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Monthly Energy Review

July 1995

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Monthly Energy Review

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Section 1. Energy Overview

Energy production during April 1995 totaled 5.5 quadrillion Btu, a 1.0-percent decrease from the level of production during April 1994. Coal production decreased 7.7 percent, natural gas increased 1.3 percent, and production of crude oil and natural gas plant liquids increased 0.3 percent. All other forms of energy production combined were up 8.6 percent from the level of production during April 1994.

Energy consumption during April 1995 totaled 6.9 quadrillion Btu, 2.2 percent above the level of consumption during April 1994. Consumption of natural gas increased 9.8 percent, petroleum products consumption fell 2.2 percent, and coal consumption was down 1.0 percent. Consumption of all other forms of energy combined increased 8.1 percent from the level 1 year earlier.

Net imports of energy during April 1995 totaled 1.4 quadrillion Btu, 8.4 percent below the level of net imports 1 year earlier. Net imports of natural gas were up 14.5 percent, and net imports of petroleum decreased 7.1 percent. Net exports of coal rose 47.8 percent from the level in 1994.

Table 1.1 Energy Summary for April 1995

(Quadrillion Btu)

	April			Cumulative January Through April				
	1995	1994	Percent Change[a]	1995	1995 Daily Rate	1994	1994 Daily Rate	Percent Change[a]
Production[b]	**5.466**	**5.524**	**-1.0**	**22.845**	**0.190**	**22.222**	**0.185**	**2.8**
Coal	1.729	1.872	-7.7	7.564	.063	7.304	.061	3.6
Natural Gas (Dry)	1.614	1.593	1.3	6.502	.054	6.420	.053	1.3
Crude Oil[c] and Natural Gas Plant Liquids	1.345	1.342	.3	5.413	.045	5.439	.045	-.5
Other[d]	.779	.717	8.6	3.365	.028	3.059	.025	10.0
Consumption[b]	**6.852**	**6.703**	**2.2**	**29.730**	**.248**	**29.851**	**.249**	**-.4**
Coal	1.436	1.450	-1.0	6.223	.052	6.443	.054	-3.4
Natural Gas[e]	1.846	1.682	9.8	8.739	.073	8.723	.073	.2
Petroleum Products[f]	2.756	2.818	-2.2	11.272	.094	11.467	.096	-1.7
Other[g]	.815	.754	8.1	3.495	.029	3.218	.027	8.6
Net Imports	**1.414**	**1.544**	**-8.4**	**5.706**	**.048**	**5.857**	**.049**	**-2.6**
Coal[h]	-.177	-.120	47.8	-.632	-.005	-.465	-.004	35.8
Natural Gas	.230	.201	14.5	.935	.008	.815	.007	14.8
Petroleum[i]	1.324	1.426	-7.1	5.272	.044	5.348	.045	-1.4
Other[j]	.036	.037	-1.2	.130	.001	.159	.001	-18.0

[a] Based on daily rates prior to rounding.

[b] Due to a lack of consistent historical data, some renewable energy sources are not included. For example, in 1992, 3.0 quadrillion Btu of renewable energy consumed by U.S. electric utilities to generate electricity for distribution is included, but an estimated 3.0 quadrillion Btu of renewable energy used by other sectors is not included.

[c] Includes lease condensate.

[d] "Other" is hydroelectric and nuclear electric power, and electricity generated for distribution from wood, waste, geothermal, wind, photovoltaic, and solar thermal energy.

[e] Includes supplemental gaseous fuels.

[f] Products obtained from the processing of crude oil (including lease condensate), natural gas, and other hydrocarbon compounds.

[g] "Other" is hydroelectric and nuclear electric power; electricity generated for distribution from wood, waste, geothermal, wind, photovoltaic, and solar thermal energy; and net imports of electricity and coal coke.

[h] Minus sign indicates exports are greater than imports.

[i] Crude oil, lease condensate, petroleum products, pentanes plus, unfinished oils, gasoline blending components, and imports of crude oil for the Strategic Petroleum Reserve.

[j] "Other" is net imports of electricity and coal coke.

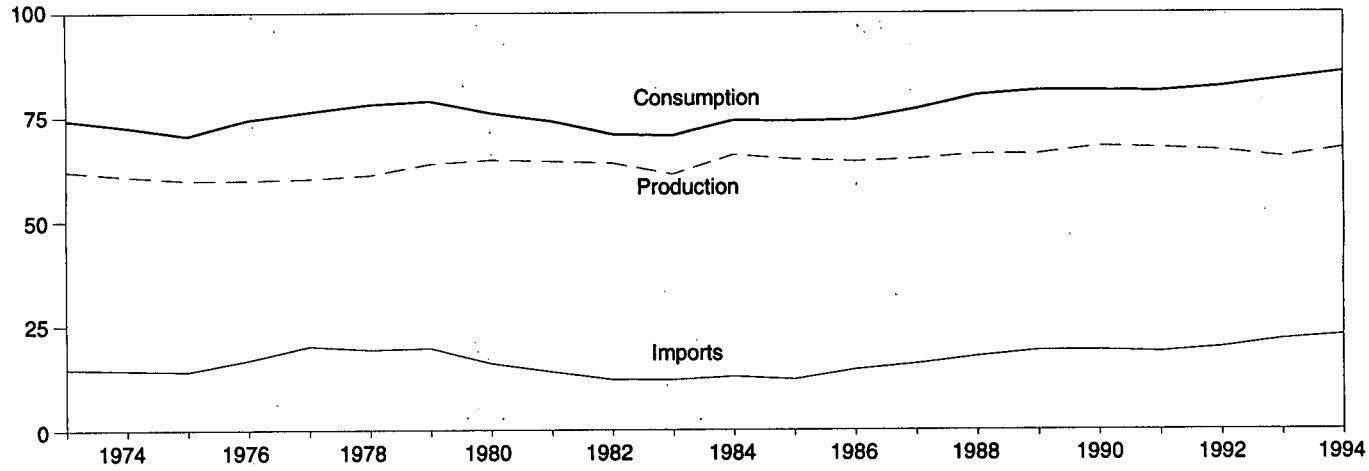
Notes: • Totals may not equal sum of components due to independent rounding. • Geographic coverage is the 50 States and the District of Columbia.

Sources: Tables 1.3, 1.4, and 1.5.

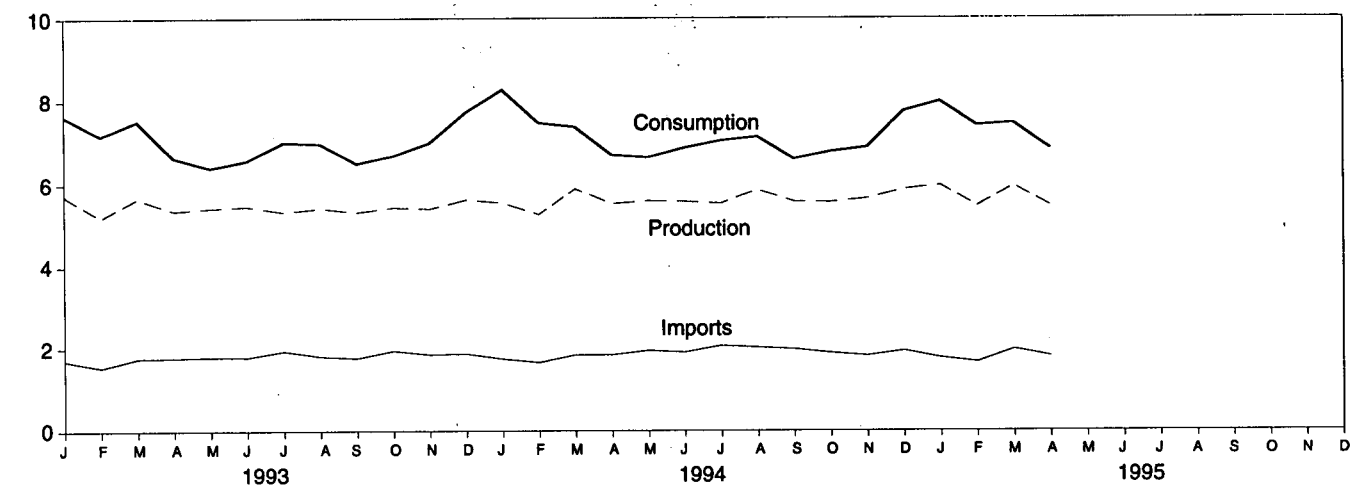
Figure 1.1 Energy Overview

(Quadrillion Btu)

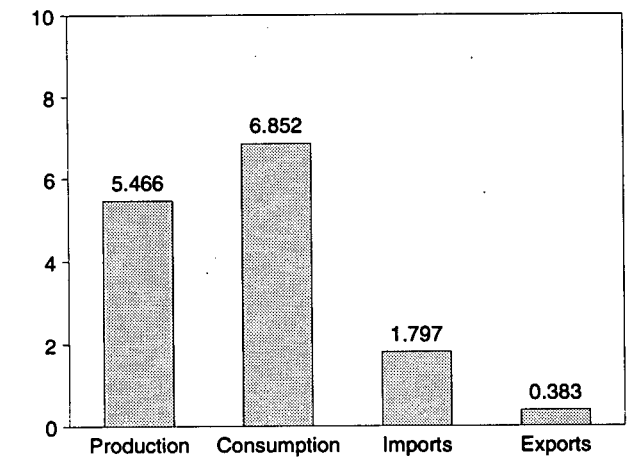
Consumption, Production, and Imports, 1973-1994



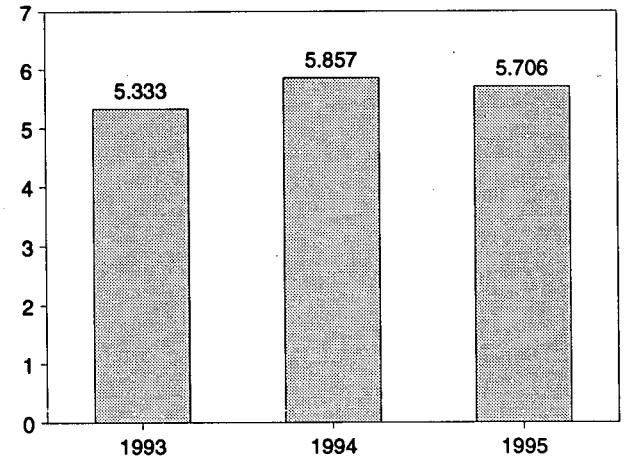
Consumption, Production, and Imports, Monthly



Overview, April 1995



Net Imports, January-April



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

Table 1.2 Energy Overview

(Quadrillion Btu)

	Production[a]	Consumption[a,b]	Imports	Exports	Net Imports
1973 Total	**62.060**	**74.282**	**14.731**	**2.051**	**12.680**
1974 Total	**60.835**	**72.543**	**14.413**	**2.223**	**12.190**
1975 Total	**59.860**	**70.546**	**14.111**	**2.359**	**11.752**
1976 Total	**59.892**	**74.362**	**16.837**	**2.188**	**14.648**
1977 Total	**60.219**	**76.288**	**20.090**	**2.071**	**18.019**
1978 Total	**61.103**	**78.089**	**19.254**	**1.931**	**17.323**
1979 Total	**63.801**	**78.898**	**19.616**	**2.870**	**16.746**
1980 Total	**64.761**	**75.955**	**15.971**	**3.723**	**12.247**
1981 Total	**64.421**	**73.990**	**13.975**	**4.329**	**9.646**
1982 Total	**63.962**	**70.848**	**12.092**	**4.633**	**7.460**
1983 Total	**61.279**	**70.524**	**12.027**	**3.717**	**8.310**
1984 Total	**65.962**	**74.144**	**12.767**	**3.804**	**8.963**
1985 Total	**64.871**	**73.981**	**12.103**	**4.231**	**7.872**
1986 Total	**64.350**	**74.297**	**14.438**	**4.055**	**10.382**
1987 Total	**64.952**	**76.894**	**15.764**	**3.853**	**11.911**
1988 Total	**66.105**	**80.218**	**17.564**	**4.415**	**13.149**
1989 Total	**66.129**	**81.325**	**18.947**	**4.765**	**14.181**
1990 Total	**67.853**	**81.265**	**18.987**	**4.910**	**14.077**
1991 Total	**67.484**	**81.116**	**18.577**	**5.220**	**13.357**
1992 Total	**66.853**	**82.144**	**19.650**	**5.017**	**14.633**
1993 January	5.714	7.640	1.707	.399	1.308
February	5.189	7.175	1.545	.364	1.181
March	5.657	7.526	1.762	.347	1.414
April	5.354	6.637	1.775	.345	1.430
May	5.420	6.406	1.791	.382	1.408
June	5.462	6.570	1.786	.411	1.375
July	5.327	7.015	1.936	.376	1.560
August	5.416	6.981	1.807	.320	1.486
September	5.321	6.503	1.765	.339	1.426
October	5.435	6.687	1.941	.347	1.595
November	5.403	7.000	1.849	.324	1.524
December	5.619	7.737	1.867	.395	1.472
Total	**65.315**	**83.877**	**21.530**	**4.350**	**17.180**
1994 January	5.548	8.284	1.742	.308	1.434
February	5.264	R7.480	1.659	.270	1.388
March	5.886	7.384	1.837	.346	1.491
April	5.524	R6.703	1.839	.296	1.544
May	R5.587	6.642	1.940	.323	1.616
June	R5.573	R6.872	1.899	.370	1.529
July	5.526	R7.049	2.058	.327	1.732
August	5.859	R7.144	2.013	.358	1.655
September	5.569	R6.600	1.971	.361	1.610
October	5.554	6.779	1.880	.355	1.524
November	5.640	R6.883	1.812	.363	1.449
December	5.869	7.752	1.930	.422	1.508
Total	**67.400**	R**85.572**	**22.579**	**4.098**	**18.481**
1995 January	R5.967	R7.996	1.759	.360	1.399
February	R5.458	R7.411	1.656	.347	1.309
March	R5.953	R7.470	R1.964	.380	R1.584
April	5.466	6.852	1.797	.383	1.414
4-Month Total	**22.845**	**29.730**	**7.176**	**1.471**	**5.706**
1994 4-Month Total	**22.222**	**29.851**	**7.077**	**1.220**	**5.857**
1993 4-Month Total	**21.913**	**28.978**	**6.788**	**1.455**	**5.333**

[a] Due to a lack of consistent historical data, some renewable energy sources are not included. For example, in 1992, 3.0 quadrillion Btu of renewable energy consumed by U.S. electric utilities to generate electricity for distribution is included, but an estimated 3.0 quadrillion Btu of renewable energy used by other sectors is not included.

[b] 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 data.

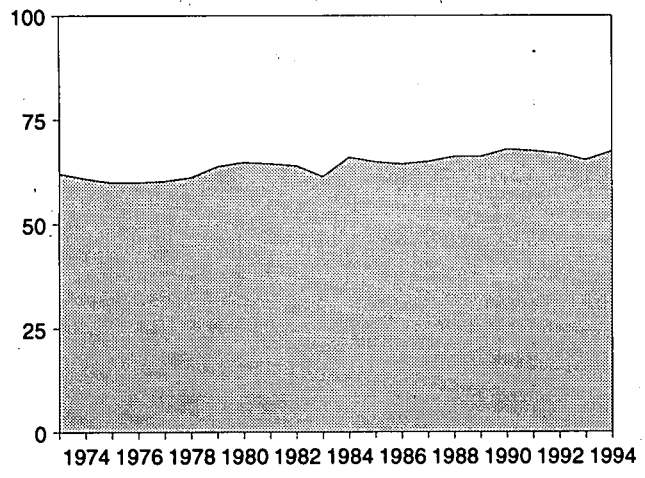
Notes: • For definitions, see Notes 1 through 4 at end of section. • Totals may not equal sum of components due to independent rounding. • Geographic coverage is the 50 States and the District of Columbia.

Sources: • **Production:** Table 1.3. • **Consumption:** Table 1.4. • **Imports and Exports:** Tables 3.1b, 4.2, 6.1, A2-A8, and Section 2, "Energy Consumption Notes and Sources," Notes 8 and 9. • **Net Imports:** Table 1.5.

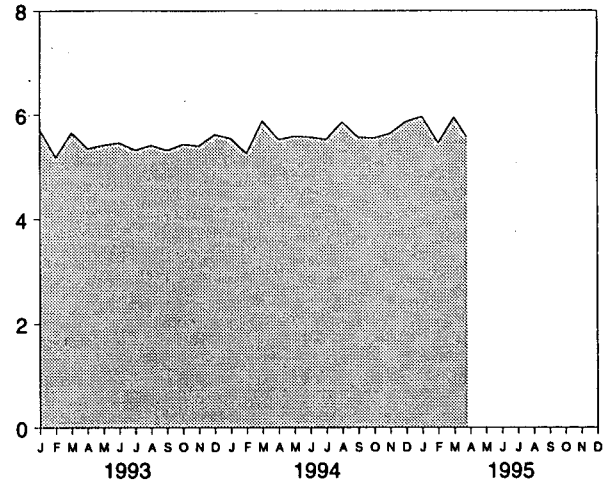
Figure 1.2 Energy Production

(Quadrillion Btu)

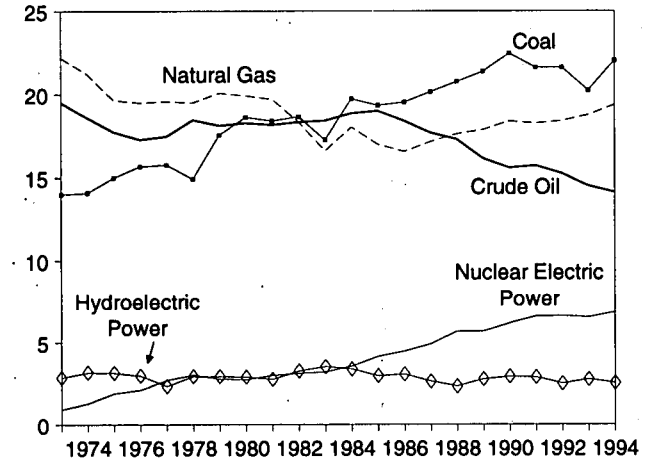
Total, 1973-1994



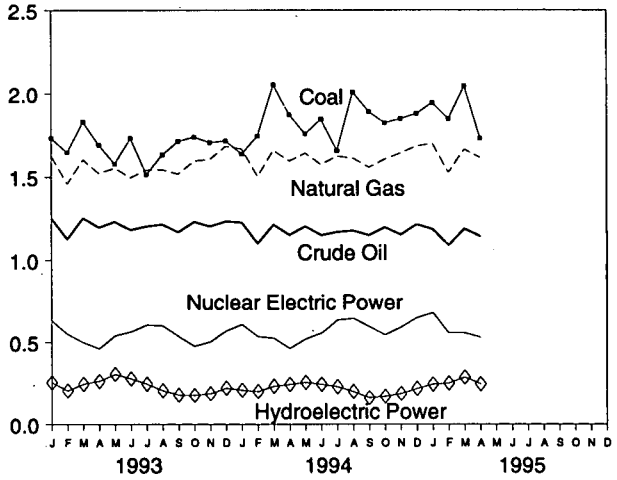
Total, Monthly



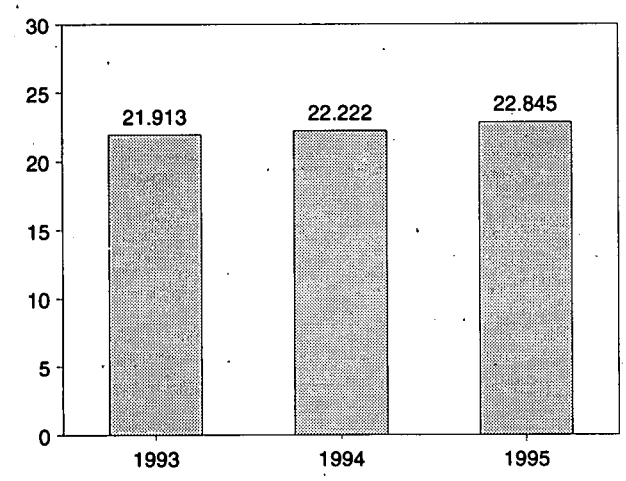
By Major Sources, 1973-1994



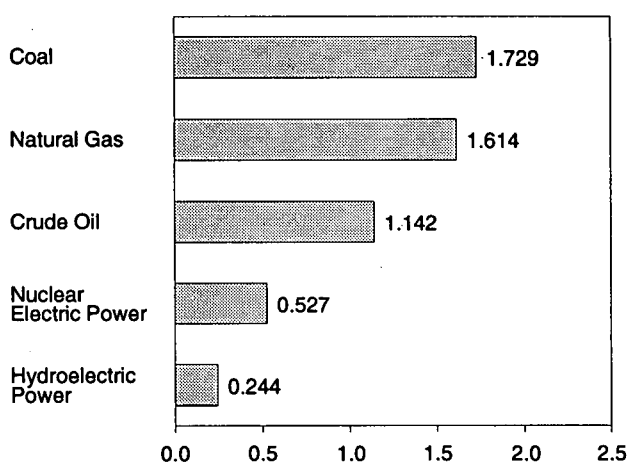
By Major Sources, Monthly



Total, January-April



By Major Sources, April 1995



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

Table 1.3 Energy Production by Source

(Quadrillion Btu)

	Coal	Natural Gas (Dry)	Crude Oil[a]	Natural Gas Plant Liquids	Nuclear Electric Power	Hydro-electric Power[b]	Geothermal Energy	Other[c]	Total[d]
1973 Total	**13.993**	**22.187**	**19.493**	**2.569**	**0.910**	**2.861**	**0.043**	**0.003**	**62.060**
1974 Total	**14.074**	**21.210**	**18.575**	**2.471**	**1.272**	**3.177**	**.053**	**.003**	**60.835**
1975 Total	**14.990**	**19.640**	**17.729**	**2.374**	**1.900**	**3.155**	**.070**	**.002**	**59.860**
1976 Total	**15.654**	**19.480**	**17.262**	**2.327**	**2.111**	**2.976**	**.078**	**.003**	**59.892**
1977 Total	**15.755**	**19.565**	**17.454**	**2.327**	**2.702**	**2.333**	**.077**	**.005**	**60.219**
1978 Total	**14.910**	**19.485**	**18.434**	**2.245**	**3.024**	**2.937**	**.064**	**.003**	**61.103**
1979 Total	**17.539**	**20.076**	**18.104**	**2.286**	**2.776**	**2.931**	**.084**	**.005**	**63.801**
1980 Total	**18.597**	**19.908**	**18.249**	**2.254**	**2.739**	**2.900**	**.110**	**.005**	**64.761**
1981 Total	**18.376**	**19.699**	**18.146**	**2.307**	**3.008**	**2.758**	**.123**	**.004**	**64.421**
1982 Total	**18.639**	**18.319**	**18.309**	**2.191**	**3.131**	**3.266**	**.105**	**.003**	**63.962**
1983 Total	**17.246**	**16.593**	**18.392**	**2.184**	**3.203**	**3.527**	**.129**	**.004**	**61.279**
1984 Total	**19.719**	**18.008**	**18.848**	**2.274**	**3.553**	**3.386**	**.165**	**.009**	**65.962**
1985 Total	**19.325**	**16.980**	**18.992**	**2.241**	**4.149**	**2.970**	**.198**	**.015**	**64.871**
1986 Total	**19.510**	**16.541**	**18.376**	**2.149**	**4.471**	**3.071**	**.219**	**.012**	**64.350**
1987 Total	**20.142**	**17.136**	**17.675**	**2.215**	**4.906**	**2.635**	**.229**	**.016**	**64.952**
1988 Total	**20.737**	**17.599**	**17.279**	**2.260**	**5.661**	**2.334**	**.217**	**.017**	**66.105**
1989 Total	**21.345**	**17.847**	**16.117**	**2.158**	**5.677**	**2.767**	**.197**	**.020**	**66.129**
1990 Total	**22.456**	**18.362**	**15.571**	**2.175**	**6.161**	**2.926**	**.181**	**.021**	**67.853**
1991 Total	**21.594**	**18.229**	**15.701**	**2.306**	**6.579**	**2.885**	**.170**	**.021**	**67.484**
1992 Total	**21.593**	**18.375**	**15.223**	**2.363**	**6.607**	**2.501**	**.170**	**.022**	**66.853**
1993 January	1.732	1.624	1.252	.205	.631	.254	.014	.002	5.714
February	1.645	1.459	1.127	.189	.548	.205	.013	.002	5.189
March	1.829	1.603	1.254	.211	.498	.245	.014	.002	5.657
April	1.691	1.521	1.197	.205	.461	.262	.014	.002	5.354
May	1.577	1.552	1.231	.204	.538	.305	.012	.001	5.420
June	1.731	1.496	1.182	.200	.562	.277	.012	.001	5.462
July	1.514	1.541	1.203	.205	.604	.245	.013	.001	5.327
August	1.631	1.543	1.215	.206	.600	.205	.014	.002	5.416
September	1.712	1.516	1.168	.198	.534	.178	.013	.002	5.321
October	1.738	1.594	1.230	.208	.475	.176	.013	.002	5.435
November	1.705	1.604	1.203	.190	.501	.186	.013	.002	5.403
December	1.715	1.683	1.233	.186	.567	.220	.013	.002	5.619
Total	**20.221**	**18.736**	**14.494**	**2.408**	**6.519**	**2.757**	**.158**	**.021**	**65.315**
1994 January	1.636	1.667	1.226	.190	.607	.207	.013	.002	5.548
February	1.744	1.502	1.100	.174	.532	.199	.012	.002	5.264
March	2.052	1.658	1.213	.196	.523	.231	.012	.002	5.886
April	1.872	1.593	1.151	.191	.461	.242	.012	.002	5.524
May	1.757	R1.641	1.203	.201	.518	.254	.012	.002	R5.587
June	1.844	R1.573	1.150	.197	.553	.243	.011	.002	R5.573
July	1.656	1.622	1.169	.206	.632	.228	.012	.002	5.526
August	2.009	1.611	1.177	.207	.642	.199	.013	.002	5.859
September	1.890	1.557	1.150	.204	.594	.161	.012	.002	5.569
October	1.822	1.604	1.197	.206	.542	.170	.012	.002	5.554
November	1.847	1.642	1.153	.207	.590	.186	.012	.002	5.640
December	1.879	1.684	1.215	.213	.646	.217	.012	.002	5.869
Total	**22.008**	R19.353	**14.103**	**2.391**	**6.841**	**2.538**	**.145**	**.020**	**67.400**
1995 January	1.944	R1.699	1.186	.209	.677	.243	.009	.001	R5.967
February	1.846	R1.525	1.089	.188	.554	.249	.006	.001	R5.458
March	2.045	R1.664	1.188	.209	.554	.285	.007	.001	R5.953
April	1.729	1.614	1.142	.204	.527	.244	.006	.002	5.466
4-Month Total	**7.564**	**6.502**	**4.604**	**.809**	**2.312**	**1.021**	**.027**	**.005**	**22.845**
1994 4-Month Total	**7.304**	**6.420**	**4.689**	**.751**	**2.124**	**.879**	**.050**	**.007**	**22.222**
1993 4-Month Total	**6.897**	**6.208**	**4.830**	**.811**	**2.139**	**.967**	**.054**	**.007**	**21.913**

[a] Includes lease condensate.

[b] Electric utility and industrial generation.

[c] "Other" production is electricity generated for distribution from wood, waste, wind, photovoltaic, and solar thermal energy.

[d] Due to a lack of consistent historical data, some renewable energy sources are not included. For example, in 1992, 3.0 quadrillion Btu of renewable energy consumed by U.S. electric utilities to generate electricity for distribution is included, but an estimated 3.0 quadrillion Btu of renewable energy used by other sectors is not included.

R=Revised data.

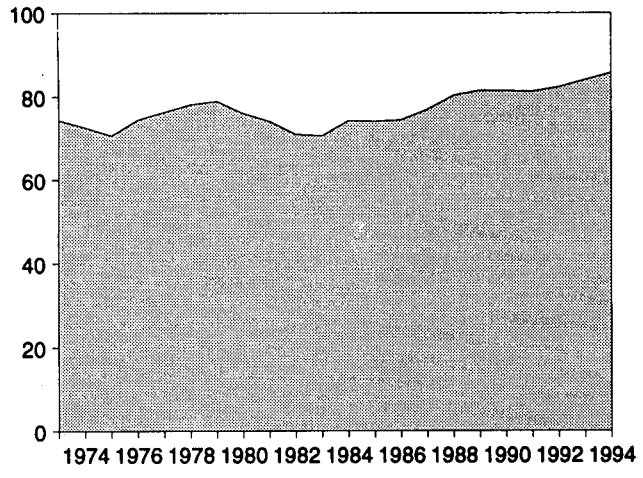
Notes: • See Note 1 at end of section. • Totals may not equal sum of components due to independent rounding. • Geographic coverage is the 50 States and the District of Columbia.

Sources: • **Coal:** Tables 6.1 and A5-A7. • **Natural Gas (Dry):** Tables 4.1 and A4. • **Crude Oil and Natural Gas Plant Liquids:** Tables 3.1a and A2. • **Nuclear Electric Power:** Tables 7.1 and A8. • **Hydroelectric Power:** Table 7.1; Section 2, "Energy Consumption Notes and Sources," Note 8; and Table A8. • **Geothermal Energy and Other:** Section 2, "Energy Consumption Notes and Sources," Note 7, and Table A8.

