	10,406	11,013	21,611	3,412
976	10,373	11,047	21,611	3,412
977	10,435	10.769	21,611	3,412
978	10,361	10,703	21,611	3,412
979	10,353	10,879	21,545	3,412
980	10,388	10,908	21.639	3,412
981	10,453	11,030	21.639	3.412
982	10,454	11,073	21,629	3,412
983	10,520	10,905	21,290	3.412
984	10,440	10,843	21,303	3,412
985	10,447	10,813	21,263	3,412
986	10,446	10,799	21,263	3,412
987	10,419	10,776	21,263	3.412
988	10,324	10,743	21,096	3,412
989	10,432	10,724	21.096	3.412
990	10,402	10,680	21.096	3.412
991	10,436	10,740	20,997	3,412
992	10,342	10,678	20.914	3,412
993	10,309	10,682	20,914	3,412
994	10,316	10,676	20,914	3,412
995	10,312	10,658	20,914	3,412
996	10.340	10,623	20.960	3,412
997	10,357	10,623	20,960	3,412
998	10,346	10,623	21.017	3,412
999	10,346	10,623	21,017	3.412
2000 ^c	10,346	10,623	21,017	3,412
2001 ^c	10,346	10,623	21,017	3,412

^a Used as the thermal conversion factor for hydroelectric power generation, and for wood and waste, wind, photovoltaic, and solar thermal energy consumed ^b Used as the thermal conversion factor for geothermal energy consumed at electric utilities.
 ^c Preliminary.
 Source: See "Thermal Conversion Factor Source Documentation," which follows this table.

Thermal Conversion Factor Source Documentation

Approximate Heat Content of Petroleum and Natural Gas Plant Liquids

Asphalt. The Energy Information Administration (EIA) adopted the thermal conversion factor of 6.636 million British thermal units (Btu) per barrel as estimated by the Bureau of Mines and first published in the *Petroleum Statement, Annual, 1956.*

Aviation Gasoline. EIA adopted the Bureau of Mines thermal conversion factor of 5.048 million Btu per barrel for "Gasoline, Aviation" as published by the Texas Eastern Transmission Corporation in Appendix V of *Competition and Growth in American Energy Markets 1947-1985*, a 1968 release of historical and projected statistics.

Butane. EIA adopted the Bureau of Mines thermal conversion factor of 4.326 million Btu per barrel in the *California Oil World and Petroleum Industry*, First Issue, April 1942.

Butane-Propane Mixture. EIA adopted the Bureau of Mines calculation of 4.130 million Btu per barrel based on an assumed mixture of 60 percent butane and 40 percent propane. See **Butane** and **Propane**.

Crude Oil, Exports. Assumed by EIA to be 5.800 million Btu per barrel or equal to the thermal conversion factor for crude oil produced in the United States. See **Crude Oil and Lease Condensate, Production**.

Crude Oil, Imports. Calculated annually by EIA by weighting the thermal conversion factor of each type of crude oil imported by the quantity imported. Thermal conversion factors for each type were calculated on a foreign country basis through 1996, by determining the average American Petroleum Institute (API) gravity of crude imported from each foreign country from Form ERA-60 in 1977, or for 1997 and later, by determining the weighted average API gravity from the Form EIA-814, and converting average API gravity to average Btu content by using National Bureau of Standards, Miscellaneous Publication No. 97, *Thermal Properties of Petroleum Products,* 1933.

Crude Oil and Lease Condensate, Production. EIA adopted the thermal conversion factor of 5.800 million Btu per barrel as reported in a Bureau of Mines internal memorandum, "Bureau of Mines Standard Average Heating Values of Various Fuels, Adopted January 3, 1950."

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

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

Distillate Fuel Oil. EIA adopted the Bureau of Mines thermal conversion factor of 5.825 million Btu per barrel as reported in a Bureau of Mines internal memorandum, "Bureau of Mines Standard Average Heating Value of Various Fuels, Adopted January 3, 1950."

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

Ethane-Propane Mixture. EIA calculated 3.308 million Btu per barrel based on an assumed mixture of 70 percent ethane and 30 percent propane. See **Ethane** and **Propane**.

Fuel Ethanol Blended Into Motor Gasoline. EIA adopted the thermal conversion factor of 3.539 million Btu per barrel published in "Oxygenate Flexibility for Future Fuels," a paper presented by William J. Piel of the ARCO Chemical Company at the National Conference on Reformulated Gasolines and Clean Air Act Implementation, Washington, D.C., October 1991.

Isobutane. EIA adopted the Bureau of Mines thermal conversion factor of 3.974 million Btu per barrel in the *California Oil World and Petroleum Industry*, First Issue, April 1942.

Jet Fuel, Kerosene Type. EIA adopted the Bureau of Mines thermal conversion factor of 5.670 million Btu per barrel for "Jet Fuel, Commercial" as published by the Texas Eastern Transmission Corporation in Appendix V of *Competition and Growth in American Energy Markets 1947-1985*, a 1968 release of historical and projected statistics.

Jet Fuel, Naphtha Type. EIA adopted the Bureau of Mines thermal conversion factor of 5.355 million Btu per barrel for "Jet Fuel, Military" as published by the Texas Eastern Transmission Corporation in Appendix V of *Competition and Growth in American Energy Markets 1947-1985*, a 1968 release of historical and projected statistics.

Kerosene. EIA adopted the Bureau of Mines thermal conversion factor of 5.670 million Btu per barrel as reported in a Bureau of Mines internal memorandum, "Bureau of Mines Standard Average Heating Values of Various Fuels, Adopted January 3, 1950."

Liquefied Petroleum Gases. • 1960 through 1966: U.S. Department of the Interior, Bureau of Mines, Mineral Industry Surveys, *Crude Petroleum and Petroleum Products, 1956,* Table 4 footnote, constant value of 4.011 million Btu per barrel. • 1967 forward: Calculated annually by EIA as a weighted average by multiplying the quantity consumed of each of the component products by each product's conversion factor, listed in this appendix, and dividing the sum of those heat contents by the sum of the quantities consumed. The component products are ethane (including ethylene), propane (including propylene), normal butane (including butylene), butane-propane mixtures, ethane-propane mixtures, and isobutane. Quantities consumed are from: 1967 through 1980: EIA, Energy Data Reports, *Petroleum Statement, Annual*, Table 1. 1981 forward: EIA, *Petroleum Supply Annual*, Table 2.

Lubricants. EIA adopted the thermal conversion factor of 6.065 million Btu per barrel as estimated by the Bureau of Mines and first published in the *Petroleum Statement, Annual, 1956.*

Miscellaneous Products. EIA adopted the thermal conversion factor of 5.796 million Btu per barrel as estimated by the Bureau of Mines and first published in the *Petroleum Statement, Annual, 1956.*

Motor Gasoline. • 1960 through 1993: EIA adopted the Bureau of Mines thermal conversion factor of 5.253 million Btu per barrel for "Gasoline, Motor Fuel" as published by the Texas Eastern Transmission Corporation in Appendix V of Competition and Growth in American Energy Markets 1947-1985, a 1968 release of historical and projected statistics. • 1994 forward: EIA calculated national annual quantity-weighted average conversion factors for conventional, reformulated, and oxygenated motor gasolines (shown in appendix Table $\vec{C1}$). The factor for conventional motor gasoline is 5.253 million Btu per barrel, as used for previous years. The factors for reformulated and oxygenated gasolines, both currently 5.150 million Btu per barrel, are based on data published in the Environmental Protection Agency, Office of Mobile Sources, National Vehicle and Fuel Emissions Laboratory report EPA 420-F-95-003, Fuel Economy Impact Analysis of Reformulated Gasoline.

Natural Gas Plant Liquids, Production. Calculated annually by EIA as the average of the thermal conversion factors of each natural gas plant liquid produced weighted by the quantity of each natural gas plant liquid produced.

Natural Gasoline. EIA adopted the thermal conversion factor of 4.620 million Btu per barrel as estimated by the Bureau of Mines and first published in the *Petroleum Statement, Annual, 1956.*

Pentanes Plus. EIA assumed the thermal conversion factor to be 4.620 million Btu per barrel or equal to that for natural gasoline. See **Natural Gasoline**.

Petrochemical Feedstocks, Naphtha Less Than 401 Degrees Fahrenheit. Assumed by EIA to be 5.248 million Btu per barrel, equal to the thermal conversion factor for special naphthas. See **Special Naphthas.**

Petrochemical Feedstocks, Oils Equal to or Greater Than 401 Degrees Fahrenheit. Assumed by EIA to be 5.825 million Btu per barrel, equal to the thermal conversion factor for distillate fuel oil. See **Distillate Fuel Oil**.

Petrochemical Feedstocks, Still Gas. Assumed by EIA to be 6.000 million Btu per barrel, equal to the thermal conversion factor for still gas. See **Still Gas**.

Petroleum Coke. EIA adopted the thermal conversion factor of 6.024 million Btu per barrel as reported in Btu per short ton in the Bureau of Mines internal memorandum, "Bureau of Mines Standard Average Heating Value of Various Fuels, Adopted January 3, 1950." The Bureau of Mines calculated this factor by dividing 30.120 million Btu per short ton, as given in the referenced Bureau of Mines internal memorandum, by 5.0 barrels per short ton, as given in the Bureau of Mines Form 6-1300-M and successor EIA forms.

Petroleum Products, Total Consumption. Calculated annually by EIA as the average of the thermal conversion factors for all petroleum products consumed, weighted by the quantity of each petroleum product consumed.

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

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

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

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

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

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

Plant Condensate. Estimated to be 5.418 million Btu per barrel by EIA from data provided by McClanahan Consultants, Inc., Houston, Texas.

Propane. EIA adopted the Bureau of Mines thermal conversion factor of 3.836 million Btu per barrel in the *California Oil World and Petroleum Industry*, First Issue, April 1942.

Residual Fuel Oil. EIA adopted the thermal conversion factor of 6.287 million Btu per barrel as reported in the Bureau of Mines internal memorandum, "Bureau of Mines Standard Average Heating Values of Various Fuels, Adopted January 3, 1950."

Road Oil. EIA adopted the Bureau of Mines thermal conversion factor of 6.636 million Btu per barrel, which was assumed to be equal to that of asphalt (see **Asphalt**) and was first published by the Bureau of Mines in the *Petroleum Statement, Annual, 1970.*

Special Naphthas. EIA adopted the Bureau of Mines thermal conversion factor of 5.248 million Btu per barrel, which was assumed to be equal to that of total gasoline (aviation and motor) factor and was first published in the *Petroleum Statement, Annual, 1970.*

Still Gas. EIA adopted the Bureau of Mines estimated thermal conversion factor of 6.000 million Btu per barrel and first published in the *Petroleum Statement*, *Annual*, 1970.

Unfinished Oils. EIA assumed the thermal conversion factor to be 5.825 million Btu per barrel or equal to that for distillate fuel oil (see **Distillate Fuel Oil**) and first published in the *Annual Report to Congress, Volume 3, 1977.*

Unfractionated Stream. EIA assumed the thermal conversion factor to be 5.418 million Btu per barrel or equal to that for plant condensate (see **Plant Condensate**) and first published in the *Annual Report to Congress, Volume 2, 1981.*

Waxes. EIA adopted the thermal conversion factor of 5.537 million Btu per barrel as estimated by the Bureau of Mines and first published in the *Petroleum Statement, Annual, 1956.*

Approximate Heat Content of Natural Gas

Natural Gas, Total Consumption. 1973-1979: EIA adopted the thermal conversion factor calculated annually by the American Gas Association (AGA) and published in *Gas Facts*, an AGA annual publication. 1980 forward: Calculated annually by EIA by dividing the total heat content of natural gas consumed by the total quantity of natural gas consumed. The heat content and quantity consumed are from Form EIA-176. Published sources are: 1980-1989: EIA, *Natural Gas Annual 1992, Volume 2*, Table 15. 1990-1992: EIA, *Natural Gas Annual 1992, Volume 2*, Table 16. 1993 forward: 1992 value used as an estimate.

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

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

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

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

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

Approximate Heat Content of Coal and Coal Coke

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

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

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

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

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

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

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

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

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

Approximate Heat Rates for Electricity

Fossil-Fueled Steam-Electric Plant Generation. There is no generally accepted practice for measuring the thermal conversion rates for power plants that generate electricity from hydroelectric, wood and waste, wind, photovoltaic, or solar thermal energy sources. Therefore, EIA uses data from Form EIA-767 to calculate a rate factor that is equal to the prevailing annual average heat rate factor for fossil-fueled steam-electric power plants in the United States. By using that factor, it is possible to evaluate fossil fuel requirements for replacing those sources during periods of interruption such as droughts. The heat content of a kilowatthour of electricity produced, regardless of the generation process, is 3,412 Btu per kilowatthour. 1973-1991: The weighted annual average heat rate for fossil-fueled steam-electric power plants in the United States, as published by EIA in *Electric Plant Cost and Power Production Expenses 1991*, Table 9. 1992 forward: Unpublished factors calculated on the basis of data from Form EIA-767.

Geothermal Energy Plant Generation. 1973-1981: Calculated annually by EIA by weighting the annual average heat rates of operating geothermal units by the installed nameplate capacities as reported on Form FPC-12. 1982 forward: Estimated annually by EIA on the basis of an informal survey of relevant plants.

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

Appendix B. Metric and Other Physical Conversion Factors

Data presented in the *Monthly Energy Review* and in other Energy Information Administration publications are expressed predominately in units that historically have been used in the United States, such as British thermal units, barrels, cubic feet, and short tons. However, because U.S. commerce involves other nations, most of which use metric units of measure, the U.S. Government is committed to the transition to the metric system, as stated in the Metric Conversion Act of 1975 (Public Law 94–168), amended by the Omnibus Trade and Competitiveness Act of 1988 (Public Law 100–418), and Executive Order 12770 of July 25, 1991.

The metric conversion factors presented in Table B1 can be used to calculate the metric-unit equivalents of values expressed in U.S. customary units. For example, 500 short tons are the equivalent of 453.6 metric

tons (500 short tons x 0.9071847 metric tons/short ton = 453.6 metric tons).

In the metric system of weights and measures, the names of multiples and subdivisions of any unit may be derived by combining the name of the unit with prefixes, such as deka, hecto, and kilo, meaning, respectively, 10, 100, 1,000, and deci, centi, and milli, meaning, respectively, one-tenth, one-hundredth, and one-thousandth. Common metric prefixes can be found in Table B2.

The conversion factors presented in Table B3 can be used to calculate equivalents in various physical units commonly used in energy analyses. For example, 10 barrels are the equivalent of 420 U.S. gallons (10 barrels x 42 gallons/barrel = 420 gallons).

Type of Unit	U.S. Unit	multiplied by	d Conversion Factor	equals	Metric Unit
Mass	short tons (2,000 lb)	х	0.907 184 7	=	metric tons (t)
	long tons	х	1.016 047	=	metric tons (t)
	pounds (lb)	х	.453 592 37ª	=	kilograms (kg)
	pounds uranium oxide (lb U_3O_8)	х	0.384 647 ^b	=	kilograms uranium (kgU)
	ounces, avoirdupois (avdp oz)	х	28.349 52	=	grams (g)
Volume	barrels of oil (bbl)	х	0.158 987 3	=	cubic meters (m ³)
	cubic yards (yd ³)	x	0.764 555	=	cubic meters (m ³)
	cubic feet (ft ³)	x	0.028 316 85	=	cubic meters (m ³)
	U.S. gallons (gal)	X	3.785 412	=	liters (L)
	ounces, fluid (fl oz)	X	29.573 53	=	milliliters (mL)
	cubic inches (in ³)	х	16.387 06	=	milliliters (mL)
Length	miles (mi)	х	1.609 344 ^a	=	kilometers (km)
	yards (yd)	X	0.914 4 ^a	=	meters (m)
	feet (ft)	X	0.304 8ª	=	meters (m)
	inches (in)	x	2.54 ^b	=	centimeters (cm)
Area	acres	х	0.404 69	=	hectares (ha)
	square miles (mi ²)	х	2.589 988	=	square kilometers (km ²)
	square yards (yd²)	х	0.836 127 4	=	square meters (m ²)
	square feet (ft ²)	х	0.092 903 04 ^a	=	square meters (m ²)
	square inches (in ²)	х	6.451 6 ^b	=	square centimeters (cm ²)
Temperature	degrees Fahrenheit (°F)	х	5/9 (after subtracting 32) ^{a,c}	=	degrees Celsius (°C)
Energy	British thermal units (Btu)	х	1,055.055 852 62 ^{a,d}	=	joules (J)
	calories (cal)	х	4.186 8 ^ª	=	joules (J)
	Kilowatthours (kWh)	х	3.6 ^a	=	megajoules (MJ)

Metric Conversion Factors Table B1.

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

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

^dThe Btu used in this table is the International Table Btu adopted by the Fifth International Conference on Properties of Steam, London, 1956. Notes: • Spaces have been inserted after every third digit to the right of the decimal for ease of reading. • Most metric units belong to the International System of Units (SI), and the liter, hectare, and metric ton are accepted for use with the SI units. For more information about the SI units, contact Dr. Barry Taylor at Building 221, Room B610, National Institute of Standards and Technology, Gaithersburg, MD 20899, or on telephone number 301–975–4220.

Sources: • General Services Administration, Federal Standard 376B, *Preferred Metric Units for General Use by the Federal Government* (Washington, DC, January 27, 1993), pp. 9–11, 13, and 16. • National Institute of Standards and Technology, Special Publications 330, 811, and 814. • American National Standards Institute/Institute of Electrical and Electronic Engineers, ANSI/IEEE Std 268–1992, pp. 28 and 29.

Table B2. Metric Prefixes

Unit Multiple	Prefix	Symbol	Unit Subdivision	Prefix	Symbol
10 ¹	deka	da	10 ⁻¹	deci	d
10 ²	hecto	h	10 ⁻²	centi	С
10 ³	kilo	k	10 ⁻³	milli	m
10 ⁶	mega	М	10 ⁻⁶	micro	
10 ⁹	giga	G	10 ⁻⁹	nano	n
10 ¹²	tera	Т	10 ⁻¹²	pico	р
10 ¹⁵	peta	Р	10 ⁻¹⁵	femto	f
10 ¹⁸	exa	E	10 ⁻¹⁸	atto	а
10 ²¹	zetta	Z	10 ⁻²¹	zepto	Z
10 ²⁴	yotta	Y	10 ⁻²⁴	yocto	у

Source: U.S. Department of Commerce, National Institute of Standards and Technology, *The International System of Units (SI)*, NIST Special Publication 330, 1991 Edition (Washington, DC, August 1991), p.10.