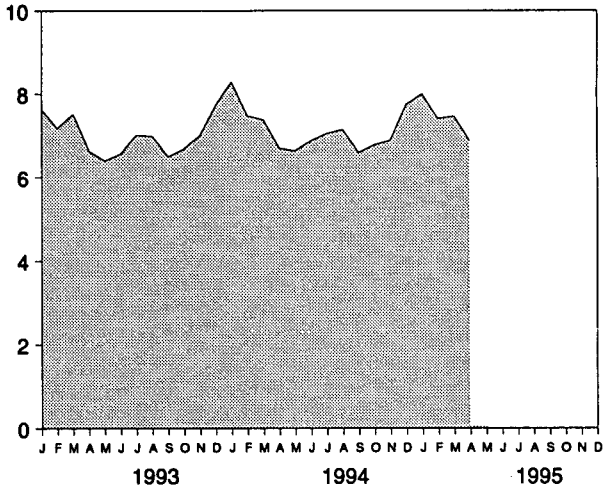
Figure 1.3 Energy Consumption

(Quadrillion Btu)

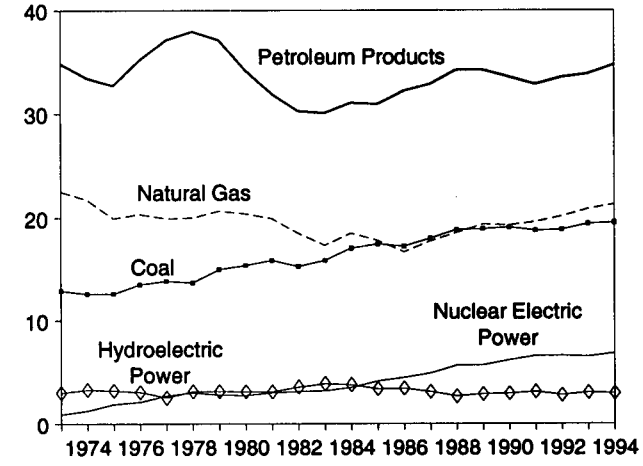
Total, 1973-1994



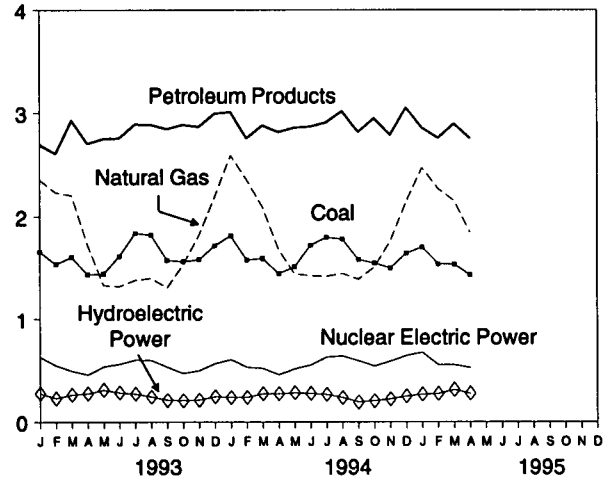
Total, Monthly



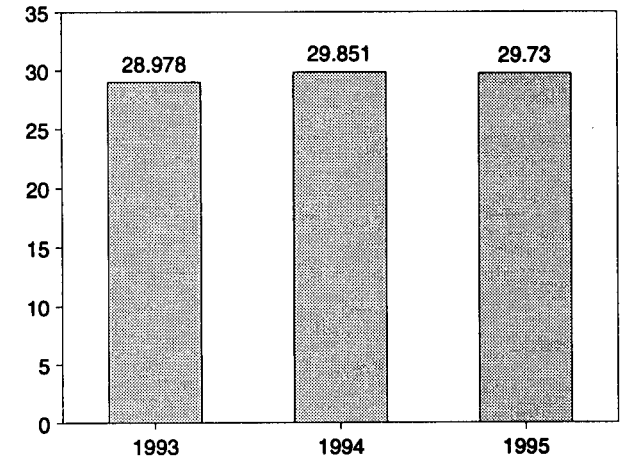
By Major Sources, 1973-1994



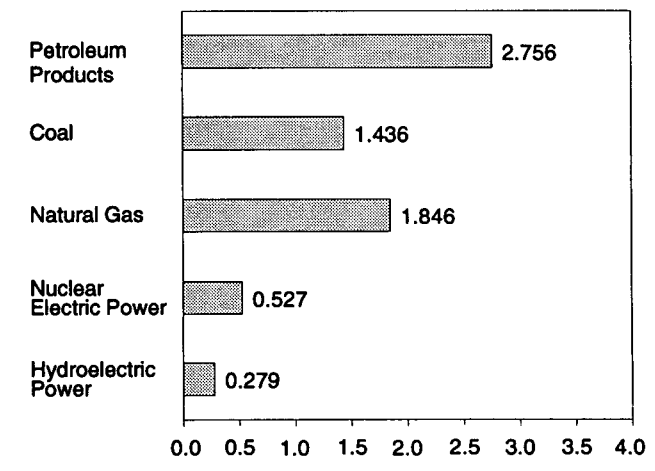
By Major Sources, Monthly



Total, January-April



By Major Sources, April 1995



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

Table 1.4 Energy Consumption by Source

(Quadrillion Btu)

	Coal	Natural Gas[a]	Petroleum Products[b]	Nuclear Electric Power	Hydro-electric Power[c]	Geothermal Energy	Other[d]	Total[e]
1973 Total	**12.971**	**22.512**	**34.840**	**0.910**	**3.010**	**0.043**	**-0.004**	**74.282**
1974 Total	**12.663**	**21.732**	**33.455**	**1.272**	**3.309**	**.053**	**.059**	**72.543**
1975 Total	**12.663**	**19.948**	**32.731**	**1.900**	**3.219**	**.070**	**.016**	**70.546**
1976 Total	**13.584**	**20.345**	**35.175**	**2.111**	**3.066**	**.078**	**.003**	**74.362**
1977 Total	**13.922**	**19.931**	**37.122**	**2.702**	**2.515**	**.077**	**.020**	**76.288**
1978 Total	**13.765**	**20.000**	**37.965**	**3.024**	**3.141**	**.064**	**.128**	**78.089**
1979 Total	**15.039**	**20.666**	**37.123**	**2.776**	**3.141**	**.084**	**.068**	**78.898**
1980 Total	**15.423**	**20.394**	**34.202**	**2.739**	**3.118**	**.110**	**-.031**	**75.955**
1981 Total	**15.907**	**19.928**	**31.931**	**3.008**	**3.105**	**.123**	**-.012**	**73.990**
1982 Total	**15.322**	**18.505**	**30.231**	**3.131**	**3.572**	**.105**	**-.018**	**70.848**
1983 Total	**15.894**	**17.357**	**30.054**	**3.203**	**3.899**	**.129**	**-.012**	**70.524**
1984 Total	**17.071**	**18.507**	**31.051**	**3.553**	**3.800**	**.165**	**-.002**	**74.144**
1985 Total	**17.478**	**17.834**	**30.922**	**4.149**	**3.398**	**.198**	**.001**	**73.981**
1986 Total	**17.261**	**16.708**	**32.196**	**4.471**	**3.446**	**.219**	**-.004**	**74.297**
1987 Total	**18.008**	**17.744**	**32.865**	**4.906**	**3.117**	**.229**	**.024**	**76.894**
1988 Total	**18.846**	**18.552**	**34.222**	**5.661**	**2.662**	**.217**	**.057**	**80.218**
1989 Total	**18.925**	**19.384**	**34.211**	**5.677**	**2.881**	**.197**	**.051**	**81.325**
1990 Total	**19.101**	**19.296**	**33.553**	**6.161**	**2.946**	**.181**	**.026**	**81.265**
1991 Total	**18.770**	**19.606**	**32.845**	**6.579**	**3.115**	**.170**	**.030**	**81.116**
1992 Total	**18.868**	**20.131**	**33.527**	**6.607**	**2.793**	**.170**	**.049**	**82.144**
1993 January	1.660	2.354	2.697	.631	.278	.014	.006	7.640
February	1.540	2.233	2.611	.548	.229	.013	.001	7.175
March	1.609	2.204	2.931	.498	.266	.014	.005	7.526
April	1.442	1.730	2.708	.461	.278	.014	.004	6.637
May	1.448	1.338	2.753	.538	.314	.012	.004	6.406
June	1.618	1.328	2.759	.562	.287	.012	.004	6.570
July	1.840	1.388	2.894	.604	.275	.013	.001	7.015
August	1.823	1.406	2.890	.600	.245	.014	.004	6.981
September	1.580	1.315	2.848	.534	.212	.013	.001	6.503
October	1.566	1.534	2.889	.475	.208	.013	.003	6.687
November	1.584	1.819	2.869	.501	.213	.013	.002	7.000
December	1.720	2.192	2.994	.567	.247	.013	.004	7.737
Total	**19.430**	**20.841**	**33.841**	**6.519**	**3.050**	**.158**	**.038**	**83.877**
1994 January	1.816	2.594	3.009	.607	.239	.013	.006	8.284
February	R1.581	2.357	2.758	.532	.240	.012	.001	R7.480
March	1.596	2.091	2.883	.523	.276	.012	.003	7.384
April	R1.450	1.682	2.818	.461	.276	.012	.004	R6.703
May	1.515	1.447	2.861	.518	.286	.012	.003	6.642
June	R1.724	1.431	2.871	.553	.279	.011	.004	R6.872
July	R1.800	1.423	2.911	.632	.269	.012	.002	R7.049
August	R1.782	1.451	3.016	.642	.237	.013	.003	R7.144
September	1.584	1.395	2.818	.594	.192	.012	.004	R6.600
October	1.551	1.512	2.950	.542	.205	.012	.007	6.779
November	R1.504	1.762	2.790	.590	.223	.012	.001	R6.883
December	1.645	2.142	3.050	.646	.252	.012	.004	7.752
Total	R**19.547**	**21.286**	**34.735**	**6.841**	**2.973**	**.145**	**.044**	R**85.572**
1995 January	R1.706	2.472	2.858	.677	.270	.009	.005	R7.996
February	R1.542	R2.269	2.760	.554	.276	.006	.003	R7.411
March	R1.539	R2.152	2.898	.554	.316	.007	.004	R7.470
April	1.436	1.846	2.756	.527	.279	.006	.003	6.852
4-Month Total	**6.223**	**8.739**	**11.272**	**2.312**	**1.141**	**.027**	**.015**	**29.730**
1994 4-Month Total	**6.443**	**8.723**	**11.467**	**2.124**	**1.030**	**.050**	**.014**	**29.851**
1993 4-Month Total	**6.251**	**8.522**	**10.946**	**2.139**	**1.050**	**.054**	**.016**	**28.978**

[a] Includes supplemental gaseous fuels.

[b] Products obtained from the processing of crude oil (including lease condensate), natural gas, and other hydrocarbon compounds.

[c] Electric utility and industrial generation and net imports of electricity.

[d] "Other" consumption is net imports of coal coke and electricity generated for distribution from wood, waste, wind, photovoltaic, and solar thermal energy.

[e] Due to a lack of consistent historical data, some renewable energy sources are not included. For example, in 1992, 3.0 quadrillion Btu of renewable energy consumed by U.S. electric utilities to generate electricity for distribution is included, but an estimated 3.0 quadrillion Btu of renewable energy used by other sectors is not included.

R=Revised data.

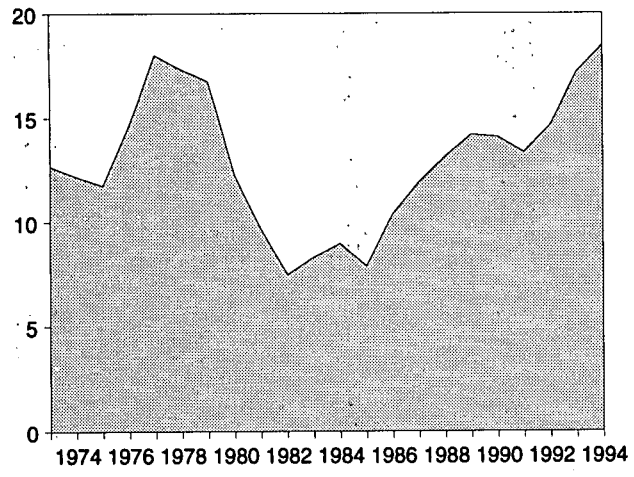
Notes: • See Note 2 at end of section. • Totals may not equal sum of components due to independent rounding. • Geographic coverage is the 50 States and the District of Columbia.

Sources: • **Coal:** Tables 6.1 and A5-A7. • **Natural Gas:** Tables 4.2 and A4. • **Petroleum:** Tables 3.1a and A3. • **Nuclear Electric Power:** Tables 7.1 and A8. • **Hydroelectric Power:** Table 7.1; Section 2, "Energy Consumption Notes and Sources," Note 8; and Table A8. • **Geothermal Energy and Other:** Section 2, "Energy Consumption Notes and Sources," Note 7, and Table A8.

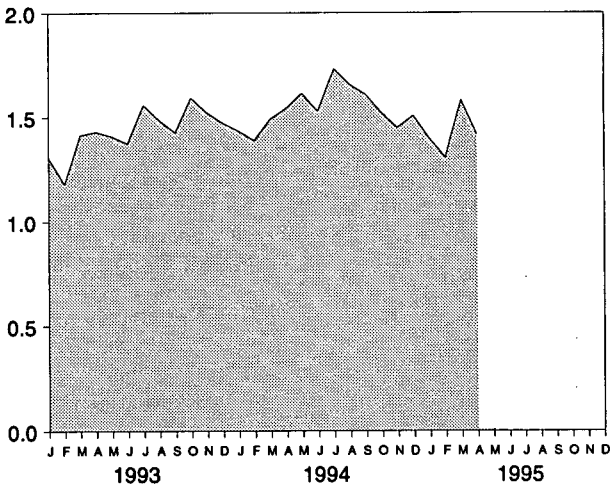
Figure 1.4 Energy Net Imports

(Quadrillion Btu, Except as Noted)

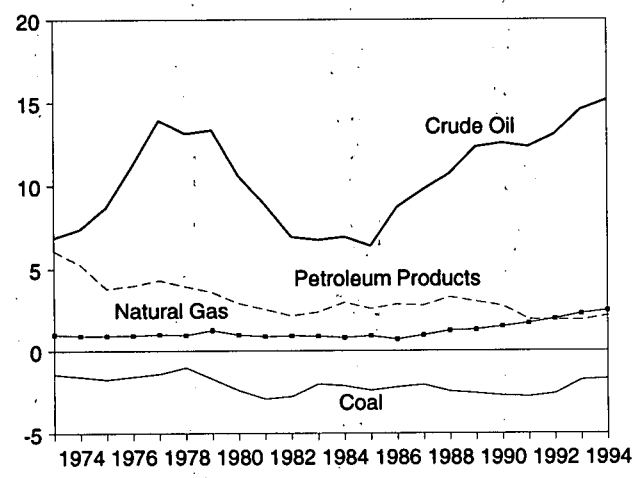
Total, 1973-1994



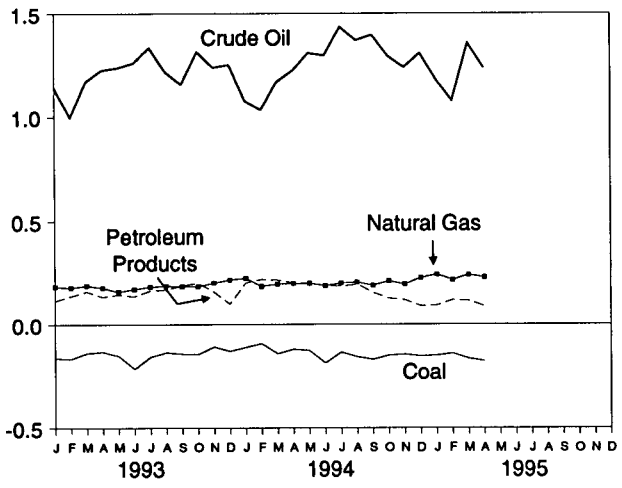
Total, Monthly



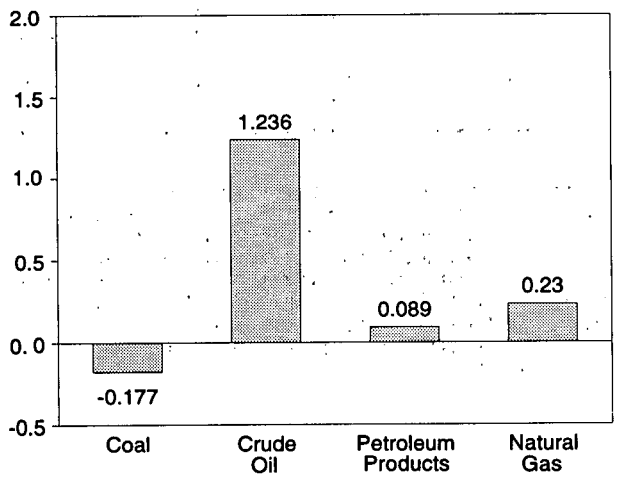
By Major Sources, 1973-1994



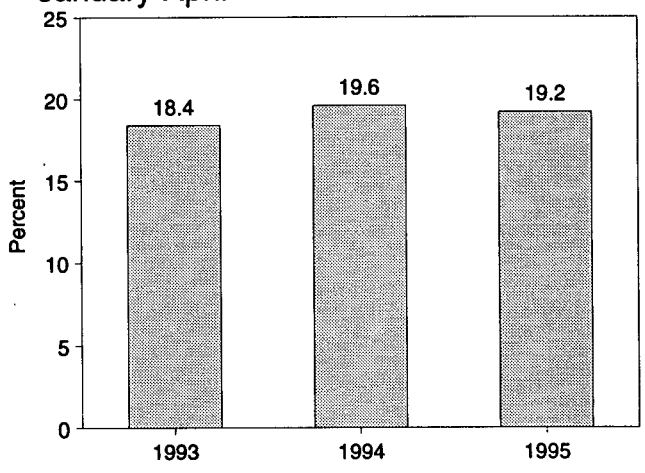
By Major Sources, Monthly



By Major Sources, April 1995



As Share of Consumption, January-April



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

Table 1.5 Energy Net Imports by Source

(Quadrillion Btu)

	Coal	Natural Gas	Crude Oil[a]	Petroleum Products[b]	Electricity[c]	Coal Coke	Total
1973 Total	**-1.422**	**0.981**	**6.883**	**6.097**	**0.148**	**-0.007**	**12.680**
1974 Total	**-1.568**	**.907**	**7.389**	**5.273**	**.133**	**.056**	**12.190**
1975 Total	**-1.738**	**.904**	**8.708**	**3.800**	**.064**	**.014**	**11.752**
1976 Total	**-1.567**	**.922**	**11.221**	**3.982**	**.089**	**(s)**	**14.648**
1977 Total	**-1.401**	**.981**	**13.921**	**4.321**	**.182**	**.015**	**18.019**
1978 Total	**-1.004**	**.941**	**13.125**	**3.932**	**.204**	**.125**	**17.323**
1979 Total	**-1.702**	**1.243**	**13.328**	**3.603**	**.211**	**.063**	**16.746**
1980 Total	**-2.391**	**.957**	**10.586**	**2.912**	**.217**	**-.035**	**12.247**
1981 Total	**-2.918**	**.857**	**8.854**	**2.522**	**.347**	**-.016**	**9.646**
1982 Total	**-2.768**	**.898**	**6.917**	**2.128**	**.306**	**-.022**	**7.460**
1983 Total	**-2.013**	**.885**	**6.731**	**2.351**	**.372**	**-.016**	**8.310**
1984 Total	**-2.119**	**.792**	**6.918**	**2.970**	**.414**	**-.011**	**8.963**
1985 Total	**-2.389**	**.896**	**6.381**	**2.570**	**.428**	**-.013**	**7.872**
1986 Total	**-2.193**	**.686**	**8.676**	**2.855**	**.375**	**-.017**	**10.382**
1987 Total	**-2.049**	**.937**	**9.748**	**2.784**	**.483**	**.009**	**11.911**
1988 Total	**-2.446**	**1.221**	**10.698**	**3.308**	**.328**	**.040**	**13.149**
1989 Total	**-2.566**	**1.278**	**12.296**	**3.029**	**.113**	**.030**	**14.181**
1990 Total	**-2.705**	**1.464**	**12.536**	**2.757**	**.020**	**.005**	**14.077**
1991 Total	**-2.769**	**1.666**	**12.308**	**1.912**	**.231**	**.009**	**13.357**
1992 Total	**-2.587**	**1.941**	**13.065**	**1.895**	**.292**	**.027**	**14.633**
1993 January	-.163	.187	1.138	.118	.023	.004	1.308
February	-.166	.182	.999	.142	.023	(s)	1.181
March	-.138	.192	1.172	.164	.021	.003	1.414
April	-.132	.181	1.225	.138	.016	.002	1.430
May	-.152	.163	1.237	.149	.009	.002	1.408
June	-.214	.175	1.260	.140	.010	.003	1.375
July	-.157	.186	1.334	.168	.030	(s)	1.560
August	-.135	.190	1.216	.173	.040	.002	1.486
September	-.142	.188	1.157	.191	.034	-.001	1.426
October	-.144	.187	1.314	.204	.032	.001	1.595
November	-.108	.204	1.238	.163	.027	(s)	1.524
December	-.129	.219	1.251	.102	.028	.002	1.472
Total	**-1.780**	**2.255**	**14.542**	**1.854**	**.292**	**.017**	**17.180**
1994 January	-.111	.227	1.077	.205	E .032	.004	1.434
February	-.093	.188	1.033	.221	E .040	-.001	1.388
March	-.141	.199	1.168	.218	E .045	.002	1.491
April	-.120	.201	1.221	.205	E .034	.003	1.544
May	-.126	.202	1.307	.201	E .032	.002	1.616
June	-.187	.191	1.295	.192	E .035	.003	1.529
July	-.134	.203	1.434	.188	E .040	(s)	1.732
August	-.157	.208	1.368	.197	E .038	.002	1.655
September	-.170	.192	1.394	.159	E .031	.003	1.610
October	-.150	.213	1.292	.130	E .035	.005	1.524
November	-.145	.198	1.238	.122	E .037	-.001	1.449
December	-.154	.228	1.306	.091	E .035	.002	1.508
Total	**-1.689**	**2.450**	**15.133**	**2.128**	**E .436**	**.024**	**18.481**
1995 January	-.150	.244	1.179	.094	E .028	.004	1.399
February	-.140	.219	1.078	.122	E .027	.002	1.309
March	-.166	R .242	1.355	.119	E .031	.003	R 1.584
April	-.177	.230	1.236	.089	E .035	.001	1.414
4-Month Total	**-.632**	**.935**	**4.848**	**.424**	**.120**	**.010**	**5.706**
1994 4-Month Total	**-.465**	**.815**	**4.499**	**.849**	**E .152**	**.007**	**5.857**
1993 4-Month Total	**-.598**	**.742**	**4.535**	**.562**	**.084**	**.009**	**5.333**

[a] Crude oil, lease condensate, and imports of crude oil for the Strategic Petroleum Reserve.

[b] Petroleum products, unfinished oils, pentanes plus, and gasoline blending components.

[c] Assumed to be hydroelectricity and estimated at the average input heat rate for fossil-fuel steam-electric power plant generation, which has ranged from 10.2 thousand Btu to 10.5 thousand Btu per kilowatthour since 1973. Actual heat rates applied in converting kilowatthours to Btu are listed by year in Table A8.

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

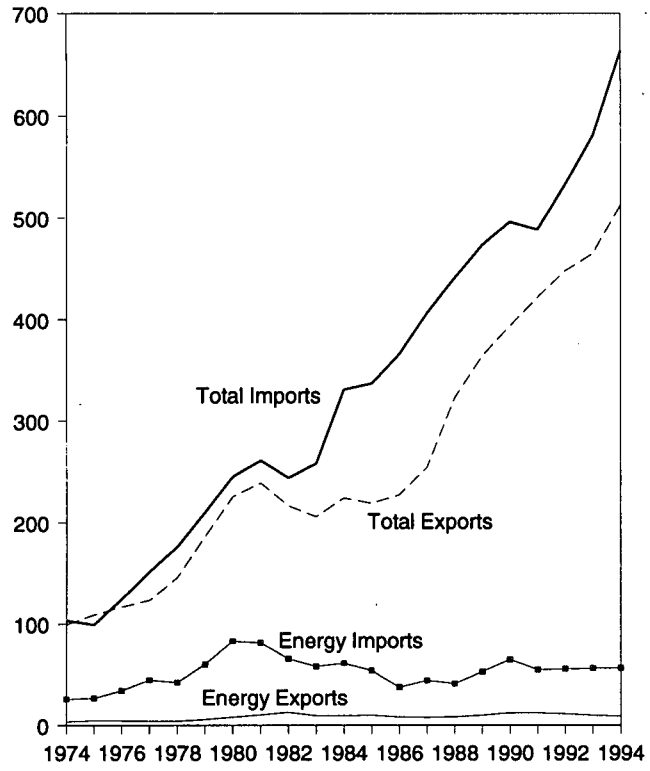
Notes: • See Notes 3 and 4 at end of section. • Net imports equal imports minus exports. Minus sign indicates exports are greater than imports. • Totals may not equal sum of components due to independent rounding. • Geographic coverage is the 50 States and the District of Columbia.

Sources: • **Coal:** Tables 6.1 and A5-A7. • **Natural Gas:** Tables 4.2 and A4. • **Crude Oil and Petroleum Products:** Tables 3.1b and A2. • **Electricity:** Section 2, "Energy Consumption Notes and Sources," Note 8, and Table A8. • **Coal Coke:** Section 2, "Energy Consumption Notes and Sources," Note 9, and Table A7.

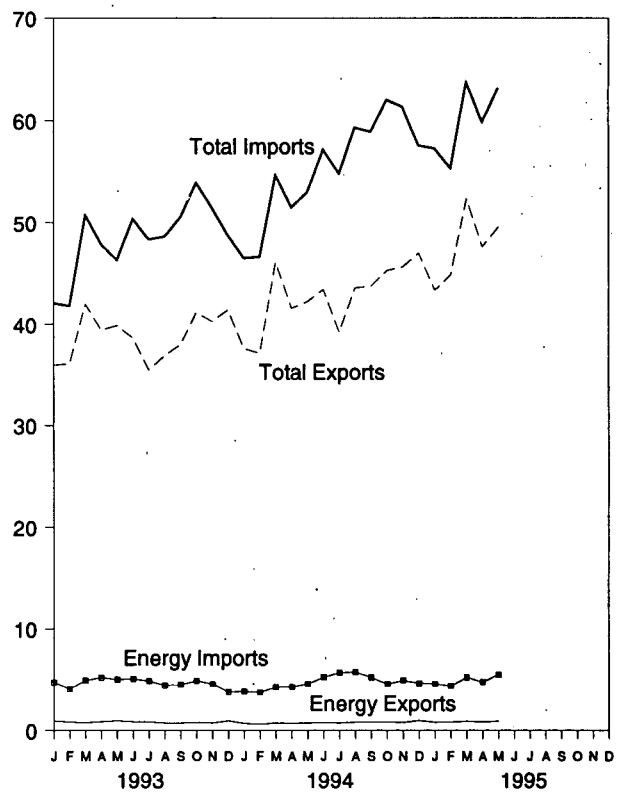
Figure 1.5 Merchandise Trade Value

(Billion Dollars)

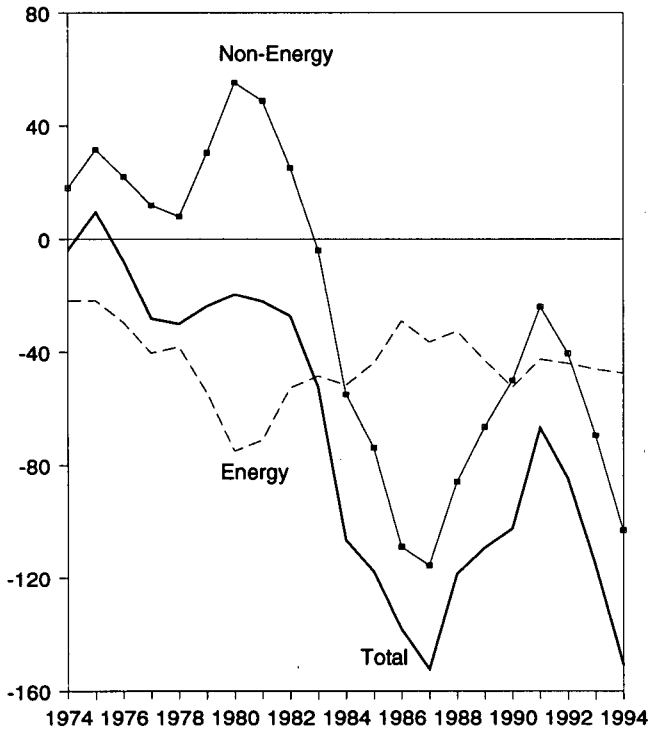
Imports and Exports, 1974-1994



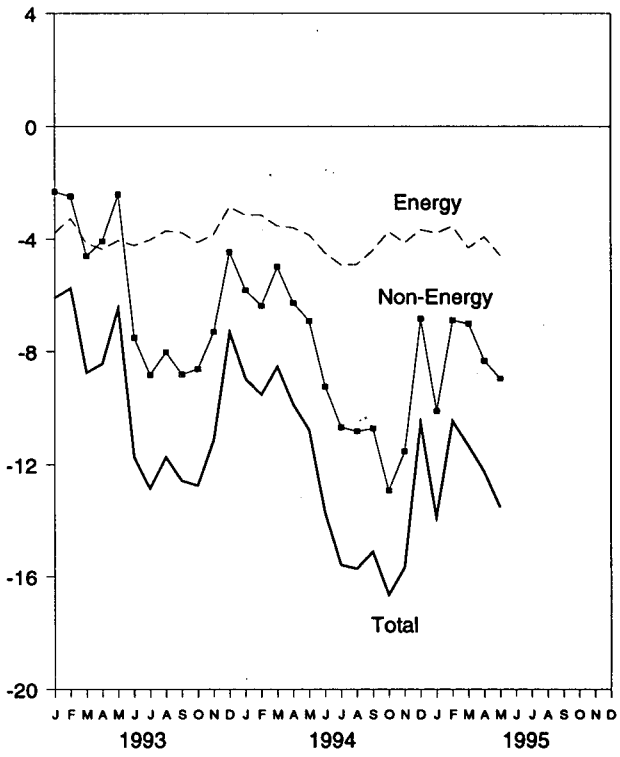
Imports and Exports, Monthly



Trade Balance, 1974-1994



Trade Balance, Monthly



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

Table 1.6 Merchandise Trade Value

(Million Dollars)

	Petroleum			Energy			Non-Energy Balance	Total Merchandise		
	Exports	Imports	Balance	Exports	Imports	Balance		Exports	Imports	Balance
1974 Total	792	24,668	-23,876	3,444	25,454	-22,010	18,126	99,437	103,321	-3,884
1975 Total	907	25,197	-24,289	4,470	26,476	-22,006	31,557	108,856	99,305	9,551
1976 Total	998	32,226	-31,228	4,226	33,996	-29,770	21,950	116,794	124,614	-7,820
1977 Total	1,276	42,368	-41,093	4,184	44,537	-40,354	12,001	123,182	151,534	-28,353
1978 Total	1,561	39,526	-37,965	3,881	42,096	-38,215	8,010	145,847	176,052	-30,205
1979 Total	1,914	56,715	-54,801	5,621	59,998	-54,377	30,455	186,363	210,285	-23,922
1980 Total	2,833	78,637	-75,803	7,982	82,924	-74,942	55,246	225,566	245,262	-19,696
1981 Total	3,696	76,659	-72,963	10,279	81,360	-71,081	48,814	238,715	260,982	-22,267
1982 Total	5,947	60,458	-54,511	12,729	65,409	-52,680	25,170	216,442	243,952	-27,510
1983 Total	4,557	53,217	-48,659	9,500	57,952	-48,452	-3,957	205,639	258,048	-52,409
1984 Total	4,470	56,924	-52,454	9,311	60,980	-51,669	-55,033	223,976	330,678	-106,703
1985 Total	4,707	50,475	-45,768	9,971	53,917	-43,946	-73,765	218,815	336,526	-117,712
1986 Total	3,640	35,142	-31,503	8,115	37,310	-29,195	-109,084	227,159	365,438	-138,279
1987 Total	3,922	42,285	-38,363	7,713	44,220	-36,506	-115,613	254,122	406,241	-152,119
1988 Total	3,693	38,787	-35,094	8,235	41,042	-32,806	-85,720	322,426	440,952	-118,526
1989 Total	5,021	49,704	-44,683	9,869	52,779	-42,910	-66,490	363,812	473,211	-109,399
1990 Total	6,901	61,583	-54,682	12,233	64,661	-52,428	-50,068	393,592	496,088	-102,496
1991 Total	6,954	51,350	-44,396	12,081	54,629	-42,548	-24,175	421,730	488,453	-66,723
1992 Total	6,412	51,217	-44,805	11,254	55,256	-44,002	-40,500	448,164	532,665	-84,501
1993 January	601	4,282	-3,681	923	4,711	-3,788	-2,313	35,958	42,058	-6,101
February	477	3,718	-3,241	807	4,075	-3,268	-2,478	36,070	41,817	-5,746
March	470	4,498	-4,028	753	4,904	-4,151	-4,596	41,999	50,745	-8,747
April	590	4,814	-4,225	844	5,194	-4,350	-4,081	39,421	47,851	-8,431
May	641	4,619	-3,978	939	4,990	-4,051	-2,410	39,870	46,331	-6,461
June	443	4,714	-4,272	843	5,069	-4,226	-7,513	38,624	50,362	-11,738
July	514	4,464	-3,950	819	4,845	-4,026	-8,826	35,465	48,317	-12,852
August	453	4,000	-3,547	714	4,426	-3,712	-8,022	36,876	48,611	-11,735
September	422	4,056	-3,634	712	4,480	-3,769	-8,802	37,956	50,526	-12,570
October	467	4,449	-3,982	761	4,876	-4,115	-8,626	41,148	53,889	-12,742
November	479	4,084	-3,605	720	4,553	-3,833	-7,307	40,294	51,434	-11,140
December	658	3,348	-2,690	922	3,778	-2,856	-4,452	41,412	48,719	-7,307
Total	**6,215**	**51,046**	**-44,831**	**9,756**	**55,900**	**-46,144**	**-69,425**	**465,091**	**580,659**	**-115,568**
1994 January	450	3,272	-2,822	674	3,815	-3,141	-5,813	37,561	46,514	-8,954
February	381	3,243	-2,862	594	3,735	-3,141	-6,387	37,126	46,654	-9,528
March	440	3,695	-3,255	710	4,249	-3,539	-4,985	46,139	54,663	-8,524
April	426	3,790	-3,364	659	4,263	-3,604	-6,281	41,587	51,472	-9,885
May	483	4,115	-3,632	717	4,562	-3,845	-6,927	R42,215	52,987	-10,772
June	413	4,794	-4,381	736	5,213	-4,477	-9,237	43,425	57,139	-13,714
July	450	5,168	-4,718	718	5,629	-4,911	-10,678	39,218	54,807	-15,589
August	499	5,225	-4,726	793	5,691	-4,898	-10,817	43,589	59,304	-15,715
September	472	4,773	-4,301	792	5,185	-4,393	-10,721	43,766	58,880	-15,114
October	530	4,153	-3,623	809	4,543	-3,734	-12,923	45,314	61,970	-16,657
November	478	4,475	-3,997	764	4,890	-4,126	-11,534	45,674	61,334	-15,660
December	637	4,135	-3,498	944	4,615	-3,671	-6,847	47,013	57,531	-10,518
Total	**5,659**	**50,835**	**-45,176**	**8,911**	**56,391**	**-47,480**	**-103,149**	**512,626**	**663,256**	**-150,629**
1995 January	488	4,129	-3,641	783	4,568	-3,785	-10,108	43,355	57,249	-13,893
February	528	3,909	-3,381	798	4,345	-3,547	-6,908	44,863	55,318	-10,455
March	553	4,712	-4,159	879	5,188	-4,309	-7,016	52,353	63,679	-11,325
April	498	4,337	-3,839	814	4,732	-3,918	R-8,322	R47,608	R59,848	R-12,240
May	540	5,060	-4,520	886	5,453	-4,567	-8,958	49,570	63,094	-13,525
5-Month Total	**2,605**	**22,146**	**-19,541**	**4,161**	**24,285**	**-20,124**	**-41,315**	**237,749**	**299,188**	**-61,439**
1994 5-Month Total	**2,180**	**18,115**	**-15,935**	**3,354**	**20,624**	**-17,270**	**-30,393**	**204,928**	**252,290**	**-47,663**
1993 5-Month Total	**2,780**	**21,932**	**-19,152**	**4,266**	**23,872**	**-19,607**	**-15,878**	**193,317**	**228,802**	**-35,485**

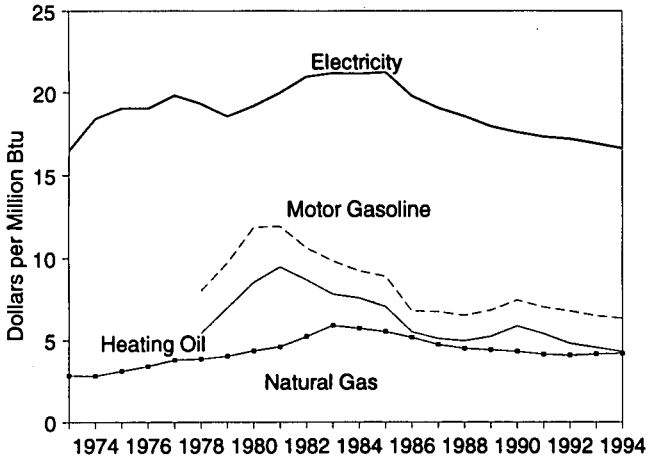
R=Revised data.

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.

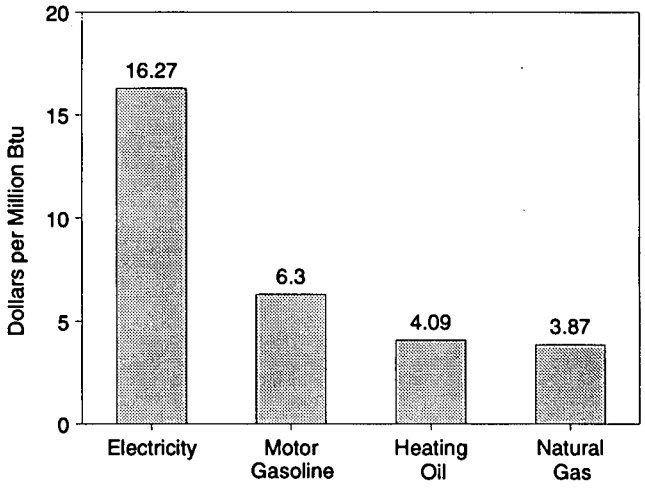
Sources: • U.S. Department of Commerce, Bureau of the Census, Foreign Trade Division. For details, see "Sources for Table 1.6" at the end of this section.

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

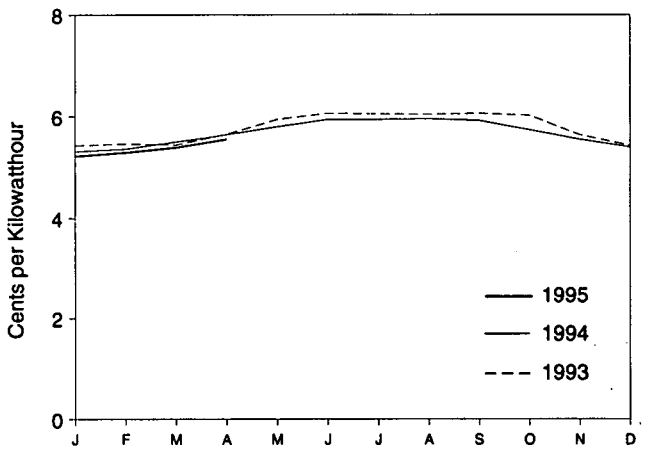
Costs, 1973-1994



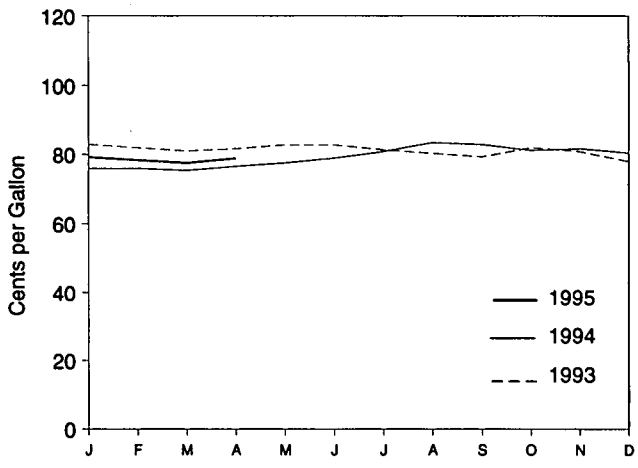
Costs, April 1995



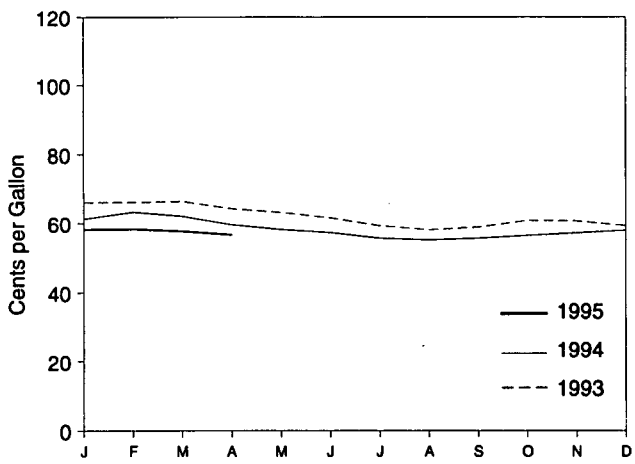
Electricity, Monthly



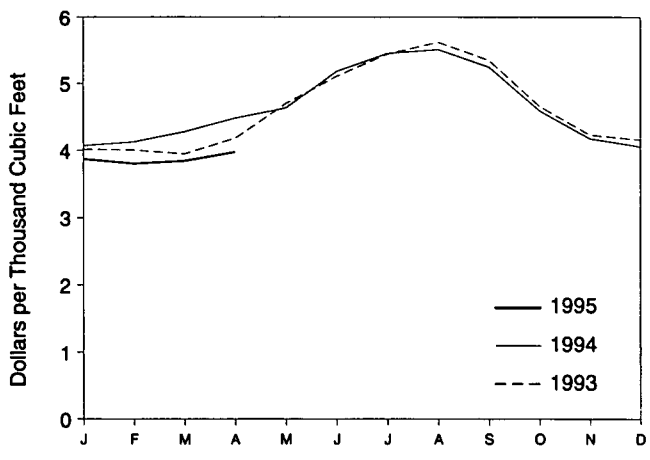
Motor Gasoline, Monthly



Heating Oil, Monthly



Natural Gas, Monthly



Source: Table 1.7.

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

	Consumer Price Index (Urban)[a]	Motor Gasoline (All Types)		Residential Heating Oil		Residential Natural Gas		Residential Electricity	
	Index 1982-1984=100	Cents per Gallon	Dollars per Million Btu	Cents per Gallon	Dollars per Million Btu	Cents per Thousand Cubic Feet	Dollars per Million Btu	Cents per Kilowatthour	Dollars per Million Btu
1973 Average	**44.4**	**NA**	**NA**	**NA**	**NA**	**290.5**	**2.85**	**5.6**	**16.50**
1974 Average	**49.3**	**NA**	**NA**	**NA**	**NA**	**290.1**	**2.83**	**6.3**	**18.43**
1975 Average	**53.8**	**NA**	**NA**	**NA**	**NA**	**317.8**	**3.12**	**6.5**	**19.07**
1976 Average	**56.9**	**NA**	**NA**	**NA**	**NA**	**348.0**	**3.41**	**6.5**	**19.06**
1977 Average	**60.6**	**NA**	**NA**	**NA**	**NA**	**387.8**	**3.81**	**6.8**	**19.83**
1978 Average	**65.2**	**100.0**	**8.00**	**75.2**	**5.42**	**392.6**	**3.86**	**6.6**	**19.33**
1979 Average	**72.6**	**121.5**	**9.71**	**97.0**	**6.99**	**410.5**	**4.03**	**6.3**	**18.57**
1980 Average	**82.4**	**148.2**	**11.85**	**118.2**	**8.52**	**446.6**	**4.36**	**6.6**	**19.21**
1981 Average	**90.9**	**148.8**	**11.90**	**131.4**	**9.47**	**471.9**	**4.60**	**6.8**	**19.99**
1982 Average	**96.5**	**132.7**	**10.61**	**120.2**	**8.67**	**535.8**	**5.22**	**7.2**	**20.96**
1983 Average	**99.6**	**123.0**	**9.83**	**108.2**	**7.80**	**608.4**	**5.90**	**7.2**	**21.19**
1984 Average	**103.9**	**115.3**	**9.22**	**105.0**	**7.57**	**589.0**	**5.72**	**7.2**	**21.16**
1985 Average	**107.6**	**111.2**	**8.89**	**97.9**	**7.06**	**568.8**	**5.52**	**7.2**	**21.25**
1986 Average	**109.6**	**84.9**	**6.79**	**76.3**	**5.50**	**531.9**	**5.17**	**6.8**	**19.79**
1987 Average	**113.6**	**84.2**	**6.74**	**70.7**	**5.10**	**487.7**	**4.73**	**6.5**	**19.09**
1988 Average	**118.3**	**81.4**	**6.51**	**68.7**	**4.96**	**462.4**	**4.49**	**6.3**	**18.58**
1989 Average	**124.0**	**85.5**	**6.83**	**72.6**	**5.23**	**454.8**	**4.41**	**6.1**	**17.96**
1990 Average	**130.7**	**93.1**	**7.44**	**81.3**	**5.86**	**443.8**	**4.31**	**6.01**	**17.60**
1991 Average	**136.2**	**87.8**	**7.02**	**74.8**	**5.39**	**427.3**	**4.14**	**5.91**	**17.32**
1992 Average	**140.3**	**84.8**	**6.78**	**66.6**	**4.80**	**419.8**	**4.07**	**5.87**	**17.19**
1993 January	142.6	82.9	6.63	66.1	4.77	401.8	3.91	5.43	15.93
February	143.1	81.9	6.55	66.1	4.77	400.4	3.90	5.46	16.00
March	143.6	81.0	6.48	66.4	4.79	394.8	3.84	5.44	15.94
April	144.0	81.6	6.52	64.3	4.64	418.1	4.07	5.65	16.57
May	144.2	82.7	6.61	63.2	4.56	470.2	4.57	5.94	17.42
June	144.4	82.7	6.61	61.6	4.44	510.4	4.96	6.06	17.76
July	144.4	81.3	6.50	59.3	4.27	543.6	5.29	6.05	17.74
August	144.8	80.3	6.42	58.1	4.19	561.5	5.46	6.04	17.69
September	145.1	79.3	6.34	58.9	4.25	534.1	5.20	6.06	17.77
October	145.7	81.9	6.55	60.9	4.39	466.0	4.53	6.02	17.64
November	145.8	80.8	6.46	60.7	4.38	423.2	4.12	5.64	16.52
December	145.8	77.9	6.23	59.4	4.28	415.6	4.04	5.43	15.92
Average	**144.5**	**81.2**	**6.49**	**63.0**	**4.55**	**426.3**	**4.15**	**5.77**	**16.92**
1994 January	146.2	75.9	6.06	61.3	4.42	407.0	3.96	5.31	15.56
February	146.7	75.9	6.07	63.3	4.56	412.4	4.01	5.36	15.70
March	147.2	75.3	6.02	62.1	4.48	428.0	4.16	5.50	16.13
April	147.4	76.5	6.12	59.6	4.30	448.4	4.36	5.64	16.54
May	147.5	77.5	6.20	58.2	4.20	463.7	4.51	5.80	16.99
June	148.0	78.9	6.30	57.3	4.13	517.6	5.03	5.94	17.41
July	148.4	80.8	6.46	55.7	4.01	544.5	5.30	5.94	17.42
August	149.0	83.4	6.67	55.2	3.98	550.3	5.35	5.95	17.45
September	149.4	82.8	6.62	55.7	4.02	524.1	5.10	5.92	17.36
October	149.5	81.1	6.48	56.5	4.08	459.5	4.47	5.74	16.82
November	149.7	81.6	6.53	57.2	4.12	417.5	4.06	5.55	16.27
December	149.7	80.4	6.43	58.0	4.18	405.5	3.94	5.40	15.82
Average	**148.2**	**79.2**	**6.33**	**59.6**	**4.30**	**431.8**	**4.20**	**5.67**	**16.63**
1995 January	150.3	79.2	6.33	58.2	4.19	387.2	3.77	5.22	15.31
February	150.9	78.3	6.26	58.3	4.20	380.4	3.70	5.29	15.50
March	151.4	77.5	6.19	57.7	4.16	[R]384.4	[R]3.74	5.39	15.80
April	151.9	78.8	6.30	56.7	4.09	397.6	3.87	5.55	16.27

[a] Consumer Price Index, All Urban Consumers, All Items, 1982-1984 = 100.0.

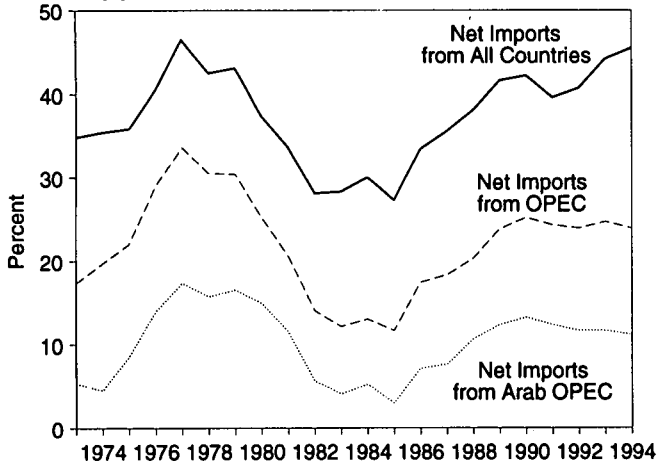
R=Revised data. NA=Not available.

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.

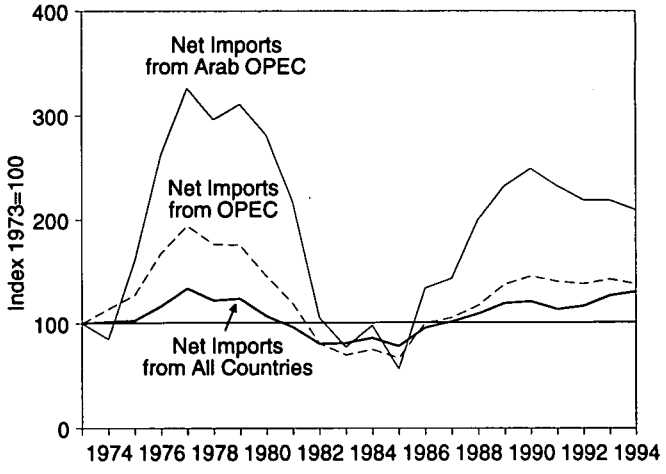
Sources: • **Annual Data:** Annual prices in Tables 9.4 (All Types), 9.8c, 9.11, and 9.9 (Monthly Series), adjusted by the CPI. • **Monthly Data:** Monthly prices in Tables 9.4 (All Types), 9.8c, 9.11, and 9.9 (Monthly Series), adjusted by the CPI. • **CPI: 1973-1993**—*Economic Report of the President*, February 1995, Table B-59. **1994 forward**—Council of Economic Advisers, *Economic Indicators*, June 1995, "Consumer Prices - All Urban Consumers." • **Conversion Factors:** Tables A1, A4, and A8.

Figure 1.7 U.S. Dependence on Petroleum Net Imports

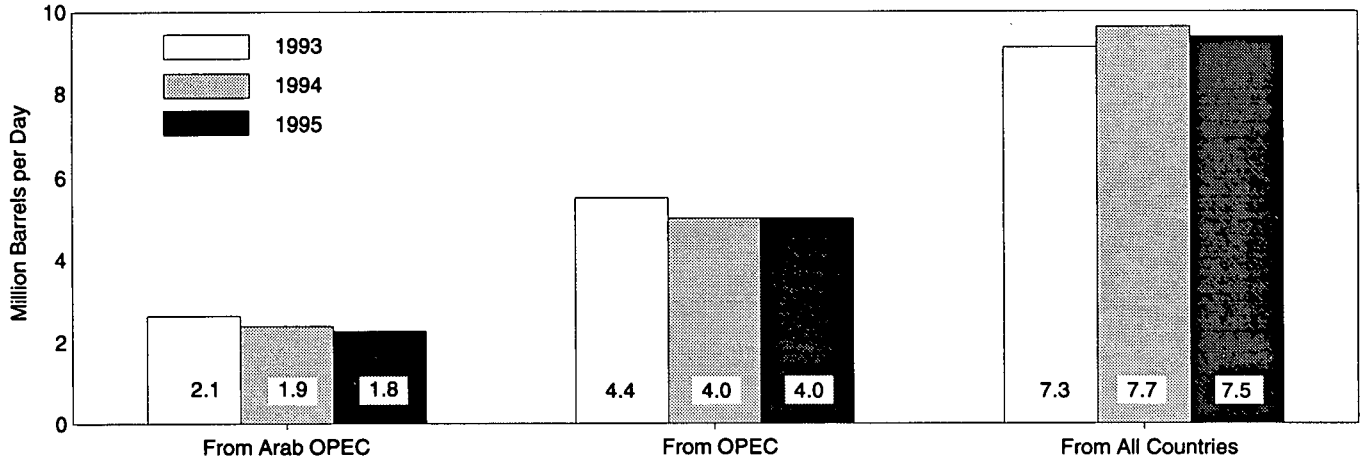
Net Imports as Share of Products Supplied, 1973-1994



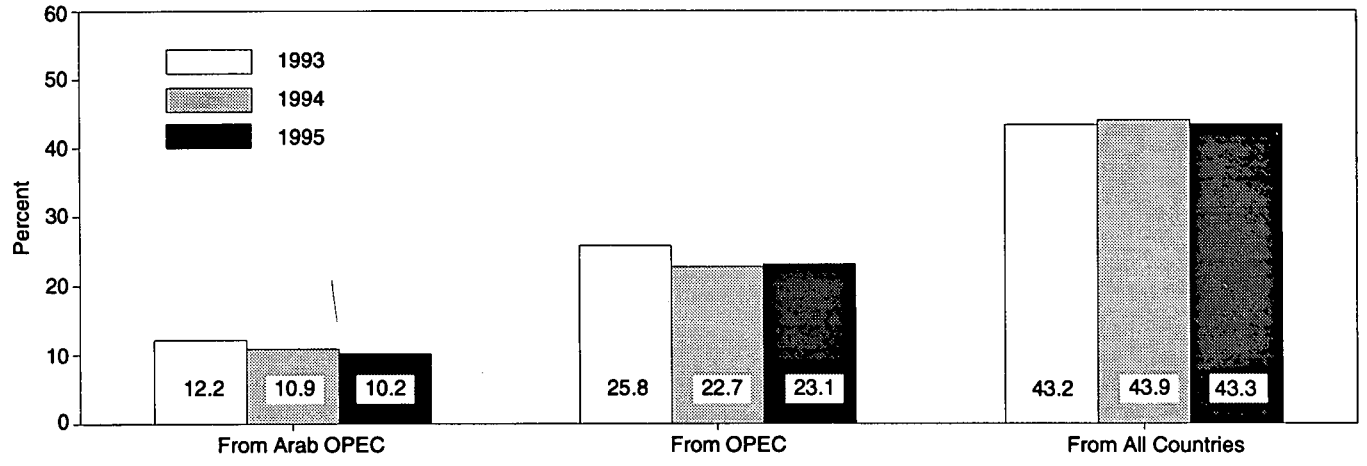
Net Imports as Share of Products Supplied, 1973-1994, Indexed to 1973 = 100



Net Imports of Petroleum, January-May



Net Imports of Petroleum as Share of Products Supplied, January-May



Source: Table 1.8.

Table 1.8 U.S. Dependence on Petroleum Net Imports

	Net Imports[a]			Petroleum Products Supplied	Net Imports as Share of U.S. Petroleum Products Supplied		
	From Arab OPEC[b]	From OPEC[c]	From All Countries		From Arab OPEC[b]	From OPEC[c]	From All Countries
	Thousand Barrels per Day				Percent		
1973 Average	**914**	**2,991**	**6,025**	**17,308**	**5.3**	**17.3**	**34.8**
1974 Average	**752**	**3,277**	**5,892**	**16,653**	**4.5**	**19.7**	**35.4**
1975 Average	**1,382**	**3,599**	**5,846**	**16,322**	**8.5**	**22.0**	**35.8**
1976 Average	**2,423**	**5,063**	**7,090**	**17,461**	**13.9**	**29.0**	**40.6**
1977 Average	**3,184**	**6,190**	**8,565**	**18,431**	**17.3**	**33.6**	**46.5**
1978 Average	**2,962**	**5,747**	**8,002**	**18,847**	**15.7**	**30.5**	**42.5**
1979 Average	**3,056**	**5,633**	**7,985**	**18,513**	**16.5**	**30.4**	**43.1**
1980 Average	**2,549**	**4,293**	**6,365**	**17,056**	**14.9**	**25.2**	**37.3**
1981 Average	**1,844**	**3,315**	**5,401**	**16,058**	**11.5**	**20.6**	**33.6**
1982 Average	**852**	**2,136**	**4,298**	**15,296**	**5.6**	**14.0**	**28.1**
1983 Average	**630**	**1,843**	**4,312**	**15,231**	**4.1**	**12.1**	**28.3**
1984 Average	**817**	**2,037**	**4,715**	**15,726**	**5.2**	**13.0**	**30.0**
1985 Average	**470**	**1,821**	**4,286**	**15,726**	**3.0**	**11.6**	**27.3**
1986 Average	**1,160**	**2,828**	**5,439**	**16,281**	**7.1**	**17.4**	**33.4**
1987 Average	**1,272**	**3,053**	**5,914**	**16,665**	**7.6**	**18.3**	**35.5**
1988 Average	**1,837**	**3,513**	**6,587**	**17,283**	**10.6**	**20.3**	**38.1**
1989 Average	**2,128**	**4,124**	**7,202**	**17,325**	**12.3**	**23.8**	**41.6**
1990 Average	**2,243**	**4,285**	**7,161**	**16,988**	**13.2**	**25.2**	**42.2**
1991 Average	**2,057**	**4,065**	**6,626**	**16,714**	**12.3**	**24.3**	**39.6**
1992 Average	**1,972**	**4,071**	**6,938**	**17,033**	**11.6**	**23.9**	**40.7**
1993 January	1,978	4,194	6,869	16,173	12.2	25.9	42.5
February	2,132	4,477	6,915	17,334	12.3	25.8	39.9
March	1,974	4,250	7,315	17,575	11.2	24.2	41.6
April	2,181	4,586	7,701	16,781	13.0	27.3	45.9
May	2,030	4,273	7,581	16,508	12.3	25.9	45.9
June	2,004	4,345	7,905	17,096	11.7	25.4	46.2
July	1,914	4,401	8,218	17,357	11.0	25.4	47.3
August	1,859	4,036	7,600	17,332	10.7	23.3	43.9
September	1,963	3,998	7,629	17,650	11.1	22.6	43.2
October	1,961	4,208	8,316	17,323	11.3	24.3	48.0
November	1,974	4,142	7,923	17,780	11.1	23.3	44.6
December	1,983	4,144	7,394	17,953	11.0	23.1	41.2
Average	**1,995**	**4,253**	**7,618**	**17,237**	**11.6**	**24.7**	**44.2**
1994 January	1,852	3,618	7,066	18,072	10.2	20.0	39.1
February	1,717	3,825	7,657	18,337	9.4	20.9	41.8
March	1,885	3,785	7,638	17,313	10.9	21.9	44.1
April	2,095	4,386	8,100	17,489	12.0	25.1	46.3
May	2,060	4,389	8,284	17,181	12.0	25.5	48.2
June	1,826	4,505	8,438	17,815	10.3	25.3	47.4
July	2,111	4,497	8,902	17,485	12.1	25.7	50.9
August	1,947	4,495	8,597	18,117	10.7	24.8	47.5
September	2,125	4,374	8,802	17,490	12.1	25.0	50.3
October	2,018	4,298	7,791	17,719	11.4	24.3	44.0
November	1,929	4,146	7,707	17,315	11.1	23.9	44.5
December	2,026	4,422	7,655	18,319	11.1	24.1	41.8
Average	**1,968**	**4,230**	**8,054**	**17,718**	**11.1**	**23.9**	**45.5**
1995 January	1,625	3,807	6,977	17,167	9.5	22.2	40.6
February	1,894	4,096	7,296	18,355	10.3	22.3	39.8
March	1,983	4,367	8,073	17,403	11.4	25.1	46.4
April	1,796	3,885	7,488	17,102	10.5	22.7	43.8
May	1,649	4,014	7,860	17,241	9.6	23.3	45.6
5-Month Average	**1,787**	**4,034**	**7,544**	**17,438**	**10.2**	**23.1**	**43.3**
1994 5-Month Average	**1,925**	**4,002**	**7,749**	**17,667**	**10.9**	**22.7**	**43.9**
1993 5-Month Average	**2,057**	**4,352**	**7,281**	**16,866**	**12.2**	**25.8**	**43.2**

[a] "Net Imports" are imports minus exports. Imports from members of the Organization of Petroleum Exporting Countries (OPEC) exclude indirect imports, which are petroleum products primarily from Caribbean and West European areas and refined from crude oil produced by OPEC.

[b] The Arab members of OPEC are Algeria, Iraq, Kuwait, Libya, Qatar, Saudi Arabia, and the United Arab Emirates. Net imports from the Neutral Zone between Kuwait and Saudi Arabia are included in net imports from Arab OPEC.

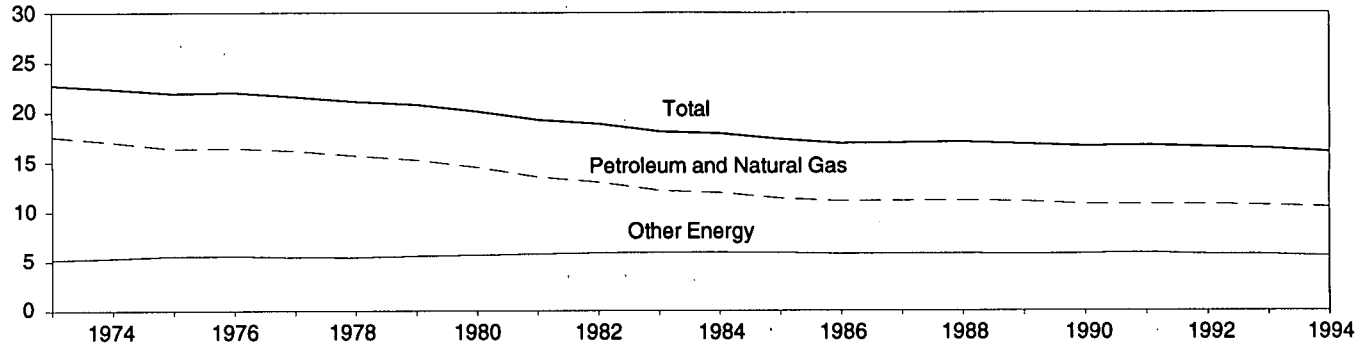
[c] OPEC currently consists of Gabon, Indonesia, Iran, Nigeria, and Venezuela, as well as the Arab members. Ecuador was a member of OPEC from 1973-1992; for this period, net imports from Ecuador are included in net imports from OPEC.

Notes: • Beginning in October 1977, Strategic Petroleum Reserves are 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.

Sources: • **Imports:** Tables 3.3a-3.3h. • **Exports: 1973-1976**—U.S. Department of the Interior, Bureau of Mines, *Mineral Industry Surveys.* **1977-1980**—Energy Information Administration (EIA), *Energy Data Reports,* "Petroleum Statement, Annual." **1981-1994**—EIA, *Petroleum Supply Annual.* **1995**—EIA, *Petroleum Supply Monthly.* • **Petroleum Products Supplied:** Table 3.1a.

Figure 1.8 Energy Consumption per Dollar of Gross Domestic Product

(Thousand Btu per 1987 Dollar)



Source: Table 1.9.

Table 1.9 Energy Consumption per Dollar of Gross Domestic Product

(Seasonally Adjusted at Annual Rates)

	Energy Consumption			Gross Domestic Product (GDP)	Energy Consumption per Dollar of GDP		
	Petroleum and Natural Gas	Other Energy	Total[a]		Petroleum and Natural Gas	Other Energy	Total
	Quadrillion Btu			Billion 1987 Dollars	Thousand Btu per 1987 Dollar		
1973 Year	**57.352**	**16.930**	**74.282**	**3,268.6**	**17.55**	**5.18**	**22.73**
1974 Year	**55.187**	**17.356**	**72.543**	**3,248.1**	**16.99**	**5.34**	**22.33**
1975 Year	**52.678**	**17.867**	**70.546**	**3,221.7**	**16.35**	**5.55**	**21.90**
1976 Year	**55.520**	**18.842**	**74.362**	**3,380.8**	**16.42**	**5.57**	**22.00**
1977 Year	**57.053**	**19.236**	**76.288**	**3,533.3**	**16.15**	**5.44**	**21.59**
1978 Year	**57.966**	**20.123**	**78.089**	**3,703.5**	**15.65**	**5.43**	**21.09**
1979 Year	**57.789**	**21.108**	**78.898**	**3,796.8**	**15.22**	**5.56**	**20.78**
1980 Year	**54.596**	**21.359**	**75.955**	**3,776.3**	**14.46**	**5.66**	**20.11**
1981 Year	**51.859**	**22.131**	**73.990**	**3,843.1**	**13.49**	**5.76**	**19.25**
1982 Year	**48.736**	**22.111**	**70.848**	**3,760.3**	**12.96**	**5.88**	**18.84**
1983 Year	**47.411**	**23.114**	**70.524**	**3,906.6**	**12.14**	**5.92**	**18.05**
1984 Year	**49.558**	**24.586**	**74.144**	**4,148.5**	**11.95**	**5.93**	**17.87**
1985 Year	**48.756**	**25.225**	**73.981**	**4,279.8**	**11.39**	**5.89**	**17.29**
1986 Year	**48.904**	**25.393**	**74.297**	**4,404.5**	**11.10**	**5.77**	**16.87**
1987 Year	**50.609**	**26.285**	**76.894**	**4,539.9**	**11.15**	**5.79**	**16.94**
1988 Year	**52.774**	**27.443**	**80.218**	**4,718.6**	**11.18**	**5.82**	**17.00**
1989 Year	**53.595**	**27.731**	**81.325**	**4,838.0**	**11.08**	**5.73**	**16.81**
1990 Year	**52.849**	**28.416**	**81.265**	**4,897.3**	**10.79**	**5.80**	**16.59**
1991 Year	**52.452**	**28.665**	**81.116**	**4,867.6**	**10.78**	**5.89**	**16.66**
1992 Year	**53.657**	**28.487**	**82.144**	**4,979.3**	**10.78**	**5.72**	**16.50**
1993 1st Quarter	55.263	29.322	84.585	5,075.3	10.89	5.78	16.67
2nd Quarter	53.750	29.611	83.361	5,105.4	10.53	5.80	16.33
3rd Quarter	54.538	29.131	83.668	5,139.4	10.61	5.67	16.28
4th Quarter	55.180	28.722	83.902	5,218.0	10.57	5.50	16.08
Year	**54.682**	**29.195**	**83.877**	**5,134.5**	**10.65**	**5.69**	**16.34**
1994 1st Quarter	R 57.571	R 29.853	R 87.424	5,261.1	10.94	5.67	16.62
2nd Quarter	R 55.956	R 30.049	R 86.005	5,314.1	10.53	5.65	16.18
3rd Quarter	R 55.732	R 29.208	R 84.940	5,367.0	10.38	5.44	15.83
4th Quarter	R 54.857	R 29.107	R 83.964	5,433.8	10.10	5.36	15.45
Year	**56.020**	R **29.551**	R **85.572**	**5,344.0**	**10.48**	**5.53**	**16.01**
1995 1st Quarter	R 56.544	R 29.893	R 86.437	R 5,470.1	R 10.34	R 5.46	R 15.80

[a] Excludes wood, waste, geothermal, wind, photovoltaic, and solar thermal energy, except for small amounts used by electric utilities to generate electricity for distribution.

R=Revised data.

Notes: • Quarterly data are seasonally adjusted and shown at annual rates. • Yearly data may not equal average of quarters due to seasonality adjustments and independent rounding. • Totals may not equal sum of components due to independent rounding. • Geographic coverage is the 50 States and the District of Columbia.

Sources: • **Energy Consumption:** Table 1.4. • **Gross Domestic Product: 1973-1992**—U.S. Department of Commerce, Bureau of Economic Analysis, *Survey of Current Business*, September 1994, Table 2. **1993 forward**—U.S. Department of Commerce, Bureau of Economic Analysis, *United States Department of Commerce News*, June 30, 1995, Table 2.