Other Physical Conversion Factors Table B3.

ergy Source (original Unit	multiplied by	Conversion Factor	equals	Final Unit
oleum b	arrels (bbl)	x	42 ^a	=	U.S. gallons (gal)
lo	nort tons ong tons netric tons (t)	x x x	2,000 ^a 2,240 ^a 1,000 ^a	= = =	pounds (lb) pounds (lb) kilograms (kg)
od c	ords (cd)	x	1.25 ^b	=	kilograms (kg)
	ords (cd)	×	128 ^ª	=	cubic

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

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.

Appendix C. Carbon Dioxide Emission Factors for Coal

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

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

1. A higher average emission factor in the residential and commercial sector can be attributed to the steady consumption of bituminous coal and anthracite (presumably for home heating). 2. Virtually all of the coal consumed by coke plants comes from only a few States in the Appalachian Coal Basin (West Virginia, Virginia, and eastern Kentucky). Hence, the emission factors for this sector have remained fairly constant.

3. Other industrial users of coal (not coke plants) increased consumption of low-rank, high-emission western coals, which has contributed to a rise in their average emission factor.

4. Electric utilities, which account for most U.S. coal consumption, have shifted over time away from high-rank, low-emission bituminous coal to low-rank, high-emission subbituminous coal and lignite as reflected in a gradually rising weighted-average carbon dioxide emission factor.

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

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

^aNo allowances have been made for carbon retained in non-energy coal chemical byproducts from the carbonization process.

^bWeighted average. The weights used are consumption values by sector.

Source: Energy Information Administration, Office of Coal, Nuclear, Electric and Alternate Fuels.

Appendix D. List of Features

The following is a complete list of features that have appeared in the *Monthly Energy Review* since the first issue was published in October 1974. There are several categories of features on the list: "Energy Plugs" are 1-page descriptions of recently released EIA products. "Articles" cover a wide range of energy-related subjects in depth; "Highlights" summarize the most important information presented in the subject Energy Information Administration (EIA) report; "Energy Previews" provide brief overviews of EIA preliminary energy data on a given topic; "EIA Data News" items present information on recent changes in the scope, design, methodology, and findings of EIA's energy surveys and databases; and "Energy Snapshots" use graphics to set off key data from EIA survey reports.

Feature

2001

Cover Date

Energy Plug:Energy Education ResourcesEnergy Plug:Impact of Interruptible Natural Gas Service on Northeast Heating Oil DemandEnergy Plug:Performance Profiles of Major Energy Producers 1999Energy Plug:Renewable Energy 2000:Energy Plug:Renewable Energy 2000:Issues and TrendsEnergy Plug:Summer 2001 Motor Gasoline OutlookEnergy Plug:International Energy Outlook 2001Energy Plug:State Energy Data Report 1999:Consumption EstimatesEnergy Plug:The Transition to Ultra-Low-Sulfur Diesel Fuel:Effects on Prices and Supply	January 2001 February 2001 February 2001 March 2001 April 2001 April 2001 May 2001 May 2001
2000 Energy Plug: Inventory of Nonutility Electric Power Plants in the United States 1998 Energy Plug: The Changing Structure of the Electric Power Industry 1999: Mergers and Other	January 2000
Corporate Combinations.Energy Plug:International Energy Annual 1998.Energy Plug:Performance Profiles of Major Energy Producers 1998.Energy Plug:OPEC Revenues Fact SheetEnergy Plug:Country Analysis Brief: IranEnergy Plug:Country Analysis Brief: IranEnergy Plug:International Energy Outlook 2000Energy Plug:Outlook for Biomass Ethanol Production and Demand.Energy Plug:Summer 2000 Motor Gasoline Outlook.Energy Plug:State Energy Price and Expenditure Report 1997Energy Plug:Energy Price and Expenditure Report 1997Energy Plug:Energy Consumption and Renewable Energy Development Potential on Indian LandsEnergy Plug:Annual Energy Review 1999.Energy Plug:Annual Energy Review 1999.Energy Plug:Aprimer on Gasoline Prices.Energy Plug:Long-Term World Oil Supply: A Resource Base/Production Path Analysis.Energy Plug:Propane Prices: What Consumers Should KnowEnergy Plug:Winter Fuels Outlook: 2000-2001Energy Plug:Advance Summary: U.S. Crude Oil, Natural Gas, and Natural Gas Liquids Reserves 1999 Annual Report	January 2000 February 2000 February 2000 March 2000 April 2000 April 2000 April 2000 June 2000 June 2000 July 2000 August 2000 August 2000 October 2000 October 2000
Energy Plug:Residential Natural Gas Prices:What Consumers Should KnowEnergy Plug:The Changing Structure of the Electric Power Industry 2000:An UpdateEnergy Plug:Annual Energy Outlook 2001 Early ReleaseEnergy Plug:Energy Plug:Residential Heating Oil Prices:What Consumers Should Know	November 2000 November 2000 December 2000 December 2000
1999 Energy Plug: Performance Profiles of Major Energy Producers 1997Energy Plug: State Energy Data Report 1996Energy Plug: State Electricity ProfilesEnergy Plug: International Energy Annual 1997Energy Plug: International Energy Outlook 1999Energy Plug: Natural Gas 1998: Issues and TrendsEnergy Plug: Electric Power Annual 1998, Volume I.Energy Plug: Annual Energy Review 1998.Energy Plug: Energy in the AmericasEnergy Plug: State Energy Data Report 1997	January 1999 February 1999 March 1999 April 1999 April 1999 May 1999 June 1999 July 1999 August 1999 September 1999

1999 (Continued)	0 / / /000
Energy Plug: The U.S. Coal Industry in the 1990s: Low Prices and Record Production	September 1999
Energy Plug: Issues in Midterm Analysis and Forecasting 1999	October 1999 November 1999
Energy Plug: Emissions of Greenhouse Gases in the United States 1998	November 1999
Energy Plug: Annual Energy Outlook 2000	December 1999
Energy Plug: Energy in Africa.	December 1999
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Energy Plug: Performance Profiles of Major Energy Producers 1996	January 1998
Energy Plug: International Energy Annual 1996 Energy Plug: Assessment of Summer 1997 Motor Gasoline Price Increase	February 1998 April 1998
Energy Plug: Deliverability on the Interstate Natural Gas Pipeline System	May 1998
Energy Plug: The Changing Structure of the Electric Power Industry: Selected Issues, 1998	June 1998
Energy Plug: Annual Energy Review 1997.	July 1998
Energy Plug: State Energy Price and Expenditure Report 1995	August 1998
Energy Plug: A View of the Forest Products Industry From a Wood Energy Perspective	August 1998
Energy Plug: 25 th Anniversary of the 1973 Oil Embargo: Energy Trends Since the First Major U.S. Energy	
Crisis	September 1998
Energy Plug: Energy Education Resources: Kindergarten Through 12 th Grade	September 1998
Energy Plug: Impacts of the Kyoto Protocol on U.S. Energy Markets and Economic Activity	October 1998
Energy Plug: Emissions of Greenhouse Gases in the United States 1997	October 1998 November 1998
Energy Plug: Wind Energy Developments: Incentives in Selected Countries	November 1998
1997	
Energy Plug: Annual Energy Outlook 1997	January 1997
Energy Plug: The Changing Structure of the Electric Power Industry: An Update	January 1997
Energy Plug: Performance Profiles of Major Energy Producers 1995	January 1997
Energy Plug: The Effects of Title IV of the Clean Air Act Amendments of 1990 on Electric Utilities: An Update Energy Plug: International Energy Outlook 1997	March 1997 April 1997
Energy Plug: Restructuring Energy Industries: Lessons From Natural Gas	May 1997
Energy Plug: An Analysis of U.S. Propane Markets: Winter 1996-97	June 1997
Energy Plug: State Energy Price and Expenditure Report 1994	June 1997
Energy Plug: Annual Energy Review 1996.	July 1997
Energy Plug: Motor Gasoline Assessment 1997	July 1997
Energy Plug: Commercial Buildings Characteristics 1995	July 1997
Energy Plug: Household Vehicles Energy Consumption 1994.	August 1997
Energy Plug: Electricity Prices in a Competitive Environment	August 1997
Energy Plug: Petroleum 1996: Issues and Trends	September 1997 September 1997
Energy Plug: The Intricate Puzzle of Oil and Gas "Reserves Growth" Energy Plug: <i>Emissions of Greenhouse Gases in the United States</i> 1996	October 1997
Energy Plug: Electricity Reform Abroad and U.S. Investment	October 1997
Energy Plug: Annual Energy Outlook 1998	November 1997
Energy Plug: Winter Heating Fuels Assessments	December 1997
Energy Plug: Oil and Gas Resources of the West Siberian Basin, Russia	December 1997
4006	
1996 Energy Plug: <i>Renewable Energy Annual</i> 1995	January 1996
Energy Plug: State Energy Price and Expenditure Report 1993	January 1996
Energy Plug: Annual Energy Outlook 1996	February 1996
Energy Plug: Alternatives to Traditional Transportation Fuels 1994, Volume 1	February 1996
Energy Snapshot: Describing Current and Potential Markets for Alternative-Fuel Vehicles	March 1996
Article: Energy Equipment Choices: Fuel Costs and Other Determinants	April 1996
Energy Plug: International Energy Outlook 1996	May 1996
Energy Plug: U.S. Electric Utility Demand-Side Management: Trends and Analysis	May 1996
Energy Plug: Country Analysis Brief: Iraq	June 1996
Energy Plug: Voluntary Reporting of Greenhouse Gases 1995	July 1996 July 1996
Energy Plug: Residential Lighting: Use and Potential Savings	August 1996
Energy Plug: EIA Electronic Media Meet Customer Needs	August 1996
Energy Plug: Alternatives to Traditional Transportation Fuels, Volume 2: Greenhouse Gas Emissions	September 1996
Energy Plug: State Energy Data Report 1994	October 1996
Energy Plug: Privatization and the Globalization of Energy Markets	October 1996
Energy Plug: Emissions of Greenhouse Gases in the United States 1995	October 1996
Energy Plug: Nuclear Power Generation and Fuel Cycle Report 1996	November 1996
Energy Plug: Country Analysis Brief: Algeria	November 1996 November 1996
Energy Plug: Deriver Clean-City Fleets Survey	December 1996
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1995 Highlights: Manufacturing Consumption of Energy 1991 January 1995 Article: U.S. Wind Energy Potential: The Effect of the Proximity of Wind Resources to Transmission Lines February 1995 EIA Data News: The Response Analysis Survey: Evaluating Manufacturing Energy Consumption Survey Methodology..... March 1995 Energy Preview: Electric Utility Fleet Survey 1993, Preliminary Estimates: Assessing the Market for Alternative-Fuel Vehicles April 1995 Highlights: Commercial Buildings Energy Consumption and Expenditures 1992 April 1995 Article: Measuring Dependence on Imported Oil August 1995 Energy Preview: Household Energy Consumption and Expenditures 1993, Preliminary Estimates August 1995 Energy Snapshot: Housing Characteristics 1993..... September 1995 Highlights: State Energy Data Report 1993, Consumption Estimates October 1995 Special Communication: Results of the Monthly Energy Review Features Readership Survey November 1995 Highlights: Annual Energy Review 1994 November 1995 Energy Preview: Alternative Fuel Providers Fleet Surveys, Preliminary Data November 1995 Article: Environmental Externalities in Electric Power Markets: Acid Rain, Urban Ozone, and Climate Change November 1995 Energy Preview: Alternative Fuel Providers Fleet Surveys, Preliminary Data December 1995 1994 Energy Preview: Commercial Buildings Energy Consumption Survey, Preliminary Estimates, 1992 January 1994 Highlights: Household Vehicles Energy Consumption 1991 February 1994 April 1994 Highlights: Energy Use and Carbon Emissions: Some International Comparisons Highlights: Commercial Buildings Characteristics 1992 June 1994 Article: Demand, Supply, and Price Outlook for Reformulated Motor Gasoline 1995 July 1994 Article: Commercial Nuclear Electric Power in the United States: Problems and Prospects August 1994 Article: The Impact of Flow Control and Tax Reform on Ownership and Growth in the U.S. August 1994 Highlights: Reducing Home Heating and Cooling Costs September 1994 Energy Preview: Commercial Buildings Energy Consumption and Expenditures 1992, Preliminary Estimates September 1994 Article: Carbon Dioxide Emission Factors for Coal: A Summary Waste-to-Energy Industry..... September 1994 EIA Data News: Data Collection on Alternative-Fuel Vehicles October 1994 Highlights: Energy End-Use Intensities in Commercial Buildings October 1994 Article: Change in Method for Estimating Fuel Economy for the Residential Transportation Energy Consumption Survey October 1994 Article: Comparability of Supply- and Consumption-Derived Estimates of Manufacturing Energy Consumption October 1994 Energy Preview: Housing Characteristics 1993, Selected Preliminary Estimates November 1994 Energy Preview: Propane-Provider Fleet Survey 1993, Preliminary Estimates November 1994 Energy Preview: Atlanta Private Fleet Survey 1994, Preliminary Estimates December 1994 1993 Energy Preview: Residential Transportation Energy Consumption Survey, Preliminary Estimates, 1991..... January 1993 EIA Data News: Natural Gas Transported for the Account of Others February 1993 Highlights: Federal Energy Subsidies: Direct and Indirect Interventions in Energy Markets July 1993 Highlights: Household Energy Consumption and Expenditures 1990 August 1993 Article: Demand, Supply, and Price Outlook for Low-Sulfur Diesel Fuel August 1993 Energy Preview: Manufacturing Energy Consumption Survey, Preliminary Estimates, 1991 September 1993 Highlights: Natural Gas 1992: Issues and Trends..... September 1993 Highlights: International Energy Outlook 1993 October 1993 Highlights: The Changing Structure of the U.S. Coal Industry: An Update November 1993 Highlights: Emissions of Greenhouse Gases in the United States 1985-1990 December 1993 Highlights: Assessment of Energy Use in Multibuilding Facilities December 1993 1992 Energy Preview: Residential Energy Consumption and Expenditures Preliminary Estimates, 1990 April 1992 EIA Data News: Oxygenate Data Collection Begins May 1992 Highlights: Lighting in Commercial Buildings June 1992 Article: Demand, Supply, and Price Outlook for Oxygenated Gasoline, Winter 1992-1993 August 1992 EIA Data News: EIA Statistics on Electric Utility Demand-Side Management September 1992 EIA Data News: EIA Statistics on Nonutility Power Producers October 1992 EIA Data News: EIA Statistics on Electric Utility Demand-Side Management November 1992 Article: Energy Efficiency in the Manufacturing Sector December 1992 1991 Highlights: U.S. Energy Industry Financial Developments, 1990 Fourth Quarter March 1991 Article: U.S. Wholesale Electricity Transactions April 1991 1990 Article: Refining Results Highlight Energy Companies' First-Half Profit Performance June 1990

1989	
Article: A Review of Valdez Oil Spill Market Impacts	March 1989
Article: Monthly U.S. Crude Oil Production Estimates	March 1989
Article: Superconductivity and Energy Production and Consumption Highlights: Commercial Buildings Consumption and Expenditures 1986	May 1989 May 1989
Article: Higher Prices Yield Improved Energy Industry Financial Results in the First Half of 1989	
Article: The Future Structure of the U.S. Commercial Nuclear Power Equipment	June 1989
Manufacturing Industry	July 1989 September 1989
Highlights: Manufacturing Energy Consumption Survey: Changes in Energy Efficiency, 1980-1985	October 1989
Highlights: Household Energy Consumption and Expenditures 1987, Part 1: National Data	November 1989
Article: Improved Energy Profits Offset by Refining Results in 1989	December 1989
1988	
Article: Measures of Energy Consumption, Expenditures, and Prices Article: The U.S. Energy Industry's Financial Recovery Continued in the First Half of 1988	May 1988 June 1988
Article: A U.S. Perspective on Condensate	June 1988
Highlights: Characteristics of Commercial Buildings 1986	June 1988
Article: State Energy Severance Taxes, 1972-1987	July 1988
Highlights: Manufacturing Energy Consumption Survey: Consumption of Energy, 1985 1985 <th< td=""><td>September 1988 October 1988</td></th<>	September 1988 October 1988
Highlights: Manufacturing Energy Consumption Survey: Fuel Switching, 1985	November 1988
Article: Increased Refining Income Led U.S. Energy Industry Financial Recovery in 1988	December 1988
1987	
Article: Manufacturing Sector Energy Consumption, 1985 Provisional Estimates	January 1987
Part 1: National Data	April 1987
Part 2: Regional Data	May 1987
Article: U.S. Energy Industry Financial Developments, 1987 Second Quarter	June 1987
Article: End-Use Consumption of Residential Energy Highlights: Uranium Industry Annual 1986	July 1987 September 1987
Highlights: Potential Oil Production from ANWR	October 1987
Highlights: Profiles of Foreign Direct Investment in U.S. Energy 1986	November 1987
Article: The U.S. Energy Industry in 1987: A Slow Recovery	December 1987
1986 Article: State Motor Gasoline Taxes, 1960-1985	March 1096
Article: The Impact of Low Oil Prices on Electric Utility Fuel Choice	March 1986 June 1986
Article: U.S. Energy Industry Financial Developments, 1986 Second Quarter	June 1986
Highlights: International Energy Annual 1985	September 1986
Article: U.S. Energy Industry Financial Developments, 1986	December 1986
1985 Highlights: Annual Energy Review 1984	January 1985
Highlights: Performance Profiles of Major Energy Producers 1983	February 1985
Article: Estimating Well Completions	March 1985
Highlights: State Energy Price and Expenditure Report 1970-1982 Highlights: State Energy Data Report, Consumption Estimates, 1960-1983	March 1985
Highlights: Annual Outlook for U.S. Electric Power 1985	April 1985 June 1985
Highlights: Short-Term Energy Outlook, Volume 1, October 1985	August 1985
Highlights: Analysis of Growth in Electricity Demand, 1980-1984	August 1985
Highlights: Profiles of Foreign Direct Investment in U.S. Energy 1984 Highlights: Performance Profiles of Major Energy Producers 1984	November 1985 December 1985
1984 Highlights: Annual Energy Review 1983	February 1984
Highlights: Annual Energy Outlook 1983	March 1984
Highlights: State Energy Data Report, Consumption Estimates, 1960-1982	March 1984
Highlights: State Energy Price and Expenditure Report, 1970-1981 Highlights: Solar Collector Manufactruring Activity 1983	May 1984 June 1984
Highlights: International Energy Annual 1983	September 1984
Highlights: Estimates of U.S. Wood Energy Consumption, 1980-1983	September 1984
Highlights: Energy Conservation Indicators 1983 Annual Report. Highlights: Annual Energy Outlook 1984	November 1984 December 1984
1983 Highlights: Residential Energy Consumption Survey: Consumption and Expenditures	January 1983
Highlights: Residential Energy Consumption Survey: Housing Characteristics	February 1983
Articles The Effect of Weether on Energy Llee	A
Article: The Effect of Weather on Energy Use	April 1983

1983 (Continued) Article: Trends in U.S. Energy Since 1973	May 1983
Article: Data Series on Petroleum Use at Electric Utilities	July 1983
Highlights: Energy Price and Expenditure Data Report, 1970-1980	July 1983
Highlights: Railroad Deregulation: Impact on Coal Highlights: Port Deepening and User Fees: Impact on U.S. Coal Exports	August 1983 August 1983
Highlights: U.S. Crude Oil, Natural Gas, and Natural Gas Liquids Reserves,	August 1900
1982 Annual Report	September 1983
Article: Residential Energy Consumption, 1978 Through 1981	September 1983
Article: Exploring for Oil and Gas Article: The Influence of Federal Actions on Petroleum Exploration	November 1983 December 1983[2]
Article: Aggregate Statistics: Accurate or Misleading?	December 1983[3]
1982 Article: The Interstate and Intrastate Natural Gas Markets	January 1982
Article: Natural Gas Drilling and Production Under the Natural Gas Policy Act	February 1982
Highlights: U.S. Crude Oil, Natural Gas, and Natural Gas Liquids Reserves, 1981 Annual Report	September 1982
Article: Impacts of Financial Constraints on the Electric Utility Industry	October 1982
Highlights: Energy Company Development Patterns in the Postembargo Era	November 1982
1981	
Article: Changes in 1981 Petroleum Data Series Article: Information Services of the Energy Information Administration	May 1981 September 1981
Article: An Overview of Natural Gas Markets	December 1981
4000	
1980 Article: The Solar Collector Industry and Solar Energy	February 1980
Article: Trends in the Installation of Energy Using Equipment in New Residential Buildings	March 1980
Article: The Energy Information Administration's Oil and Gas Reserves	
Program—The First Year's Report	June 1980 August 1980
Article: Natural Gas Liquids: Revisions to 1979 Data	October 1980
Article: EIA Weekly Petroleum Data: Data Collection and Methods of Estimation	November 1980
Article: The Department of Energy Disclosure Policy for Individually Identifiable	D 1 1000
Information Maintained by the Energy Information Administration	December 1980
1979	
Article: The Energy Requirements of U.S. Agriculture Article: Three Mile Island—Possible Regulatory Responses and Their Impacts	July 1979
on the Nation's Short-Term Electric Utility Fuel Outlook	October 1979
Article: Reduction in Natural Gas Requirements Due to Fuel Switching	December 1979
1978	
Article: Short-Term Petroleum Supply and Demand	May 1978
1977 Article: Crude Oil Entitlements Program	January 1977
Article: Motor Gasoline Supply and Demand	July 1977
1976	
Article: Curtailments of Natural Gas Service	January 1976
Article: Home Heating Conservation Alternatives and the Solar Collector Industry	March 1976
Article: Trends in United States Petroleum Imports	September 1976
1975	
Article: Energy Consumption	March 1975
Article: Nuclear Power Article: The Price of Crude Oil	April 1975 June 1975
Article: U.S. Coal Resources and Reserves	July 1975
Article: Propane—A National Energy Resource	September 1975
Article: Short-Term Energy Supply and Demand Forecasting at FEA	October 1975

Appendix E. Renewable Energy

Beginning with the January 2001 issue of the *Monthly Energy Review (MER)*, previously uncounted portions of renewable energy data (including renewable nonutility generation and all nonelectric energy) were fully incorporated into the *MER* summaries in Sections 1 and 2. The addition of these data into the summaries raised the U.S. energy consumption total by 3 to 4 quadrillion Btu per year in recent years. The tables presented in this appendix organize and summarize the renewable energy data and estimates that are now used in Sections 1 and 2 summary tables. Caution is warranted in using some of the monthly values; in particular, monthly data on Table E2 are not available from data collection systems but are estimated instead from daily rates of the annual data.

Table E1. Renewable Energy Consumption by Source

(Trillion Btu)

	Conventional Hydroelectric Power ^{a,b}	Wood ^c	Wasted	Alcohol Fuels ^e	Geothermal ^f	Solar ^g	Wind ^h	Total
		11000	TTUDIC'	I UCIO	ocontenna		, this	I Utal
973 Total	3,010	1,527	2	NA	43	NA	NA	4,581
974 Total	3,309	1,538	2	NA	53	NA	NA	4,902
975 Total		1,497	2	NA	70	NA	NA	4,788
976 Total		1,711	2	NA	78	NA	NA	4,857
		1.837	2	NA	70	NA	NA	4,037
977 Total			1	NA		NA	NA	
978 Total		2,036			64			5,243
979 Total		2,150	2	NA	84	NA	NA	5,377
980 Total		2,483	2	NA	110	NA	NA	5,712
981 Total	E 3,105	2,495	88	7	123	NA	NA	5,818
982 Total	^E 3,572	2,477	119	19	105	NA	NA	6,292
983 Total	E 3,899	2,639	157	35	129	NA	(s)	6,860
984 Total		2,629	208	43	165	(s)	(s)	6,845
985 Total		E 2,576	E 236	E 52	198	(s)	(s)	6,460
986 Total		^E 2,518	E 263	^E 60	219	(s)	(s)	6,507
		E 2,465	289	69	229			6,170
987 Total	/					(s)	(s)	
988 Total		E 2,552	E 315	^E 70	217	(s)	(s)	5,817
989 Total		E 2,635	354	71	334	59	24	6,492
990 Total		E 2,188	408	63	355	63	32	6,254
991 Total		^E 2,188	440	73	363	66	32	6,320
992 Total		^E 2,288	473	83	374	67	30	6,134
993 Total		2.226	479	97	387	71	31	6,410
994 Total		2,314	515	109	391	72	36	6,429
995 Total		2,418	531	103	333	73	33	6.987
						75	35	
996 Total		2,465	577	84	346			7,473
997 Total		2,348	551	106	322	74	33	7,395
998 Total	3,569	2,326	533	117	328	74	31	6,977
999 January	E 306	E 220	^E 49	11	^{RE} 25	E 6	2	^R 618
February		E 196	E 45	9	RE 22	Ĕ5	2	^R 581
March		E 216	E 48	10	RE 25	E 6	3	R 643
		E 210	E 48	9	^{RE} 24	E 6	4	^R 602
April					RE 25	- 6 Е 6		* 602 R 002
May	E 317	E 216	E 49	9	RE 25		6	^R 628
June		E 209	^E 48	10	^{RE} 29	E7	6	^R 636
July		E 220	E 49	8	^{RE} 31	E 7	6	^R 641
August	E 282	^E 219	E 49	10	RE 32	E 7	5	^R 603
September	E 243	^E 218	E 47	10	^{RE} 31	E 6	4	^R 559
October		E 217	E 46	12	RE 32	E Ő	3	^R 547
November		E 209	E 47	12	RE 30	E Ő	2	^R 549
		E 216	E 49	12	RE 30	E 6	3	^R 618
December								
Total	3,512	^R 2,566	572	122	^R 335	73	46	^R 7,226
000 January	^{RE} 285	E 220	^E 45	12	E 27	E 6	4	^R 599
February		E 207	E 43	9	E 24	E 5	4	^R 549
March		E 220	E 46	12	E 24	Ĕ6	4	R 609
April		E 213	E 44	12	E 25	E 6	5	^R 618
		E 217	E 46		= 25 E 26	- 6 Е 6	5 5	^R 619
May		-∠17 Eoto		12	- 26 F 20			
June		E 212	^E 45	7	E 26	E 6	4	^R 585
July		E 222	^E 46	13	E 27	Ē6	4	R 598
August	^{RE} 273	^E 220	^E 46	12	^E 28	E 6	4	^R 589
September	RE 217	E 213	E 44	11	^E 27	E 6	4	^R 522
October		E 220	E 46	13	E 28	ĔĞ	5	^R 514
November		E 213	E 45	13	E 28	E Ő	4	^R 529
December		E 219	E 45	13	E 29	E 6	4	R 534
			RE 541		E 319	E 70		
Total	^{RE} 3,149	^E 2,596	··· 541	139	- 319		51	^R 6,865
001 January	^{RE} 210	^{RE} 225	^{RE} 50	15	^{RE} 29	RE 5	4	^R 539
February		E 203	E 44	12	E 25	E 5	E4	516
		E 225	E 49	12	E 25	= 5 E 6	E 4	
March			- 49 F 4 40		E 25 E 79	E16	⊑ 12	594
3-Month Total	- 705	E 653	^E 143	39	- 79	- 16	- 12	1,648
000 3-Month Total	^E 838	^E 647	^E 134	33	^E 75	^E 17	12	1,757
999 3-Month Total		E 632	E 142	29	E 72	^E 16	8	1,842

^a Hydroelectricity generated by pumped storage is not included in renewable

^a Hydroelectricity generated by pumped storage is not included in renewable energy.
 ^b Through 1988, includes all electricity net imports. From 1989, includes only the portion of electricity net imports derived from hydroelectric power.
 ^c Wood, wood waste, black liquor, red liquor, spent sulfite liquor, wood sludge, peat, railroad ties, and utility poles.
 ^d Municipal solid waste, landfill gas, methane, digester gas, liquid acetonitrile waste, solid

waste, tall oil, waste alcohol, medical waste, paper pellets, sludge waste, solid byproducts, tires, agricultural byproducts, closed loop biomass, fish oil, and straw. ^e Ethanol blended into motor gasoline.

^f Geothermal electricity generation, heat pump, and direct use energy. From 1989, also includes electricity imports derived from geothermal energy.
 ^g Solar thermal and photovoltaic electricity generation, and solar thermal direct

 ⁹ Solar therman and a subject of the solar product of the rounding. Geographic coverage is the 50 states and the District of Columbia. Sources: Tables E2, E3a, and E3b.

Table E2. Renewable Energy Consumption by End-Use Sector

(Trillion Btu)

	Residential					Commercial			Indu	Trans- portation			
	Wood ^b	Geo- thermal ^c	Solar ^d	Total	Wood ^b	Geo- thermal ^c	Total	Wood ^e	Waste ^f	Geo- thermal ^c	Total	Alcohol Fuels ^g	End-Use Total
1973 Total	354	NA	NA	354	7	NA	7	1,165	NA	NA	1,165	NA	1,526
1974 Total	371	NA	NA	371	7	NA	7	1,159	NA	NA	1,159	NA	1,537
1975 Total		NA	NA	425	8	NA	8	1,063	NA	NA	1,063	NA	1,497
1976 Total		NA	NA	482	9	NA	9	1,220	NA	NA	1,220	NA	1,711
1977 Total		NA	NA	542	10	NA	10	1,281	NA	NA	1,281	NA	1,833
1978 Total		NA	NA	622	12	NA	12	1,400	NA	NA	1,400	NA	2,034
1979 Total		NA	NA	728	14	NA	14	1,405	NA	NA	1,405	NA	2,147
1980 Total	859	NA	NA	859	21	NA	21	1,600	NA	NA	1,600	NA	2,480
1981 Total	869	NA	NA	869	21	NA	21	1,602	87	NA	1,689	7	2,586
1982 Total		NA	NA	937	22	NA	22	1,516	118	NA	1,634	19	2,612
1983 Total		NA	NA	925	22	NA	22	1,690	155	NA	1,845	35	2,827
1984 Total		NA	NA	923	22	NA	22	1,679	204	NA	1,883	43	2,871
1985 Total		NA	NA	899	¹ 24	NA	24	1,645	1230	NA	E 1,875	52	2,850
1986 Total		NA	NA	876	27	NA	27	1,610	256	NA	E 1,866	¹ 60	2,829
1987 Total		NA	NA	852	129	NA	29	1,576	282	NA	1,858	69	2,808
1988 Total		NA	NA	885	32	NA	32	1,625	308	NA	E 1,933	70	2,920
1989 Total		5	53	976	34	3	E 37	1,394	250	2	1,646	71	2,729
1990 Total		6	56	642	137	3	E 40	1,254	271	2	1,527	63	2,272
1991 Total	613	6	58	677	139	3	E 42	1,190	275	2	1,467	73	2,259
1992 Total		6	60	711	42	3	E 45	1,233	289	2	1,525	83	2,365
1993 Total		7	62	616	44	3	47	1,255	288	2	1,546	97	2,307
1994 Total		6	64	607	45	4	49	1,342	318	3	1,663	109	2,428
1995 Total		7	65	667	45	5	50	1,402	322	3	1,727	117	2,561
1996 Total		7	66	668	49	5	54	1,441	363	3	1,807	84	2,612
1997 Total	433	7	65	506	47	6	53	1,513	338	3	1,854	106	2,518
1998 Total	387	8	65	459	47	7	54	1,564	312	3	1,879	117	2,509
1999 January		^A 1	^A 5	^A 41	^A 4	^A 1	^A 5	^A 145	^A 25	^A (s)	^A 170	11	227
February		^A 1	^A 5	^A 37	A 4	A 1	^A 4	^A 131	^A 22	^A (s)	^A 154	9	205
March		^A 1	^A 5	^A 41	^A 4	^A 1	^A 5	^A 145	^A 25	^A (s)	^A 170	10	226
April		^A 1	^A 5	^A 40	^A 4	A 1	^A 5	^A 141	^A 24	^A (s)	^A 165	9	218
May	^A 35	^A 1	^A 5	^A 41	^A 4	^A 1	^A 5	^A 145	^A 25	^A (s)	^A 170	9	226
June		A 1	^A 5	^A 40	A 4	A 1	^A 5	^A 141	^A 24	^A (s)	^A 165	10	219
July		^ 1	^A 5	^A 41	^A 4	^A 1	^A 5	^A 145	^A 25	^A (s)	^A 170	8	225
August		A 1	^A 5	^A 41	A 4	^A 1	^A 5	^A 145	^A 25	A (s)	^A 170	10	226
September		^ 1	^A 5	^A 40	^A 4	^A 1	^A 5	^A 141	^A 24	^A (s)	^A 165	10	219
October		A 1	^A 5	^A 41	A 4	^A 1	^A 5	^A 145	^A 25	^A (s)	^A 170	12	229
November		A 1	^A 5	^A 40	A 4	A 1	^A 5	^A 141	^A 24	^A (s)	^A 165	12	222
December		^A 1	^A 5	^A 41	^A 4	^A 1	^A 5	^A 145	^A 25	^A (s)	^A 170	14	230
Total	414	8	64	486	51	7	58	1,711	291	4	2,007	122	2,673
2000 January		A 1	^A 5	^A 43	A 4	A 1	^A 5	^A 144	^A 24	A(s)	^A 169	12	228
February		A 1	^A 5	A 40	A 4	A 1	^A 5	^A 135	A 23	A (s)	A 158	9	212
March		A 1	^A 5	A 43	A 4	^A 1 ^A 1	^A 5	A 144	A 24	A (s)	A 169	12	228
April		A 1	^A 5	A 41	A 4		^A 5	^A 139	A 23	A (s)	^A 163	10	220
May		A 1	A 5	A 43	A 4	A 1	^A 5	A 144	A 24	A (s)	A 169	12	228
June		A 1 A 1	A 5	A 41	A 4	A 1 A 1	^A 5	A 139	A 23	A (s)	A 163	7	216
July		^1 ^1	A 5	A 43	A 4	^1 ^1	^A 5	A 144	A 24	A(s)	A 169	13	230
August		^1 ^1	A 5	A 43	A 4 A 4	^1 A1	A 5	A 144	A 24	A (s)	A 169	12	229
September		A 1 A 1	^A 5 ^A 5	^A 41 ^A 43	A4 A4	A 1	^A 5 ^A 5	A 139	^A 23 ^A 24	A(s)	^A 163 ^A 169	11	221
October		^1 ^1	^5 ^5	^ 43 ^ 41	^4 ^4	^1 ^1	^5 ^5	^A 144 ^A 139		A(s)		13	230
November	^36 ^37	^1 ^1	^5 ^5	^ 41 ^ 43	^4 ^4	^1 A1	^5 ^5	^ 139 ^ 144	^A 23 ^A 24	^A (s) ^A (s)	^A 163 ^A 169	13 14	223 230
December Total		E 9	E 62	E 503	^E 52	E 8	E 60	E 1,702	E 287	E 4	E 1,993	139	230 2,695
2001 January		^A 1	^5	^A 43	^A 4	^A 1	^A 5	^A 145	^A 24	^A (s)	^A 169	15	232
February		A 1	A 5	A 39	A 4	^ 1	^ 5	^A 131	A 22	^A (s)	^A 153	12	208
March		A 1	^ 5	^A 43	A 4	A 1	^ 5	^A 145	A 24	A (S)	^A 169	12	229
3-Month Total		^ 2	^ 1 5	^A 124	^A 13	^ 2	^A 15	A 420	^ 71	A 1	^A 491	39	669
2000 3-Month Total 1999 3-Month Total		A 2 A 2	^A 15 ^A 16	^A 125 ^A 120	^A 13 ^A 13	A 2 A 2	^A 15 ^A 14	^A 423 ^A 422	^A 71 ^A 72	A 1 A 1	^A 495 ^A 495	33 29	668 658

^a Through 1988, includes industrial sector use of wood and waste to produce both useful thermal output and electricity. From 1989, includes the portion of nonutility power producers' use of renewable energy to produce useful thermal output; excludes the portion used to produce electricity, which is included under "Nonutility Power Producers" on Table E3b. ^b Wood only.

^c Geothermal heat pump and direct use energy.

^d Solar thermal direct use and photovoltaic energy. Includes small amounts of commercial sector use. ^e Wood, wood waste, black liquor, red liquor, spent sulfite liquor, wood sludge,

pat, rairo ad ties, and utility poles. ^f 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.

⁹ Ethanol blended into motor gasoline. NA=Not available. E=Estimate. (s)=Less than 0.5 trillion Btu. I=Interpolated value. A=Apportioned data: monthly estimates for 1999 and 2000 are created by dividing the annual value by the number of days in the year and then multiplying by the number of days in the month; temporary 2001 monthly estimates are created by dividing the 2000 annual value by 365 and multiplying by the number of days in the month.