Figure 1.9 Passenger Car Efficiency

(Index, 1973 = 100)

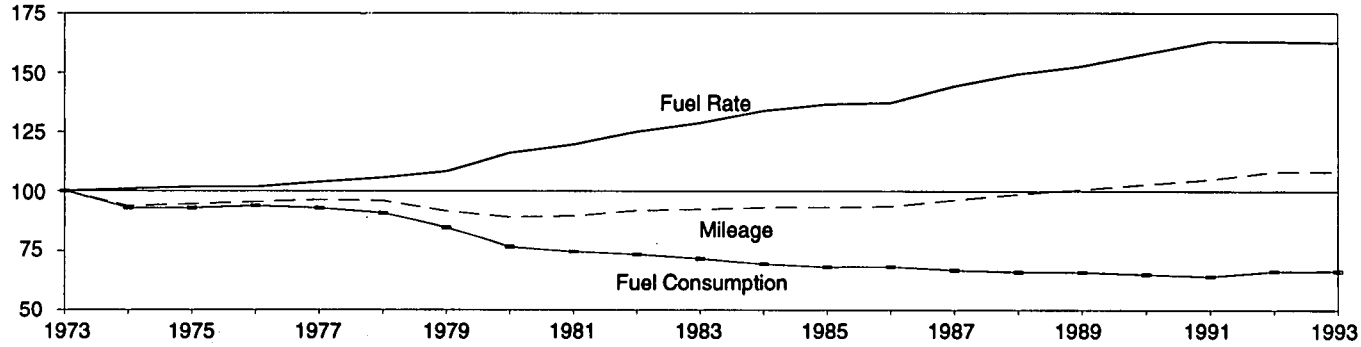


Table 1.10 Passenger Car Efficiency

	Mileage		Fuel Consumption		Fuel Rate	
	Miles per Car	Index 1973=100.0	Gallons per Car	Index 1973=100.0	Miles per Gallon	Index 1973=100.0
1973	10,256	100.0	771	100.0	13.30	100.0
1974	9,606	93.7	716	92.9	13.42	100.9
1975	9,690	94.5	716	92.9	13.52	101.7
1976	9,785	95.4	723	93.8	13.53	101.7
1977	9,879	96.3	716	92.9	13.80	103.8
1978	9,835	95.9	701	90.9	14.04	105.6
1979	9,403	91.7	653	84.7	14.41	108.3
1980	9,141	89.1	591	76.7	15.46	116.2
1981	9,186	89.6	576	74.7	15.94	119.8
1982	9,428	91.9	566	73.4	16.65	125.2
1983	9,475	92.4	553	71.7	17.14	128.9
1984	9,558	93.2	536	69.5	17.83	134.1
1985	9,560	93.2	525	68.1	18.20	136.8
1986	9,608	93.7	526	68.2	18.27	137.4
1987	9,878	96.3	514	66.7	19.20	144.4
1988	10,121	98.7	509	66.0	19.87	149.4
1989	10,332	100.7	509	66.0	20.31	152.7
1990	10,548	102.8	502	65.1	21.02	158.0
1991	10,757	104.9	496	64.3	21.69	163.1
1992	11,100	108.2	512	66.4	21.68	163.0
1993[a]	11,099	108.2	513	66.5	21.64	162.7

[a] Preliminary data.

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

Sources: Indices are prepared from statistics published by the U.S. Department of Transportation, Federal Highway Administration, Federal Highway Statistics Division. • **1973-1985:** *Highway Statistics Summary to 1985*, Table VM-201A. • **1986 forward:** *Highway Statistics*, annual, Table VM-1.

Table 1.11 Heating Degree-Days by Census Division

Census Divisions	June 1 through June 30					Cumulative July 1 through June 30				
				Percent Change					Percent Change	
	Normal[a]	1994	1995	Normal to 1995	1994 to 1995	Normal[a]	1994	1995	Normal to 1995	1994 to 1995
New England										
Connecticut, Maine, Massachusetts, New Hampshire, Rhode Island, Vermont	59	63	83	([c])	([c])	6,621	7,014	6,216	-6.1	-11.4
Middle Atlantic										
New Jersey, New York, Pennsylvania	31	30	43	([c])	([c])	5,839	6,117	5,359	-8.2	-12.4
East North Central										
Illinois, Indiana, Michigan, Ohio, Wisconsin	43	45	34	([c])	([c])	6,420	6,770	5,920	-7.8	-12.6
West North Central										
Iowa, Kansas, Minnesota, Missouri, Nebraska, North Dakota, South Dakota	43	33	45	([c])	([c])	6,635	6,923	6,191	-6.7	-10.6
South Atlantic										
Delaware, Florida, Georgia, Maryland and the District of Columbia, North Carolina, South Carolina, Virginia, West Virginia	4	3	7	([c])	([c])	2,895	2,911	2,571	-11.2	-11.7
East South Central										
Alabama, Kentucky, Mississippi, Tennessee	3	2	9	([c])	([c])	3,588	3,715	3,171	-11.6	-14.6
West South Central										
Arkansas, Louisiana, Oklahoma, Texas	0	0	2	([c])	([c])	2,306	2,387	2,006	-13.0	-16.0
Mountain										
Arizona, Colorado, Idaho, Montana, Nevada, New Mexico, Utah, Wyoming	80	47	121	([c])	([c])	5,321	5,050	5,097	-4.2	.9
Pacific[b]										
California, Oregon, Washington	78	83	117	([c])	([c])	3,244	3,079	3,268	.7	6.1
U.S. Average[b]	**36**	**34**	**46**	**([c])**	**([c])**	**4,575**	**4,698**	**4,240**	**-7.3**	**-9.7**

[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. 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.

Table 1.12 Cooling Degree-Days by Census Division

Census Divisions	June 1 through June 30					Cumulative January 1 through June 30				
				Percent Change					Percent Change	
	Normal[a]	1994	1995	Normal to 1995	1994 to 1995	Normal[a]	1994	1995	Normal to 1995	1994 to 1995
New England										
Connecticut, Maine, Massachusetts, New Hampshire, Rhode Island, Vermont	62	118	78	([c])	([c])	67	125	84	([c])	([c])
Middle Atlantic										
New Jersey, New York, Pennsylvania	120	206	141	17.5	-31.6	144	229	154	6.9	-32.8
East North Central										
Illinois, Indiana, Michigan, Ohio, Wisconsin	152	213	207	36.2	-2.8	206	261	217	5.3	-16.9
West North Central										
Iowa, Kansas, Minnesota, Missouri, Nebraska, North Dakota, South Dakota	199	241	205	3.0	-14.9	283	312	220	-22.3	-29.5
South Atlantic										
Delaware, Florida, Georgia, Maryland and the District of Columbia, North Carolina, South Carolina, Virginia, West Virginia	314	381	309	-1.6	-18.9	666	785	716	7.5	-8.8
East South Central										
Alabama, Kentucky, Mississippi, Tennessee	298	362	278	-6.7	-23.2	503	521	488	-3.0	-6.3
West South Central										
Arkansas, Louisiana, Oklahoma, Texas	428	503	389	-9.1	-22.7	859	885	779	-9.3	-12.0
Mountain										
Arizona, Colorado, Idaho, Montana, Nevada, New Mexico, Utah, Wyoming	214	279	164	-23.4	-41.2	341	385	230	-32.6	-40.3
Pacific[b]										
California, Oregon, Washington	97	117	87	([c])	([c])	146	149	109	-25.3	-26.8
U.S. Average[b]	**208**	**268**	**211**	**1.4**	**-21.3**	**363**	**418**	**350**	**-3.6**	**-16.3**

[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 Summary Notes

1. Energy Production: Production of energy includes production of coal, crude oil and lease condensate, natural gas plant liquids, natural gas (dry), electric utility and industrial production of hydroelectric power, and electricity generated from nuclear power. Production also includes electricity generated for distribution from wood, waste, geothermal, wind, photovoltaic, and solar thermal energy but excludes other energy obtained from those sources because consistent historical data are not available. Approximate heat contents (Btu values) are derived by using the conversion factors provided in Appendix A.

2. Energy Consumption: Consumption of energy includes consumption of coal, natural gas (including supplemental gaseous fuels), petroleum products supplied, electric utility and industrial production of hydroelectric power, net imports of electricity (assumed to be hydroelectricity), net imports of coal coke, and electricity generated from nuclear power. Consumption also includes electricity generated for distribution from geothermal, wood, waste, wind, photovoltaic, and solar thermal energy but excludes other energy obtained from those sources because consistent historical data are not available. Approximate heat contents (Btu values) are derived by using the conversion factors provided in Appendix A.

3. Energy Imports: Energy imports include imports of coal, crude oil (including crude oil imported for the Strategic Petroleum Reserve), petroleum products, natural gas, electricity (assumed to be hydroelectricity), and coal coke. Approximate heat contents (Btu values) are derived by using the conversion factors provided in Appendix A. For further information on electricity, see "Note for imports and exports of electricity" under Note 8 of Section 2, Energy Consumption Section Notes and Sources.

4. Energy Exports: Energy exports include coal, crude oil, petroleum products, natural gas, electricity produced from hydroelectric power, and coal coke. Approximate heat contents (Btu values) are derived by using the conversion factors provided in Appendix A. For more information on electricity, see "Note for imports and exports of electricity" under Note 8 of Section 2, Energy Consumption Section Notes and Sources.

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

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

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

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," FT900, 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. 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," FT900, monthly.

- **Energy Exports and Imports—1974-1987:** U.S. merchandise trade press releases and database printouts for adjustments. **1988:** January-July, monthly FT900 supplement, 1989 issues. August-December, monthly FT900, 1989 issues. **1989:** Monthly FT900, 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," FT900, monthly.

• **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. **1992-1994:** "U.S. International Trade in Goods and Services, Annual Revision for 1994." **1995:** "U.S. International Trade in Goods and Services," FT900, monthly.

• **Petroleum Balance, Energy Balance, and Non-Energy Balance**—Calculated by the Energy Information Administration.

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 Center, Asheville, NC, which compiles data from some 8,000 weather stations.

Section 2. Energy Consumption

U.S. total energy consumption in April 1995 was 6.9 quadrillion Btu. Petroleum products accounted for 40 percent[1] of the energy consumed in April 1995, while natural gas accounted for 27 percent, and coal accounted for 21 percent.

Residential and commercial sector consumption was 2.3 quadrillion Btu in April 1995, up 2 percent from the April 1994 level. The sector accounted for 34 percent of April 1995 total consumption, about the same share as in April 1994.

Industrial sector consumption was 2.6 quadrillion Btu in April 1995, up 4 percent from the April 1994 level. The industrial sector accounted for 38 percent of April 1995 total consumption, up 1 percentage point from its 37-percent share in 1994.

Transportation sector consumption of energy was 1.9 quadrillion Btu in April 1995, down slightly from the April 1994 level. The sector accounted for 28 percent of April 1995 total consumption, down 1 percentage point from its 29-percent share in April 1994.

Electric utility consumption of energy totaled 2.3 quadrillion Btu in April 1995, up 1 percent from the April 1994 level. Coal contributed 53 percent of the energy consumed by electric utilities in April 1995, while nuclear electric power contributed 23 percent; hydroelectric 12 percent; natural gas 10 percent; petroleum 2 percent; and geothermal, wood, waste, wind, photovoltaic, and solar thermal energy, less than 1 percent.

Table 2.1 Energy Consumption Summary for April 1995

(Quadrillion Btu)

Energy Source	End-Use Sectors				Electric Utilities	Total
	Residential and Commercial	Industrial	Transportation	Total[a]		
Coal	0.015	0.202	([b])	0.213	1.223	1.436
Natural Gas[c]	.696	.860	.057	1.612	.234	1.846
Petroleum Products[d]	.188	.682	1.850	2.720	.036	2.756
Nuclear Electric Power	–	–	–	–	.527	.527
Hydroelectric Power[e]	–	.003	–	.003	.276	.279
Geothermal	–	–	–	–	.006	.006
Net Imports of Coal Coke	–	.001	–	.001	–	.001
Other[f]	–	–	–	–	.002	.002
Primary Consumption	**.898**	**1.748**	**1.907**	**4.549**	**2.303**	**6.852**
Electricity	.474	.278	.001	.754	–	–
Net Consumption	**1.373**	**2.026**	**1.908**	**5.303**	–	–
Electrical System Energy Losses	.975	.572	.002	1.549	–	–
Total Consumption[g]	**2.348**	**2.598**	**1.910**	**6.852**	–	–

[a] Totals for coal and natural gas may not equal sum of sectors due to the use of sector-specific conversion factors.

[b] Small amounts of coal consumed for transportation are reported as industrial sector consumption.

[c] Includes supplemental gaseous fuels. Transportation sector is pipeline fuel only.

[d] Products obtained from the processing of crude oil (including lease condensate), natural gas, and other hydrocarbon compounds.

[e] Includes net imports of electricity.

[f] "Other" is electricity generated for distribution from wood, waste, wind, photovoltaic, and solar thermal energy.

[g] Due to a lack of consistent historical data, some renewable energy sources are not included. For example, in 1992, 3.0 quadrillion Btu of renewable energy consumed by U.S. electric utilities to generate electricity for distribution is included, but an estimated 3.0 quadrillion Btu of renewable energy used by other sectors is not included.

– =Not applicable. (s)=Less than +0.5 trillion Btu and greater 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.

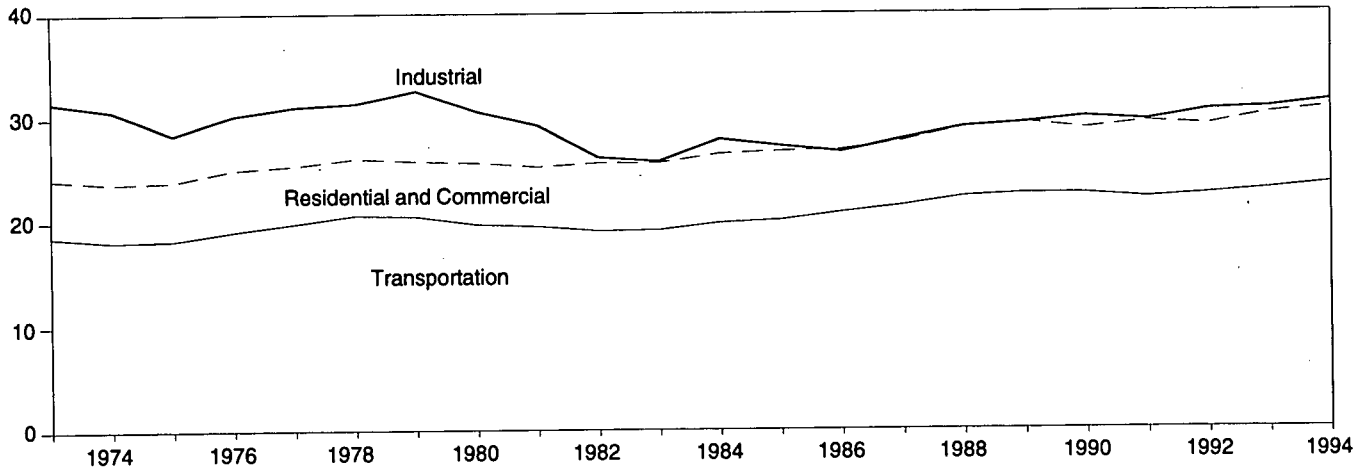
Additional Notes and Sources: See Tables 2.2-2.6 and end of section.

[1] Percentage changes are based on numbers in the following tables.

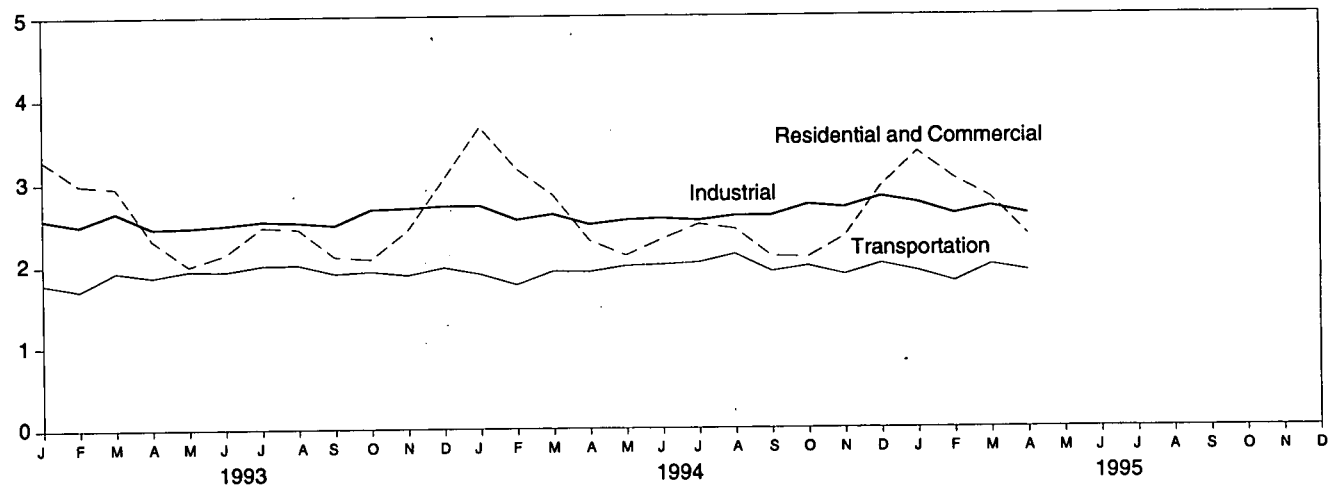
Figure 2.1 Energy Consumption by End-Use Sector

(Quadrillion Btu)

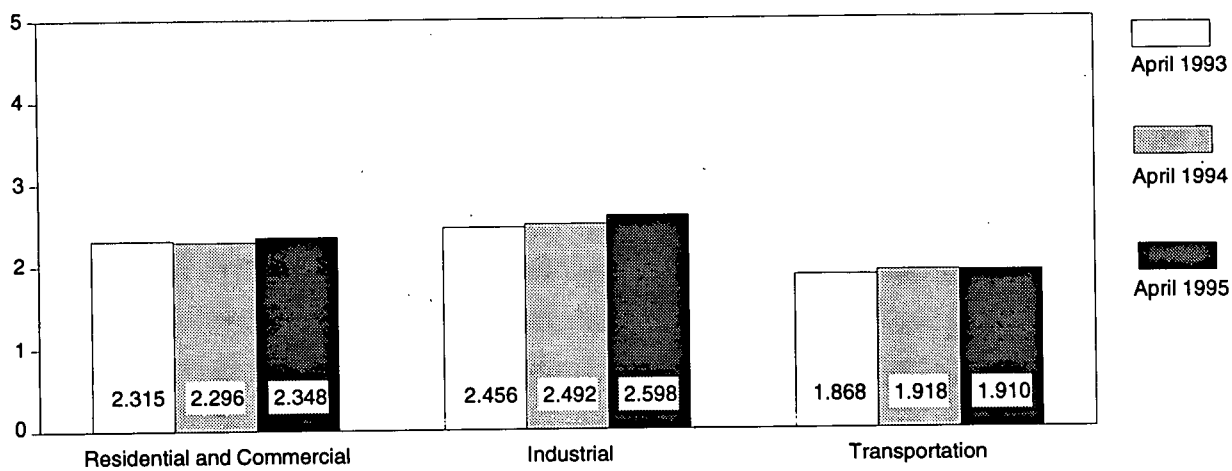
Overview, 1973-1994



Overview, Monthly



Overview, April



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

Table 2.2 Energy Consumption by End-Use Sector

(Quadrillion Btu)

	Residential and Commercial		Industrial		Transportation			
	Net	Total	Net	Total	Net	Total	Net	Total[a]
1973 Total	15.766	24.143	25.917	31.528	18.584	18.605	60.274	74.282
1974 Total	15.246	23.725	24.994	30.694	18.095	18.117	58.341	72.543
1975 Total	15.200	23.899	22.737	28.402	18.219	18.244	56.157	70.546
1976 Total	15.997	25.018	24.038	30.236	19.076	19.101	59.119	74.362
1977 Total	15.828	25.384	24.593	31.077	19.794	19.819	60.223	76.288
1978 Total	16.023	26.084	24.637	31.392	20.589	20.611	61.251	78.089
1979 Total	15.709	25.808	25.679	32.616	20.447	20.472	61.836	78.898
1980 Total	15.075	25.655	23.854	30.606	19.669	19.695	58.597	75.955
1981 Total	14.541	25.241	22.533	29.240	19.480	19.507	56.556	73.990
1982 Total	14.629	25.629	20.020	26.145	19.043	19.069	53.697	70.848
1983 Total	14.395	25.627	19.401	25.759	19.109	19.135	52.907	70.524
1984 Total	14.964	26.474	21.184	27.867	19.773	19.801	55.923	74.144
1985 Total	14.839	26.704	20.520	27.214	20.036	20.067	55.391	73.981
1986 Total	14.791	26.852	20.101	26.630	20.781	20.812	55.676	74.297
1987 Total	15.146	27.623	21.116	27.826	21.419	21.448	57.678	76.894
1988 Total	16.004	28.925	22.085	28.986	22.274	22.305	60.366	80.218
1989 Total	16.261	29.404	22.272	29.353	22.530	22.561	61.070	81.325
1990 Total	15.568	28.786	22.841	29.936	22.504	22.535	60.921	81.265
1991 Total	15.986	29.424	22.549	29.570	22.090	22.120	60.626	81.116
1992 Total	16.090	29.100	23.498	30.577	22.432	22.461	62.025	82.144
1993 January	2.081	3.286	2.007	2.569	1.785	1.787	5.871	7.640
February	1.946	2.986	1.965	2.490	1.700	1.702	5.609	7.175
March	1.859	2.947	2.085	2.650	1.928	1.931	5.871	7.526
April	1.380	2.315	1.916	2.456	1.866	1.868	5.159	6.637
May	1.012	2.000	1.858	2.464	1.943	1.945	4.811	6.406
June	.982	2.140	1.855	2.494	1.933	1.935	4.771	6.570
July	1.058	2.466	1.894	2.539	2.003	2.006	4.960	7.015
August	1.058	2.442	1.887	2.524	2.008	2.011	4.958	6.981
September	1.013	2.108	1.951	2.489	1.903	1.906	4.868	6.503
October	1.078	2.079	2.107	2.679	1.928	1.930	5.111	6.687
November	1.398	2.422	2.105	2.692	1.884	1.886	5.387	7.000
December	1.870	3.043	2.124	2.719	1.974	1.976	5.966	7.737
Total	**16.734**	**30.231**	**23.756**	**30.766**	**22.856**	**22.883**	**63.341**	**83.877**
1994 January	2.363	3.668	R2.144	2.721	1.894	1.897	R6.400	8.284
February	2.096	3.165	R2.042	2.552	1.763	1.765	5.898	R7.480
March	1.757	2.846	2.041	2.615	1.924	1.927	5.719	7.384
April	1.323	2.296	R1.936	R2.492	1.916	1.918	R5.171	R6.703
May	1.074	2.113	1.925	2.544	1.986	1.988	4.982	6.642
June	1.040	2.309	R1.904	R2.560	1.999	2.002	R4.945	R6.872
July	1.094	2.487	1.910	2.534	2.022	2.025	R5.030	R7.049
August	1.092	2.429	R1.943	R2.589	2.121	2.124	R5.159	R7.144
September	1.002	2.097	R2.026	2.591	1.910	1.912	R4.938	R6.600
October	1.060	2.084	2.129	R2.720	1.975	1.978	R5.163	6.779
November	1.307	2.331	2.091	2.684	1.869	1.871	5.262	R6.883
December	1.775	2.938	R2.219	2.813	2.002	2.005	5.993	7.752
Total	**16.984**	**30.763**	**R24.309**	**R31.415**	**23.383**	**23.411**	**R64.659**	**R85.572**
1995 January	R2.121	R3.351	R2.156	R2.737	1.909	1.911	R6.184	R7.996
February	R1.970	R3.031	R2.073	R2.602	1.779	1.781	R5.819	R7.411
March	R1.713	R2.797	R2.104	R2.691	1.983	1.986	R5.796	R7.470
April	1.373	2.348	2.026	2.598	1.908	1.910	5.303	6.852
4-Month Total	**7.178**	**11.527**	**8.359**	**10.629**	**7.579**	**7.588**	**23.102**	**29.730**
1994 4-Month Total	**7.539**	**11.975**	**8.162**	**10.380**	**7.498**	**7.507**	**23.187**	**29.851**
1993 4-Month Total	**7.266**	**11.534**	**7.973**	**10.165**	**7.279**	**7.288**	**22.510**	**28.978**

[a] Due to a lack of consistent historical data, some renewable energy sources are not included. For example, in 1992, 3.0 quadrillion Btu of renewable energy consumed by U.S. electric utilities to generate electricity for distribution is included, but an estimated 3.0 quadrillion Btu of renewable energy used by other sectors is not included.

R=Revised data.

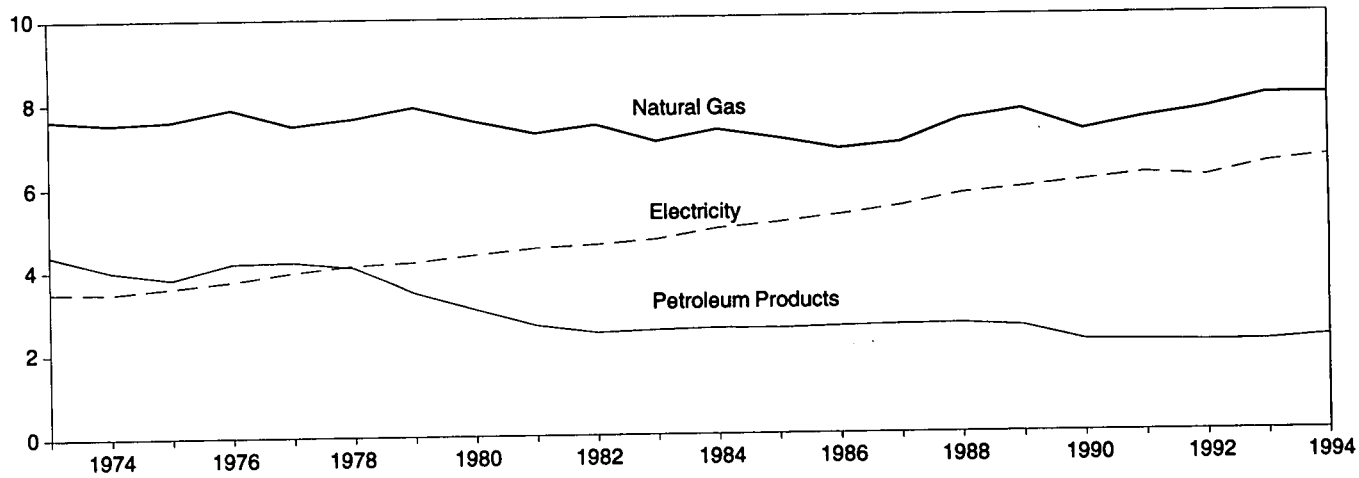
Notes: • Totals may not equal sum of components due to independent rounding and the use of sector-specific conversion factors for natural gas and coal. • Geographic coverage is the 50 States and the District of Columbia.

Additional Notes and Sources: See end of section.

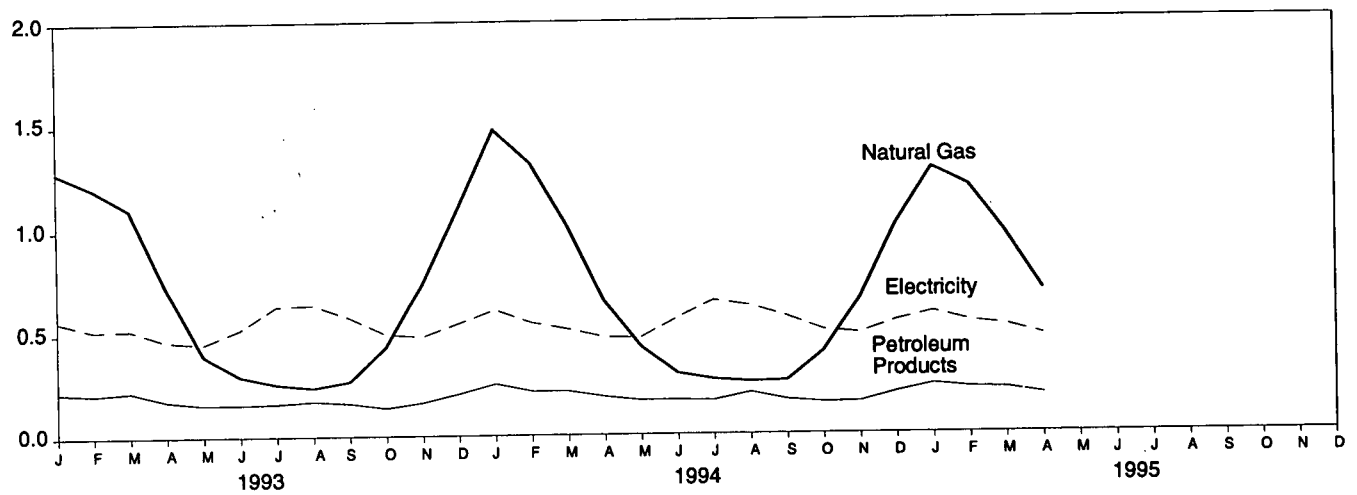
Figure 2.2 Residential and Commercial Energy Consumption

(Quadrillion Btu)

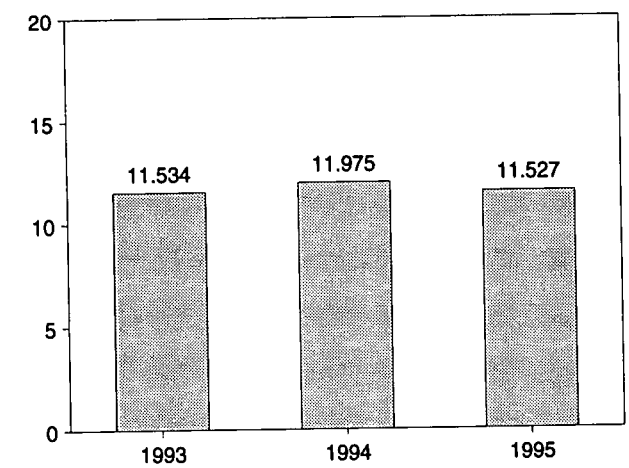
By Major Sources, 1973-1994



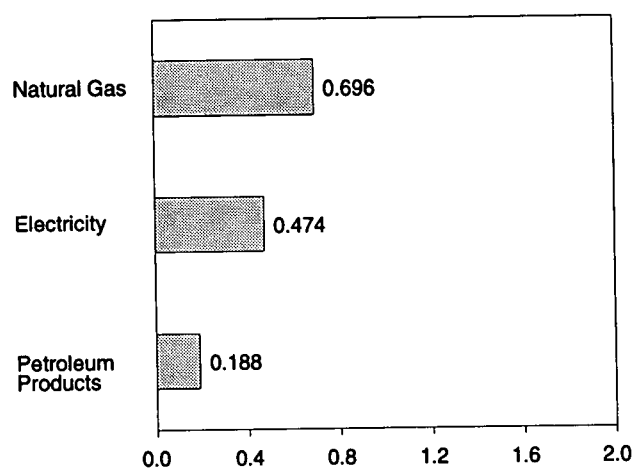
By Major Sources, Monthly



Total, January-April



By Major Sources, April 1995



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

Table 2.3 Residential and Commercial Energy Consumption

(Quadrillion Btu)

	Coal	Natural Gas[a]	Petroleum Products[b]	Primary Consumption	Electricity	Net Consumption	Electrical System Energy Losses	Total Consumption[c]
1973 Total	**0.254**	**7.626**	**4.391**	**12.270**	**3.495**	**15.766**	**8.377**	**24.143**
1974 Total	**.257**	**7.518**	**3.996**	**11.771**	**3.475**	**15.246**	**8.480**	**23.725**
1975 Total	**.209**	**7.581**	**3.805**	**11.595**	**3.604**	**15.200**	**8.700**	**23.899**
1976 Total	**.203**	**7.866**	**4.181**	**12.250**	**3.747**	**15.997**	**9.021**	**25.018**
1977 Total	**.205**	**7.461**	**4.206**	**11.873**	**3.955**	**15.828**	**9.556**	**25.384**
1978 Total	**.214**	**7.624**	**4.070**	**11.908**	**4.116**	**16.023**	**10.061**	**26.084**
1979 Total	**.187**	**7.891**	**3.448**	**11.525**	**4.184**	**15.709**	**10.100**	**25.808**
1980 Total	**.145**	**7.540**	**3.035**	**10.721**	**4.355**	**15.075**	**10.580**	**25.655**
1981 Total	**.167**	**7.243**	**2.634**	**10.043**	**4.497**	**14.541**	**10.700**	**25.241**
1982 Total	**.187**	**7.427**	**2.449**	**10.063**	**4.566**	**14.629**	**11.000**	**25.629**
1983 Total	**.192**	**7.024**	**2.498**	**9.715**	**4.680**	**14.395**	**11.232**	**25.627**
1984 Total	**.209**	**7.292**	**2.535**	**10.036**	**4.928**	**14.964**	**11.510**	**26.474**
1985 Total	**.176**	**7.079**	**2.522**	**9.777**	**5.061**	**14.839**	**11.865**	**26.704**
1986 Total	**.176**	**6.825**	**2.555**	**9.556**	**5.235**	**14.791**	**12.061**	**26.852**
1987 Total	**.162**	**6.954**	**2.587**	**9.703**	**5.443**	**15.146**	**12.477**	**27.623**
1988 Total	**.168**	**7.513**	**2.600**	**10.280**	**5.724**	**16.004**	**12.920**	**28.925**
1989 Total	**.146**	**7.731**	**2.525**	**10.402**	**5.859**	**16.261**	**13.143**	**29.404**
1990 Total	**.156**	**7.225**	**2.173**	**9.553**	**6.015**	**15.568**	**13.218**	**28.786**
1991 Total	**.141**	**7.510**	**2.154**	**9.805**	**6.180**	**15.986**	**13.439**	**29.424**
1992 Total	**.142**	**7.726**	**2.126**	**9.993**	**6.096**	**16.090**	**13.010**	**29.100**
1993 January	.015	1.281	.219	1.516	.565	2.081	1.204	3.286
February	.015	1.204	.209	1.428	.518	1.946	1.040	2.986
March	.012	1.104	.221	1.337	.522	1.859	1.088	2.947
April	.014	.724	.176	.914	.466	1.380	.935	2.315
May	.007	.395	.157	.559	.453	1.012	.987	2.000
June	.010	.295	.157	.461	.521	.982	1.157	2.140
July	.010	.256	.161	.427	.632	1.058	1.408	2.466
August	.009	.238	.172	.419	.639	1.058	1.384	2.442
September	.007	.269	.161	.436	.577	1.013	1.095	2.108
October	.009	.435	.138	.583	.495	1.078	1.002	2.079
November	.015	.738	.163	.916	.483	1.398	1.024	2.422
December	.021	1.098	.205	1.324	.546	1.870	1.174	3.043
Total	**.143**	**8.039**	**2.136**	**10.318**	**6.416**	**16.734**	**13.497**	**30.231**
1994 January	.020	1.478	.253	1.752	.611	2.363	1.305	3.668
February	.016	1.316	.216	1.548	.548	2.096	1.069	3.165
March	.012	1.015	.215	1.242	.515	1.757	1.089	2.846
April	.011	.651	.186	.848	.475	1.323	.974	2.296
May	.008	.428	.166	.602	.472	1.074	1.039	2.113
June	.009	.299	.167	.475	.565	1.040	1.269	2.309
July	.011	.268	.164	.443	.652	1.094	1.393	2.487
August	.009	.256	.203	.468	.624	1.092	1.337	2.429
September	.007	.260	.165	.432	.570	1.002	1.095	2.097
October	.008	.399	.151	.558	.503	1.060	1.024	2.084
November	.013	.655	.153	.821	.486	1.307	1.025	2.331
December	.019	1.010	.201	1.230	.546	1.775	1.162	2.938
Total	**.142**	**8.036**	**2.239**	**10.417**	**6.567**	**16.984**	**13.780**	**30.763**
1995 January	R.015	R1.280	.238	R1.533	.588	R2.121	1.229	R3.351
February	.014	R1.196	.220	R1.429	.542	R1.970	1.061	R3.031
March	R.010	R.966	.216	R1.193	.521	R1.713	1.084	R2.797
April	.015	.696	.188	.898	.474	1.373	.975	2.348
4-Month Total	**.053**	**4.137**	**.862**	**5.053**	**2.125**	**7.178**	**4.349**	**11.527**
1994 4-Month Total	**.058**	**4.460**	**.871**	**5.390**	**2.149**	**7.539**	**4.437**	**11.975**
1993 4-Month Total	**.056**	**4.314**	**.825**	**5.195**	**2.071**	**7.266**	**4.268**	**11.534**

[a] Includes supplemental gaseous fuels.