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

Table E3a. Renewable Energy Consumption by the Electric Power Sector (Trillion Btu)

1 2 2 4 1 2 4 1 2 4 1 2 5 0 NA 3 1 2 5 0 NA 3 1 1 2 7 0 NA 3 19 1976 Total 2,243 1 2 78 0 NA 3,142 0 NA 3,19 71 0 NA 3,19 71 0 NA 3,19 71 0 NA 3,23 2 74 0 NA 2,28 71 0 NA 2,28 71 0 NA 2,28 1 105 0 NA 2,28 11 105 0 NA 2,38 12 12 10 NA 2,38 12 12 10 13 13 13 13 13 13 13 13 13 13 13 13 13 13 13 13					Electric Power Sector			
Hydroelectric Wood ^b Waste ² Geothermat ^d Solar ⁶ Wind ⁴ Tota 973 Total 3,443 1 2 53 0 NA 3,193 974 Total 3,143 1 2 53 0 NA 3,193 977 Total 2,206 2 77 0 NA 2,297 977 Total 2,206 2 1 64 0 NA 2,297 977 Total 2,2065 2 1 165 0 NA 2,298 977 Total 2,247 3 2 84 0 NA 2,298 987 Total 2,247 3 2 1105 0 NA 2,398 987 Total 2,437 8 7 198 (a) (a) 3,352 987 Total 2,437 8 7 198 (a) (a) 3,452 987 Total 2,448 8 13 1165 (a)					Electric Utilities			
974 Total 3,143 1 2 53 0 NA 3,19 977 Total 2,243 1 2 78 0 NA 3,102 977 Total 2,243 1 2 78 0 NA 2,302 977 Total 2,267 3 2 84 0 NA 2,303 978 Total 2,267 3 2 84 0 NA 2,283 978 Total 2,267 3 1 123 0 NA 2,88 988 Total 2,267 3 1 123 0 NA 2,88 988 Total 2,243 2 1 105 0 NA 3,43 988 Total 2,303 5 7 219 (e) (e) 3,27 988 Total 2,302 10 8 217 (b) (e) (e) 2,53 988 Total 2,302 10 10 197 (e) (e) 2,53 988 Total 2,302 8 14 1		Hydroelectric	Wood ^b	Waste ^c	Geothermal ^d	Solar ^e	Wind ^f	Total
974 Total 3,143 1 2 53 0 NA 3,19 977 Total 2,443 1 2 78 0 NA 3,102 977 Total 2,433 1 2 78 0 NA 2,302 978 Total 2,487 3 2 74 0 NA 2,302 978 Total 2,487 3 2 84 0 NA 2,303 978 Total 2,287 3 1 123 0 NA 2,88 988 Total 2,725 3 1 123 0 NA 2,88 988 Total 2,433 6 4 166 6 6 3,122 985 Total 2,402 8 7 219 6 6 2,433 986 Total 2,303 5 7 219 6 6 2,433 986 Total 2,402 10 10 197 6 6 2,433 987 Total 2,402 8 13 160 6	072 Total	2 927	1	2	42	0	NA	2 972
275 Total 3,122 (s) 2 70 0 NA 3,19 277 Total 2,301 3 2 77 0 NA 2,28 277 Total 2,305 2 1 64 0 NA 2,28 378 Total 2,305 2 1 64 0 NA 2,28 380 Total 2,323 2 10 0 NA 2,38 381 Total 3,233 2 1 105 0 NA 3,34 385 Total 3,333 5 4 165 (s) (s) 3,52 387 Total 2,302 10 8 77 29 (s) (s) 3,52 387 Total 2,302 10 8 17 223 (s) (s) 3,51 397 Total 2,262 10 10 197 (s) (s) 2,52 398 Total 2,763 8 13 165 (s) (s) 2,11 398 Total 2,764 8 13								
276 Total 2.943 1 2 78 0 NA 3.02 377 Total 2.905 2 1 64 0 NA 2.39 377 Total 2.967 3 2 116 0 NA 2.39 380 Total 2.967 3 2 113 0 NA 2.38 380 Total 3.233 3 1 105 0 NA 2.38 382 Total 3.434 2 2 129 0 (6) 3.52 385 Total 2.3333 5 4 165 (6) (6) 3.52 385 Total 2.337 8 7 198 (6) (6) 3.52 385 Total 2.362 10 0 2.177 (8) (8) (8) (8) 2.43 390 Total 2.943 8 13 169 (8) (8) 2.43 390 Total 2.571 8 13 169 (8) (8) 3.11 993 Total 2.549 8								
977 Total 2.301 3 2 77 0 NA 2.38 977 Total 2.995 2 1 64 0 NA 2.38 977 Total 2.897 3 2 84 0 NA 2.38 977 Total 2.287 3 2 113 0 NA 2.38 987 Total 2.233 2 1 105 0 NA 2.38 987 Total 3.333 5 4 165 (e) (e) 3.42 987 Total 3.038 5 7 219 (e) (e) 3.53 987 Total 2.303 8 7 219 (e) (e) 3.53 987 Total 2.262 0 6 7 227 (e) (e) 2.95 987 Total 2.765 10 10 197 (e) (e) 2.95 987 Total 2.724 8 13 169 (e) (e) 2.95 987 Total 2.774 9 11								
978 Total 2,055 2 1 64 0 NA 2,297 980 Total 2,897 3 2 84 0 NA 2,298 980 Total 2,267 3 2 110 0 NA 2,288 980 Total 3,234 2 1 102 0 NA 2,288 981 Total 3,233 5 4 165 (s) (s) 3,353 981 Total 2,337 8 7 198 (s) (s) 3,43 985 Total 2,302 10 8 2,77 (s) (s) (s) 2,245 988 Total 2,765 10 10 197 (s) (s) 2,245 988 Total 2,765 10 10 197 (s) (s) 2,352 988 Total 2,602 8 7 10 (s) (s) 2,453 988 Total 2,606 1 10 157 (s) (s) 2,453 988 Total 2,666 7				_		-		
279 Total 2,897 3 2 84 0 NA 2,898 88 Total 2,725 3 1 123 0 NA 2,88 88 Total 2,725 3 1 105 0 NA 3,44 88 Total 3,443 2 2 126 0 (s) 3,54 88 Total 2,337 5 4 498 (s) (s) 3,54 88 Total 2,337 5 7 299 (s) (s) (s) 3,54 98 Total 2,302 10 8 217 (s) (s) (s) 2,248 980 Total 2,302 10 8 217 (s) (s) 2,898 980 Total 2,344 8 13 161 (s) (s) 3,111 980 Total 2,243 8 14 170 (s) (s) 2,248 990 Total 2,345 8 13 163 (s) (s) 2,775 980 Total 3,423 8<								
2887 total 2.867 3 2 110 0 NA 2.88 888 total 3.233 2 1 105 0 NA 3.24 888 total 3.333 5 4 105 0 NA 3.24 988 total 2.337 8 7 198 (6) (6) 3.25 988 total 2.337 8 7 198 (6) (6) 3.25 988 total 2.337 8 7 198 (6) (6) 3.25 988 total 2.302 10 8 217 (6) (6) 2.25 988 total 2.765 10 10 197 (6) (6) 2.5 998 total 2.774 9 11 158 (6) (6) 2.77 998 total 2.774 9 11 158 (6) (6) 2.77 998 total 2.774 9 11 158 (6) (6) 2.77 998 total 2.774 9 11 1								
981 Total 2,725 3 1 123 0 NA 288 982 Total 3,233 2 1 105 0 NA 3,34 983 Total 3,494 2 2 129 0 (s) (s) 3,523 984 Total 2,337 8 7 198 (s) (s) (s) 3,523 986 Total 2,302 8 7 219 (s) (s) (s) 2,327 86 Total 2,302 10 8 217 (s) (s) 2,323 910 Total 2,242 8 13 141 (s) (s) (s) 2,323 910 Total 2,243 8 13 145 (s) (s) 2,445 910 Total 2,574 8 13 145 (s) (s) 2,454 910 Total 2,549 8 13 145 (s) (s) 3,423 910 Total 3,535 8 13 115 (s) (s) 3,423 <t< td=""><td></td><td></td><td></td><td>_</td><td></td><td></td><td></td><td></td></t<>				_				
382 Total 3,233 2 1 105 0 NA 3,484 982 Total 3,353 5 4 165 (s) (s) 3,52 984 Total 3,353 5 4 165 (s) (s) 3,52 984 Total 3,303 5 7 219 (s) (s) 3,53 987 Total 3,038 5 7 219 (s) (s) 3,53 987 Total 2,302 0 8 217 (s) (s) 2,53 989 Total 2,248 8 13 161 (s) (s) 3,15 999 Total 2,252 8 13 169 (s) (s) 3,15 997 Total 2,252 8 13 145 (s) (s) 3,15 997 Total 2,252 8 13 145 (s) (s) 3,35 997 Total 3,423 8 12 110 (s) (s) 3,35 997 Total 3,423 8 12				_				
383 Total 3.494 2 2 129 0 (s) 3.262 384 Total 2.3353 5 4 165 (s) (s) 3.55 385 Total 2.3353 5 7 198 (s) (s) (s) 3.57 386 Total 2.4602 8 7 219 (s) (s) (s) 2.52 387 Total 2.2602 8 7 219 (s) (s) (s) 2.53 388 Total 2.262 10 10 157 (s) (s) 2.53 380 Total 2.2764 10 10 157 (s) (s) 2.53 393 Total 2.2774 9 11 158 (s) (s) 2.45 393 Total 2.4749 8 13 115 (s) (s) 3.77 395 Total 3.455 7 10 99 (s) (s) 3.77 395 Total 3.423 8 12 110 (s) (s) 3.45 399 Janua				-				
984 Total 3.353 5 4 165 (s) (s) 3.25 986 Total 3.038 5 7 219 (s) (s) (s) 3.15 986 Total 2.402 8 7 229 (s) (s) (s) 2.444 986 Total 2.202 10 8 217 (s) (s) 2.438 986 Total 2.202 10 8 217 (s) (s) (s) 2.444 980 Total 2.2423 8 14 170 (s) (s) 3.15 990 Total 2.2923 8 14 170 (s) (s) 2.985 990 Total 2.2921 8 13 165 (s) (s) 2.925 990 Total 3.423 8 12 110 (s) (s) 3.55 990 Total 3.423 8 12 110 (s) (s) 3.55 990 Total 3.55 7 14 109 (s) (s) 2.92 990 To							NA	3,341
288 Total 2.937 8 7 198 (a) (a) 3.16 888 Total 2.602 8 7 229 (a) (a) 2.243 888 Total 2.302 10 8 7 229 (a) (a) 2.243 888 Total 2.302 10 8 217 (a) (a) 2.243 989 Total 2.765 10 10 197 (a) (a) 2.352 990 Total 2.948 8 13 161 (a) (a) 3.111 990 Total 2.9474 8 13 145 (a) (a) 2.453 980 Total 2.774 9 11 158 (a) (a) 3.177 980 Total 3.0455 7 10 99 (a) (a) 3.67 980 Total 3.0423 8 12 110 (a) (a) 3.67 980 Total 3.055 7 14 109 (a) (a) 3.67 980 Total 3.057 <	983 Total	3,494		2	129	0	(s)	3,627
386 Total 3.038 5 7 219 (s) (s) 3.27 387 Total 2.602 8 7 229 (s) (s) 2.327 388 Total 2.302 10 8 217 (s) (s) 2.548 388 Total 2.765 10 10 197 (s) (s) 2.539 390 Total 2.948 8 13 181 (s) (s) 3.151 397 Total 2.521 8 13 169 (s) (s) 2.277 383 Total 2.574 8 13 155 (s) (s) 2.277 398 Total 3.425 8 12 10 (s) (s) 2.66 2.717 398 Total 3.425 8 12 10 (s) (s) 3.67 399 Total 3.425 8 12 10 (s) (s) 3.67 399 January 266 1 1 9 (s) (s) 3.22 99 January 265 1 </td <td>984 Total</td> <td>3,353</td> <td>5</td> <td>4</td> <td>165</td> <td>(s)</td> <td>(s)</td> <td>3,527</td>	984 Total	3,353	5	4	165	(s)	(s)	3,527
986 Total 3,038 5 7 219 (s) (s) (s) 3,27 987 Total 2,602 8 7 229 (s) (s) (s) 2,488 988 Total 2,765 10 10 197 (s) (s) (s) 2,539 990 Total 2,948 8 13 181 (s) (s) 3,151 197 Total 2,923 8 14 170 (s) (s) 2,531 197 Total 2,521 8 13 169 (s) (s) 2,271 198 Total 2,566 7 10 145 (s) (s) 2,271 198 Total 3,423 8 12 10 (s) (s) 3,372 198 Total 3,423 8 12 10 (s) (s) 3,372 198 Total 3,423 8 12 10 (s) (s) (s) 3,57 1311 (s) 1 109 (s) (s) 3,52 140	985 Total	2,937		7	198	(s)	(s)	3,150
187 Total 2.602 8 7 229 (s) (s) 2.44 10 8 217 (s) (s) 2.532 100 10 197 (s) (s) 2.532 100 10 197 (s) (s) 2.943 100 10 197 (s) (s) 3.11 101 2.944 8 13 1469 (s) (s) 2.943 101 101 197 (s) (s) (s) 2.943 3.111 101 2.952 1 1.553 8 12 110 (s) (s) 2.957 102 103 1.56 (s) (s) (s) 3.167 3.165 7 14 109 (s) (s) 3.27 1037 101 1 7 (s) (s) 3.27 3.67 3.67 3.67 3.67 3.67 3.67 3.67 3.67 3.67 3.67 3.67 3.67 3.67 3.67 3.67 3.67 3.67				7				3,270
biss Total 2.302 10 8 277 (s) (s) 2.53 biss Total 2.765 10 10 197 (s) (s) 2.93 biss Total 2.948 8 13 181 (s) (s) 3.161 biss Total 2.521 8 13 169 (s) (s) 2.93 biss Total 2.521 8 13 145 (s) (s) 2.93 biss Total 2.549 8 13 145 (s) (s) 2.95 biss Total 3.456 7 10 99 (s) (s) 3.17 biss Total 3.423 8 12 110 (s) (s) 3.457 biss Total 3.455 8 13 115 (s) (s) 3.457 biss Total 3.455 7 14 109 (s) (s) 3.457 biss Total 3.115 (s) (s) (s) (s) 3.467 biss Total 3.111 (s) (s				7				2,846
b89 Total 2,765 10 10 197 (s) (s) 2,948 b91 Total 2,923 8 14 170 (s) (s) (s) 3,151 b91 Total 2,923 8 14 170 (s) (s) (s) 2,171 b93 Total 2,774 9 11 158 (s) (s) 2,271 b93 Total 2,774 9 11 158 (s) (s) 2,271 b94 Total 3,056 7 10 99 (s) (s) 2,353 b95 Total 3,653 8 12 110 (s) (s) 3,65 b95 Total 3,555 8 13 115 (s) (s) 3,65 b95 Total 3,195 7 14 109 (s) (s) 2,82 b95 Total 3,195 7 14 109 (s) (s) (s) 2,92 fberoary 278 1 1 9 (s) (s) 2,92 pay January				-				2,536
990 Total 2,948 8 13 181 (s) (s) 3,11 991 Total 2,223 8 14 170 (s) (s) 3,111 992 Total 2,221 8 13 169 (s) (s) 2,311 992 Total 2,274 9 11 158 (s) (s) 2,255 993 Total 2,274 9 11 158 (s) (s) 2,255 995 Total 3,405 7 10 99 (s) (s) 3,477 995 Total 3,423 8 12 110 (s) (s) 3,467 999 Total 3,195 7 14 109 (s) (s) 3,467 999 January 286 1 1 7 (s) (s) 28 April 285 1 1 7 (s) (s) 28 June 296 1 1 (s) (s) 28 29 July 288 1 1 (s) <	989 Total							
991 Total 2,923 8 14 170 (s) (s) 3,11 992 Total 2,521 8 13 169 (s) (s) 2,271 993 Total 2,774 9 11 158 (s) (s) 2,241 994 Total 3,056 7 10 99 (s) (s) (s) 2,71 995 Total 3,423 8 12 110 (s) (s) (s) 3,55 997 Total 3,535 8 13 115 (s) (s) (s) 3,355 998 Total 3,535 8 13 115 (s) (s) 2,82 999 January 286 1 1 9 (s) (s) 2,82 June 296 1 1 (s) (s) (s) 2,82 2,92 August 250 1 1 (s) (s) (s) 2,92 August 250 1 1 (s) (s) (s) 2,92 August								
992 Total 2,521 8 13 169 (s) (s) (s) 2,774 993 Total 2,574 9 11 158 (s) (s) (s) 2,549 994 Total 2,549 8 13 145 (s) (s) (s) 2,549 995 Total 3,056 7 10 99 (s) (s) 3,177 996 Total 3,535 8 12 110 (s) (s) 3,537 998 Total 3,195 7 14 109 (s) (s) 3,322 999 Jouany 286 1 1 9 (s) (s) 3,322 April 286 1 1 8 (s) (s) 3,322 April 286 1 1 (s) (s) (s) 28 3,322 April 286 1 1 (s) (s) (s) 3,322 April 286 1 1 (s) (s) (s) 293 Juhe <t< td=""><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></t<>								
993 Total 2,774 9 11 158 (s) (s) 2,93 994 Total 3,056 7 10 99 (s) (s) 3,175 995 Total 3,423 8 12 110 (s) (s) (s) 3,535 995 Total 3,535 8 13 115 (s) (s) (s) 3,537 999 January 286 1 1 9 (s) (s) (s) 287 999 January 286 1 1 7 (s) (s) (s) 282 March 311 (s) 1 8 (s) (s) 282 June 286 1 1 (s) (s) (s) 29 July 288 1 1 (s) (s) (s) 28 29 June 296 1 1 (s) (s) (s) 29 29 July 288 1 1 (s) (s) (s) 29 24								
994 Total 2,549 8 13 145 (s) (s) (s) 2,74 996 Total 3,056 7 10 99 (s) (s) (s) 3,55 997 Total 3,635 8 13 115 (s) (s) (s) 3,56 997 Total 3,535 8 13 115 (s) (s) 3,67 999 January 286 1 1 9 (s) (s) 3,67 999 January 286 1 1 7 (s) (s) 3,67 999 January 286 1 1 7 (s) (s) 3,22 April 265 1 1 9 (s) (s) 28 28 June 296 1 1 (s) (s) (s) 28 29 August 250 1 1 (s) (s) (s) (s) 26 July 288 1 1 (s) (s) (s) 26 26 <								