[b] Products obtained from the processing of crude oil (including lease condensate), natural gas, and other hydrocarbon compounds.

[c] Due to a lack of consistent historical data, some renewable energy sources are not included. For example, in 1992, an estimated 0.7 quadrillion Btu of renewable energy consumed by the U.S. residential and commercial sectors (primarily the residential sector) is not included.

R=Revised data.

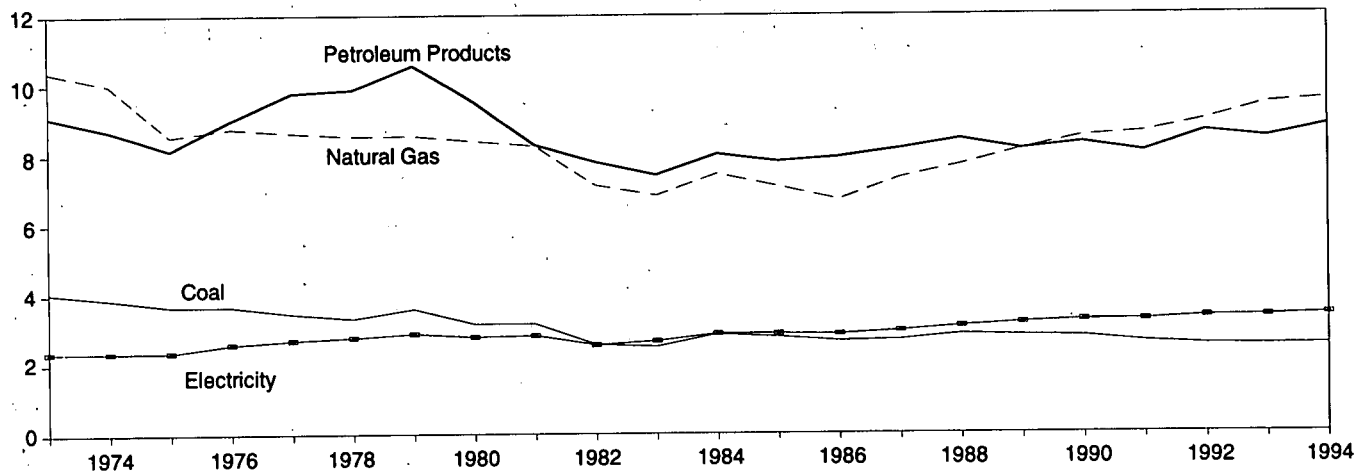
Notes: • Totals may not equal sum of components due to independent rounding. • Geographic coverage is the 50 States and the District of Columbia.

Additional Notes and Sources: See end of section.

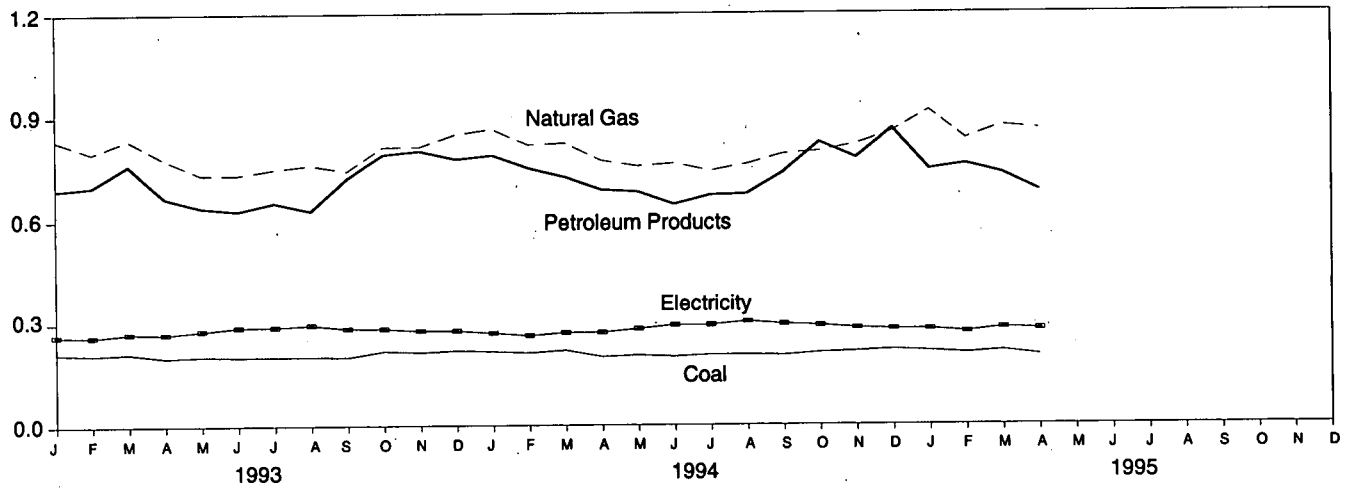
Figure 2.3 Industrial Energy Consumption

(Quadrillion Btu)

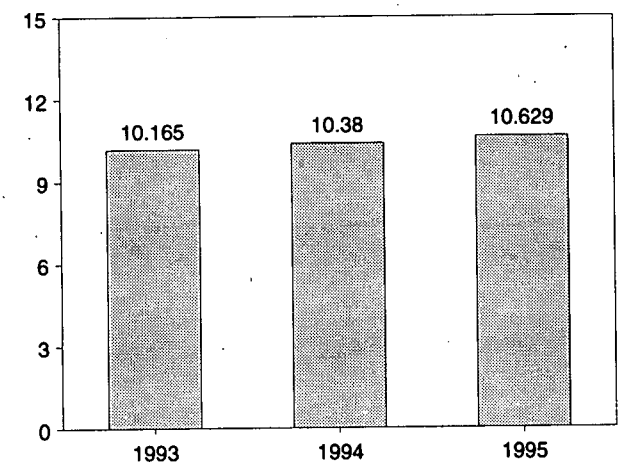
By Major Sources, 1973-1994



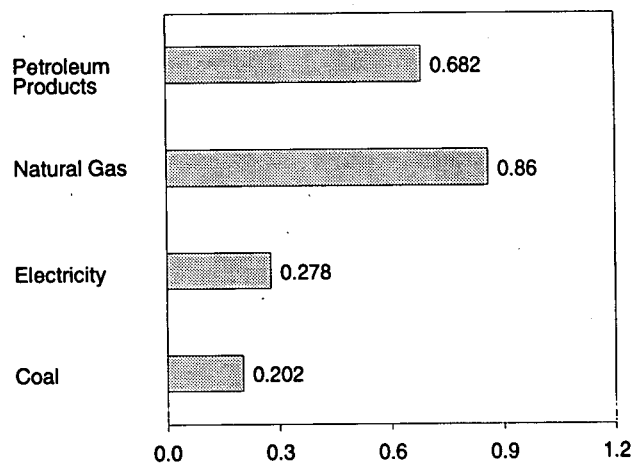
By Major Sources, Monthly



Total, January-April



By Major Sources, April 1995



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

Table 2.4 Industrial Energy Consumption

(Quadrillion Btu)

	Coal	Natural Gas[a]	Petroleum Products[b]	Hydro-electric Power	Net Imports of Coal Coke	Primary Consumption	Electricity	Net Consumption	Electrical System Energy Losses	Total Consumption[c]
1973 Total	**4.057**	**10.388**	**9.104**	**0.035**	**-0.007**	**23.576**	**2.341**	**25.917**	**5.611**	**31.528**
1974 Total	**3.870**	**10.004**	**8.694**	**.033**	**.056**	**22.657**	**2.337**	**24.994**	**5.700**	**30.694**
1975 Total	**3.667**	**8.532**	**8.146**	**.032**	**.014**	**20.391**	**2.346**	**22.737**	**5.665**	**28.402**
1976 Total	**3.661**	**8.762**	**9.010**	**.033**	**(s)**	**21.465**	**2.573**	**24.038**	**6.198**	**30.236**
1977 Total	**3.454**	**8.635**	**9.774**	**.033**	**.015**	**21.911**	**2.682**	**24.593**	**6.484**	**31.077**
1978 Total	**3.314**	**8.539**	**9.867**	**.032**	**.125**	**21.876**	**2.761**	**24.637**	**6.755**	**31.392**
1979 Total	**3.593**	**8.549**	**10.568**	**.034**	**.063**	**22.807**	**2.873**	**25.679**	**6.936**	**32.616**
1980 Total	**3.155**	**8.395**	**9.525**	**.033**	**-.035**	**21.073**	**2.781**	**23.854**	**6.752**	**30.606**
1981 Total	**3.157**	**8.257**	**8.285**	**.033**	**-.016**	**19.715**	**2.817**	**22.533**	**6.707**	**29.240**
1982 Total	**2.552**	**7.121**	**7.794**	**.033**	**-.022**	**17.479**	**2.542**	**20.020**	**6.125**	**26.145**
1983 Total	**2.490**	**6.826**	**7.420**	**.033**	**-.016**	**16.753**	**2.648**	**19.401**	**6.359**	**25.759**
1984 Total	**2.842**	**7.448**	**8.014**	**.033**	**-.011**	**18.325**	**2.859**	**21.184**	**6.683**	**27.867**
1985 Total	**2.760**	**7.080**	**7.805**	**.033**	**-.013**	**17.665**	**2.855**	**20.520**	**6.694**	**27.214**
1986 Total	**2.640**	**6.690**	**7.920**	**.033**	**-.017**	**17.267**	**2.834**	**20.101**	**6.529**	**26.630**
1987 Total	**2.673**	**7.323**	**8.150**	**.033**	**.009**	**18.188**	**2.928**	**21.116**	**6.710**	**27.826**
1988 Total	**2.828**	**7.696**	**8.430**	**.033**	**.040**	**19.026**	**3.059**	**22.085**	**6.901**	**28.986**
1989 Total	**2.787**	**8.131**	**8.133**	**.033**	**.030**	**19.113**	**3.158**	**22.272**	**7.082**	**29.353**
1990 Total	**2.756**	**8.502**	**8.319**	**.033**	**.005**	**19.615**	**3.226**	**22.841**	**7.095**	**29.936**
1991 Total	**2.601**	**8.619**	**8.057**	**.033**	**.009**	**19.319**	**3.230**	**22.549**	**7.021**	**29.570**
1992 Total	**2.515**	**8.967**	**8.638**	**.033**	**.027**	**20.180**	**3.319**	**23.498**	**7.079**	**30.577**
1993 January	.213	.833	.690	.003	.004	1.743	.264	2.007	.562	2.569
February	.209	.795	.699	.003	(s)	1.704	.261	1.965	.524	2.490
March	.213	.834	.760	.003	.003	1.814	.271	2.085	.566	2.650
April	.200	.776	.666	.003	.002	1.647	.269	1.916	.540	2.456
May	.204	.732	.638	.003	.002	1.580	.278	1.858	.606	2.464
June	.202	.732	.628	.003	.003	1.568	.288	1.855	.639	2.494
July	.202	.748	.652	.003	(s)	1.605	.289	1.894	.645	2.539
August	.202	.759	.628	.002	.002	1.593	.294	1.887	.637	2.524
September	.201	.742	.722	.002	-.001	1.667	.284	1.951	.539	2.489
October	.218	.812	.790	.002	.001	1.824	.283	2.107	.572	2.679
November	.214	.812	.800	.002	(s)	1.828	.277	2.105	.587	2.692
December	.219	.849	.776	.002	.002	1.847	.277	2.124	.595	2.719
Total	**2.496**	**9.423**	**8.453**	**.032**	**.017**	**20.422**	**3.334**	**23.756**	**7.010**	**30.766**
1994 January	.216	.863	.787	.003	.004	1.873	.270	R 2.144	.577	2.721
February	.212	.817	.749	.003	-.001	1.780	.262	R 2.042	.511	2.552
March	.219	.822	.724	.003	.002	1.770	.271	2.041	.574	2.615
April	R .200	.771	.687	.003	.003	R 1.664	.271	R 1.936	.557	R 2.492
May	R .204	.754	.681	.003	.002	1.644	.281	1.925	.619	2.544
June	R .200	.762	.644	.003	.003	R 1.612	.292	R 1.904	.655	R 2.560
July	R .205	.740	.671	.003	(s)	R 1.619	.292	1.910	.624	2.534
August	R .205	.759	.674	.002	.002	1.641	.302	R 1.943	.646	R 2.589
September	.203	.789	.735	.002	.003	R 1.732	.294	R 2.026	.565	2.591
October	.211	.797	.823	.002	.005	1.839	.290	2.129	.591	R 2.720
November	.214	.817	.777	.002	-.001	1.809	.282	2.091	.593	2.684
December	.219	.854	.862	.002	.002	R 1.940	.279	R 2.219	.594	2.813
Total	**R 2.510**	**9.545**	**8.813**	**.032**	**.024**	**R 20.923**	**3.386**	**R 24.309**	**7.105**	**R 31.415**
1995 January	R .214	.914	.743	.003	.004	R 1.878	.278	R 2.156	.581	R 2.737
February	R .208	R .833	.758	.003	.002	1.803	.270	R 2.073	.529	R 2.602
March	R .215	R .870	.732	.003	.003	R 1.822	.282	R 2.104	.587	R 2.691
April	.202	.860	.682	.003	.001	1.748	.278	2.026	.572	2.598
4-Month Total	**.839**	**3.476**	**2.914**	**.011**	**.010**	**7.251**	**1.109**	**8.359**	**2.270**	**10.629**
1994 4-Month Total	**.847**	**3.273**	**2.947**	**.011**	**.007**	**7.087**	**1.075**	**8.162**	**2.218**	**10.380**
1993 4-Month Total	**.835**	**3.237**	**2.815**	**.011**	**.009**	**6.908**	**1.065**	**7.973**	**2.192**	**10.165**

[a] Includes supplemental gaseous fuels.

[b] Products obtained from the processing of crude oil (including lease condensate), natural gas, and other hydrocarbon compounds.

[c] Due to a lack of consistent historical data, some renewable energy sources are not included. For example, in 1992, an estimated 2.3 quadrillion Btu of renewable energy consumed by the U.S. industrial sector (primarily the pulp and paper industry) is not included.

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

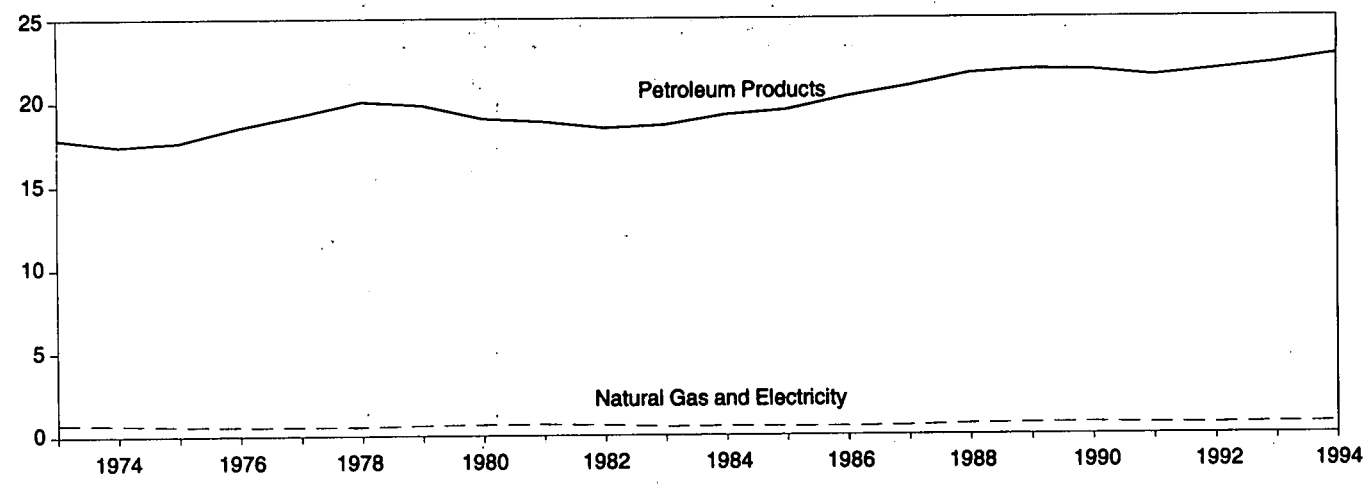
Notes: • Totals may not equal sum of components due to independent rounding. • Geographic coverage is the 50 States and the District of Columbia.

Additional Notes and Sources: See end of section.

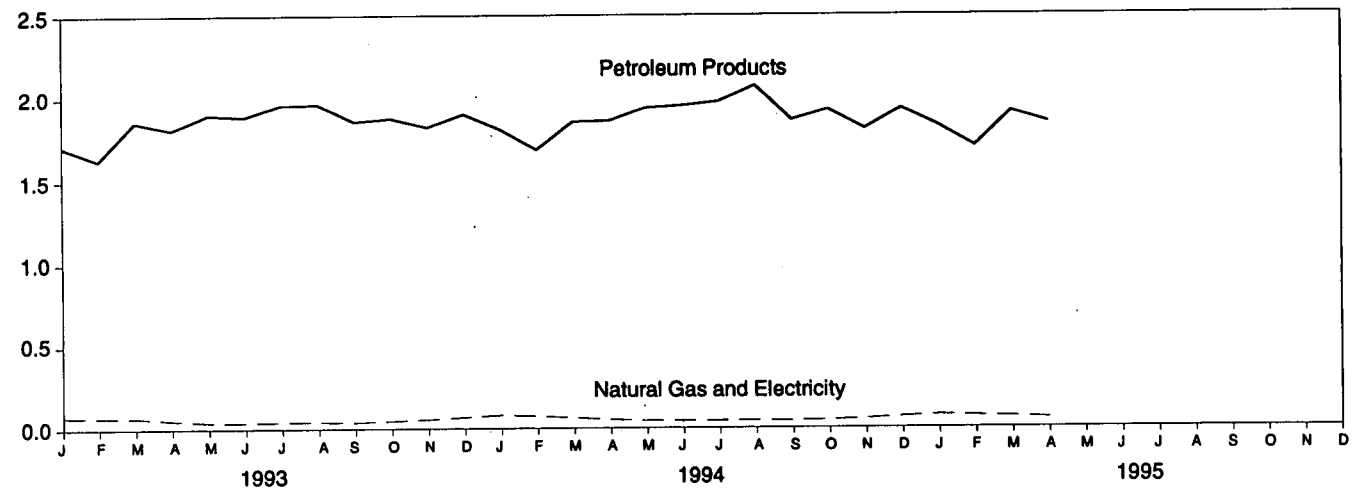
Figure 2.4 Transportation Energy Consumption

(Quadrillion Btu)

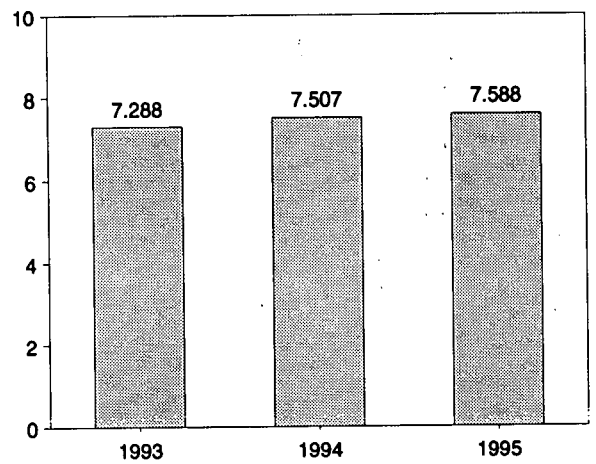
By Major Sources, 1973-1994



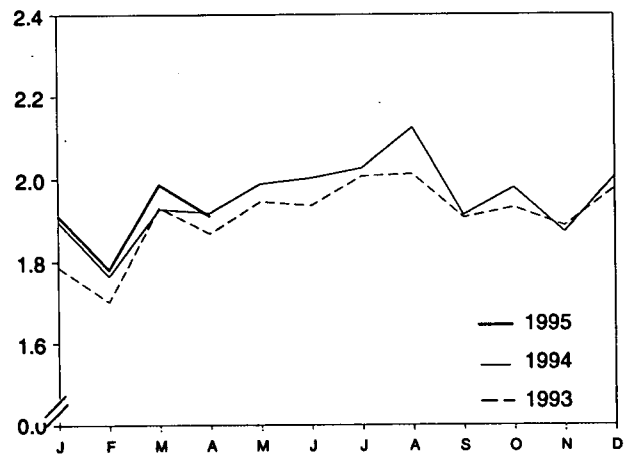
By Major Sources, Monthly



Total, January-April



Total, Monthly



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

Table 2.5 Transportation Energy Consumption

(Quadrillion Btu)

	Coal	Natural Gas[a]	Petroleum Products[b]	Primary Consumption	Electricity	Net Consumption	Electrical System Energy Losses	Total Consumption[c]
1973 Total	**0.003**	**0.743**	**17.831**	**18.576**	**0.008**	**18.584**	**0.020**	**18.605**
1974 Total	**.002**	**.685**	**17.399**	**18.086**	**.009**	**18.095**	**.022**	**18.117**
1975 Total	**.001**	**.595**	**17.614**	**18.209**	**.010**	**18.219**	**.025**	**18.244**
1976 Total	**(s)**	**.559**	**18.506**	**19.065**	**.010**	**19.076**	**.025**	**19.101**
1977 Total	**(s)**	**.543**	**19.241**	**19.784**	**.010**	**19.794**	**.025**	**19.819**
1978 Total	**(d)**	**.539**	**20.041**	**20.580**	**.009**	**20.589**	**.022**	**20.611**
1979 Total	**(d)**	**.612**	**19.825**	**20.436**	**.010**	**20.447**	**.025**	**20.472**
1980 Total	**(d)**	**.650**	**19.008**	**19.658**	**.011**	**19.669**	**.026**	**19.695**
1981 Total	**(d)**	**.658**	**18.811**	**19.469**	**.011**	**19.480**	**.026**	**19.507**
1982 Total	**(d)**	**.612**	**18.420**	**19.032**	**.011**	**19.043**	**.026**	**19.069**
1983 Total	**(d)**	**.505**	**18.593**	**19.098**	**.011**	**19.109**	**.026**	**19.135**
1984 Total	**(d)**	**.545**	**19.216**	**19.761**	**.012**	**19.773**	**.028**	**19.801**
1985 Total	**(d)**	**.519**	**19.504**	**20.024**	**.013**	**20.036**	**.030**	**20.067**
1986 Total	**(d)**	**.499**	**20.269**	**20.768**	**.013**	**20.781**	**.031**	**20.812**
1987 Total	**(d)**	**.535**	**20.871**	**21.406**	**.013**	**21.419**	**.029**	**21.448**
1988 Total	**(d)**	**.632**	**21.629**	**22.260**	**.014**	**22.274**	**.031**	**22.305**
1989 Total	**(d)**	**.649**	**21.868**	**22.517**	**.014**	**22.530**	**.031**	**22.561**
1990 Total	**(d)**	**.680**	**21.810**	**22.490**	**.014**	**22.504**	**.031**	**22.535**
1991 Total	**(d)**	**.620**	**21.456**	**22.076**	**.014**	**22.090**	**.030**	**22.120**
1992 Total	**(d)**	**.606**	**21.812**	**22.418**	**.014**	**22.432**	**.029**	**22.461**
1993 January	(d)	.074	1.710	1.784	.001	1.785	.002	1.787
February	(d)	.070	1.629	1.699	.001	1.700	.002	1.702
March	(d)	.069	1.859	1.927	.001	1.928	.002	1.931
April	(d)	.053	1.812	1.865	.001	1.866	.002	1.868
May	(d)	.040	1.902	1.942	.001	1.943	.002	1.945
June	(d)	.040	1.891	1.931	.001	1.933	.002	1.935
July	(d)	.042	1.960	2.002	.001	2.003	.003	2.006
August	(d)	.043	1.965	2.007	.001	2.008	.003	2.011
September	(d)	.040	1.862	1.902	.001	1.903	.002	1.906
October	(d)	.047	1.880	1.927	.001	1.928	.002	1.930
November	(d)	.056	1.827	1.883	.001	1.884	.002	1.886
December	(d)	.068	1.904	1.972	.001	1.974	.002	1.976
Total	**(d)**	**.642**	**22.201**	**22.842**	**.013**	**22.856**	**.028**	**22.883**
1994 January	(d)	.080	1.813	1.893	.001	1.894	.002	1.897
February	(d)	.073	1.690	1.762	.001	1.763	.002	1.765
March	(d)	.064	1.859	1.923	.001	1.924	.002	1.927
April	(d)	.052	1.864	1.915	.001	1.916	.002	1.918
May	(d)	.045	1.940	1.985	.001	1.986	.002	1.988
June	(d)	.044	1.954	1.998	.001	1.999	.003	2.002
July	(d)	.044	1.977	2.021	.001	2.022	.003	2.025
August	(d)	.045	2.075	2.120	.001	2.121	.003	2.124
September	(d)	.043	1.866	1.909	.001	1.910	.002	1.912
October	(d)	.047	1.928	1.974	.001	1.975	.002	1.978
November	(d)	.054	1.813	1.868	.001	1.869	.002	1.871
December	(d)	.066	1.935	2.001	.001	2.002	.002	2.005
Total	**(d)**	**.655**	**22.714**	**23.370**	**.013**	**23.383**	**.028**	**23.411**
1995 January	(d)	.076	1.832	1.908	.001	1.909	.002	1.911
February	(d)	.070	1.708	1.778	.001	1.779	.002	1.781
March	(d)	.066	1.916	1.982	.001	1.983	.002	1.986
April	(d)	.057	1.850	1.907	.001	1.908	.002	1.910
4-Month Total	**(d)**	**.269**	**7.306**	**7.575**	**.004**	**7.579**	**.009**	**7.588**
1994 4-Month Total	**(d)**	**.269**	**7.225**	**7.494**	**.004**	**7.498**	**.009**	**7.507**
1993 4-Month Total	**(d)**	**.266**	**7.009**	**7.275**	**.004**	**7.279**	**.009**	**7.288**

[a] Pipeline fuel only, including supplemental gaseous fuels.

[b] Products obtained from the processing of crude oil (including lease condensate), natural gas, and other hydrocarbon compounds.

[c] Due to a lack of consistent historical data, some renewable energy sources are not included. For example, in 1992, an estimated 0.1 quadrillion Btu of renewable energy consumed by the U.S. transportation sector is not included.

[d] Since 1978, the small amounts of coal consumed for transportation are reported as industrial sector consumption.

(s)=Less than 0.5 trillion Btu.

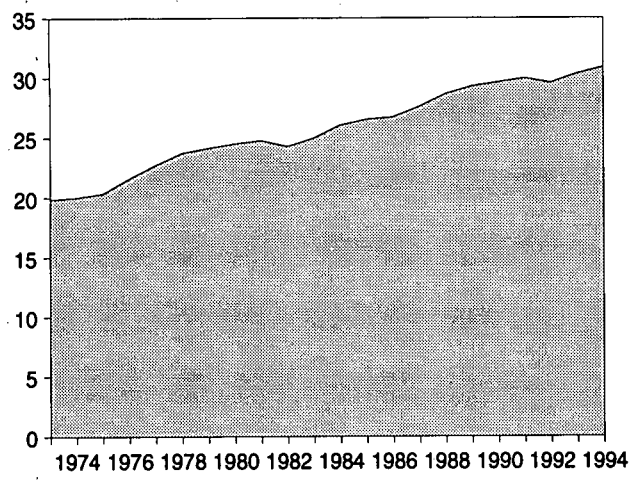
Notes: • Totals may not equal sum of components due to independent rounding. • Geographic coverage is the 50 States and the District of Columbia.

Additional Notes and Sources: See end of section.

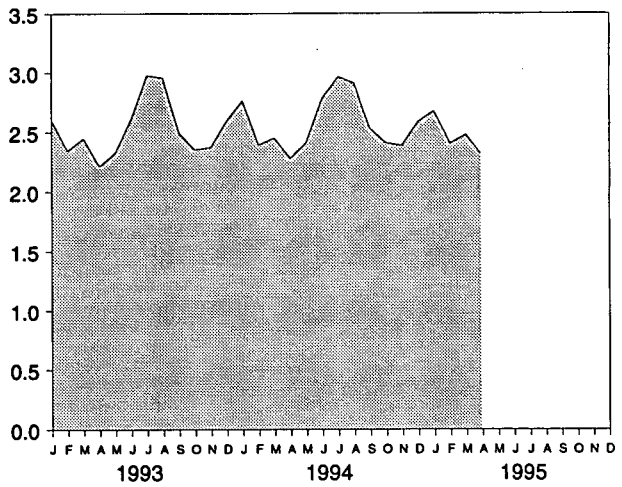
Figure 2.5 Energy Input at Electric Utilities

(Quadrillion Btu)

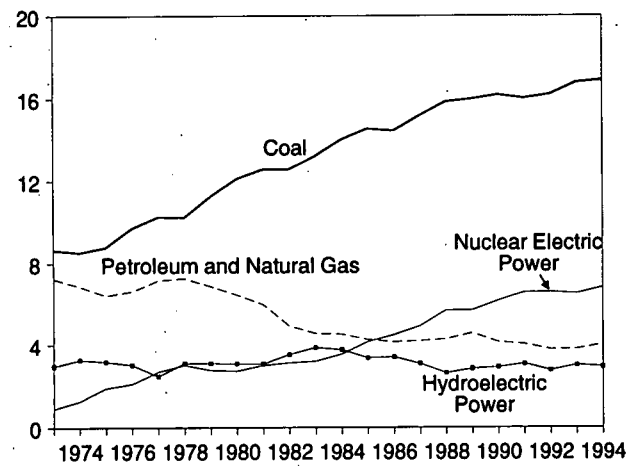
Total, 1973-1994



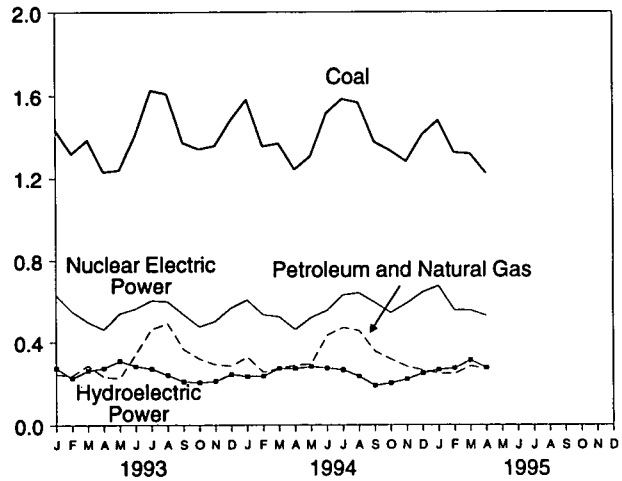
Total, Monthly



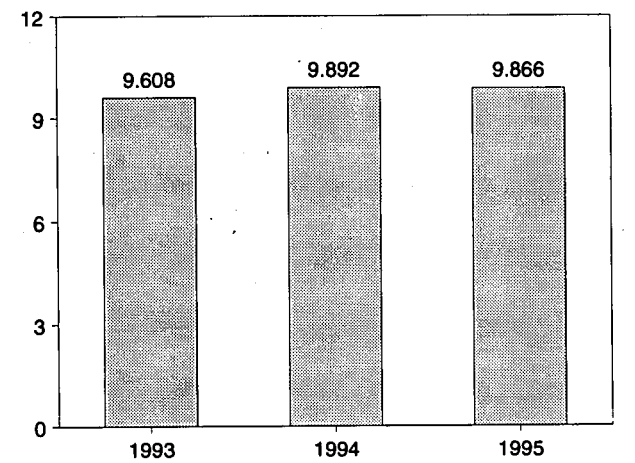
By Major Sources, 1973-1994



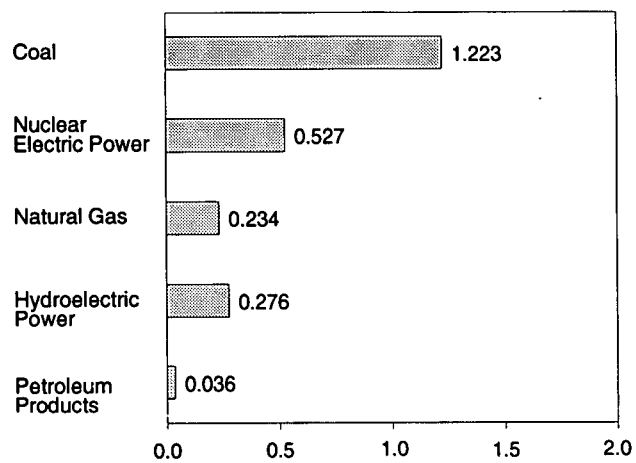
By Major Sources, Monthly



Total, January-April



By Major Sources, April 1995



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

Table 2.6 Energy Input at Electric Utilities

(Quadrillion Btu)

	Coal	Natural Gas[a]	Petroleum Products[b]	Nuclear Electric Power	Hydro-electric Power[c]	Geothermal Energy	Other[d]	Total
1973 Total	**8.658**	**3.748**	**3.515**	**0.910**	**2.975**	**0.043**	**0.003**	**19.852**
1974 Total	**8.534**	**3.519**	**3.365**	**1.272**	**3.276**	**.053**	**.003**	**20.022**
1975 Total	**8.786**	**3.240**	**3.166**	**1.900**	**3.187**	**.070**	**.002**	**20.350**
1976 Total	**9.720**	**3.152**	**3.477**	**2.111**	**3.032**	**.078**	**.003**	**21.574**
1977 Total	**10.262**	**3.284**	**3.901**	**2.702**	**2.482**	**.077**	**.005**	**22.713**
1978 Total	**10.238**	**3.297**	**3.987**	**3.024**	**3.110**	**.064**	**.003**	**23.724**
1979 Total	**11.260**	**3.613**	**3.283**	**2.776**	**3.107**	**.084**	**.005**	**24.128**
1980 Total	**12.123**	**3.810**	**2.634**	**2.739**	**3.085**	**.110**	**.005**	**24.505**
1981 Total	**12.583**	**3.768**	**2.202**	**3.008**	**3.072**	**.123**	**.004**	**24.760**
1982 Total	**12.582**	**3.342**	**1.568**	**3.131**	**3.539**	**.105**	**.003**	**24.270**
1983 Total	**13.213**	**2.998**	**1.544**	**3.203**	**3.866**	**.129**	**.004**	**24.956**
1984 Total	**14.020**	**3.220**	**1.286**	**3.553**	**3.767**	**.165**	**.009**	**26.020**
1985 Total	**14.542**	**3.160**	**1.090**	**4.149**	**3.365**	**.198**	**.015**	**26.519**
1986 Total	**14.444**	**2.691**	**1.452**	**4.471**	**3.413**	**.219**	**.012**	**26.703**
1987 Total	**15.173**	**2.935**	**1.257**	**4.906**	**3.084**	**.229**	**.016**	**27.600**
1988 Total	**15.850**	**2.709**	**1.563**	**5.661**	**2.630**	**.217**	**.017**	**28.648**
1989 Total	**15.988**	**2.871**	**1.685**	**5.677**	**2.848**	**.197**	**.020**	**29.286**
1990 Total	**16.189**	**2.882**	**1.250**	**6.161**	**2.914**	**.181**	**.021**	**29.599**
1991 Total	**16.028**	**2.856**	**1.178**	**6.579**	**3.083**	**.170**	**.021**	**29.915**
1992 Total	**16.211**	**2.826**	**.951**	**6.607**	**2.760**	**.170**	**.022**	**29.547**
1993 January	1.432	.168	.077	.631	.275	.014	.002	2.599
February	1.317	.165	.074	.548	.226	.013	.002	2.346
March	1.384	.198	.090	.498	.263	.014	.002	2.450
April	1.230	.178	.055	.461	.275	.014	.002	2.214
May	1.239	.171	.056	.538	.310	.012	.001	2.328
June	1.406	.260	.083	.562	.284	.012	.001	2.608
July	1.625	.341	.121	.604	.272	.013	.001	2.977
August	1.609	.365	.126	.600	.242	.014	.002	2.957
September	1.372	.264	.102	.534	.210	.013	.002	2.497
October	1.340	.240	.080	.475	.205	.013	.002	2.355
November	1.356	.213	.079	.501	.211	.013	.002	2.374
December	1.480	.178	.108	.567	.245	.013	.002	2.594
Total	**16.790**	**2.741**	**1.052**	**6.519**	**3.017**	**.158**	**.021**	**30.299**
1994 January	1.580	.174	.155	.607	.236	.013	.002	2.767
February	1.354	.152	.103	.532	.237	.012	.002	2.393
March	1.368	.190	.084	.523	.273	.012	.002	2.452
April	1.242	.208	.081	.461	.273	.012	.002	2.280
May	1.305	.221	.074	.518	.282	.012	.002	2.414
June	1.513	.326	.106	.553	.275	.011	.002	2.785
July	1.583	.370	.100	.632	.266	.012	.002	2.964
August	1.566	.391	.064	.642	.235	.013	.002	2.912
September	1.375	.302	.053	.594	.190	.012	.002	2.528
October	1.333	.270	.048	.542	.203	.012	.002	2.410
November	1.280	.236	.047	.590	.221	.012	.002	2.389
December	1.410	.212	.052	.646	.250	.012	.002	2.585
Total	**16.910**	**3.053**	**.968**	**6.841**	**2.941**	**.145**	**.020**	**30.879**
1995 January	1.478	.203	.046	.677	.267	.009	.001	2.680
February	1.323	.172	.075	.554	.274	.006	.001	2.406
March	1.317	.251	.034	.554	.313	.007	.001	2.477
April	1.223	.234	.036	.527	.276	.006	.002	2.303
4-Month Total	**5.341**	**.860**	**.190**	**2.312**	**1.130**	**.027**	**.005**	**9.866**
1994 4-Month Total	**5.544**	**.725**	**.424**	**2.124**	**1.019**	**.050**	**.007**	**9.892**
1993 4-Month Total	**5.364**	**.709**	**.296**	**2.139**	**1.039**	**.054**	**.007**	**9.608**

[a] Includes supplemental gaseous fuels.

[b] Includes residual and distillate fuel oils, petroleum coke, and small amounts of kerosene and jet fuel.

[c] Includes net imports of electricity.

[d] "Other" is electricity generated for distribution from wood, waste, wind, photovoltaic, and solar thermal energy.

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

Additional Notes and Sources: See end of section.

Energy Consumption Notes and Sources

The data in this section of the *Monthly Energy Review* (*MER*) are obtained initially from a group of energy-related surveys, typically called "supply surveys," conducted by the Energy Information Administration (EIA). Supply surveys are those surveys 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 the 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 the 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 numbered notes that follow elaborate on essential information in Section 2.

1. Total Energy Consumed: Total energy consumed includes coal, natural gas (including supplemental gaseous fuels), petroleum products supplied, electric utility and industrial generation of hydroelectric power, net imports of electricity generated from hydroelectric power, and electricity generated from nuclear power. Total energy consumed also includes electricity generated from geothermal, wood, waste, wind, photovoltaic, and solar thermal energy but excludes other energy obtained from those sources because consistent historical data are not available.

2. Economic Sectors: Energy use is assigned to the major economic sectors according to the following guidelines as closely as possible:

- Residential—All private residences, whether occupied or vacant, owned or rented, including single-family homes, multifamily housing units, and mobile homes. Secondary homes, such as summer homes, are also included. Institutional housing, such as school dormitories, hospitals, and military barracks, generally are not included in the residential sector; they are included in the commercial sector.
- Commercial—Business establishments that are not engaged in transportation or in manufacturing or other types of industrial activity (agriculture, mining, or construction). Commercial establishments include hotels, motels, restaurants, wholesale businesses, retail stores, laundries, and other service enterprises; religious and nonprofit organizations; health, social, and educational institutions; and Federal, State, and local governments. Street lights, pumps, bridges, and public services are also included if the establishment operating them is considered commercial.
- Industrial—Manufacturing industries, which make up the largest part of the sector, along with mining, construction, agriculture, fisheries, and forestry. Establishments in this sector range from steel mills to small farms to companies assembling electronic components.
- Transportation—Private and public vehicles that move people and commodities. Included are automobiles, trucks, buses, motorcycles, railroads and railways (including streetcars), aircraft, ships, barges, and natural gas pipelines.
- Electric Utility—Privately and publicly owned establishments that generate, transmit, distribute, and sell electricity primarily for use by the public and meet the definition of an electric utility. Nonutility power producers are not included in the electric utility sector.

Although the end-use allocations are made according to these aggregations as closely as possible, some data are collected by using different classifications. For example, data on agricultural use of natural gas are collected and reported in the commercial sector, rather than in the industrial sector. Since agricultural use of natural gas cannot be identified separately, it is included in the commercial sector in this report. 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 the conversion factors listed in Appendix A.

4. Coal: Coal is anthracite, bituminous coal (including subbituminous coal), and lignite. Sources:

- 1973-September 1977: U.S. Department of the Interior (DOI), Bureau of Mines (BOM), *Minerals Yearbook* and *Minerals Industry Surveys.*
- Electric Utilities—October 1977 forward: Energy Information Administration (EIA), Form EIA-759 (formerly Federal Power Commission (FPC) Form FPC-4), "Monthly Power Plant Report."
- Other Industrial—October 1977-December 1979: EIA, Form EIA-3, "Monthly Coal Consumption Report - Manufacturing Plants"; January 1980 for-

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

- Coke Plants—October 1977-December 1980: EIA, Form EIA-5/5A, "Coke and Coal Chemicals - Monthly/Annual"; January 1981-December 1984: EIA, Form EIA-5/5A, "Coke Plant Report - Quarterly/Annual Supplement"; January 1985 forward: EIA, Form EIA-5/5A, "Coke Plant Report - Quarterly."
- Residential and Commercial—October 1977-December 1979: EIA, Form EIA-2, "Monthly Coal Report, Retail Dealers - Upper Lake Docks"; January 1980 forward: EIA, Form EIA-6, "Coal Distribution Report," quarterly.

5. Natural Gas: Natural gas consumption by end use is based on data presented in Table 4.4 of this report. For Section 2 calculations, lease and plant fuel consumption are added to industrial deliveries, and pipeline fuel represents transportation use of natural gas. Values in Btu are derived by using the conversion factors provided in Appendix A. Sources:

- 1973-1975: DOI, BOM, *Minerals Yearbook*, "Natural Gas" chapter.
- 1976-1978: EIA, *Energy Data Reports*, "Natural Gas, Annual."
- 1979: EIA, *Natural Gas Production and Consumption 1979.*
- 1980-1992: EIA, *Natural Gas Annual.*
- 1993: EIA, *Natural Gas Monthly.*
- Electric Utilities—1973-1976: Form FPC-4, "Monthly Power Plant Report"; 1977-1981: Federal Energy Regulatory Commission (FERC), Form FPC-4, "Monthly Power Plant Report"; 1982 forward: EIA, Form EIA-759, "Monthly Power Plant Report."
- American Gas Association, "Monthly Gas Utility Statistical Report," residential and commercial monthly sales data for 1973-1979, which are used to estimate monthly consumption values from EIA annual consumption values.

6. Petroleum: Petroleum consumption by end use is the sum of all individual petroleum products estimated to be consumed in each end-use sector. First, total consumption by product is determined. Petroleum consumption in this section of the *Monthly Energy Review (MER)* is the series called "petroleum products supplied" in Section 3. Sources for petroleum products supplied by individual products are:

- 1973-1975: DOI, BOM, *Mineral Industry Surveys*, "Petroleum Statement, Annual."
- 1976-1980: EIA, *Energy Data Reports*, "Petroleum Statement, Annual."
- 1981-1994: EIA, *Petroleum Supply Annual.*
- 1995: EIA, *Petroleum Supply Monthly.*

Specific petroleum products' end-use allocation procedures follow:

- **Aviation Gasoline**—All product supplied is assigned to the transportation sector.
- **Asphalt**—All product supplied is assigned to the industrial sector.
- **Distillate Fuel**—Product supplied is assigned to electric utilities and non-electric utilities as follows:

Electric Utilities, All 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. (See Table 7.3)

Sources: 1973-September 1977: FPC, Form FPC-4, "Monthly Power Plant Report"; October 1977-1981: FERC, Form FPC-4, "Monthly Power Plant Report"; 1982 forward: EIA, Form EIA-759, "Monthly Power Plant Report."

Sectors Other Than Electric Utilities, Annual Estimates Through 1993.

The aggregate non-electric utility use of distillate fuel is total distillate fuel supplied minus the electric utility consumption. The non-electric utility annual consumption totals are allocated to the individual non-electric utility 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.

Sectors Other Than Electric Utilities, Monthly Estimates Through 1993.

- 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 1983-1992, 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." 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 supplied.

Sectors Other Than Electric Utilities, 1994 and 1995.

Each month's non-electric utility consumption subtotal is disaggregated into the major end-use sectors in proportion to the shares each sector held of the non-electric utility subtotal in the same month in 1993.

- **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**—Total product supplied monthly is allocated to the major end-use sectors in proportion to annual sales grouped into end-use 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:

  - Residential deliveries are taken directly from the *Sales* reports for 1979-1993. Sales for 1993 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 1979-1993. Sales for 1993 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 1979-1993. Sales for 1993 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 consumed by each end-use sector are applied to each month's total LPG consumption (i.e., product supplied) to create monthly end-use consumption estimates. The annual end-use shares are calculated in the following manner:

  - 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 high of 67 percent in 1981 to a low of 37 percent in 1987.

  - 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.

The sources of the annual sales data for creating annual end-use 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.

- 1984-1993: 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.

- 1994 and 1995: The 1993 source is used to estimate succeeding periods.

- **Lubricants**—Total product supplied 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**—Total product supplied monthly is allocated to the major end-use 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**—The portion consumed by electric utilities is from Form EIA-759, "Monthly Power Plant Report" (formerly Form FPC-4). The remaining petroleum coke is assigned to the industrial sector.
- **Residual Fuel**—Product supplied is assigned to electric utilities and non-electric utilities as follows:

  Electric Utilities, All 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. (See Table 7.3)

  Sources: 1973-September 1977: Form FPC-4, "Monthly Power Plant Report"; October 1977-1981: FERC, Form FPC-4, "Monthly Power Plant Report"; 1982 forward: EIA, Form EIA-759, "Monthly Power Plant Report."

  Sectors Other Than Electric Utilities, Annual Estimates Through 1993.

  The aggregate non-electric utility use of residual fuel is total residual fuel supplied minus the electric utility consumption. The non-electric utility annual totals are allocated into the individual non-electric utility 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.

  Sectors Other Than Electric Utilities, Monthly Estimates Through 1993.

  - 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 1983-1992, 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.

Sectors Other Than Electric Utilities, 1994 and 1995.

Each month's non-electric utility consumption subtotal is disaggregated into the major end-use sectors in proportion to the shares each sector held of the non-electric utility subtotal in the same month in 1993.

- **Road Oil**—All product supplied is assigned to the industrial sector.
- **All Other Petroleum Products**—The product supplied of all remaining petroleum products is assigned to the industrial sector.

7. Nuclear Electric Power, Geothermal, and Wood, Waste, Wind, Photovoltaic, and Solar Thermal Energy Sources Connected to Electric Utility Distribution Systems: Sources:

- 1973-1976: FPC, Form FPC-4, "Monthly Power Plant Report."
- 1977-1981: FERC, Form FPC-4, "Monthly Power Plant Report."
- 1982 forward: EIA, Form EIA-759, "Monthly Power Plant Report."

8. Hydroelectric Power: Includes electricity generated by hydroelectric power at electric utilities, small amounts in the industrial sector, and net imports of electricity, which are assumed to be generated by hydroelectric power and are included in the electric utilities sector.

Sources for electric utilities sector:

- 1973-1976: FPC, Form FPC-4, "Monthly Power Plant Report."
- 1977-1981: FERC, Form FPC-4, "Monthly Power Plant Report."
- 1982 forward: EIA, Form EIA-759, "Monthly Power Plant Report."

Sources for industrial sector:

- 1973-1978: 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.
- 1979: FPC, Form FPC-4, "Monthly Power Plant Report," for plants with generating capacity exceeding 10 megawatts and EIA estimates for all other plants.
- 1980 forward: Annual generation estimated by EIA as the average generation over the 6-year period of 1974-1979; monthly generation estimated to be in proportion to each month's hydroelectricity generation in the electric utility industry in 1980.

Sources for 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."
- 1989-1992: DOE, Assistant Secretary for Fossil Energy, Form FE-781-R, "Annual Report of International Electrical Export/Import Data."
- 1993 forward: EIA estimates based on preliminary data from the National Energy Board of Canada and DOE, Assistant Secretary for Fossil Energy.

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

- 1973-1975: DOI, BOM, *Minerals Yearbook,* "Coke and Coal Chemicals" chapter.
- 1976-1980: EIA, *Energy Data Report,* "Coke and Coal Chemicals" annual.
- 1981: EIA, *Energy Data Report,* "Coke Plant Report," quarterly.
- 1982 forward: EIA, *Quarterly Coal Report.*

10. Electricity: End-use consumption of electricity is based on Table 7.2 sales data. "Other," which is primarily for use in government buildings, is added to the commercial sector, except for approximately 4 percent used by railroads and railways and attributed to the

transportation sector. For 1973-1983 and 1994, "Monthly Series" data are used directly. For 1984-1993, monthly estimates are created by dividing each month's "Monthly Series" value by the "Monthly Series" total for the year and multiplying by the "Annual Series" value for the year. Kilowatthours are converted to Btu at the rate of 3,412 Btu per kilowatthour. See Table 7.2 for sources of the electricity sales data.

11. Electrical System Energy Losses: Electrical system energy losses are calculated as the difference between total energy input at electric utilities and the total energy content of electricity sold to end-use consumers. Most of those 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 imports[2] averaged 9.2 million barrels per day in June 1995, 5 percent higher than the previous month's rate but 2 percent[3] lower than the June 1994 rate.

In June 1995, 18.0 million barrels per day of petroleum products were supplied for domestic use, 1 percent higher than the June 1994 rate. Motor gasoline accounted for 46 percent of the total; distillate fuel oil, 17 percent; and residual fuel oil, 5 percent.

Motor gasoline supplied during June 1995 averaged 8.2 million barrels per day, 4 percent higher than the previous month's rate and 3 percent higher than the June 1994 rate. Total motor gasoline stocks were 208 million barrels at the end of June 1995, the same as the stock level in the previous month but 4 million barrels below the stock level 1 year earlier.

Distillate fuel oil supplied during June 1995 averaged 3.1 million barrels per day, 7 percent higher than the previous month's rate and 1 percent higher than the June 1994 rate. Distillate fuel oil ending stocks for June 1995 were 117 million barrels, 2 million barrels below the stock level in the previous month and 3 million barrels below the level 1 year earlier.

Residual fuel oil supplied in June 1995 averaged 0.8 million barrels per day, 10 percent higher than the previous month's rate but 11 percent lower than the June 1994 rate. Residual fuel oil stocks measured 35 million barrels at the end of June 1995, 4 million barrels below the stock levels in both the previous month and 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 March 1995.

[2]Total import data include imports into the Strategic Petroleum Reserve.
[3]Percentage changes are based on numbers shown in the following tables.

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

	Field Production			Stock Change[a]			Ending Stocks[b]
	Total Domestic[c]	Crude Oil	Natural Gas Plant Liquids	Crude Oil[d]	Petroleum Products	Petroleum Products Supplied	Crude Oil[d] and Petroleum Products
	Thousand Barrels per Day						Million Barrels
1973 Average	**10,975**	**9,208**	**1,738**	**-11**	**146**	**17,308**	**1,008**
1974 Average	**10,498**	**8,774**	**1,688**	**62**	**117**	**16,653**	**e1,074**
1975 Average	**10,045**	**8,375**	**1,633**	**e17**	**e15**	**16,322**	**1,133**
1976 Average	**9,774**	**8,132**	**f1,604**	**39**	**-96**	**17,461**	**1,112**
1977 Average	**9,913**	**8,245**	**1,618**	**170**	**378**	**18,431**	**1,312**
1978 Average	**10,328**	**8,707**	**1,567**	**78**	**-172**	**18,847**	**1,278**
1979 Average	**10,179**	**8,552**	**1,584**	**148**	**25**	**18,513**	**1,341**
1980 Average	**10,214**	**8,597**	**1,573**	**98**	**42**	**17,056**	**e1,392**
1981 Average	**10,230**	**8,572**	**1,609**	**e290**	**e-130**	**16,058**	**1,484**
1982 Average	**10,252**	**8,649**	**1,550**	**136**	**-283**	**15,296**	**e1,430**
1983 Average	**10,299**	**8,688**	**1,559**	**e214**	**e-234**	**15,231**	**1,454**
1984 Average	**10,554**	**8,879**	**1,630**	**199**	**81**	**15,726**	**1,556**
1985 Average	**10,636**	**8,971**	**1,609**	**50**	**-153**	**15,726**	**1,519**
1986 Average	**10,289**	**8,680**	**1,551**	**78**	**124**	**16,281**	**1,593**
1987 Average	**10,008**	**8,349**	**1,595**	**128**	**-87**	**16,665**	**1,607**
1988 Average	**9,818**	**8,140**	**1,625**	**1**	**-29**	**17,283**	**1,597**
1989 Average	**9,219**	**7,613**	**1,546**	**86**	**-129**	**17,325**	**1,581**
1990 Average	**8,994**	**7,355**	**1,559**	**-35**	**142**	**16,988**	**1,621**
1991 Average	**9,168**	**7,417**	**1,659**	**-42**	**32**	**16,714**	**1,617**
1992 Average	**8,996**	**7,171**	**1,697**	**-1**	**-68**	**17,033**	**e1,592**
1993 January	g9,254	6,961	1,737	295	e560	16,173	1,618
February	8,907	6,943	1,777	219	-796	17,334	1,602
March	8,987	6,974	1,793	212	-602	17,575	1,590
April	8,897	6,881	1,802	523	356	16,781	1,617
May	8,800	6,847	1,732	147	915	16,508	1,650
June	8,747	6,795	1,753	2	573	17,096	1,667
July	8,657	6,688	1,741	6	497	17,357	1,682
August	8,720	6,758	1,747	-505	299	17,332	1,676
September	8,652	6,712	1,732	-439	86	17,650	1,665
October	8,893	6,839	1,768	328	403	17,323	1,688
November	8,847	6,912	1,670	251	-320	17,780	1,686
December	8,668	6,858	1,579	-53	-1,198	17,953	1,647
Average	**8,836**	**6,847**	**1,736**	**81**	**70**	**17,237**	**1,647**
1994 January	8,694	6,817	1,615	90	-906	18,072	1,622
February	8,611	6,770	1,633	-97	-1,190	18,337	1,586
March	8,675	6,746	1,668	324	-379	17,313	1,584
April	8,524	6,612	1,679	-68	284	17,489	1,591
May	8,614	6,688	1,711	-253	954	17,181	1,612
June	8,586	6,611	1,733	-104	497	17,815	1,624
July	8,550	6,501	1,753	148	824	17,485	1,654
August	8,526	6,544	1,760	-129	291	18,117	1,659
September	8,670	6,609	1,792	227	579	17,490	1,684
October	8,683	6,658	1,748	255	-607	17,719	1,673
November	8,758	6,628	1,815	102	380	17,315	1,687
December	8,842	6,760	1,807	-292	-813	18,319	1,653
Average	**8,645**	**6,662**	**1,727**	**18**	**-2**	**17,718**	**1,653**
1995 January	E8,664	E6,596	1,773	-279	-117	17,167	1,641
February	E8,832	E6,703	1,774	-48	-1,315	18,355	1,603
March	E8,625	E6,606	1,773	344	-484	17,403	1,599
April	E8,680	E6,561	1,789	-101	123	17,102	1,600
May	RE8,663	RE6,572	R1,785	R-111	R494	R17,241	R1,611
June	E8,602	PE6,557	E1,778	E-176	E203	E17,978	E1,615
6-Month Average	**E8,675**	**PE6,598**	**E1,779**	**E-61**	**E-168**	**E17,528**	**E1,615**
1994 6-Month Average	**8,618**	**6,707**	**1,673**	**-16**	**-111**	**17,691**	**1,624**
1993 6-Month Average	**8,933**	**6,900**	**1,765**	**233**	**180**	**16,904**	**1,667**

[a] A negative number indicates a decrease in stocks and a positive number indicates an increase.
[b] Stocks are totals as of end of period.
[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 data. 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*, July 1995, Table S1.

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

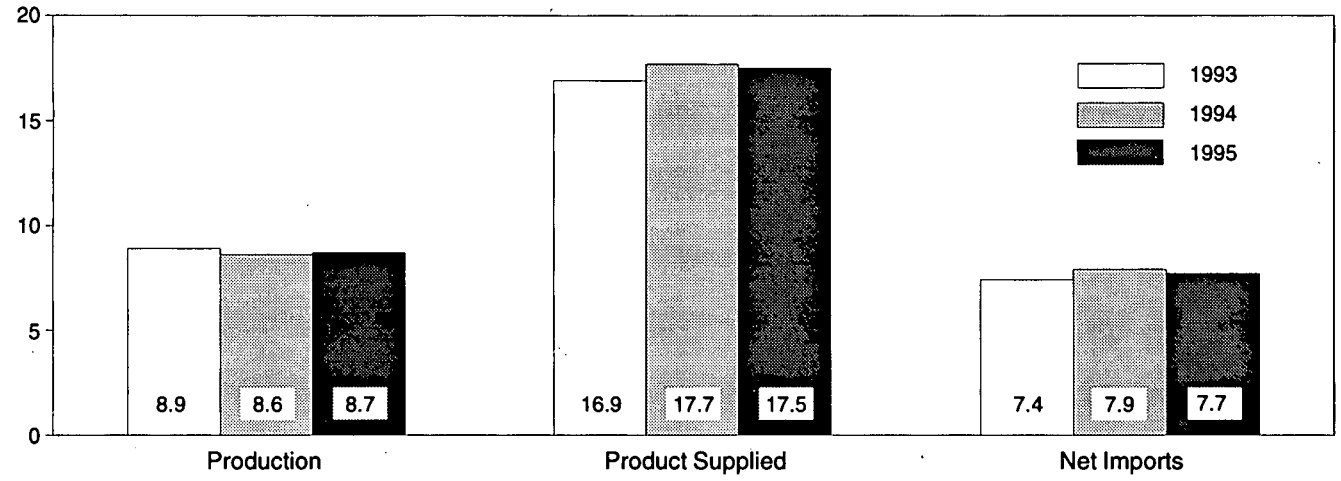
	Imports			Exports			Net Imports[b]
	Total	Crude Oil[a]	Petroleum Products	Total	Crude Oil	Petroleum Products	
	Thousand Barrels per Day						
1973 Average	**6,256**	**3,244**	**3,012**	**231**	**2**	**229**	**6,025**
1974 Average	**6,112**	**3,477**	**2,635**	**221**	**3**	**218**	**5,892**
1975 Average	**6,056**	**4,105**	**1,951**	**209**	**6**	**204**	**5,846**
1976 Average	**7,313**	**5,287**	**2,026**	**223**	**8**	**215**	**7,090**
1977 Average	**8,807**	**6,615**	**2,193**	**243**	**50**	**193**	**8,565**
1978 Average	**8,363**	**6,356**	**2,008**	**362**	**158**	**204**	**8,002**
1979 Average	**8,456**	**6,519**	**1,937**	[c] **471**	**235**	[c] **236**	[c] **7,985**
1980 Average	**6,909**	**5,263**	**1,646**	**544**	**287**	**258**	**6,365**
1981 Average	**5,996**	**4,396**	**1,599**	**595**	**228**	**367**	**5,401**
1982 Average	**5,113**	**3,488**	**1,625**	**815**	**236**	**579**	**4,298**
1983 Average	**5,051**	**3,329**	**1,722**	**739**	**164**	**575**	**4,312**
1984 Average	**5,437**	**3,426**	**2,011**	**722**	**181**	**541**	**4,715**
1985 Average	**5,067**	**3,201**	**1,866**	**781**	**204**	**577**	**4,286**
1986 Average	**6,224**	**4,178**	**2,045**	**785**	**154**	**631**	**5,439**
1987 Average	**6,678**	**4,674**	**2,004**	**764**	**151**	**613**	**5,914**
1988 Average	**7,402**	**5,107**	**2,295**	**815**	**155**	**661**	**6,587**
1989 Average	**8,061**	**5,843**	**2,217**	**859**	**142**	**717**	**7,202**
1990 Average	**8,018**	**5,894**	**2,123**	**857**	**109**	**748**	**7,161**
1991 Average	**7,627**	**5,782**	**1,844**	**1,001**	**116**	**885**	**6,626**
1992 Average	**7,888**	**6,083**	**1,805**	**950**	**89**	**861**	**6,938**
1993 January	8,004	6,292	1,712	1,135	129	1,006	6,869
February	7,948	6,156	1,792	1,033	166	867	6,915
March	8,285	6,488	1,797	970	139	831	7,315
April	8,768	6,928	1,840	1,067	73	994	7,701
May	8,663	6,809	1,854	1,082	112	970	7,581
June	8,805	7,201	1,604	900	150	750	7,905
July	9,219	7,289	1,930	1,001	62	938	8,218
August	8,429	6,641	1,789	829	55	774	7,600
September	8,531	6,581	1,950	902	107	795	7,629
October	9,197	7,181	2,015	881	62	819	8,316
November	8,903	6,997	1,906	980	67	913	7,923
December	8,645	6,838	1,807	1,250	63	1,188	7,394
Average	**8,620**	**6,787**	**1,833**	**1,003**	**98**	**904**	**7,618**
1994 January	7,993	5,945	2,048	927	110	817	7,066
February	8,539	6,313	2,226	882	116	766	7,657
March	8,574	6,372	2,202	936	40	896	7,638
April	8,968	6,955	2,013	868	120	749	8,100
May	9,213	7,198	2,015	929	118	812	8,284
June	9,305	7,358	1,947	867	107	760	8,438
July	9,779	7,857	1,922	877	84	793	8,902
August	9,510	7,488	2,022	913	72	841	8,597
September	9,693	7,868	1,825	891	61	830	8,802
October	8,788	7,136	1,651	997	138	859	7,791
November	8,707	7,034	1,674	1,000	102	898	7,707
December	8,863	7,193	1,670	1,208	118	1,090	7,655
Average	**8,996**	**7,063**	**1,933**	**942**	**99**	**843**	**8,054**
1995 January	7,955	6,503	1,452	978	113	865	6,977
February	8,358	6,565	1,793	1,062	95	967	7,296
March	9,020	7,409	1,612	948	68	880	8,073
April	8,486	7,073	1,413	998	155	842	7,488
May	[R] 8,736	[R] 7,354	[R] 1,382	[R] 876	[R] 73	[R] 803	[R] 7,860
June	[E] 9,150	[E] 7,655	[E] 1,495	[E] 930	[E] 91	[E] 839	[E] 8,220
6-Month Average	[E] **8,620**	[E] **7,099**	[E] **1,521**	[E] **964**	[E] **99**	[E] **865**	[E] **7,656**
1994 6-Month Average	**8,765**	**6,691**	**2,074**	**902**	**101**	**801**	**7,863**
1993 6-Month Average	**8,416**	**6,649**	**1,767**	**1,032**	**128**	**904**	**7,384**

[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 data. 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*, July 1995, Table S1.