995 Total 3,056 7 10 99 (s) (s) 3,17 996 Total 3,423 8 12 110 (s) (s) 3,37 998 Total 3,535 8 13 115 (s) (s) 3,67 998 Total 3,195 7 14 109 (s) (s) 3,32 999 January 2266 1 1 7 (s) (s) 29 March 311 (s) 1 8 (s) (s) 29 March 2265 1 1 9 (s) (s) 28 29 June 2266 1 1 (s) (s) (s) (s) 28 29 July 288 1 1 (s) (s) (s) (s) 29 July 288 1 1 (s) (s) (s) 29 July 288 1 1 (s) (s) (s) 29 July 286 1								
996 Total 3,423 8 12 110 (s) (s) (s) 3,55 997 Total 3,555 8 13 115 (s) (s) (s) 3,67 998 Total 3,195 7 14 109 (s) (s) (s) 3,32 999 January 286 1 1 9 (s) (s) 28 29 April 285 1 1 7 (s) (s) 28 22 April 286 1 1 (s) (s) (s) 28 29 June 296 1 1 (s) (s) (s) 28 29 July 286 1 1 (s) (s) (s) 29 August 250 1 1 (s) (s) (s) 20 November 203 1 1 (s) (s) (s) 29 Docatober 244 1 1 (s) (s) 29 20 Doca								
397 Total 3,535 8 13 115 (s) (s) (s) 3,77 998 Total 3,195 7 14 109 (s) (s) (s) 3,322 999 January 286 1 1 9 (s) (s) 28 (s) 28 March 311 (s) 1 8 (s) (s) 28 March 311 (s) 1 8 (s) (s) 28 June 286 1 1 (s) (s) (s) 29 July 288 1 1 (s) (s) (s) 29 July 288 1 1 (s) (s) (s) 29 August 250 1 1 (s) (s) (s) 20 20 October 193 (s) 1 (s) (s) 20 20 20 20 20 20 20 20 20 20 20 20 20 20 20 20<							(s)	
998 Total 3,195 7 14 109 (s) (s) (s) 3,32 999 January 276 1 1 9 (s) (s) 28 29 February 276 1 1 7 (s) (s) 28 28 April 265 1 1 9 (s) (s) 28 22 June 286 1 1 (s) (s) (s) 28 28 June 296 1 1 (s) (s) (s) 28 29 August 250 1 1 (s) (s) (s) 29 August 250 1 1 (s) (s) (s) (s) 20 October 193 (s) 1 (s) (s) (s) 20 20 October 204 1 1 (s) (s) (s) (s) 21 Objanuary 241 (s) 1 (s) (s) (s) 20 <td>996 Total</td> <td>3,423</td> <td>8</td> <td>12</td> <td>110</td> <td>(s)</td> <td>(s)</td> <td>3,553</td>	996 Total	3,423	8	12	110	(s)	(s)	3,553
998 Total 3,195 7 14 109 (s) (s) (s) 3,32 999 January 276 1 1 7 (s) (s) (s) 28 299 February 276 1 1 7 (s) (s) (s) 28 28 28 28 28 28 28 28 28 28 28 28 28 28 28 28 28 299 288 1 1 (s) (s) (s) 28 299 201 1 (s) (s) (s) 28 299 203 1 1 (s) (s) (s) 28 299 200 206 1 1 (s) (s) (s) 200 201 1 (s)	997 Total	3,535	8	13	115	(s)	(s)	3,670
February278117(s)(s)28March311(s)18(s)(s)32April265119(s)(s)32May28211(s)(s)(s)(s)June29611(s)(s)(s)28July28811(s)(s)(s)(s)August25011(s)(s)(s)29August25011(s)(s)(s)29August20311(s)(s)(s)29November20611(s)(s)(s)24Total3,10371436(s)(s)24Total3,10371436(s)(s)24Total3,10371436(s)(s)24March \mathbb{R}_{254} 11(s)(s)(s)24March \mathbb{R}_{254} 11(s)(s)24March \mathbb{R}_{254} 11(s)(s)(s)24Jule23911(s)(s)(s)24July22911(s)(s)(s)24July22911(s)(s)(s)14July22911(s)(s)(3,195	7	14	109	(s)	(s)	3,325
February 278 1 1 7 (s) (s) 28 March 311 (s) 1 8 (s) (s) 32 April 265 1 1 9 (s) (s) 32 May 282 1 1 (s) (s) (s) (s) June 296 1 1 (s) (s) (s) (s) 28 Juny 288 1 1 (s) (s) (s) (s) 29 August 250 1 1 (s) (s) (s) 20 20 August 250 1 1 (s) (s) (s) 5 20 October 133 (s) 1 (s) (s) (s) 19 November 206 1 1 (s) (s) (s) 24 Total 3,103 7 14 36 (s) (s) 24 March R 254 1 1 (s)	999 January	286	1	1	9	(s)	(s)	297
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$		278	1	1	7	(s)	(s)	287
April 265 1 1 9 (s) (s) 27 May 282 1 1 (s) (s) (s) (s) 28 27 June 296 1 1 (s) (s) (s) (s) (s) (s) 28 296 1 1 (s) (s) (s) (s) 299 July 288 1 1 (s) (s) (s) (s) (s) (s) 299 August 250 1 1 (s) (s) (s) (s) 200 October 193 (s) 1 (s) (s) (s) (s) 200 200 December 204 1 1 (s) (s) (s) (s) (s) (s) 20 200 200 200 200 201 201 201 201 201 201 201 201 201 201 201 201 201 201 201 201 201 201 201 20				1				
May 282 1 1 (s) (s) (s) (s) 28 June 296 1 1 (s) (s) (s) (s) 29 August 250 1 1 (s) (s) (s) (s) 29 August 250 1 1 (s) (s) (s) 29 August 250 1 1 (s) (s) (s) 20 October 193 (s) 1 (s) (s) (s) (s) 20 November 206 1 1 (s) (s) (s) (s) 24 Total 3,103 7 14 36 (s) (s) 24 February 241 (s) 1 (s) (s) (s) 24 March R 254 1 1 (s) (s) (s) 25 April R 261 1 1 (s) (s) (s) 24 July 229 1 <				1				
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$			•	1				
July 288 1 1 (s) (s) (s) 29 August 250 1 1 (s) (s) (s) 20 September 203 1 1 (s) (s) (s) 20 October 193 (s) 1 (s) (s) (s) (s) 20 November 206 1 1 (s) (s) (s) (s) 20 December 244 1 1 (s) (s) (s) (s) 24 Total 3,103 7 14 36 (s) (s) 24 Total 3,103 7 14 36 (s) (s) 24 Total 3,103 7 14 36 (s) (s) 25 April 214 1 1 (s) (s) (s) 25 April R 254 1 1 (s) (s) (s) 25 April R 271 1 1 (s)				1				
August 250 1								
September 203 1 1 (s) (s) (s) (s) (s) 20 October 193 (s) 1 1 (s) (s) (s) (s) 193 November 206 1 1 (s) (s) (s) (s) (s) 20 December 244 1 1 (s) (s) (s) (s) 24 Total 3,103 7 14 36 (s) (s) 24 Total 3,103 7 14 36 (s) (s) 24 Total 3,103 7 14 36 (s) (s) 3,15 000 January 241 (s) 1 (s) (s) (s) (s) 3,15 000 January R 271 1 1 (s) (s) (s) (s) (s) 20 March R 271 1 1 (s) (s) (s) (s) 20 20 239 1 1 (s) (s)				1				
October 193 (s) 1 (s) 199 November 206 1 1 (s) (s) (s) (s) 200 December 244 1 1 (s) (s) (s) (s) 200 Jong 244 1 1 (s) (s) <th< td=""><td></td><td></td><td></td><td>1</td><td></td><td></td><td></td><td></td></th<>				1				
November 206 1 1 (s) (s) <th< td=""><td>September</td><td></td><td>1</td><td>1</td><td>(s)</td><td>(s)</td><td>(s)</td><td>205</td></th<>	September		1	1	(s)	(s)	(s)	205
December 244 1 1 (s) (s) (s) (s) 24 Total 3,103 7 14 36 (s) (s) 3,15 000 January 241 (s) 1 (s) (s) (s) (s) (s) 24 February 214 1 1 (s) (s) (s) (s) (s) 24 March R 254 1 1 (s) (s) (s) (s) (s) 25 April R 254 1 1 (s) (s) (s) (s) 25 27 March R 261 1 1 (s) (s) (s) (s) 29 24 June 239 1 1 (s) (s) (s) (s) 29 24 July 229 1 1 (s) (s) (s) (s) 21 September 169 1 1 (s) (s) (s) (s) 17 October 182	October	193	(s)	1	(s)	(s)	(s)	195
December 244 1 1 (s) (s) (s) 24 Total 3,103 7 14 36 (s) (s) (s) 24 100 January 241 (s) 1 (s) (s) (s) (s) (s) (s) (s) <td>November</td> <td>206</td> <td></td> <td>1</td> <td>(s)</td> <td>(s)</td> <td>(s)</td> <td>208</td>	November	206		1	(s)	(s)	(s)	208
Total 3,103 7 14 36 (s) (s) 3,153 000 January 241 (s) 1 (s) (s) (s) 24 February 214 1 1 (s) (s) (s) (s) 24 March $R 254$ 1 1 (s) (s) (s) (s) 25 April $R 271$ 1 1 (s) (s) (s) 27 May $R 261$ 1 1 (s) (s) (s) 27 June 239 1 1 (s) (s) (s) 22 July 229 1 1 (s) (s) (s) 23 August 209 1 1 (s) (s) (s) (s) 17 October 163 1 1 (s) (s) (s) (s) 18 December 187 1 1 (s) (s) (s) R 2,64 November 187 1			1	1				246
February21411(s)(s)(s)(s)21MarchR 254111(s)(s)(s)25AprilR 27111(s)(s)(s)25MayR 26111(s)(s)(s)26June23911(s)(s)(s)26July22911(s)(s)(s)23August20911(s)(s)(s)21September16911(s)(s)(s)17October16311(s)(s)(s)18December18211(s)(s)(s)18TotalR 2,6197R 143(s)(s)R 2,64D01 JanuaryR 17611rF(s)F(s)F 19MarchF 236F 1F 1F (s)F (s)F (s)F 19MarchF 236F 1F 1F (s)F (s)F (s)E 613-Month TotalE 610E 2E 3E (s)E (s)E 61			7	14				3,159
February21411(s)(s)(s)(s)21/MarchR 254111(s)(s)(s)25/AprilR 27111(s)(s)(s)25/MayR 26111(s)(s)(s)26/June23911(s)(s)(s)26/July22911(s)(s)(s)23August20911(s)(s)(s)21September16911(s)(s)(s)17October16311(s)(s)(s)18December18211(s)(s)(s)18TotalR 2,6197R 143(s)(s)R 2,64V01 JanuaryR 17611F (s)F (s)F (s)F 19MarchF 236F 1F 1F (s)F (s)F (s)F 19MarchF 236F 1F 1F (s)F (s)F (s)E 613-Month TotalE 610E 2E 3E (s)E (s)E 61	000 January	241	(s)	1	(s)	(s)	(s)	243
March R 254 1 1 (s) (s) (s) (s) 25 April R 271 1 1 1 (s) (s) (s) (s) 25 May R 261 1 1 1 (s) (s) (s) (s) 25 May R 261 1 1 (s) (s) (s) (s) 26 June 239 1 1 (s) (s) (s) (s) 24 July 229 1 1 (s) (s) (s) (s) (s) 23 August 209 1 1 (s) (s) (s) (s) (s) (s) 23 23 August 209 1 1 (s) 23 23 August 209 1 1 (s) (s) (s) (s) (s) (s) 17 October 182 1 <td></td> <td></td> <td></td> <td>1</td> <td></td> <td></td> <td></td> <td>216</td>				1				216
April R 271 1<				1				256
May R 261 1 1 (s) (s) (s) (s) 26 June 239 1 1 (s) (s) (s) (s) 24 July 229 1 1 (s) (s) (s) (s) 23 August 209 1 1 (s) (s) (s) 23 September 169 1 1 (s) (s) (s) (s) 17 October 163 1 1 (s) (s) (s) (s) 17 October 182 1 1 (s) (s) (s) (s) 18 December 187 1 1 (s) (s) (s) (s) 18 Total R 2,619 7 R 14 3 (s) (s) R 2,64 001 January R 1,610 1 1 (s) (s) F (s) F (s) F (s) F (s) F 19 March F 236 F 1 <td< td=""><td></td><td></td><td>1</td><td>1</td><td></td><td></td><td></td><td>273</td></td<>			1	1				273
June239111(s)(s)(s)(s)24July229111(s)(s)(s)23August20911(s)(s)(s)23September16911(s)(s)(s)21October16311(s)(s)(s)17October18211(s)(s)(s)18December18711(s)(s)(s)18TotalR2,6197R143(s)(s)R001JanuaryR17611(s)(s)(s)R2,64001JanuaryF197F1FF(s)F(s)F199MarchF236F1FF(s)F(s)F199MarchF236FFFF(s)F(s)F233-Month TotalE610EEE3E(s)E(s)E61			1	1				
July22911(s)(s)(s)(s)23August209111(s)(s)(s)21September16911(s)(s)(s)(s)17October16311(s)(s)(s)(s)17November18211(s)(s)(s)(s)18December18711(s)(s)(s)(s)18TotalR2,6197R143(s)(s)R2,64101 JanuaryR17611(s)(s)F(s)F(s)F19MarchF236F1F1F1F(s)F(s)F(s)F233-Month TotalE 610E 2E 3E (s)E (s)E (s)E 610			1	1				
August209111(s)(s)(s)(s)21September169111(s)(s)(s)17October16311(s)(s)(s)(s)17November18211(s)(s)(s)18December18711(s)(s)(s)18TotalR 2,6197R 143(s)(s)R 2,64101 JanuaryR 17611(s)(s)(s)R 2,64101 JanuaryF 197F 1F 1F (s)F (s)F (s)F 19MarchF 236F 1F 1F (s)F (s)F (s)F 19MarchF 236F 1F 1F (s)F (s)F (s)F 233-Month TotalE 610E 2E 3E (s)E (s)E 61			1	1				
September 169 1 1 (s) (s) (s) (s) 17 October 163 1 1 (s) (s) (s) (s) 17 November 182 1 1 (s) (s) (s) (s) 18 December 187 1 1 (s) (s) (s) (s) 18 Total R 2,619 7 R 14 3 (s) (s) R 2,64 101 January R 1,61 1 (s) (s) (s) R 2,64 101 January R 1,76 1 1 (s) (s) (s) R 2,64 101 January F 197 F F 1 F (s) F (s) R 2,64 101 January F 197 F 1 F (s) F (s) F 19 March F F 1 F 1			1	1				
October 163 1 1 (s) (s) (s) r			1	1				211
November 182 1 1 (s) (s) (s) (s) 18 December 187 1 1 (s) (s) (s) (s) 18 Total R2,619 7 R14 3 (s) (s) (s) R2,64 101 January R176 1 1 (s) (s) (s) R17 February F197 F1 F1 F(s) F(s) F(s) F19 March F236 F1 F1 F(s) F(s) F(s) F23 3-Month Total E 610 E 2 E 3 E (s) E (s) E (s) E 61				1				_ 171
December 187 1 1 1 (s) (s) (s) (s) 187 Total R 2,619 7 R 14 3 (s) (s) (s) R 2,64 101 January R 176 1 1 (s) (s) (s) (s) R 2,64 101 January R 176 1 1 (s) (s) (s) R 176 101 January F 197 F 1 F 1 F (s) F (s) F (s) F (s) F (s) F (s) F 197 March F 236 F 1 F 1 F (s) F (s) F (s) F (s) F (s) F (s) F 233 3-Month Total E 610 E 2 E 3 E (s) E (s) E 610		163	1	1	(s)	(s)	(s)	^R 166
December 187 1 1 1 (s) (s) (s) (s) 187 Total R 2,619 7 R 14 3 (s) (s) (s) R 2,64 101 January R 176 1 1 (s) (s) (s) (s) R 2,64 101 January R 176 1 1 (s) (s) (s) R 176 101 January F 197 F 1 F 1 F (s) F (s) F (s) F (s) F (s) F (s) F 197 March F 236 F 1 F 1 F (s) F (s) F (s) F (s) F (s) F (s) F 233 3-Month Total E 610 E 2 E 3 E (s) E (s) E 610	November	182	1	1	(s)	(s)	(s)	184
Total R 2,619 7 R 14 3 (s) (s) R 2,64 01 January R 176 1 1 (s) (s) (s) R 177 February F 197 F 1 F 1 F (s) F (s			1					189
February F197 F1 F1 F(s) F(s) F(s) F199 March F236 F1 F1 F(s) F(s) F(s) F(s) F23 3-Month Total E 610 E 2 E 3 E (s) E (s) E (s) E (s) E (s)		R 2,619			3	(s)		R 2,644
February F197 F1 F1 F(s) F(s) F(s) F199 March F236 F1 F1 F(s) F(s) F(s) F(s) F233 3-Month Total E 610 E 2 E 3 E (s) E (s) E (s) E (s) E (s)	001 January	^R 176	1	1	(s)	(s)	(s)	^R 179
3-Month Total E 610 E 2 E 3 E (s) E (s) E (s) E (s) E 610	February		F1	F 1	F(S)	F(s)	F(S)	F 199
3-Month Total E 610 E 2 E 3 E (s) E (s) E (s) E (s) E 610	March			F 1	F (s)	F (s)	F (s)	F 238
					E (S)	E (S)	⊑ (s)	E 616
100 2 Month Tell 07C 2 2 1 (5) (1)	00 3-Month Total	708	2	4		(s)	(5)	715
		876	2	3	24	(3)		905