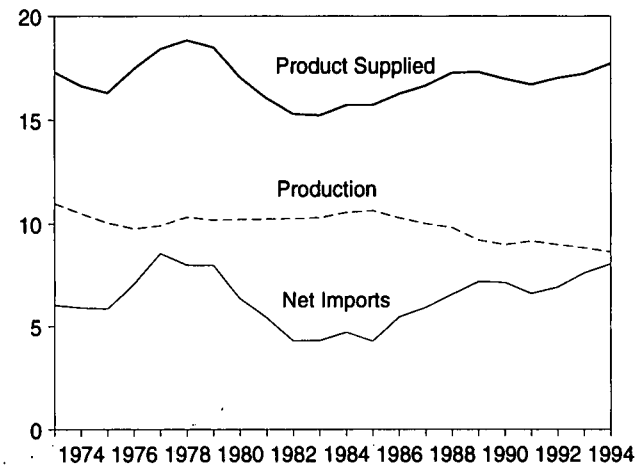
Figure 3.1 Petroleum Overview

(Million Barrels per Day)

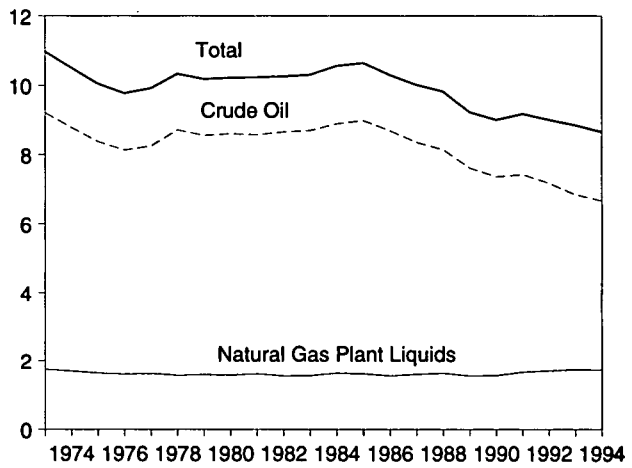
Overview, January-June



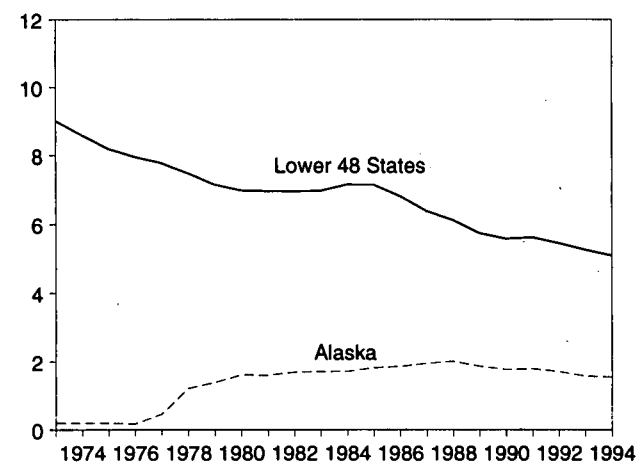
Overview, 1973-1994



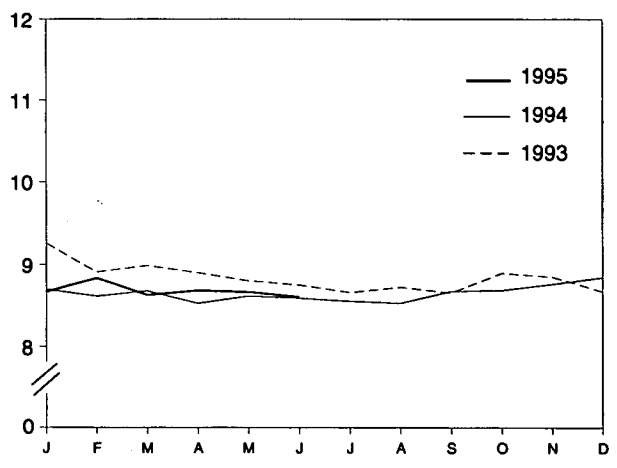
Production, 1973-1994



Crude Oil Production, 1973-1994



Total Production, Monthly

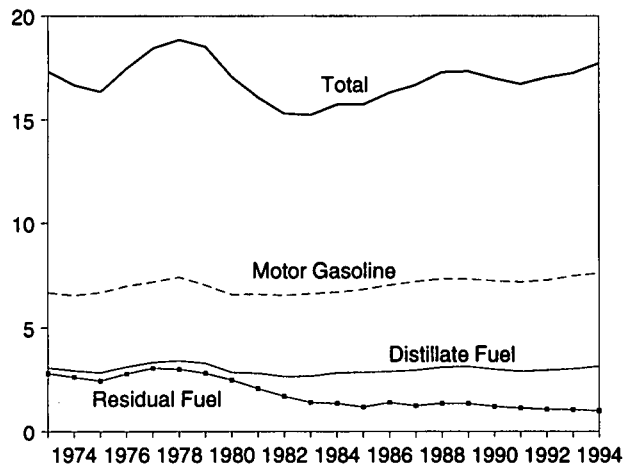


Note: Because vertical scales differ, graphs should not be compared.
Sources: Tables 3.1a, 3.1b, and 3.2a.

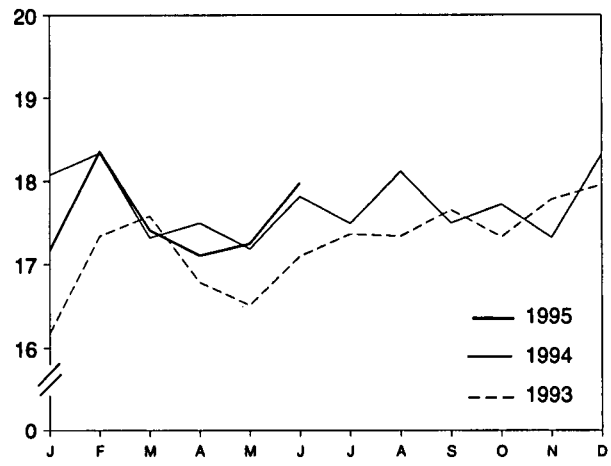
Figure 3.1 Petroleum Overview (Continued)

(Million Barrels per Day, Except as Noted)

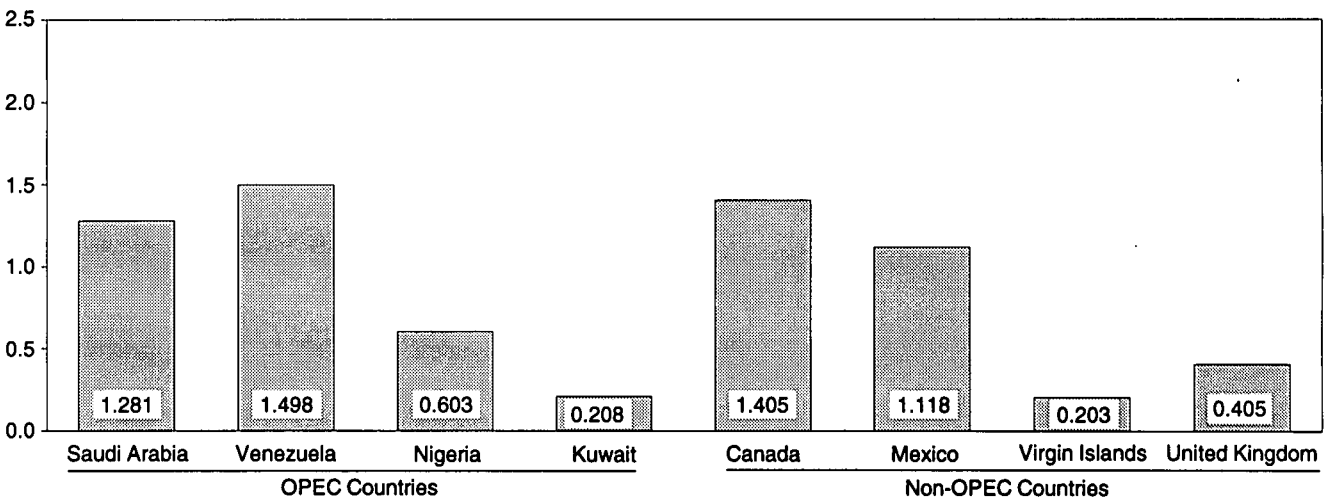
Product Supplied, 1973-1994



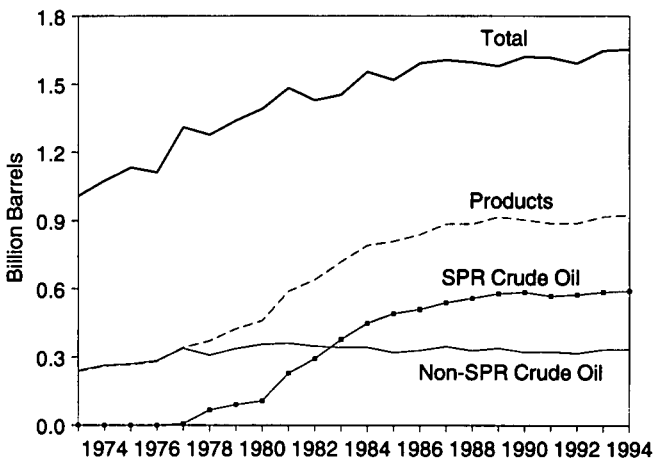
Product Supplied, Monthly



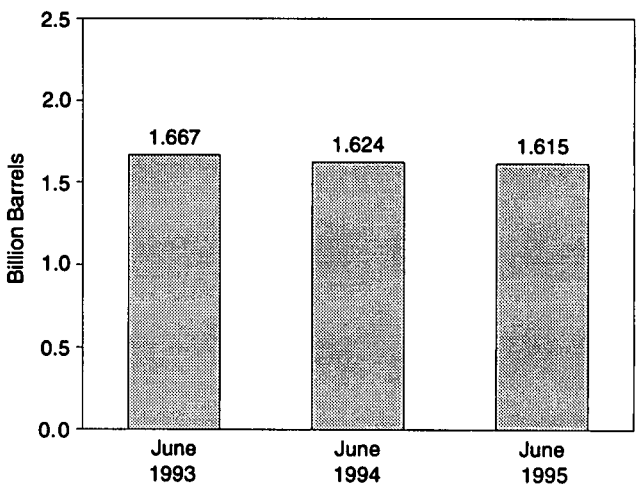
Imports from Selected Countries, May 1995



Stocks, End of Year, 1973-1994



Total Stocks, End of Month



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

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

Table 3.2a Crude Oil Supply and Disposition: Supply

	Supply						
	Field Production		Imports			Unaccounted-for Crude Oil[b]	Crude Oil Used Directly[c]
	Total Domestic	Alaskan	Total	SPR[a]	Other		
	Thousand Barrels per Day						
1973 Average	**9,208**	**198**	**3,244**	–	**3,244**	**3**	**-19**
1974 Average	**8,774**	**193**	**3,477**	–	**3,477**	**-25**	**-15**
1975 Average	**8,375**	**191**	**4,105**	–	**4,105**	**17**	**-17**
1976 Average	**8,132**	**173**	**5,287**	–	**5,287**	**77**	[d] **-19**
1977 Average	**8,245**	**464**	**6,615**	**21**	**6,594**	**-6**	**-14**
1978 Average	**8,707**	**1,229**	**6,356**	[d] **161**	**6,195**	**-57**	[d] **-15**
1979 Average	**8,552**	**1,401**	**6,519**	**67**	**6,452**	**-11**	[d] **-14**
1980 Average	**8,597**	**1,617**	**5,263**	**44**	**5,219**	**34**	[d] **-14**
1981 Average	**8,572**	**1,609**	**4,396**	**256**	**4,141**	**83**	**-58**
1982 Average	**8,649**	**1,696**	**3,488**	**165**	**3,323**	**71**	**-59**
1983 Average	**8,688**	**1,714**	**3,329**	**234**	**3,096**	**114**	**–**
1984 Average	**8,879**	**1,722**	**3,426**	**197**	**3,229**	**185**	**–**
1985 Average	**8,971**	**1,825**	**3,201**	**118**	**3,083**	**145**	**–**
1986 Average	**8,680**	**1,867**	**4,178**	**48**	**4,130**	**139**	**–**
1987 Average	**8,349**	**1,962**	**4,674**	**73**	**4,601**	**145**	**–**
1988 Average	**8,140**	**2,017**	**5,107**	**51**	**5,055**	**196**	**–**
1989 Average	**7,613**	**1,874**	**5,843**	**56**	**5,787**	**200**	**–**
1990 Average	**7,355**	**1,773**	**5,894**	**27**	**5,867**	**258**	**–**
1991 Average	**7,417**	**1,798**	**5,782**	**0**	**5,782**	**195**	**–**
1992 Average	**7,171**	**1,714**	**6,083**	**10**	**6,073**	**258**	**–**
1993 January	6,961	1,654	6,292	0	6,292	118	–
February	6,943	1,628	6,156	0	6,156	162	–
March	6,974	1,639	6,488	32	6,455	101	–
April	6,881	1,587	6,928	112	6,817	333	–
May	6,847	1,568	6,809	0	6,809	443	–
June	6,795	1,520	7,201	0	7,201	293	–
July	6,688	1,441	7,289	0	7,289	236	–
August	6,758	1,528	6,641	0	6,641	3	–
September	6,712	1,471	6,581	34	6,547	224	–
October	6,839	1,610	7,181	0	7,181	109	–
November	6,912	1,670	6,997	0	6,997	106	–
December	6,858	1,671	6,838	0	6,838	-98	–
Average	**6,847**	**1,582**	**6,787**	**15**	**6,772**	**168**	**–**
1994 January	6,817	1,658	5,945	0	5,945	734	–
February	6,770	1,597	6,313	0	6,313	77	–
March	6,746	1,583	6,372	99	6,273	242	–
April	6,612	1,504	6,955	31	6,925	302	–
May	6,688	1,578	7,198	0	7,198	260	–
June	6,611	1,517	7,358	17	7,341	393	–
July	6,501	1,495	7,857	0	7,857	226	–
August	6,544	1,500	7,488	0	7,488	409	–
September	6,609	1,514	7,868	0	7,868	54	–
October	6,658	1,604	7,136	0	7,136	136	–
November	6,628	1,518	7,034	0	7,034	516	–
December	6,760	1,636	7,193	0	7,193	-165	–
Average	**6,662**	**1,559**	**7,063**	**12**	**7,051**	**266**	**–**
1995 January	[E] 6,596	[E] 1,575	6,503	0	6,503	352	–
February	[E] 6,703	[E] 1,578	6,565	0	6,565	155	–
March	[E] 6,606	[E] 1,525	7,409	0	7,409	-117	–
April	[E] 6,561	[E] 1,511	7,073	0	7,073	243	–
May	[RE] 6,572	[RE] 1,518	[R] 7,354	0	[R] 7,354	[R] 343	–
June	[PE] 6,557	[PE] 1,487	[E] 7,655	[E] 0	[E] 7,655	[E] 375	–
6-Month Average	[PE] **6,598**	[PE] **1,532**	[E] **7,099**	[E] **0**	[E] **7,099**	[E] **225**	**–**
1994 6-Month Average	**6,707**	**1,573**	**6,691**	**25**	**6,667**	**339**	**–**
1993 6-Month Average	**6,900**	**1,599**	**6,649**	**24**	**6,625**	**242**	**–**

[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 data. – =Not applicable. E=Estimate.

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

Sources: • **1973-1980:** Energy Information Administration (EIA), *Petroleum Supply Monthly*, February 1993, Table S2. • **1981 forward:** EIA, *Petroleum Supply Monthly*, July 1995, Table S2.

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

	Disposition						Ending Stocks[a]		
	Crude Losses	Stock Change[b] SPR[c]	Stock Change[b] Other	Refinery Inputs	Exports	Product Supplied[d]	Total	SPR[c]	Other Primary
	Thousand Barrels per Day						Million Barrels		
1973 Average	13	–	-11	12,431	2	–	242	–	242
1974 Average	13	–	62	12,133	3	–	265	–	265
1975 Average	13	–	17	12,442	6	–	271	–	271
1976 Average	[e]14	–	39	13,416	8	–	285	–	285
1977 Average	16	20	150	14,602	50	–	348	7	340
1978 Average	16	163	-84	14,739	158	–	376	67	309
1979 Average	16	67	81	14,648	235	–	430	91	339
1980 Average	[e]14	45	52	13,481	287	–	[f]466	108	[f]358
1981 Average	5	336	[f]-46	12,470	228	–	594	230	363
1982 Average	3	174	-38	11,774	236	–	[g]644	294	[g]350
1983 Average	2	234	[g]-20	11,685	164	66	723	379	344
1984 Average	2	195	4	12,044	181	64	796	451	345
1985 Average	1	117	-67	12,002	204	60	814	493	321
1986 Average	(s)	50	28	12,716	154	49	843	512	331
1987 Average	(s)	80	49	12,854	151	34	890	541	349
1988 Average	(s)	52	-51	13,246	155	40	890	560	330
1989 Average	(s)	56	30	13,401	142	28	921	580	341
1990 Average	(s)	16	-51	13,409	109	24	908	586	323
1991 Average	(s)	-47	5	13,301	116	18	893	569	325
1992 Average	(s)	17	-18	13,411	89	13	893	575	318
1993 January	(s)	19	276	12,938	129	10	902	575	327
February	(s)	18	201	12,865	166	10	908	576	332
March	0	58	154	13,200	139	11	915	578	337
April	(s)	136	387	13,538	73	9	930	582	349
May	0	13	134	13,829	112	10	935	582	353
June	0	21	-20	14,129	150	8	935	583	352
July	0	19	-13	14,136	62	9	935	583	352
August	0	24	-529	13,844	55	8	920	584	335
September	(s)	52	-491	13,841	107	8	906	586	321
October	0	19	309	13,729	62	10	917	586	330
November	0	18	233	13,686	67	10	924	587	337
December	0	9	-62	13,571	63	16	922	587	335
Average	**(s)**	**34**	**47**	**13,613**	**98**	**10**	**922**	**587**	**335**
1994 January	0	4	87	13,286	110	10	925	587	338
February	0	(s)	-97	13,130	116	12	923	587	335
March	(s)	99	226	12,985	40	10	933	590	342
April	(s)	31	-98	13,809	120	9	931	591	339
May	0	(s)	-253	14,272	118	9	923	591	332
June	(s)	16	-120	14,351	107	7	920	592	328
July	0	(s)	148	14,344	84	8	924	592	333
August	0	(s)	-129	14,491	72	7	920	592	329
September	0	0	227	14,234	61	9	927	592	335
October	0	0	255	13,529	138	8	935	592	343
November	0	(s)	102	13,968	102	7	938	592	346
December	0	(s)	-292	13,951	118	10	929	592	337
Average	**(s)**	**13**	**5**	**13,866**	**99**	**9**	**929**	**592**	**337**
1995 January	0	(s)	-279	13,610	113	7	920	592	328
February	0	(s)	-48	13,367	95	8	919	592	327
March	(s)	(s)	344	13,478	68	7	929	592	338
April	0	(s)	-101	13,816	155	7	926	592	335
May	0	(s)	[R]-110	[R]14,299	[R]73	[R]7	[R]923	592	[R]331
June	[E]0	[E] (s)	[E]-176	[E]14,666	[E]91	[E]7	[E]912	[E]592	[E]320
6-Month Average	[E] **(s)**	[E] **(s)**	[E] **-61**	[E] **13,877**	[E] **99**	[E] **7**	[E] **912**	[E] **592**	[E] **320**
1994 6-Month Average	**(s)**	**25**	**-41**	**13,642**	**101**	**10**	**920**	**592**	**328**
1993 6-Month Average	**(s)**	**44**	**189**	**13,421**	**128**	**10**	**935**	**583**	**352**

[a] Stocks are totals as of end of period.
[b] A negative number indicates a decrease in stocks and a positive number indicates an increase.
[c] Strategic Petroleum Reserve.
[d] Beginning in January 1983, crude oil used directly as fuel is shown as product supplied.
[e] See Note 6 at end of section.
[f] Stocks of Alaskan crude oil in transit are included from January 1981 forward. See Note 5 at end of section.
[g] See Note 4 at end of section.

R=Revised data. – =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:** Energy Information Administration (EIA), *Petroleum Supply Monthly*, February 1993, Table S2. • **1981 forward:** EIA, *Petroleum Supply Monthly*, July 1995, Table S2.

Table 3.3a Petroleum Imports: Algeria, Iraq, Kuwait, and Libya

(Thousand Barrels per Day)

	Arab OPEC[a]							
	Algeria		Iraq		Kuwait[b]		Libya	
	Total	Crude Oil	Total	Crude Oil	Total	Crude Oil	Total	Crude Oil
1973 Average	**136**	**120**	**4**	**4**	**47**	**42**	**164**	**133**
1974 Average	**190**	**180**	**0**	**0**	**5**	**5**	**4**	**4**
1975 Average	**282**	**264**	**2**	**2**	**16**	**4**	**232**	**223**
1976 Average	**432**	**408**	**26**	**26**	**5**	**1**	**453**	**444**
1977 Average	**559**	**544**	**74**	**74**	**48**	**42**	**723**	**704**
1978 Average	**649**	**634**	**62**	**62**	**6**	**5**	**654**	**638**
1979 Average	**636**	**608**	**88**	**88**	**8**	**5**	**658**	**642**
1980 Average	**488**	**456**	**28**	**28**	**27**	**27**	**554**	**548**
1981 Average	**311**	**261**	**(s)**	**0**	**0**	**0**	**319**	**317**
1982 Average	**170**	**90**	**3**	**3**	**5**	**2**	**26**	**23**
1983 Average	**240**	**176**	**10**	**10**	**14**	**7**	**0**	**0**
1984 Average	**323**	**194**	**12**	**12**	**36**	**24**	**1**	**0**
1985 Average	**187**	**84**	**46**	**46**	**21**	**4**	**4**	**0**
1986 Average	**271**	**78**	**81**	**81**	**68**	**28**	**0**	**0**
1987 Average	**295**	**115**	**83**	**82**	**84**	**70**	**0**	**0**
1988 Average	**300**	**58**	**345**	**343**	**92**	**80**	**0**	**0**
1989 Average	**269**	**60**	**449**	**441**	**157**	**155**	**0**	**0**
1990 Average	**280**	**63**	**518**	**514**	**86**	**79**	**0**	**0**
1991 Average	**253**	**44**	**0**	**0**	**6**	**6**	**0**	**0**
1992 Average	**196**	**24**	**0**	**0**	**51**	**39**	**0**	**0**
1993 January	153	28	0	0	144	129	0	0
February	256	0	0	0	251	229	0	0
March	185	7	0	0	316	300	0	0
April	258	26	0	0	279	279	0	0
May	228	3	0	0	222	222	0	0
June	169	32	0	0	235	235	0	0
July	246	6	0	0	368	362	0	0
August	241	28	0	0	467	451	0	0
September	192	0	0	0	445	431	0	0
October	317	80	0	0	530	526	0	0
November	222	52	0	0	486	470	0	0
December	169	25	0	0	484	484	0	0
Average	**220**	**24**	**0**	**0**	**353**	**344**	**0**	**0**
1994 January	224	8	0	0	309	309	0	0
February	226	20	0	0	423	423	0	0
March	278	0	0	0	476	476	0	0
April	245	30	0	0	261	238	0	0
May	261	0	0	0	362	362	0	0
June	178	2	0	0	255	255	0	0
July	301	38	0	0	345	345	0	0
August	282	39	0	0	306	306	0	0
September	237	20	0	0	361	361	0	0
October	217	38	0	0	165	148	0	0
November	203	20	0	0	249	240	0	0
December	259	39	0	0	240	227	0	0
Average	**243**	**21**	**0**	**0**	**312**	**307**	**0**	**0**
1995 January	168	0	0	0	130	120	0	0
February	358	64	0	0	346	324	0	0
March	196	19	0	0	252	252	0	0
April	251	31	0	0	171	164	0	0
May	163	36	0	0	208	204	0	0
5-Month Average	**225**	**30**	**0**	**0**	**219**	**211**	**0**	**0**
1994 5-Month Average	**247**	**11**	**0**	**0**	**366**	**361**	**0**	**0**
1993 5-Month Average	**215**	**13**	**0**	**0**	**242**	**231**	**0**	**0**

[a] Excludes petroleum imported into the United States indirectly from members of the Organization of Petroleum Exporting Countries (OPEC), primarily from Caribbean and West European areas, as petroleum products that were refined from crude oil produced by OPEC.

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

(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.

Sources: • **1973-1980:** Energy Information Administration (EIA), *Petroleum Supply Monthly*, February 1993, Table S3. • **1981 forward:** EIA, *Petroleum Supply Monthly*, July 1995, Table S3.

Table 3.3b Petroleum Imports: Qatar, Saudi Arabia, U.A.E., and Total Arab OPEC

(Thousand Barrels per Day)

	Arab OPEC[a]						Total Arab OPEC[a]	
	Qatar		Saudi Arabia[b]		United Arab Emirates			
	Total	Crude Oil	Total	Crude Oil	Total	Crude Oil	Total	Crude Oil
1973 Average	7	7	486	462	71	71	915	838
1974 Average	17	17	461	438	74	69	752	713
1975 Average	18	18	715	701	117	117	1,383	1,330
1976 Average	24	24	1,230	1,222	254	254	2,424	2,378
1977 Average	67	67	1,380	1,373	335	333	3,185	3,136
1978 Average	64	64	1,144	1,142	385	385	2,963	2,930
1979 Average	31	31	1,356	1,347	281	281	3,058	3,002
1980 Average	22	22	1,261	1,250	172	172	2,551	2,503
1981 Average	7	7	1,129	1,112	81	77	1,848	1,774
1982 Average	7	7	552	530	92	81	854	736
1983 Average	(s)	0	337	321	30	18	632	533
1984 Average	5	4	325	309	117	90	819	634
1985 Average	(s)	0	168	132	45	35	472	300
1986 Average	13	12	685	618	44	38	1,162	854
1987 Average	0	0	751	642	61	56	1,274	965
1988 Average	0	0	1,073	911	29	23	1,839	1,415
1989 Average	2	2	1,224	1,116	28	21	2,130	1,794
1990 Average	4	4	1,339	1,195	17	9	2,244	1,864
1991 Average	0	0	1,802	1,703	3	2	2,064	1,754
1992 Average	1	0	1,720	1,597	6	0	1,974	1,660
1993 January	0	0	1,688	1,571	0	0	1,984	1,728
February	0	0	1,626	1,480	0	0	2,133	1,709
March	6	0	1,479	1,349	0	0	1,987	1,655
April	0	0	1,644	1,515	17	17	2,198	1,837
May	0	0	1,524	1,361	59	59	2,034	1,646
June	0	0	1,540	1,413	66	66	2,010	1,746
July	0	0	1,283	1,171	19	0	1,917	1,538
August	0	0	1,151	1,036	0	0	1,859	1,515
September	0	0	1,329	1,181	0	0	1,966	1,612
October	0	0	1,115	969	0	0	1,961	1,574
November	0	0	1,281	1,152	1	0	1,989	1,673
December	0	0	1,330	1,205	0	0	1,983	1,713
Average	1	0	1,414	1,282	14	12	2,000	1,661
1994 January	0	0	1,320	1,175	0	0	1,854	1,492
February	0	0	1,071	1,023	0	0	1,719	1,467
March	0	0	1,132	1,055	0	0	1,887	1,531
April	0	0	1,586	1,428	4	0	2,097	1,696
May	0	0	1,438	1,394	0	0	2,062	1,757
June	0	0	1,395	1,277	0	0	1,829	1,535
July	0	0	1,414	1,310	53	53	2,113	1,745
August	0	0	1,363	1,271	0	0	1,950	1,615
September	0	0	1,486	1,364	40	40	2,125	1,786
October	0	0	1,601	1,500	38	23	2,020	1,709
November	0	0	1,477	1,357	0	0	1,929	1,617
December	0	0	1,526	1,388	15	15	2,040	1,669
Average	0	0	1,402	1,297	13	11	1,970	1,636
1995 January	0	0	1,309	1,251	20	20	1,628	1,391
February	0	0	1,181	1,134	13	13	1,897	1,535
March	0	0	1,535	1,410	0	0	1,983	1,681
April	0	0	1,375	1,321	0	0	1,798	1,516
May	0	0	1,281	1,237	0	0	1,653	1,477
5-Month Average	0	0	1,339	1,273	6	6	1,790	1,520
1994 5-Month Average	0	0	1,312	1,218	1	0	1,927	1,590
1993 5-Month Average	1	0	1,591	1,454	16	16	2,065	1,714

[a] Excludes petroleum imported into the United States indirectly from members of the Organization of Petroleum Exporting Countries (OPEC), primarily from Caribbean and West European areas, as petroleum products that were refined from crude oil produced by OPEC.

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

(s)=Less than 500 barrels per day.

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

Sources: • **1973-1980:** Energy Information Administration (EIA), *Petroleum Supply Monthly*, February 1993, Table S3. • **1981 forward:** EIA, *Petroleum Supply Monthly*, July 1995, Table S3.

Table 3.3c Petroleum Imports: Ecuador, Gabon, Indonesia, and Iran

(Thousand Barrels per Day)

	Non-Arab OPEC[a]							
	Ecuador[b]		Gabon		Indonesia		Iran	
	Total	Crude Oil	Total	Crude Oil	Total	Crude Oil	Total	Crude Oil
1973 Average	48	47	0	0	213	200	223	216
1974 Average	42	42	23	23	300	284	469	463
1975 Average	57	57	27	27	390	379	280	278
1976 Average	51	51	28	26	539	537	298	298
1977 Average	57	55	42	35	541	507	535	530
1978 Average	54	38	41	38	573	533	555	554
1979 Average	42	30	42	42	420	380	304	297
1980 Average	27	17	26	25	348	314	9	8
1981 Average	48	38	35	35	366	318	0	0
1982 Average	42	32	40	40	248	226	35	35
1983 Average	61	56	59	59	338	315	48	48
1984 Average	55	47	58	57	343	304	10	10
1985 Average	67	56	52	51	314	292	27	27
1986 Average	77	64	26	25	318	297	19	19
1987 Average	29	23	35	35	285	262	98	98
1988 Average	47	33	16	15	205	186	[c] (s)	[c] (s)
1989 Average	89	80	50	49	183	158	0	0
1990 Average	49	38	64	64	114	98	0	0
1991 Average	63	53	84	84	111	102	32	32
1992 Average	65	62	124	123	78	70	0	0
1993 January	(b)	(b)	90	89	37	37	0	0
February	(b)	(b)	88	88	52	51	0	0
March	(b)	(b)	126	123	67	64	0	0
April	(b)	(b)	127	127	76	76	0	0
May	(b)	(b)	169	169	82	82	0	0
June	(b)	(b)	107	107	97	67	0	0
July	(b)	(b)	168	166	55	55	0	0
August	(b)	(b)	152	152	95	80	0	0
September	(b)	(b)	211	211	51	40	0	0
October	(b)	(b)	242	242	131	82	0	0
November	(b)	(b)	143	136	74	34	0	0
December	(b)	(b)	191	191	156	114	0	0
Average	(b)	(b)	152	151	81	65	0	0
1994 January	(b)	(b)	144	144	140	81	0	0
February	(b)	(b)	212	208	103	59	0	0
March	(b)	(b)	91	91	112	50	0	0
April	(b)	(b)	288	288	88	88	0	0
May	(b)	(b)	187	187	94	76	0	0
June	(b)	(b)	223	223	155	155	0	0
July	(b)	(b)	216	216	178	178	0	0
August	(b)	(b)	142	142	119	112	0	0
September	(b)	(b)	194	194	61	61	0	0
October	(b)	(b)	235	235	96	89	0	0
November	(b)	(b)	254	254	71	56	0	0
December	(b)	(b)	154	154	113	95	0	0
Average	(b)	(b)	194	194	111	92	0	0
1995 January	(b)	(b)	224	224	38	38	0	0
February	(b)	(b)	186	186	129	87	0	0
March	(b)	(b)	159	159	51	29	0	0
April	(b)	(b)	163	163	95	87	0	0
May	(b)	(b)	206	206	65	36	0	0
5-Month Average	(b)	(b)	188	188	74	55	0	0
1994 5-Month Average	(b)	(b)	183	182	108	71	0	0
1993 5-Month Average	(b)	(b)	121	120	63	62	0	0

[a] Excludes petroleum imported into the United States indirectly from members of the Organization of Petroleum Exporting Countries (OPEC), primarily from Caribbean and West European areas, as petroleum products that were refined from crude oil produced by OPEC.

[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] 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 October 29, 1987.

(s)=Less than 500 barrels per day.

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

Sources: • **1973-1980:** Energy Information Administration (EIA), *Petroleum Supply Monthly*, February 1993, Table S3. • **1981 forward:** EIA, *Petroleum Supply Monthly*, July 1995, Table S3.