^a Through 1989, includes hydroelectricity generated by both conventional and pumped storage facilities; from 1990, includes only conventional hydroelectric

generation. ^b Wood, wood waste, black liquor, red liquor, spent sulfite liquor, wood sludge, peat, railroad ties, and utility poles. ^c Municipal solid waste, landfill gas, methane, digester gas, liquid acetonitrile

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

^d Geothermal electricity net generation.

e f Solar thermal and photovoltaic electricity net generation.

f Wind electricity net generation. R=Revised. NA=Not available. E=Estimate. F=Forecast. (s)=Less than 0.5 trillion Btu.

Notes: Totals may not equal sum of components due to independent unding. Geographic coverage is the 50 states and the District of Columbia. Sources: Tables 7.3 and A6. rounding.

Table E3b. Renewable Energy Consumption by the Electric Power Sector (Trillion Btu)

	Electric Power Sector												
			Nonutili	ty Power Pro	ducersa				Electrici	ty Trade ^b	Electric		
	Hydro-			Geo-				Hydroj	power ^c	Geo- thermal Imports	Total Net Imports	Power	
	power ^c	Wood ^d	Wastee	thermal ^f	Solar ^g	Wind ^h	Total	Imports	Exports			Total	
1973 Total	35	NA	NA	NA	NA	NA	35	175	27	(ⁱ)	148	3,056	
1974 Total	33	NA	NA	NA	NA	NA	33	161	28	(¦)	133	3,365	
1975 Total	32	NA	NA	NA	NA	NA	32	117	53	(')	64	3,291	
1976 Total	33	NA	NA	NA	NA	NA	33	114	25	(')	89	3,146	
1977 Total	33	NA	NA	NA	NA	NA	33	210	29	()	182	2,597	
1978 Total	32	NA	NA	NA	NA	NA	32	220	15	()	204	3,209	
1979 Total	_ 34	NA	NA	NA	NA	NA	_ 34	233	23	()	211	3,230	
1980 Total	^E 33 ^E 33	NA	NA	NA	NA	NA	^E 33 ^E 33	260	43		217	3,232	
1981 Total	= 33 = 33	NA	NA	NA	NA	NA	= 33 = 33	379	32 37		347	3,232	
1982 Total	-33 ⊑33	NA NA	NA NA	NA NA	NA NA	NA NA	-33 ⊑33	343 407	37	8	306 372	3,680 4,032	
1983 Total 1984 Total	= 33 E 33	NA	NA	NA	NA	NA	= 33 E 33	407	27		414	3,974	
1985 Total	-33 ⊑33	NA	NA	NA	NA	NA	= 33 E 33	441	52	<u>}i</u> {	414	3,974	
1986 Total	53	NA	NA	NA	NA	NA	E 33	425	50	213	375	3,678	
1987 Total	⊑33	NA	NA	NA	NA	NA	[⊑] 33	544	61	213	483	3,362	
1988 Total	E 33	NA	NA	NA	NA	NA	[⊑] 33	401	73	(1)	328	2,897	
1989 Total	90	279	94	117	6	24	609	200	40	<u>`</u> 11	171	3,763	
1990 Total	100	308	124	152	7	32	722	99	(s)	11	110	3,982	
1991 Total	99	338	151	167	8	32	794	138	(s)	15	153	4,061	
1992 Total	97	360	171	174	7	30	838	201	(s)	19	219	3,769	
1993 Total	117	370	180	198	9	31	905	238	11	18	246	4,104	
1994 Total	135	382	184	205	8	36	951	309	(s)	27	337	4,002	
1995 Total	151	369	199	201	8	33	960	291	17	19	293	4,426	
1996 Total	169	372	202	207	9	35	994	306	7	14	313	4,861	
1997 Total	183	347	200	191	9	33	963	281	37	(s)	244	4,877	
1998 Total	150	321	207	201	9	31	918	269	46	1	225	4,468	
1999 January	13	35	23	^R 15	(s)	2	^R 88	^j 14	j8	J(s)	E 6	^R 391	
February	17	28	21	^R 13	(s)	2	^R 83	113	j7	l(s)	E 6	^R 376	
March	18	31	22	^R 15	(s)	3	^R 89	¹ 16	¹¹⁰	l(s)	E7	^R 417	
April	19	30	23	^R 13	(s)	4	^R 90	J25	J7	l(s)	E 18	^R 384	
May	17	30	23	R 23	1	6	^R 101	^j 25	^j 6	l(s)	E 18	^R 403	
June	13	30	23	^R 27 ^R 29	1	6	^R 100 ^R 107	J23 J23	15 15	J(s)	^E 18 ^E 19	^R 417 ^R 416	
July	13	34 33	23 23	R 30	1	6 5	R 107 R 105	j23 j23	j3	J(s)	E 20	R 377	
August	12	33 39	23	R 29	1	5 4	^R 105	j23 j30	j3	J(s)	= 20 E 27	R 339	
September	13 14	39	22	R 30	1	4	^R 107	j30	j3 j7	^J (s) ^J (s)	E 23	R 319	
November	13	30	20	R 28	(s)	2	R 95	j30	j5	j(s)	E 25	R 327	
December	37	30	23	^R 28	(S)	3	^R 121	^j 27	,3 j7	j(s)	E 21	R 388	
Total	202	382	267	R 280	9	46	^R 1,186	280	73	^{,(3)}	208	^R 4,553	
	Roo	05	00	05	(-)			io	io	0	For		
2000 January	^R 23 ^R 19	35	20	25	(s)	4	^R 107 ^R 98	J24	13	0	^E 21 ^E 24	^R 371 ^R 337	
February	^R 23	33 34	19 20	22 22	(s) 1	4 4	^R 105	^J 26 ^J 24	j2 j4	0	E 24	^R 337	
March	R 25	34 33	20 20	22	1	4 5	^R 105	j24 j24	j4 j5	0	= 20 = 20	R 398	
April May	^R 24	33	20	23 24	1	5	^R 105	^j 24	j5 j5	0	E 23	^R 391	
June	R 23	33	20	24 24	1	5 4	^R 105	j28 j30	j6	0	= 23 E 24	R 369	
July	R 22	36	20	24	1	4	R 104	j34	jo j7	0	E 27	R 368	
August	R 23	34	21	26	1	4	^R 108	j45	j4	0	E 41	^R 361	
September	R 22	33	20	25	1	4	^R 105	j ₂₉	j4	Ő	E 25	^R 301	
October	R 20	34	20	26	1	5	^R 105	^j 17	j4	ŏ	E 13	^R 284	
November	^R 19	33	20	26	1	4	R 103	^j 23	j4	Õ	E 19	R 306	
December	^R 21	33	20	27	(s)	4	^R 105	j22	^j 12	0	E 10	^R 304	
Total	R 264	401	240	295	9	51	^R 1,260	325	59	Ō	266	^R 4,170	
2001 January	^R 18	39	^R 25	^R 27	^R (s)	4	^R 112	^j 22	j7	0	^E 15	^R 306	
February	<u> </u> 16	F 35	F 21	F 23	F (s) F 1	<u>F</u> 4	_ ^F 99	^j 21	^j 1,1	0	_ ^E 9	308	
March		_ ^F 38	F 23	F_23		_ ^F 4	F_106	^j 24	j3	0	^E 21	364	
3-Month Total	^E 50	E 111	^E 69	^E 74	E1	^E 12	E 317	66	21	0	^E 45	979	
2000 3-Month Total	66	102	59	69	1	12	309	73	8	0	^E 65	1,089	
1999 3-Month Total	49	94	66	43	1	7	260	44	25	0	⊑19	1,184	

^a Includes the portion of nonutility power producers' use of renewable energy to produce electricity; excludes the portion used to produce useful thermal output, which is included in "Industrial" on Table E2. ^b Through 1988, all electricity imports and exports are included in "Hydropower."

From 1989, includes only electricity imports and exports derived from hydroelectric power or geothermal energy. ^c Conventional hydroelectric power.

^d Wood, wood waste, black liquor, red liquor, spent sulfite liquor, wood sludge,

Wood, wood waste, black liquor, red liquor, spent sumte liquor, wood sludge, peat, railroad ties, and utility poles.
 Municipal solid waste, landfill gas, methane, digester gas, liquid acetonitrile waste, tall oil, waste alcohol, medical waste, paper pellets, sludge waste, solid byproducts, tires, agricultural byproducts, closed loop biomass, fish oil, and straw.

^f Geothermal electricity net generation.

^g Solar thermal and photovoltaic electricity net generation.

ň Wind electricity net generation. Included in "Hydropower Imports."

^j 1999 and 2000 monthly data are estimated by allocating the annual values into the months in proportion to each month's share of the year's total electricity imports or exports (see Table 7.1). Monthly 2001 estimates use the 2000 shares. R=Revised. NA=Not available. E=Estimate. F=Forecast. (s)=Less than 0.5

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

Sources for Table E2

Wood, Residential

1973-1979—Energy Information Administration (EIA), *Estimates of U.S. Wood Energy Consumption from 1949* to 1981, Table A2.

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

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

1985 and 1986-Values interpolated.

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

1988—Value interpolated.

1989—EIA, Estimates of U.S. Biofuels Consumption 1990, Table 1.

1990-1993—EIA, *Renewable Energy Annual 1995*, Table 6.

1994-1997—EIA, *Renewable Energy Annual 1999*, Table 6.

1998 forward—EIA, Office of Coal, Nuclear, Electric and Alternate Fuels (CNEAF), estimates.

Wood, Commercial

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

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

1984-EIA, CNEAF, estimate.

1985-1992-Values interpolated.

1993—EIA, Renewable Energy Annual 1995, Table 6. 1994-1996—EIA, Renewable Energy Annual 1999,

Table 6.

1997 forward-EIA, CNEAF, estimates.

Wood, Industrial

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

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

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

1985 and 1986-Values interpolated.

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

1988—Value interpolated.

1989—American Paper Institute, *Fact Sheet on 1990 Energy Use in the U.S. Pulp and Paper Industry* (July 1991), total pulp and paper industry wood consumption, minus nonutility power producers' use of wood to produce electricity (see Table E3b).

1990-1993—EIA, *Renewable Energy Annual 1995*, Table 6, total industrial wood consumption, minus nonutility power producers' use of wood to produce electricity (see Table E3b).

1994-1998—EIA, *Renewable Energy Annual 1999*, Table 6, total industrial wood consumption, minus nonutility power producers' use of wood to produce electricity (see Table E3b).

1999 forward-EIA, CNEAF, estimates for total indus-

trial wood consumption, minus nonutility power producers' use of wood to produce electricity (see Table E3b).

Waste, Industrial

1981—EIA, *Estimates of U.S. Biofuels Consumption* 1990, Table 8, total waste consumption, minus electric utilities' use of waste to produce electricity (see Table E3a).

1982 and 1983—EIA, CNEAF, estimates for total waste consumption, minus electric utilities' use of waste to produce electricity (see Table E3a).

1984—EIA, *Estimates of U.S. Biofuels Consumption* 1990, Table 8, total waste consumption, minus electric utilities' use of waste to produce electricity (see Table E3a).

1985 and 1986-Values interpolated.

1987—EIA, *Estimates of U.S. Biofuels Consumption* 1990, Table 8, total waste consumption, minus electric utilities' use of waste to produce electricity (see Table E3a).

1988—Value interpolated.

1989—EIA, *Estimates of U.S. Biofuels Consumption* 1990, Table 8, total waste consumption, minus electric utilities' and nonutility power producers' use of waste to produce electricity (see Tables E3a and E3b).

1990-1993—EIA, *Renewable Energy Annual 1995*, Table 6, total waste consumption, minus electric utilities' and nonutility power producers' use of waste to produce electricity (see Tables E3a and E3b).

1994-1997—EIA, *Renewable Energy Annual 1999*, Table 6, total waste consumption, minus electric utilities' and nonutility power producers' use of waste to produce electricity (see Tables E3a and E3b).

1998 forward—EIA, CNEAF, estimates for total waste consumption, minus electric utilities' and nonutility power producers' use of waste to produce electricity (see Tables E3a and E3b).

Alcohol Fuels

1981—EIA, Estimates of U.S. Biofuels Consumption 1990, Table 10.

1982 and 1983-EIA, CNEAF, estimates.

1984—EIA, Estimates of U.S. Biofuels Consumption 1990, Table 10.

1985 and 1986-Values interpolated.

1987—EIA, Estimates of U.S. Biofuels Consumption 1990, Table 10.

1988—Value interpolated.

1989—EIA, Estimates of U.S. Biofuels Consumption 1990, Table 10.

1990—EIA, Estimates of U.S. Biomass Energy Consumption 1992, Table D1.

1991—Value interpolated.

1992—EIA, Estimates of U.S. Biomass Energy Consumption 1992, Table D1.

1993 forward—EIA, *Petroleum Supply Monthly*, Tables 2 and 28; and Table A1.

Geothermal

1989 forward—John Lund, Oregon Institute of Technology Geoheat Center, unpublished data.

Solar

1989-1991-EIA, CNEAF, estimates. 1992 and 1993—EIA Renewable Energy Annual 1997, Table 2. 1994-1998—EIA Renewable Energy Annual 1999, Table 2.

1999 forward—EIA, CNEAF, estimates.

Sources for Table E3b

Nonutility Power Producers, Hydropower

1973-1978—Federal Power Commission (FPC), Form FPC-4, "Monthly Power Plant Report," for plants with generating capacity exceeding 10 megawatts, and FPC, Form FPC-12C, "Industrial Electric Generating Capacity," for all other plants; and Table A6.

1979-FPC, Form FPC-4, "Monthly Power Plant Report," for plants with generating capacity exceeding 10 megawatts, and EIA estimates for all other plants; and Table A6.

1980-1988-Estimated by EIA as the average generation over the 6-year period of 1974-1979; and Table A6. 1989 forward—Tables 7.4 and A6.

Nonutility Power Producers, All Other Fuels

1989 forward—Tables 7.4 and A6.

Electricity Trade 1973-1988—Tables 7.1 and A6. 1989-1991—EIA, Office of Coal, Nuclear, Electric and Al-ternate Fuels (CNEAF), estimates. 1992 and 1993—EIA, *Renewable Energy Annual 1997*, Table 3 1994-1996—EIA, Renewable Energy Annual 1999, Table 1997 forward—EIA, CNEAF, estimates.

Glossary

Alcohol Fuels: See Fuel Ethanol.

Anthracite: The highest rank of coal. It is a hard, brittle, and black lustrous coal, often referred to as hard coal, containing a high percentage of fixed carbon and a low percentage of volatile matter. It is used primarily for residential and commercial space heating. The moisture content of fresh-mined anthracite generally is less than 15 percent. The heat content of anthracite ranges from 22 to 28 million Btu per ton on a moist, mineral-matter-free basis. The heat content of anthracite coal consumed in the United States averages 25 million Btu per ton, on the as-received basis (i.e., containing both inherent moisture and mineral matter). Note: Since the 1980s anthracite refuse or mine waste has been used for steam-electric power generation. This fuel typically has a heat content of 15 million Btu per ton or less.

Anthracite Culm: Waste from Pennsylvania anthracite preparation plants, consisting of coarse rock fragments containing as much as 30 percent small-sized coal; sometimes defined as including very fine coal particles called silt. Its heat value ranges from 8 to 17 million Btu per short ton.

Asphalt: A dark-brown-to-black cement-like material containing bitumens as the predominant constituents obtained by petroleum processing. The definition includes crude asphalt as well as the following finished products: cements, fluxes, the asphalt content of emulsions (exclusive of water), and petroleum distillates blended with asphalt to make cutback asphalts.

ASTM: The American Society for Testing and Materials.

Aviation Gasoline Blending Components: Naphthas that are used for blending or compounding into finished aviation gasoline (e.g., straight-run gasoline, alkylate, and reformate). Excludes oxygenates (alcohols and ethers), butane, and pentanes plus.

Aviation Gasoline, Finished: All special grades of gasoline used in aviation reciprocating engines, as given in ASTM Specification D910 and Military Specification MIL-G-5572. Excludes blending components that will be used in blending or compounding into finished aviation gasoline.

Barrel (Petroleum): A unit of volume equal to 42 U.S. gallons.

Base (Cushion) Gas: The volume of gas needed as a permanent inventory to maintain adequate underground storage reservoir pressures and deliverability rates throughout the withdrawal season. All native gas is included in the base gas volume.

Bituminous Coal: A dense, black coal, often with well-defined bands of bright and dull material. Bitumi-

nous coal is the most abundant coal in active U.S. mining regions. It is used primarily as fuel in steam-electric power generation, with substantial quantities also used for heat and power applications in manufacturing and to make coke. Its moisture content usually is less than 20 percent. The heat content of bituminous coal ranges from 21 to 30 million Btu per ton on a moist, mineral-matter-free basis. The heat content of bituminous coal consumed in the United States averages 24 million Btu per ton, on the as-received basis (i.e., containing both inherent moisture and mineral matter).

British Thermal Unit (Btu): The quantity of heat needed to raise the temperature of 1 pound of water by 1° F at or near 39.2° F. See Heat Content of a Quantity of Fuel, Gross and Heat Content of a Quantity of Fuel, Net.

Bunker Oil: Fuels supplied to ships and aircraft in international transportation, irrespective of the flag of the carrier, consisting primarily of residual, distillate, and jet fuel oils.

Butane: A normally gaseous straight-chain or branched-chain hydrocarbon (C_4H_{10}). It is extracted from natural gas or refinery gas streams. It includes isobutane and normal butane and is designated in ASTM Specification D1835 and Gas Processors Association Specifications for commercial butane.

Isobutane: A normally gaseous branched-chain hydrocarbon. It is a colorless paraffinic gas that boils at a temperature of 10.9° F. It is extracted from natural gas or refinery gas streams.

Normal Butane: A normally gaseous straight-chain hydrocarbon. It is a colorless paraffinic gas that boils at a temperature of 31.1° F. It is extracted from natural gas or refinery gas streams.

Butylene: An olefinic hydrocarbon (C_4H_8) recovered from refinery processes.

Capacity Factor: The ratio of the electrical energy produced by a generating unit for a given period of time to the electrical energy that could have been produced at continuous full-power operation during the same period.

Chained Dollars: A measure used to express real prices. Real prices are those that have been adjusted to remove the effect of changes in the purchasing power of the dollar; they usually reflect buying power relative to a reference year. Prior to 1996, real prices were expressed in constant dollars, a measure based on the weights of goods and services in a single year, usually a recent year. In 1996, the U.S. Department of Commerce introduced the chained-dollar measure. The new measure is based on the average weights of goods and services in successive pairs of years. It is "chained" because the second year in each pair, with its weights,

becomes the first year of the next pair. The advantage of using the chained-dollar measure is that it is more closely related to any given period and is therefore subject to less distortion over time.

CIF: See Cost, Insurance, Freight.

City Gate: A point or measuring station at which a distribution gas utility receives gas from a natural gas pipeline company or transmission system.

Coal: A readily combustible black or brownish-black rock whose composition, including inherent moisture, consists of more than 50 percent by weight and more than 70 percent by volume of carbonaceous material. It is formed from plant remains that have been compacted, hardened, chemically altered, and metamorphosed by heat and pressure over geologic time.

Coal Coke: See Coke, Coal.

Coal Rank: The classification of coals according to their degree of progressive alteration from lignite to anthracite. In the U.S. classification, the ranks include lignite, subbituminous coal, bituminous coal, and anthracite, and are based on fixed carbon, volatile matter, heating value, and agglomerating (or caking) properties.

Coal Stocks: Coal quantities that are held in storage for future use and disposition. Note: When coal data are collected for a particular reporting period (month, quarter, or year), coal stocks are commonly measured as of the last day of the period.

Cogenerator: A generating facility that produces electricity and another form of useful energy (such as heat or steam) used for industrial, commercial, heating, or cooling purposes. See **Nonutility Power Producers.**

Coke, Coal: A solid carbonaceous residue derived from low-ash, low-sulfur bituminous coal from which the volatile constituents are driven off by baking in an oven at temperatures as high as $2,000^{\circ}$ F so that the fixed carbon and residual ash are fused together. Coke is used as a fuel and as a reducing agent in smelting iron ore in a blast furnace. Coke (coal) has a heating value of 24.8 million Btu per ton.

Coke, Petroleum: A residue high in carbon content and low in hydrogen that is the final product of thermal decomposition in the condensation process in cracking. This product is reported as marketable coke or catalyst coke. The conversion is 5 barrels (42 U.S. gallons each) per short ton. Coke (petroleum) has a heating value of 6.024 million Btu per barrel.

Coking Coal: Bituminous coal suitable for making coke. See **Coke**, **Coal**.

Commercial Sector: An energy-consuming sector that consists of service-providing facilities of: businesses; Federal, State, and local governments; and other private and public organizations, such as religious, social, or fraternal groups. The commercial sector includes **institutional living quarters**. Common uses of energy associated with this sector include space heating, water heating, air conditioning, lighting, refrigeration, cooking, and running a wide variety of other equipment.

Completion: The installation of permanent equipment for the production of oil or gas. If a well is equipped to produce only oil or gas from one zone or reservoir, the definition of a well (classified as an oil well or gas well) and the definition of a completion are identical. However, if a well is equipped to produce oil and/or gas separately from more than one reservoir, a well is not synonymous with a completion.

Constant Dollars: See Chained Dollars.

Conventional Gasoline: Finished motor gasoline not included in the oxygenated or reformulated gasoline categories. Note: This category excludes reformulated gasoline blendstock for oxygenate blending (RBOB) as well as other blendstock.

Conventional Hydroelectric Power: Hydroelectric power that is not generated by **pumped storage**.

Conversion Factor: A number that translates units of one system into corresponding values of another system. Conversion factors can be used to translate physical units of measure for various fuels into Btu equivalents. See **British Thermal Unit**.

Cost, Insurance, Freight (CIF): A 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.

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-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-days are used in energy analysis as an indicator of space heating energy requirements or use.

Degree-Days, Population-Weighted: Heating or cooling degree-days weighted by the population of the area in which the degree-days are recorded. To compute State population-weighted degree-days, each State is divided into from one to nine climatically homogeneous divisions, which are assigned weights based on the ratio of the population of the division to the total population of the State. Degree-day readings for each division are multiplied by the corresponding population weight for each division and those products are then summed to arrive at the State population-weighted degree-day figure. To compute national population-weighted degree-days, the Nation is divided into nine Census regions, each comprising from three to eight States, which are assigned weights based on the ratio of the population of the region to the total population of the Nation. Degree-day readings for each region are multiplied by the corresponding population weight for each region and those products are then summed to arrive at the national population-weighted degree-day figure.

Design Electrical Rating, Net: The nominal net electrical output of a nuclear unit as specified by the electric utility for the purpose of plant design.

Development Well: A well drilled within the proved area of an oil or gas reservoir to the depth of a stratigraphic horizon known to be productive.

Distillate Fuel Oil: A general classification for one of the petroleum fractions produced in conventional distillation operations. Included are products known as No. 1, No. 2, and No. 4 fuel oils and No. 1, No. 2, and No. 4 diesel fuels. It is used primarily for space heating, onand off-highway diesel engine fuel (including railroad engine fuel and fuel for agricultural machinery), and electric power generation.

Dry Hole: An exploratory or development well found to be incapable of producing either oil or gas in sufficient quantities to justify completion as an oil or gas well.

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 Capacity: The maximum load of electric power, commonly expressed in **kilowatts** (kW) or megawatts (MW), by which generators, turbines, transformers, transmission circuits, stations, and systems are rated.

Electricity Generation: The process of producing electric energy, or the amount of electric energy produced by transforming other forms of energy, commonly expressed in **kilowatthours** (kWh) or megawatthours (MWh).

Electricity Generation, Gross: The total amount of electric energy produced by generating units and measured at the generating terminal in **kilowatthours** (kWh) or megawatthours (MWh).

Electricity Generation, Net: The amount of **gross electricity generation** less the electrical energy consumed at the generating station(s) for station service or auxiliaries. *Note:* Electricity required for pumping at **pumped-storage** plants is regarded as electricity for station service and is deducted from gross generation.

Electricity Sales: The amount of kilowatthours sold in a given period of time; usually grouped by classes of service, such as residential, commercial, industrial, and other. "Other" sales include sales for public street and highway lighting and other sales to public authorities, sales to railroads and railways, and interdepartmental sales. **Electric Power:** The rate at which electric energy is transferred. Electric power is measured by capacity and is commonly expressed in **kilowatts** (kW) or megawatts (MW).

Electric Power Plant: A station containing prime movers, electric generators, and auxiliary equipment for converting mechanical, chemical, and/or fission energy into electric energy.

Electric Power Sector: An energy-consuming sector that consists of all utility and nonutility facilities and equipment used to generate, transmit, and/or distribute electricity. See **Electric Utility** and **Nonutility Power Producer**.

Electric Utility: A corporation, person, agency, authority, or other legal entity or instrumentality that owns and/or operates facilities for the generation, transmission, distribution, or sale of electric energy for use primarily by the public. Utilities provide electricity within a designated franchised service area and file forms listed in the *Code of Federal Regulations*, Title 18, Part 141. *Note:* Facilities that qualify as **cogenerators** or **small power producers** under the Public Utility Regulatory Policies Act (PURPA) are not considered electric utilities. See **Nonutility Power Producer**.

End-Use Sectors: The residential, commercial, industrial, and transportation sectors of the economy.

Energy: The capacity for doing work as measured by the capability of doing work (potential energy) or the conversion of this capability to motion (kinetic energy). Energy has several forms, some of which are easily convertible and can be changed to another form useful for work. Most of the world's convertible energy comes from fossil fuels that are burned to produce heat that is then used as a transfer medium to mechanical or other means in order to accomplish tasks. Electrical energy is usually measured in kilowatthours, while heat energy is usually measured in British thermal units.

Energy Consumption: The use of energy as a source of heat or power or as an input in the manufacturing process.

Energy-Use Sectors: A group of major energy-consuming components of U.S. society developed to measure and analyze energy use. The sectors most commonly referred to in EIA are: residential, commercial, industrial, transportation, and electric power.

Ethane: A normally gaseous straight-chain hydrocarbon (C_2H_6). It is a colorless, paraffinic gas that boils at a temperature of -127.48° F. It is extracted from natural gas and refinery gas streams.

Ethanol: See Fuel Ethanol.

Ethylene: An olefinic hydrocarbon (C_2H_4) recovered from refinery processes or petrochemical processes.

Exploratory Well: A well drilled to find and produce oil or gas in an 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 the 50 States and the District of Columbia to foreign countries and to Puerto Rico, the Virgin Islands, and other U.S. possessions and territories.

Extraction Loss: The reduction in volume of natural gas due to the removal of natural gas liquid constituents, such as ethane, propane, and butane, at natural gas processing plants.

f.a.s.: See Free Alongside Ship.

Federal Energy Administration (FEA): A predecessor of the Energy Information Administration.

Federal Energy Regulatory Commission (FERC): The Federal agency with jurisdiction over interstate electricity sales, wholesale electric rates, hydroelectric licensing, natural gas pricing, oil pipeline rates, and gas pipeline certification. FERC is an independent regulatory agency within the Department of Energy and is the successor to the Federal Power Commission.

Federal Power Commission (FPC): The predecessor agency of the Federal Energy Regulatory Commission. The Federal Power Commission was created by an Act of Congress under the Federal Water Power Act on June 10, 1920. It was charged originally with regulating the electric power and natural gas industries. It was abolished on September 30, 1977, when the Department of Energy was created. Its functions were divided between the Department of Energy and the Federal Energy Regulatory Commission, an independent regulatory agency.

First Purchase Price: The marketed first sales price of domestic crude oil, consistent with the removal price defined by the provisions of the Windfall Profits Tax on Domestic Crude Oil (Public Law 96-223, Sec. 4998 (c)).

Flared Natural Gas: Natural gas burned in flares on the base site or at gas processing plants.

f.o.b.: See Free on Board.

Footage Drilled: Total footage for wells in various categories, as reported for any specified period, includes (1) the deepest total depth (length of well bores) of all wells drilled from the surface, (2) the total of all bypassed footage drilled in connection with reported wells, and (3) all new footage drilled for directional sidetrack wells. Footage reported for directional sidetrack wells does not include footage in the common bore, which is reported as footage for the original well. In the case of old wells drilled deeper, the reported footage is that which was drilled below the total depth of the old well.

Former U.S.S.R.: See U.S.S.R.

Fossil Fuel: An energy source formed in the Earth's crust from decayed organic material, such as **petro-**leum, coal, and natural gas.

Fossil-Fueled Steam-Electric Power Plant: An electricity generation plant in which the prime mover is a turbine rotated by high-pressure steam produced in a boiler by heat from burning fossil fuels.

Free Alongside Ship (f.a.s.): The value of a commodity at the port of exportation, generally including the purchase price, plus all charges incurred in placing the commodity alongside the carrier at the port of exportation. **Free on Board (f.o.b.):** A sales transaction in which the seller makes the product available at a given port and price and the buyer pays for the transportation and insurance.

Fuel Ethanol: An anhydrous, denatured aliphatic alcohol (C_2H_5OH) intended for motor gasoline blending. See **Oxygenates.**

Full-Power Operation: Operation of a nuclear generating unit at 100 percent of its design capacity. Full-power operation precedes commercial operation.

Gasohol: A blend of finished motor gasoline containing 10 percent or less alcohol (generally ethanol but sometimes methanol). See **Motor Gasoline, Oxygenated**.

Gas-Turbine Electric Power Plant: A plant in which the prime mover is a gas turbine. A gas turbine typically consists of an axial-flow air compressor, one or more combustion chambers where liquid or gaseous fuel is burned and the hot gases expand to drive the generator and then are used to run the compressor.

Gas Well: A well completed for the production of natural gas from one or more gas zones or reservoirs. (Wells producing both crude oil and natural gas are classified as oil wells.)

Geothermal Energy: Hot water or steam extracted from geothermal reservoirs in the earth's crust 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. **Household:** A family, an individual, or a group of up to nine unrelated persons occupying the same housing unit. "Occupy" means that the housing unit is the person's usual or permanent place of residence.

Hydrocarbon: An organic chemical compound of hydrogen and carbon in the gaseous, liquid, or solid phase. The molecular structure of hydrocarbon compounds varies from the simplest (methane, the primary constituent of natural gas) to the very heavy and very complex.

Hydroelectric Power: The production of electricity from the kinetic energy of falling water.

Hydroelectric Power Plant: A plant in which the turbine generators are driven by falling water.

Hydroelectric Pumped Storage: Hydroelectricity that is generated during peak load periods by using water previously pumped into an elevated storage reservoir during off-peak periods when excess generating capacity is available to do so. When additional generating capacity is needed, the water can be released from the reservoir through a conduit to turbine generators located in a power plant at a lower level.

Imports: Receipts of goods into the 50 States and the District of Columbia from foreign countries and from Puerto Rico, the Virgin Islands, and other U.S. possessions and territories.

Independent Power Producer: A corporation, person, agency, authority, or other legal entity or instrumentality which is a wholesale electricity producer that operates within the franchised service territory of a host **electric utility** and is usually authorized to sell at market-based rates. Unlike traditional electric utilities, independent power producers do not possess transmission facilities, unless authorized by law, nor do they sell electricity in the retail market. Independent power producers are considered to be **nonutility power producers**.

Industrial Sector: An energy-consuming sector that consists of all facilities and equipment used for producing, processing, or assembling goods. The industrial sector encompasses the following types of activity: manufacturing; agriculture, forestry, and fisheries; mining; and construction. Overall energy use in this sector is largely for process heat and cooling and powering machinery, with lesser amounts used for facility heating, air conditioning, and lighting. Fossil fuels are also used as raw material inputs to manufactured products.

Injections (Natural Gas): Natural gas injected into storage reservoirs.

Institutional Living Quarters: Space provided by a business or organization for long-term housing of individuals whose reason for shared residence is their association with the business or organization. Such quarters commonly have both individual and group living spaces, and the business or organization is responsible for some aspects of resident life beyond the simple provision of living quarters. Examples include prisons; nursing homes and other long-term medical care facilities; military barracks; college dormitories; and convents and monasteries.

Internal Combustion Electric Power Plant: A power plant in which the prime mover is an internal combustion engine. Diesel or gas-fired engines are the principal types used in electric power plants. The plant is usually operated during periods of high demand for electricity.

Isobutane: A normally gaseous branch-chain hydrocarbon. It is a colorless paraffinic gas that boils at a temperature of 10.9 F. It is extracted from natural gas or refinery gas streams. See **Butane**.

Isobutylene: An olefinic hydrocarbon recovered from refinery processes or petrochemical processes.

Isopentane: A saturated branched-chain hydrocarbon obtained by fractionation of natural gasoline or isomerization of normal pentane.

Jet Fuel: 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: Gross withdrawals less gas used for repressuring, quantities vented and flared, and nonhydrocarbon gases removed in treating or processing operations. Includes all quantities of gas used in field and processing operations.

Metallurgical Coal: Coking coal and pulverized coal consumed in making steel.

Methane: A colorless, flammable, odorless, hydrocarbon gas (CH_4) that is the principal constituent of natural gas. It is also an important source of hydroge in various industrial processes.

Methyl Tertiary Butyl Ether (MTBE): An ether, (CH₃)₃COCH₃, intended for motor gasoline blending. See **Oxygenates**.

Methanol: A light, volatile alcohol (CH₃OH) eligible for motor gasoline blending. See **Oxygenates.**

Miscellaneous Petroleum Products: All finished petroleum products not classified elsewhere—for example, petrolatum, lube refining byproducts (aromatic extracts and tars), absorption oils, ram-jet fuel, petroleum rocket fuels, synthetic natural gas feedstocks, and specialty oils. **Motor Gasoline Blending:** Mechanical mixing of motor gasoline blending components and oxygenates as required, to produce finished motor gasoline. Finished motor gasoline may be further mixed with other motor gasoline blending components or oxygenates, resulting in increased volumes of finished motor gasoline and/or changes in the formulation of finished motor gasoline (e.g., conventional motor gasoline mixed with MTBE to produce oxygenated motor gasoline).

Motor Gasoline Blending Components: Naphtha (e.g., straight-run gasoline, alkylate, reformate, benzene, toluene, xylene) used for blending or compounding into finished motor gasoline. These components include reformulated gasoline blendstock (RBOB) but exclude oxygenates (alcohols, ethers), butane, and pentanes plus. Note: oxygenates are reported as individual components and are included in the total for other hydrocarbons, hydrogens, and oxygenates.

Motor Gasoline, Finished: A complex mixture of relatively volatile hydrocarbons with or without small quantities of additives, blended to form a fuel suitable for use in spark-ignition. Motor gasoline, as defined in ASTM Specification D-4814 or Federal Specification VV-G-1690C, is characterized as having a boiling range of 122°F to 158°F at the 10-percent recovery point to 365°F to 374°F at the 90-percent recovery point. "Motor gasoline" includes conventional gasoline, all types of oxygenated gasoline including gasohol, and reformulated gasoline, but excludes aviation gasoline. Note: 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.

Nameplate Capacity: The maximum design production capacity specified by the manufacturer of a processing unit or the maximum amount of a product that can be produced running the manufacturing unit at full capacity.

Naphtha: A generic term applied to a petroleum fraction with an approximate boiling range between 122 and 400° F.

Natural Gas: A 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 Capability: The maximum output, commonly expressed in **kilowatts** (kW) or megawatts (MW), that generating equipment can supply to system load, as demonstrated by a multi-hour test, at the time of summer peak demand. This output reflects a reduction in capacity due to electricity use for station service or auxiliaries.

Neutral Zone: A 6,200 square-mile area shared equally between Kuwait and Saudi Arabia under a 1992 agreement. The Neutral Zone contains an estimated 5 billion barrels of oil and 8 trillion cubic feet of natural gas.

Nonhydrocarbon Gases: Typical nonhydrocarbon gases that may be present in reservoir natural gas are carbon dioxide, helium, hydrogen sulfide, and nitrogen.

Nonutility Power Producer: A corporation, person, agency, authority, or other legal entity or instrumentality that owns or operates facilities for electric generation and is not an electric utility. Nonutility power producers include qualifying cogenerators, qualifying small power producers, and other nonutility generators (including **independent power producers**). Nonutility power producers are without a designated, franchised service area and do not file forms listed in the Code of Federal Regulations, Title 18, Part 141.

Nuclear Electric Power: Electricity generated by an electric power plant whose turbines are driven by steam generated in a reactor by heat from the fissioning of nuclear fuel.

Nuclear Electric Power Plant: A single-unit or multiunit facility in which heat produced in one or more reactors by the fissioning of nuclear fuel is used to drive one or more steam turbines.

Nuclear Reactor: An apparatus in which the nuclear fission chain can be initiated, maintained, and controlled so that energy is released at a specific rate. The reactor includes fissionable material (fuel), such as uranium or plutonium; fertile material; moderating material (unless it is a fast reactor); a heavy-walled pressure vessel; shielding to protect personnel; provision for heat removal; and control elements and instrumentation.

Octane Rating: A number used to indicate gasoline's antiknock performance in motor vehicle engines. The two recognized laboratory engine test methods for determining the antiknock rating of gasolines are the Research method and the Motor method. To provide a single number as guidance to the consumer, the antiknock index (R + M)/2, which is the average of the Research and Motor octane numbers, was developed.

Offshore: That geographic area that lies seaward of the coastline. In general, the coastline is the line of ordinary low water along with that portion of the coast that is in direct contact with the open sea or the line marking the seaward limit of inland water.

Oil: See Crude Oil.

Oil Well: A well completed for the production of crude oil from one or more oil zones or reservoirs. Wells producing both crude oil and natural gas are classified as oil wells.

Operable Unit (Nuclear): In the United States, a nuclear generating unit that has completed low-power testing and been issued a full-power operating license by the Nuclear Regulatory Commission, or equivalent permission to operate.

Organization for Economic Cooperation and Development (OECD): Members are Australia, Austria, Belgium, Canada, Denmark, Faeroe Islands, Finland, France, Germany, Greece, Greenland, Hawaiian Trade Zone, Iceland, Ireland, Italy, Japan, Luxembourg, Mexico, Netherlands, New Zealand, Norway, Portugal, Spain, Sweden, Switzerland, Turkey, United Kingdom, and United States and its territories (Guam, Puerto Rico, and the Virgin Islands). In addition, Czech Republic, Hungary, Poland, and South Korea joined the OECD in 1996.

Organization of Petroleum Exporting Countries (**OPEC**): Countries that have organized for the purpose of negotiating with oil companies on matters of oil production, prices, and future concession rights. Current members are Algeria, Indonesia, Iran, Iraq, Kuwait, Libya, Nigeria, Qatar, Saudi Arabia, the United Arab Emirates, and Venezuela. **Oxygenates:** Substances which, when added to gasoline, increase the amount of oxygen in that gasoline blend. Ethanol, MTBE, and methanol are common oxygenates.

PAD Districts: Petroleum Administration for Defense Districts. Geographic aggregations of the 50 States and the District of Columbia into five districts for the Petroleum Administration for Defense in 1950. The districts were originally instituted for economic and geographic reasons as Petroleum Administration for War (PAW) Districts, which were established in 1942.

Pentanes Plus: A mixture of hydrocarbons, mostly pentanes and heavier, extracted from natural gas. Includes isopentane, natural gasoline, and plant condensate.

Petrochemical Feedstocks: Chemical feedstocks derived from petroleum principally for the manufacture of chemicals, synthetic rubber, and a variety of plastics.

Petroleum: A generic term applied to oil and oil products in all forms, such as crude oil, lease condensate, unfinished oils, petroleum products, natural gas plant liquids, and nonhydrocarbon compounds blended into finished petroleum products.

Petroleum Coke: See Coke, Petroleum.

Petroleum Coke, Catalyst: The carbonaceous residue that is deposited on and deactivates the catalyst used in many catalytic operations (e.g., catalytic cracking). Carbon is deposited on the catalyst, thus deactivating the catalyst. The catalyst is reactivated by burning off the carbon, which is used as a fuel in the refining process. That carbon or coke is not recoverable in a concentrated form.

Petroleum Coke, Marketable: Those grades of coke produced in delayed or fluid cokers that may be recovered as relatively pure carbon. Marketable petroleum coke may be sold as is or may be further purified by calcining.

Petroleum Consumption: The sum of all refined petroleum products supplied. For each refined petroleum product, the amount supplied is calculated by adding production and imports, then subtracting changes in primary stocks (net withdrawals are a plus quantity and net additions are a minus quantity) and exports.

Petroleum Imports: Imports of petroleum into the 50 States and the District of Columbia from foreign countries and from Puerto Rico, the Virgin Islands, and other U.S. territories and possessions. Included are imports for the Strategic Petroleum Reserve and withdrawals from bonded warehouses for onshore consumption, offshore bunker use, and military use. Excluded are receipts of foreign petroleum into bonded warehouses and into U.S. territories and U.S. Foreign Trade Zones.

Petroleum Products: Products obtained from the processing of crude oil (including lease condensate), natural gas, and other hydrocarbon compounds. Petroleum products include unfinished oils, liquefied petroleum gases, pentanes plus, aviation gasoline, motor gasoline, naphtha-type jet fuel, kerosene-type jet fuel, kerosene, distillate fuel oil, residual fuel oil, petrochemical feedstocks, special naphthas, lubricants, waxes, petroleum coke, asphalt, road oil, still gas, and miscellaneous products.

Petroleum Products Supplied: An approximate measure of consumption. It measures the disappearance of the products from primary sources, i.e., refineries, blending plants, and bulk terminals. In general, products supplied in any given period is computed as follows: field production, plus imports, plus unaccounted-for crude oil (plus net receipts when calculated on a PAD District basis) minus stock change, minus crude oil losses, minus refinery inputs, and minus exports. See also **Petroleum Consumption**.

Petroleum Stocks, Primary: For individual products, quantities that are held at refineries, in pipelines, and at bulk terminals that have a capacity of 50,000 barrels or more, or that are in transit thereto. Stocks held by product retailers and resellers, as well as tertiary stocks held at the point of consumption, are excluded. Stocks of individual products held at gas processing plants are excluded from individual product estimates but are included in other oils estimates and total.

Photovoltaic Energy: Direct-current electricity generated from sunlight through solid-state semiconductor devices that have no moving parts.

Pipeline Fuel: Gas consumed in the operation of pipelines, primarily in compressors.

Plant Condensate: One of the natural gas liquids, mostly pentanes and heavier hydrocarbons, recovered and separated as liquid at gas inlet separators or scrubbers in processing plants.

Prime Mover: The engine, turbine, water wheel, or similar machine that drives an electric generator; or, for reporting purposes, a device that converts energy to electricity directly.

Primary Consumption: Includes consumption of coal, natural gas, petroleum, nuclear electric power, hydro-electric power, wood, waste, alcohol fuels, geothermal, solar, wind, net imports of coal coke, and net imports of electricity.

Propane: A normally gaseous straight-chain hydrocarbon (C_3H_8). It is a colorless paraffinic gas that boils at a temperature of -43.67° F. It is extracted from natural gas or refinery gas streams. It includes all products designated in ASTM Specification D1835 and Gas Processors Association Specifications for commercial propane and HD-5 propane.

Propylene: An olefinic hydrocarbon (C_3H_6) recovered from refinery or petrochemical processes.

Pumped Storage: See Hydroelectric Pumped Storage.

Refiner Acquisition Cost of Crude Oil: The cost of crude oil to the refiner, including transportation and fees. The composite cost is the weighted average of domestic and imported crude oil costs.

Refinery (Petroleum): An installation that manufactures finished petroleum products from crude oil, unfinished oils, natural gas liquids, other hydrocarbons, and alcohol.

Renewable Energy: Energy obtained from sources that are essentially inexhaustible (unlike, for example, the **fossil fuels**, of which there is a finite supply). Renew-

able sources of energy include conventional hydrolectric power, wood, waste, alcohol fuels, geo-thermal, solar, and wind.

Repressuring: The injection of a pressurized fluid (such as air, gas, or water) into oil and gas reservoir formations to effect greater ultimate recovery.

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

Residual Fuel Oil: The heavier oils that remain after the distillate fuel oils and lighter hydrocarbons are distilled away in refinery operations and that conform to ASTM Specifications D396 and 975. Included are No. 5, a residual fuel oil of medium viscosity; Navy Special, for use in steam-powered vessels in government service and in shore power plants; and No. 6, which includes Bunker C fuel oil and is used for commercial and industrial heating, for electricity generation, and to power ships. Imports of residual fuel oil include imported crude oil burned as fuel.

Road Oil: Any heavy petroleum oil, including residual asphaltic oil used as a dust palliative and surface treatment on roads and highways. It is generally produced in six grades, from 0, the most liquid, to 5, the most viscous.

Rotary Rig: A machine used for drilling wells that employs a rotating tube attached to a bit for boring holes through rock.

Short Ton (Coal): A unit of weight equal to 2,000 pounds.

SIC: See Standard Industrial Classification.

Small Power Producer: Under the Public Utility Regulatory Policies Act, a small power production facility (small power producer) generates electricity by using waste or renewable energy (biomass, conventional hydroelectric, wind, solar, and geothermal) as a primary energy source. Fossil fuels can be used, but renewable resources must provide at least 75 percent of the total energy input. See **Nonutility Power Producer.**

Solar Energy: See solar thermal energy and photo-voltaic energy.

Solar Thermal Energy: The radiant energy of the sun that can be converted into other forms of energy, such as heat or **electricity**. Electricity produced from solar energy heats a medium that powers an electric-ity-generating device.

Special Naphthas: All finished products within the naphtha boiling ranges that are used as paint thinner, cleaners or solvents. Those products are refined to a specified flash point. Special naphthas include all commercial hexane and cleaning solvents conforming to ASTM Specifications D1836 and D484, respectively. Naphthas to be blended or marketed as motor gasoline or aviation gasoline, or that are to be used as petrochemical and synthetic natural gas (SNG) feedstocks, are excluded.

Spent Liquor: The liquid residue left after an industrial process; can be a component of waste materials used as fuel.

Standard Industrial Classification (SIC): A set of codes developed by the Office of Management and Budget which categorizes industries into groups with similar economic activities.

Startup Test Phase of Nuclear Power Plant: A nuclear power plant that has been licensed by the Nuclear Regulatory Commission to operate but is still in the initial testing phase, during which the production of electricity may not be continuous. In general, when the electric utility is satisfied with the plant's performance, it formally accepts the plant from the manufacturer and places it in commercial operation status. A request is then submitted to the appropriate utility rate commission to include the power plant in the rate base calculation.

Steam Coal: All nonmetallurgical coal.

Steam-Electric Power Plant: A plant in which the prime mover is a steam turbine. The steam used to drive the turbine is produced in a boiler where fossil fuels are burned.

Still Gas (Refinery Gas): Any form or mixture of gas produced in refineries by distillation, cracking, reforming, and other processes. The principal constituents are methane, ethane, ethylene, normal butane, butylene, propane, and propylene. It is used primarily as refinery fuel and petrochemical feedstock.

Strategic Petroleum Reserve (SPR): Petroleum stocks maintained by the Federal Government for use during periods of major supply interruption.

Subbituminous Coal: A coal that ranges in properties from those of lignite to those of bituminous coal. It may be dull, dark brown or black, soft and crumbly, at the lower end of the range, to bright, jet black, hard, and relatively strong, at the upper end. It is used primarily as fuel for steam-electric power generation. Subbituminous coal contains 20 to 30 percent inherent moisture by weight. The heat content of subbituminous coal ranges from 17 to 24 million Btu per ton on a moist, mineral-matter-free basis. The heat content of subbituminous coal consumed in the United States averages 18 million Btu per ton, on the as-received basis (i.e., containing both inherent moisture and mineral matter).

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

Synthetic Natural Gas (SNG): A manufactured product chemically similar in most respects to natural gas, resulting from the conversion or reforming of petroleum hydrocarbons. It may easily be substituted for, or interchanged with, pipeline quality natural gas. Also referred to as substitute natural gas.

Thermal Conversion Factor: See Conversion Factor.

Transportation Sector: An energy-consuming sector that consists of all vehicles whose primary purpose is

transporting people and/or goods from one physical location to another. Included are automobiles; trucks; buses; motorcycles; trains, subways, and other rail vehicles; aircraft; and ships, barges, and other waterborne vehicles. Vehicles whose primary purpose is not transportation (e.g., construction cranes and bulldozers, farming vehicles, and warehouse tractors and forklifts) are classified in the sector of their primary use.

Unaccounted-for Crude Oil: Arithmetic difference between the calculated supply and the calculated disposition of crude oil. The calculated supply is the sum of crude oil production and imports, less changes in crude oil stocks. The calculated disposition of crude oil is the sum of crude oil input to refineries, crude oil exports, crude oil burned as fuel, and crude oil losses.

Unfinished Oils: All oils requiring further refinery processing except those requiring only mechanical blending. Includes naphthas and lighter oils, kerosene and light gas oils, heavy gas oils and residuum.

Unfractionated Stream: Mixtures of unsegregated natural gas liquid components, excluding those in plant condensate. This product is extracted from natural gas.

Underground Storage: The storage of natural gas in underground reservoirs at a different location from which it was produced.

United States: Unless otherwise noted, "United States" in this publication means the 50 States and the District of Columbia. U.S. exports include shipments to U.S. territories, and imports include receipts from U.S. territories.

Useful Thermal Output: The thermal energy made available for use in any industrial or commercial process, or used in any heating or cooling application, i.e., total thermal energy made available for processes and applications other than electrical generation.

U.S.S.R.: The Union of Soviet Socialist Republics consisted of 15 constituent republics: Armenia, Azerbaijan, Belarus, Estonia, Georgia, Kazakhstan, Kyrgyzstan, Latvia, Lithuania, Moldova, Russia, Tajikistan, Turkmenistan, Ukraine, and Uzbekistan. As a political entity, the U.S.S.R. ceased to exist as of December 31, 1991.

Vented Natural Gas: Gas released into the air on the base site or at processing plants.

Vessel Bunkering: Includes sales for the fueling of commercial or private boats, such as pleasure craft, fishing boats, tugboats, and ocean-going vessels, including vessels operated by oil companies. Excluded are volumes sold to the U.S. Armed Forces.

Waste Energy: Industrial, agricultural, and urban refuse used to generate electricity, such as municipal solid waste, landfill gas, methane, digester gas, liquid acetronitrile waste, tall oil, waste alcohol, medical waste, paper pellets, sludge waste, solid byproducts, tires, agricultural byproducts, closed loop biomass, fish oil, and straw.

Watt (W): The unit of electrical power equal to 1 ampere under a pressure of 1 volt. A watt is equal to 1/746 horsepower.

Watthour (Wh): The electrical energy unit of measure equal to 1 watt of power supplied to, or taken from, an electric circuit steadily for 1 hour.

Waxes: Solid or semisolid material derived from petroleum distillates or residues. Waxes are light-colored, more or less translucent crystalline masses, slightly greasy to the touch, consisting of a mixture of solid hydrocarbons in which the paraffin series predominates. Included are all marketable waxes, whether crude scale or fully refined. Waxes are used primarily as industrial coating for surface protection.

Wellhead Price: The value of crude oil or natural gas at the mouth of the well.

Well Servicing Unit: Truck-mounted equipment generally used for downhole services after a well is drilled. Services include well and recompletions, maintenance, repairs, workovers, and well plugging and abandonments. Jobs range from minor operations, such as pulling the rods and rod pumps out of an oil well, replacing the pump and rerunning the assemblage into the well, to major workovers, such as milling out and repairing collapsed casing. Well depth and characteristics determine the type of equipment used.

Wind Energy: The kinetic energy of wind converted into mechanical energy by wind turbines (e.g., blades rotating from a hub) that drive generators to produce electricity.

Withdrawals (Natural Gas): Total volume of gas withdrawn during the applicable reporting period.

Wood Energy: Wood and wood products used as fuel, including round wood (cord wood), limb wood, wood chips, bark, sawdust, forest residues, charcoal, pulp waste, black liquor, red liquor, spent sulfite liquor, wood sludge, peat, railroad ties, and utility poles.

Working Gas: The gas in a reservoir that is in addition to the base (cushion) gas. It may or may not be completely withdrawn during any particular withdrawal season. Conditions permitting, the total working capacity could be used more than once during any given season.

Integrated Historical Energy Data Reports

... from the Energy Information Administration

MonthlyEnergyReview

(www.eia.doe.gov/emeu/mer/contents.html)

Current monthlydataonproduction, consumption, stocks, trade, and prices of the principal energy commodities in the United States.

Annual EnergyReview

(www.eia.doe.gov/emeu/aer/contents.html)

Long-termhistorical annual dataonU.S.energy production, consumption, stocks, trade, and prices. Most series begin in 1949.

StateEnergyDataReport

(www.eia.doe.gov/emeu/sedr/contents.html)

Annualenergyconsumptionestimatesatthe State andnational levelsbyenergysourceandbymajor sector(i.e.,residential,commercial,industrial, transportation,andelectricutilities),beginningwith 1960.

StateEnergyPriceandExpenditureReport

(www.eia.doe.gov/emeu/seper/contents.html)

Annualenergypriceandexpenditureestimatesat theStateandnationallevelsbyenergysourceand bymajorsector(i.e.,residential,commercial, industrial,transportation,andelectricutilities), beginningwith1970.

InternationalEnergyAnnual

(www.eia.doe.gov/emeu/iea/contents.html)

Annualdataforproduction, consumption, and trade of primary energy commodities in more than 220 countries, dependencies, and areas of special sovereignty. Also included are prices of crudeoil and petroleum products in selected countries.

EIA alsopublishesmanyotherreports. Formoreinformation,contacttheNationalEnergyInformationCenterat 202-586-8800 orinfoctr@eia.doe.gov,oraccessEIA'sHomePage(www.eia.doe.gov).











State Energy Data

... from the Energy Information Administration

State Energy Data Report, Consumption Estimates

Energy consumption estimates for all major forms of energy (including petroleum by product) by consuming sectors from 1960 through 1999;

rankings of States by consumption of major energy sources and total consumption per capita; carbon emission factors for coal; resident population.

State Energy Price and Expenditure Report

Energy prices and expenditures by energy sources within consuming sectors from 1970 through 1997 based on the consumption values estimated in the *State Energy Data Report*; rankings of States by prices and expenditures for major energy sources and total expenditures per capita.

State Electricity Profiles

Data on electricity capability, generation, retail sales, revenues, prices, and fuel use. Includes capacity factors for nuclear plants and pollutant emissions for all 50 States and the District of Columbia. Includes discussion of each State's unique features and circumstances with respect to electricity generation.

State Coal Profiles

Coal deposits and production in the 16 coal-producing States. Includes estimates of reserves by mining method and sulfur content, production, number of mines and miners, productivity, average mine price of coal, disposition, and consumption for selected years. Appendix A contains production and consumption rankings of States and percent of U.S. total. (EIA Website only.)

Fuel Oil and Kerosene Sales (Annual)

Sales and adjusted sales of distillate fuel oil, residual fuel oil, and kerosene by the following sectors: residential, commercial, industrial, farm, electric utilities, oil companies, military, off-highway, railroad, vessel bunkering, and "all other."

Natural Gas Annual

Natural gas production, transmission, and consumption balances; gross withdrawals and marketed production; offshore withdrawals; number of producing wells and gas condensate wells; estimated total dry natural gas proved reserves; prices, wellhead value, and marketed production value; natural gas processed, liquids extracted, and estimated extraction loss; interstate movements and movements across U.S. borders; additions to and withdrawals from gas storage; underground storage capacity; and many other kinds of data.

U.S. Crude Oil, Natural Gas, and Natural Gas Liquids Reserves (Annual)

Crude oil proved reserves and indicated additional reserves, reserves changes, and production; total, nonassociated, and associated-dissolved natural gas proved reserves, reserves changes, and production (wet after lease separation); coalbed methane proved reserves and production; dry natural gas and natural gas liquids proved reserves, reserves changes, and production; and natural gas plant liquids and lease condensate proved reserves and production; historical reserves statistics, 1977 forward.

For additional State-level energy information from the EIA website, go to www.eia.doe.gov and click on By Geography, then States and Multi-State Information. For general energy information, see the EIA Home Page or contact the National Energy Information Center at 202–586–8800 or <u>infoctr@eia.doe.gov</u>.