Table 3.3d Petroleum Imports: Nigeria, Venezuela, Total Non-Arab OPEC, and Total OPEC

(Thousand Barrels per Day)

	Non-Arab OPEC[a]				Total Non-Arab OPEC[a,b]		Total OPEC[a,b]	
	Nigeria		Venezuela					
	Total	Crude Oil	Total	Crude Oil	Total	Crude Oil	Total	Crude Oil
1973 Average	459	448	1,135	344	2,078	1,257	2,993	2,095
1974 Average	713	697	979	319	2,527	1,827	3,280	2,540
1975 Average	762	746	702	395	2,219	1,882	3,601	3,211
1976 Average	1,025	1,014	700	241	2,642	2,167	5,066	4,545
1977 Average	1,143	1,130	690	250	3,008	2,507	6,193	5,643
1978 Average	919	910	646	181	2,788	2,254	5,751	5,184
1979 Average	1,080	1,069	690	293	2,579	2,110	5,637	5,112
1980 Average	857	841	481	156	1,749	1,361	4,300	3,864
1981 Average	620	611	406	147	1,476	1,149	3,323	2,922
1982 Average	514	510	412	155	1,291	998	2,146	1,734
1983 Average	302	301	422	164	1,231	944	1,862	1,477
1984 Average	216	207	548	253	1,230	878	2,049	1,512
1985 Average	293	280	605	306	1,358	1,012	1,830	1,312
1986 Average	440	437	793	416	1,674	1,259	2,837	2,113
1987 Average	535	529	804	488	1,787	1,435	3,060	2,400
1988 Average	618	607	794	439	1,681	1,281	3,520	2,696
1989 Average	815	800	873	495	2,010	1,582	4,140	3,376
1990 Average	800	784	1,025	666	2,052	1,650	4,296	3,514
1991 Average	703	683	1,035	668	2,028	1,622	4,092	3,377
1992 Average	681	665	1,170	826	2,117	1,746	4,092	3,406
1993 January	729	729	1,397	1,038	[b]2,254	[b]1,892	[b]4,238	[b]3,620
February	927	913	1,296	925	2,363	1,976	4,496	3,685
March	928	892	1,173	835	2,295	1,914	4,282	3,570
April	892	871	1,314	1,023	2,409	2,097	4,608	3,934
May	760	741	1,264	992	2,276	1,985	4,309	3,630
June	848	827	1,292	999	2,343	2,000	4,353	3,746
July	893	888	1,384	1,068	2,500	2,177	4,417	3,715
August	562	549	1,383	1,135	2,192	1,915	4,051	3,431
September	514	496	1,273	1,050	2,048	1,796	4,014	3,408
October	603	593	1,276	993	2,251	1,910	4,213	3,484
November	636	612	1,322	1,108	2,175	1,891	4,165	3,563
December	598	569	1,230	952	2,176	1,827	4,159	3,540
Average	**740**	**722**	**1,300**	**1,010**	**2,273**	**1,948**	**4,273**	**3,609**
1994 January	310	274	1,211	901	1,806	1,400	3,660	2,892
February	576	557	1,224	946	2,115	1,770	3,834	3,237
March	441	402	1,261	932	1,903	1,474	3,790	3,006
April	631	621	1,303	1,035	2,311	2,033	4,408	3,728
May	732	730	1,334	1,022	2,347	2,014	4,409	3,771
June	842	837	1,469	1,088	2,689	2,303	4,518	3,838
July	703	694	1,296	1,029	2,393	2,116	4,506	3,861
August	1,037	1,010	1,255	982	2,552	2,245	4,503	3,861
September	578	578	1,428	1,106	2,261	1,939	4,386	3,725
October	569	559	1,385	1,101	2,284	1,984	4,304	3,693
November	485	478	1,432	1,084	2,242	1,872	4,171	3,488
December	739	739	1,405	1,183	2,411	2,171	4,451	3,840
Average	**637**	**624**	**1,334**	**1,034**	**2,277**	**1,944**	**4,247**	**3,580**
1995 January	583	575	1,355	1,059	2,201	1,897	3,828	3,288
February	463	463	1,439	1,083	2,217	1,819	4,114	3,354
March	687	676	1,499	1,209	2,396	2,073	4,379	3,754
April	467	458	1,374	1,100	2,099	1,808	3,897	3,324
May	603	592	1,498	1,193	2,372	2,028	4,025	3,505
5-Month Average	**563**	**555**	**1,433**	**1,130**	**2,259**	**1,928**	**4,048**	**3,448**
1994 5-Month Average	**537**	**515**	**1,267**	**967**	**2,095**	**1,736**	**4,021**	**3,326**
1993 5-Month Average	**845**	**827**	**1,289**	**963**	**2,318**	**1,972**	**4,383**	**3,686**

[a] Excludes petroleum imported into the United States indirectly from members of the Organization of Petroleum Exporting Countries (OPEC), primarily from Caribbean and West European areas, as petroleum products that were refined from crude oil produced by OPEC.

[b] As of January 1993, excludes petroleum imported from Ecuador, which withdrew from OPEC on December 31, 1992.

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

Sources: • **1973-1980:** Energy Information Administration (EIA), *Petroleum Supply Monthly*, February 1993, Table S3. • **1981 forward:** EIA, *Petroleum Supply Monthly*, July 1995, Table S3.

Table 3.3e Petroleum Imports: Angola, Australia, Bahama Islands, Brazil, Canada, and China

(Thousand Barrels per Day)

	Non-OPEC[a]											
	Angola		Australia		Bahama Islands		Brazil		Canada		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	5	0	74	0	23	14	447	164	18	0
1982 Average	44	42	5	(s)	65	0	47	19	482	214	40	8
1983 Average	78	71	4	0	125	0	41	2	547	274	34	6
1984 Average	90	85	38	25	88	0	60	(s)	630	341	46	15
1985 Average	110	104	37	21	40	0	61	0	770	468	59	36
1986 Average	112	102	41	30	37	0	50	0	807	570	90	68
1987 Average	192	180	58	49	37	0	84	0	848	608	82	63
1988 Average	212	203	64	59	32	0	98	0	999	681	88	82
1989 Average	284	279	36	31	34	0	82	0	931	630	80	76
1990 Average	237	236	53	47	37	0	49	0	934	643	80	77
1991 Average	254	254	26	21	35	0	22	0	1,033	743	91	87
1992 Average	336	336	19	17	36	0	20	0	1,069	797	90	84
1993 January	354	354	(s)	0	18	0	3	0	1,052	778	60	60
February	348	348	0	0	26	0	22	0	1,095	782	44	44
March	408	408	0	0	38	0	27	0	1,033	770	79	73
April	344	344	0	0	16	0	56	0	1,052	783	0	0
May	299	299	13	13	8	0	41	0	1,128	874	40	40
June	209	209	34	34	7	0	19	0	1,117	911	48	46
July	402	402	40	40	31	0	48	0	1,264	991	24	24
August	258	258	33	27	41	0	32	0	1,247	966	38	38
September	282	282	0	0	37	0	59	0	1,319	1,023	91	89
October	440	440	53	47	53	0	15	0	1,370	1,030	61	61
November	307	307	0	0	29	0	61	0	1,236	917	68	68
December	379	379	53	53	30	0	10	0	1,255	964	61	61
Average	**336**	**336**	**19**	**18**	**28**	**0**	**33**	**0**	**1,181**	**900**	**51**	**50**
1994 January	338	338	12	0	28	0	11	0	1,242	905	81	78
February	295	282	0	0	79	0	12	0	1,374	994	44	44
March	291	265	11	11	52	0	10	0	1,326	987	112	104
April	284	284	0	0	39	0	42	0	1,194	930	70	67
May	354	331	32	32	58	0	96	0	1,160	905	80	80
June	278	278	11	11	14	0	62	0	1,206	973	37	36
July	304	299	44	44	18	0	53	0	1,237	994	92	92
August	358	347	13	13	20	0	38	0	1,357	1,059	64	64
September	455	448	35	35	17	0	21	0	1,300	1,031	63	63
October	286	286	22	22	15	0	18	0	1,238	982	18	18
November	328	328	22	22	8	0	0	0	1,251	988	79	79
December	402	380	0	0	6	0	8	8	1,388	1,054	40	40
Average	**331**	**322**	**17**	**16**	**29**	**0**	**31**	**1**	**1,272**	**983**	**65**	**64**
1995 January	273	262	21	21	6	0	0	0	1,349	1,009	64	62
February	348	335	22	22	8	0	0	0	1,310	965	21	21
March	427	416	0	0	7	0	0	0	1,206	891	54	54
April	412	402	33	33	0	0	0	0	1,240	999	65	65
May	419	407	21	21	0	0	0	0	1,405	1,167	35	35
5-Month Average	**376**	**365**	**19**	**19**	**4**	**0**	**0**	**0**	**1,302**	**1,007**	**48**	**48**
1994 5-Month Average	**313**	**301**	**11**	**9**	**51**	**0**	**34**	**0**	**1,257**	**943**	**78**	**75**
1993 5-Month Average	**351**	**351**	**3**	**3**	**21**	**0**	**30**	**0**	**1,072**	**798**	**45**	**44**

[a] Includes petroleum imported into the United States indirectly from members of the Organization of Petroleum Exporting Countries (OPEC), primarily from Caribbean and West European areas, as petroleum products that were refined from crude oil produced by OPEC.

(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.

Sources: • **1973-1980:** Energy Information Administration (EIA), *Petroleum Supply Monthly*, February 1993, Table S3. • **1981 forward:** EIA, *Petroleum Supply Monthly*, July 1995, Table S3.

Table 3.3f Petroleum Imports: Colombia, Ecuador, Italy, Malaysia, Mexico, and Netherlands

(Thousand Barrels per Day)

	Non-OPEC[a]											
	Colombia		Ecuador[b]		Italy		Malaysia		Mexico		Netherlands	
	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	53	0
1974 Average	5	0	–	–	74	0	12	1	8	2	43	0
1975 Average	9	0	–	–	27	0	8	5	71	70	19	4
1976 Average	21	6	–	–	39	0	18	16	87	87	8	0
1977 Average	17	0	–	–	51	0	66	55	179	177	31	4
1978 Average	20	0	–	–	38	0	42	37	318	316	5	2
1979 Average	18	0	–	–	30	0	66	52	439	437	23	7
1980 Average	4	0	–	–	4	0	70	61	533	507	2	(s)
1981 Average	1	0	–	–	11	0	36	33	522	469	30	(s)
1982 Average	5	0	–	–	18	(s)	20	18	685	645	35	(s)
1983 Average	10	0	–	–	18	(s)	4	3	826	766	65	3
1984 Average	8	0	–	–	45	(s)	1	0	748	659	65	3
1985 Average	23	0	–	–	60	(s)	3	1	816	715	58	0
1986 Average	87	57	–	–	76	0	12	11	699	621	54	0
1987 Average	148	115	–	–	54	1	13	12	655	602	60	0
1988 Average	134	106	–	–	65	5	19	19	747	674	61	0
1989 Average	172	136	–	–	34	3	39	39	767	716	49	0
1990 Average	182	140	–	–	58	2	41	40	755	689	55	0
1991 Average	163	123	–	–	47	3	24	24	807	759	29	0
1992 Average	126	102	–	–	55	0	10	10	830	787	26	0
1993 January	188	167	76	70	56	0	0	0	858	820	11	0
February	148	137	14	14	34	0	0	0	807	748	18	0
March	161	129	59	59	43	0	11	10	844	798	10	0
April	178	165	74	62	14	0	8	8	832	796	0	0
May	147	90	56	56	26	0	21	10	917	846	10	0
June	176	143	75	75	25	0	0	0	987	959	10	0
July	204	184	96	96	25	0	11	11	943	878	21	0
August	131	101	121	121	50	0	14	14	862	809	17	0
September	224	170	49	49	32	0	28	28	929	867	22	0
October	192	182	146	135	40	0	14	10	1,013	951	0	0
November	164	143	115	106	30	0	0	0	1,116	1,041	(s)	0
December	134	85	84	84	0	0	28	28	909	837	6	0
Average	171	141	81	78	31	0	11	10	919	863	10	0
1994 January	182	149	128	128	8	0	11	11	971	945	37	0
February	184	131	96	96	35	0	19	15	967	926	43	0
March	188	167	37	37	16	0	13	0	1,067	1,014	43	0
April	241	197	52	52	13	0	3	0	987	963	24	0
May	105	75	85	85	19	0	0	0	975	934	79	0
June	112	101	72	72	12	0	10	10	1,040	974	38	0
July	127	127	144	144	35	0	36	36	926	889	35	0
August	181	181	115	115	52	0	13	7	894	852	33	0
September	144	144	63	63	34	0	9	0	1,043	963	34	0
October	215	215	110	110	21	0	0	0	940	881	18	0
November	134	134	97	97	17	0	0	0	1,037	981	1	0
December	124	124	96	96	9	0	6	0	963	944	4	0
Average	161	146	91	91	22	0	10	6	984	939	32	0
1995 January	191	181	130	130	4	0	21	21	942	909	0	0
February	158	148	107	107	1	0	0	0	919	888	17	0
March	257	238	104	104	8	0	0	0	1,006	961	29	0
April	193	193	146	146	13	0	7	0	993	963	3	0
May	171	153	128	128	0	0	0	0	1,118	1,063	24	0
5-Month Average	195	183	123	123	5	0	6	4	997	958	15	0
1994 5-Month Average	180	144	79	79	18	0	9	5	994	957	45	0
1993 5-Month Average	165	137	56	53	35	0	8	6	853	803	10	0

[a] Includes petroleum imported into the United States indirectly from members of the Organization of Petroleum Exporting Countries (OPEC), primarily from Caribbean and West European areas, as petroleum products that were refined from crude oil produced by OPEC.

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

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

Notes: • Beginning in October 1977, Strategic Petroleum Reserve imports are included. • 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*, July 1995, Table S3.

Table 3.3g Petroleum Imports: Netherlands Antilles, Norway, Puerto Rico, Russia, Spain, and Trinidad and Tobago

(Thousand Barrels per Day)

	Non-OPEC[a]											
	Netherlands Antilles		Norway		Puerto Rico		Russia[b]		Spain		Trinidad and Tobago	
	Total	Crude Oil	Total	Crude Oil	Total	Crude Oil	Total	Crude Oil	Total	Crude Oil	Total	Crude Oil
1973 Average	**585**	**0**	**1**	**0**	**99**	**0**	**26**	**0**	**26**	**0**	**255**	**60**
1974 Average	**511**	**0**	**1**	**1**	**90**	**0**	**20**	**0**	**12**	**0**	**251**	**63**
1975 Average	**332**	**0**	**17**	**12**	**90**	**0**	**14**	**0**	**1**	**0**	**242**	**115**
1976 Average	**275**	**0**	**36**	**35**	**88**	**0**	**11**	**2**	**1**	**0**	**274**	**104**
1977 Average	**211**	**0**	**50**	**48**	**105**	**0**	**12**	**2**	**10**	**0**	**289**	**134**
1978 Average	**229**	**0**	**104**	**104**	**94**	**0**	**8**	**1**	**3**	**0**	**253**	**142**
1979 Average	**231**	**0**	**75**	**75**	**92**	**0**	**1**	**0**	**4**	**0**	**190**	**123**
1980 Average	**225**	**0**	**144**	**144**	**88**	**0**	**1**	**0**	**1**	**0**	**176**	**115**
1981 Average	**197**	**0**	**119**	**114**	**62**	**0**	**5**	**(s)**	**1**	**(s)**	**133**	**102**
1982 Average	**175**	**0**	**102**	**102**	**50**	**0**	**1**	**0**	**3**	**(s)**	**112**	**92**
1983 Average	**189**	**0**	**66**	**65**	**40**	**0**	**1**	**(s)**	**2**	**(s)**	**96**	**83**
1984 Average	**188**	**0**	**114**	**112**	**42**	**0**	**13**	**(s)**	**11**	**0**	**94**	**87**
1985 Average	**40**	**0**	**32**	**31**	**28**	**0**	**8**	**(s)**	**29**	**1**	**113**	**98**
1986 Average	**25**	**0**	**60**	**53**	**21**	**0**	**18**	**(s)**	**53**	**0**	**125**	**93**
1987 Average	**29**	**0**	**80**	**70**	**21**	**0**	**11**	**0**	**55**	**0**	**106**	**75**
1988 Average	**36**	**0**	**67**	**62**	**22**	**0**	**29**	**0**	**68**	**0**	**97**	**71**
1989 Average	**42**	**0**	**138**	**127**	**32**	**0**	**48**	**0**	**67**	**0**	**94**	**73**
1990 Average	**31**	**0**	**102**	**96**	**32**	**0**	**45**	**1**	**47**	**0**	**96**	**76**
1991 Average	**81**	**0**	**82**	**74**	**27**	**0**	**29**	**1**	**33**	**0**	**88**	**72**
1992 Average	**65**	**0**	**127**	**119**	**26**	**0**	**18**	**5**	**32**	**0**	**95**	**70**
1993 January	73	0	70	70	37	0	0	0	44	0	59	48
February	80	0	62	61	21	0	0	0	19	0	72	58
March	61	0	122	115	26	0	0	0	21	0	92	71
April	97	0	170	170	18	0	32	32	61	0	78	55
May	81	0	222	222	38	0	32	32	42	0	68	51
June	55	0	160	160	29	0	77	51	20	0	77	55
July	52	0	215	215	49	0	157	134	41	0	82	53
August	56	0	180	161	30	0	26	0	37	0	50	37
September	101	0	113	113	28	0	57	29	54	0	70	55
October	122	0	115	93	30	0	176	123	33	0	69	54
November	90	0	162	155	23	0	56	32	30	0	66	55
December	118	0	108	101	14	0	38	0	42	0	103	71
Average	**82**	**0**	**142**	**137**	**29**	**0**	**55**	**36**	**37**	**0**	**74**	**55**
1994 January	189	0	101	96	26	0	11	0	26	0	90	60
February	119	0	199	166	19	0	14	0	31	0	92	80
March	112	0	108	108	21	0	34	34	37	0	68	54
April	73	0	205	184	17	0	0	0	45	0	76	56
May	70	0	159	159	21	0	32	32	53	0	68	58
June	69	0	176	158	42	0	133	133	50	0	106	79
July	121	0	276	257	43	0	82	82	25	0	69	55
August	114	0	206	198	23	0	21	15	38	0	85	55
September	95	0	347	336	17	0	6	0	56	0	64	56
October	77	0	310	300	20	0	30	30	35	0	79	65
November	96	0	214	195	6	0	0	0	22	0	59	55
December	43	0	125	123	10	0	0	0	26	0	74	74
Average	**98**	**0**	**202**	**190**	**22**	**0**	**30**	**27**	**37**	**0**	**77**	**62**
1995 January	75	0	200	170	6	0	0	0	7	0	91	91
February	58	0	194	164	7	0	0	0	9	0	60	60
March	68	0	241	209	13	0	0	0	16	0	70	70
April	0	0	315	291	9	0	0	0	16	7	55	55
May	86	0	292	292	19	0	12	0	25	0	61	53
5-Month Average	**58**	**0**	**249**	**226**	**11**	**0**	**2**	**0**	**15**	**1**	**68**	**66**
1994 5-Month Average	**113**	**0**	**153**	**142**	**21**	**0**	**18**	**14**	**39**	**0**	**78**	**61**
1993 5-Month Average	**78**	**0**	**130**	**129**	**28**	**0**	**13**	**13**	**38**	**0**	**74**	**57**

[a] Includes petroleum imported into the United States indirectly from members of the Organization of Petroleum Exporting Countries (OPEC), primarily from Caribbean and West European areas, as petroleum products that were refined from crude oil produced by OPEC.

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

(s)=Less than 500 barrels per day.

Notes: • Beginning in October 1977, Strategic Petroleum Reserve imports are included. • 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*, July 1995, Table S3.

Table 3.3h Petroleum Imports: United Kingdom, Virgin Islands, Other Non-OPEC, Total Non-OPEC, and Total Imports

(Thousand Barrels per Day)

	Non-OPEC[a]						Total Non-OPEC[a,b]		Total Imports	
	United Kingdom		Virgin Islands		Other Non-OPEC					
	Total	Crude Oil	Total	Crude Oil	Total	Crude Oil	Total	Crude Oil	Total	Crude Oil
1973 Average	15	0	329	0	153	36	3,263	1,149	6,256	3,244
1974 Average	8	0	391	0	122	30	2,832	937	6,112	3,477
1975 Average	14	(s)	406	0	120	14	2,454	893	6,056	4,105
1976 Average	31	13	422	0	203	101	2,247	742	7,313	5,287
1977 Average	126	97	466	0	287	157	2,614	971	8,807	6,615
1978 Average	180	169	428	0	239	146	2,612	1,172	8,363	6,356
1979 Average	202	197	431	0	269	192	2,819	1,407	8,456	6,519
1980 Average	176	173	388	0	219	162	2,609	1,399	6,909	5,263
1981 Average	375	369	327	0	236	163	2,672	1,474	5,996	4,396
1982 Average	456	441	316	0	306	174	2,968	1,754	5,113	3,488
1983 Average	382	365	282	0	378	215	3,189	1,853	5,051	3,329
1984 Average	402	378	294	0	411	210	3,388	1,914	5,437	3,426
1985 Average	310	278	247	0	394	137	3,237	1,888	5,067	3,201
1986 Average	350	317	244	0	426	144	3,387	2,065	6,224	4,178
1987 Average	352	304	272	0	459	196	3,617	2,274	6,678	4,674
1988 Average	315	254	242	0	487	196	3,882	2,411	7,402	5,107
1989 Average	215	160	321	0	457	197	3,921	2,467	8,061	5,843
1990 Average	189	155	282	0	417	180	3,721	2,381	8,018	5,894
1991 Average	138	106	243	0	282	137	3,535	2,405	7,627	5,782
1992 Average	230	200	249	0	335	149	3,796	2,676	7,888	6,083
1993 January	229	201	252	0	325	104	[b]3,766	[b]2,672	8,004	6,292
February	173	127	244	0	223	151	3,452	2,471	7,948	6,156
March	332	298	244	0	393	186	4,003	2,918	8,285	6,488
April	413	337	245	0	472	243	4,161	2,995	8,768	6,928
May	522	495	279	0	363	152	4,353	3,179	8,663	6,809
June	458	408	290	0	581	405	4,452	3,455	8,805	7,201
July	292	247	202	0	600	299	4,801	3,574	9,219	7,289
August	343	323	256	0	556	356	4,378	3,210	8,429	6,641
September	286	217	184	0	552	251	4,517	3,173	8,531	6,581
October	353	338	236	0	453	233	4,984	3,698	9,197	7,181
November	351	340	330	0	503	270	4,739	3,434	8,903	6,997
December	432	403	288	0	394	231	4,486	3,298	8,645	6,838
Average	350	312	254	0	452	240	4,347	3,178	8,620	6,787
1994 January	205	161	276	0	361	181	4,333	3,053	7,993	5,945
February	290	232	351	0	441	111	4,705	3,077	8,539	6,313
March	459	394	325	0	453	191	4,784	3,366	8,574	6,372
April	377	282	325	0	496	212	4,561	3,227	8,968	6,955
May	404	345	312	0	643	390	4,805	3,427	9,213	7,198
June	537	485	361	0	423	209	4,787	3,520	9,305	7,358
July	678	578	294	0	635	400	5,273	3,996	9,779	7,857
August	514	473	356	0	513	249	5,007	3,627	9,510	7,488
September	736	717	360	0	409	287	5,307	4,143	9,693	7,868
October	370	323	313	0	350	212	4,484	3,444	8,788	7,136
November	618	507	292	0	257	159	4,536	3,545	8,707	7,034
December	305	255	369	0	414	254	4,411	3,352	8,863	7,193
Average	458	396	328	0	450	239	4,749	3,483	8,996	7,063
1995 January	256	228	283	0	209	131	4,126	3,215	7,955	6,503
February	382	359	322	0	300	143	4,244	3,211	8,358	6,565
March	663	621	298	0	174	91	4,641	3,655	9,020	7,409
April	491	450	284	0	314	143	4,589	3,748	8,486	7,073
May	405	366	203	0	286	165	4,711	3,849	8,736	7,354
5-Month Average	440	405	277	0	255	134	4,466	3,541	8,514	6,988
1994 5-Month Average	348	284	317	0	479	219	4,636	3,233	8,658	6,559
1993 5-Month Average	337	294	253	0	357	167	3,955	2,853	8,338	6,539

[a] Includes petroleum imported into the United States indirectly from members of the Organization of Petroleum Exporting Countries (OPEC), primarily from Caribbean and West European areas, as petroleum products that were refined from crude oil produced by OPEC.

[b] As of January 1993, includes petroleum imported from Ecuador, which withdrew from OPEC on December 31, 1992.

(s)=Less than 500 barrels per day.

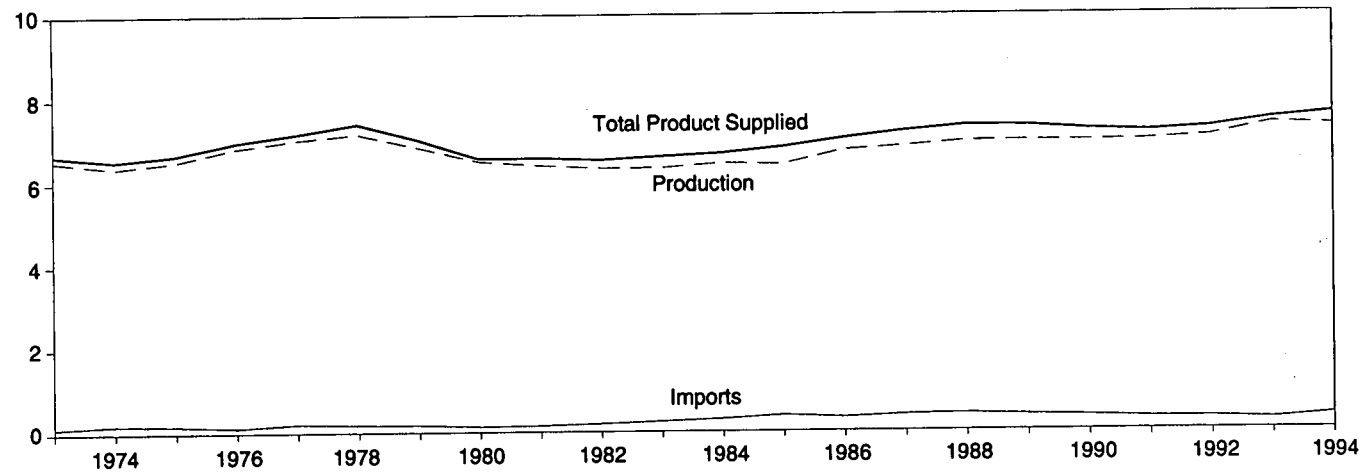
Notes: • Beginning in October 1977, Strategic Petroleum Reserve imports are included. • Totals may not equal sum of components due to independent rounding. • U.S. geographic coverage is the 50 States and the District of Columbia.

Sources: • **1973-1980:** Energy Information Administration (EIA), *Petroleum Supply Monthly*, February 1993, Table S3. • **1981 forward:** EIA, *Petroleum Supply Monthly*, July 1995, Table S3.

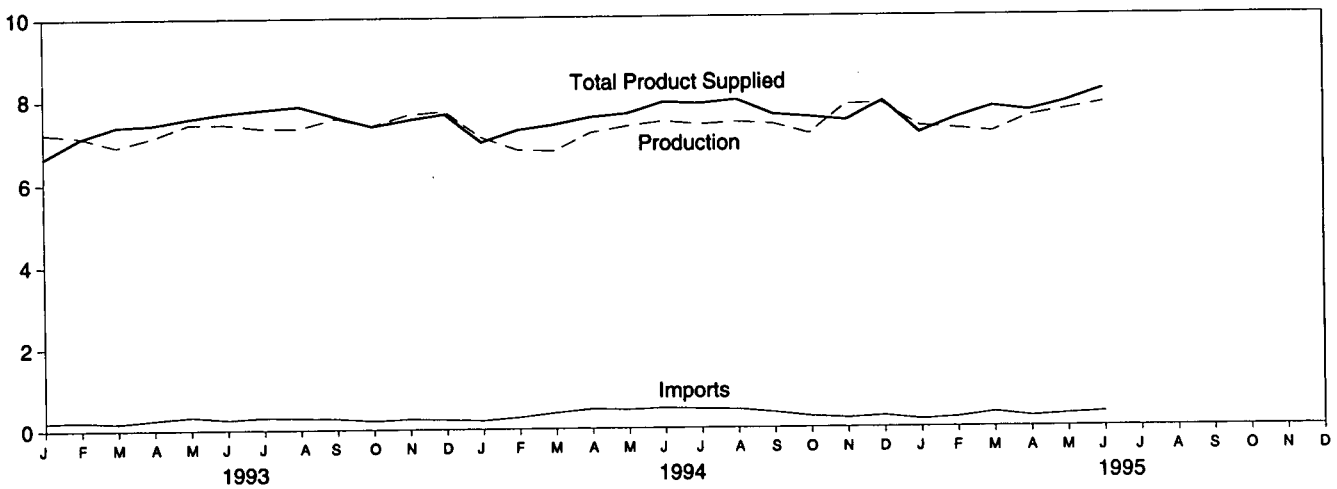
Figure 3.2 Finished Motor Gasoline

(Million Barrels per Day, Except as Noted)

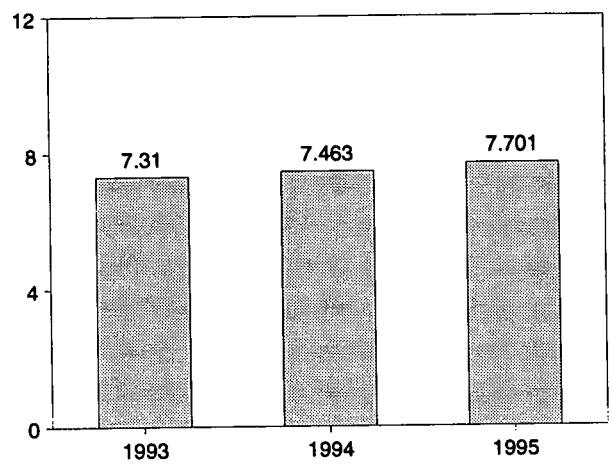
Overview, 1973-1994



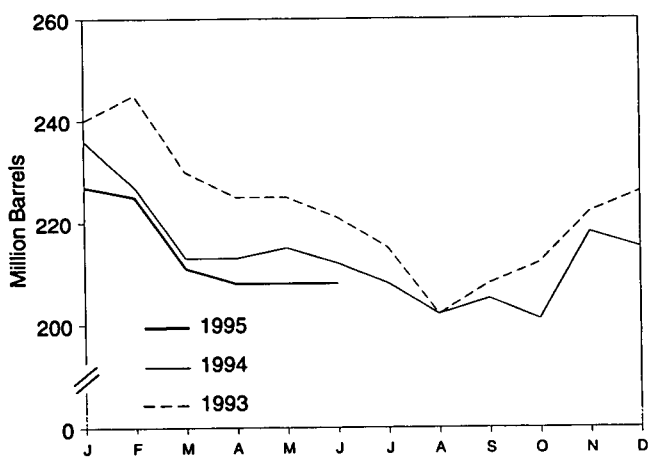
Overview, Monthly



Product Supplied, January-June



Stocks, End of Month



Note: Because vertical scales differ, graphs should not be compared.
Source: Table 3.4.

Table 3.4 Finished Motor Gasoline Supply and Disposition

	Supply		Disposition			Motor Gasoline Ending Stocks[a]		Oxygenates Ending Stocks[a]
	Total Production	Imports[b]	Stock Change[b,c]	Exports	Product Supplied	Total[d]	Finished	
	Thousand 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	190	-54	1	7,412	238	NA	NA
1979 Average	6,852	181	-2	(s)	7,034	237	NA	NA
1980 Average	6,506	140	66	1	6,579	[e]261	NA	NA
1981 Average[f]	6,405	157	[e]-28	2	6,588	253	203	NA
1982 Average	6,338	197	-25	20	6,539	[e]235	[e]194	NA
1983 Average	6,340	247	[e]-45	10	6,622	222	186	NA
1984 Average	6,453	299	54	6	6,693	243	205	NA
1985 Average	6,419	381	-41	10	6,831	223	190	NA
1986 Average	6,752	326	11	33	7,034	233	194	NA
1987 Average	6,841	384	-15	35	7,206	226	189	NA
1988 Average	6,956	405	3	22	7,336	228	190	NA
1989 Average	6,963	369	-35	39	7,328	213	177	NA
1990 Average	6,959	342	10	55	7,235	220	181	NA
1991 Average	6,975	297	3	82	7,188	219	182	NA
1992 Average	7,058	294	-11	96	7,268	216	178	NA
1993 January	[g]7,228	204	652	142	[g]6,639	240	198	[h]15
February	7,144	216	149	99	7,112	245	202	14
March	6,904	177	-417	109	7,389	230	189	15
April	7,126	253	-168	111	7,435	225	184	15
May	7,446	323	93	90	7,585	225	187	17
June	7,442	251	-88	81	7,700	221	184	18
July	7,337	300	-240	92	7,785	215	177	20
August	7,335	283	-323	77	7,864	202	167	21
September	7,573	267	148	85	7,607	208	171	19
October	7,394	210	142	80	7,382	212	176	18
November	7,652	252	245	126	7,533	222	183	16
December	7,725	231	132	162	7,661	226	187	13
Average	**7,360**	**247**	**26**	**105**	**7,476**	**226**	**187**	**13**
1994 January	7,097	206	227	97	6,980	236	194	11
February	6,790	281	-281	77	7,275	227	186	11
March	6,760	382	-341	88	7,395	213	176	13
April	7,195	467	26	73	7,564	213	176	15
May	7,348	446	85	64	7,644	215	179	16
June	7,455	483	-72	88	7,922	212	177	18
July	7,380	455	-127	78	7,884	208	173	22
August	7,432	439	-172	70	7,975	202	168	24
September	7,385	360	55	74	7,615	205	169	25
October	7,151	263	-244	110	7,548	201	162	23
November	7,849	219	496	108	7,464	218	177	20
December	7,867	265	-23	231	7,924	215	176	17
Average	**7,312**	**356**	**-31**	**97**	**7,601**	**215**	**176**	**17**
1995 January	7,317	174	235	100	7,157	227	183	16
February	7,250	223	-116	84	7,505	225	180	16
March	7,171	336	-380	107	7,780	211	168	15
April	7,547	235	-26	139	7,670	208	167	15
May	[R]7,697	[R]286	[R]18	[R]67	[R]7,898	[R]208	168	15
June	[E]7,862	[E]332	[E]-86	[E]90	[E]8,191	[E]208	[E]166	NA
6-Month Average	[E]**7,475**	[E]**265**	[E]**-58**	[E]**98**	[E]**7,701**	[E]**208**	[E]**166**	**NA**
1994 6-Month Average	**7,110**	**378**	**-56**	**81**	**7,463**	**212**	**177**	**18**
1993 6-Month Average	**7,215**	**237**	**37**	**106**	**7,310**	**221**	**184**	**18**

[a] Stocks are totals as of end of period.
[b] From 1981 forward, blending components are excluded.
[c] A negative number indicates a decrease in stocks and a positive number indicates an increase.
[d] Includes motor gasoline blending components and gasohol, but excludes oxygenates, which are reported separately.
[e] See Note 4 at end of section.
[f] See Note 2 at end of section.
[g] Beginning in 1993, motor gasoline production and product supplied include blending of fuel ethanol and an adjustment to correct for the imbalance of motor gasoline blending components. See Note 2 at end of section.
[h] See Note 1 at end of section.

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

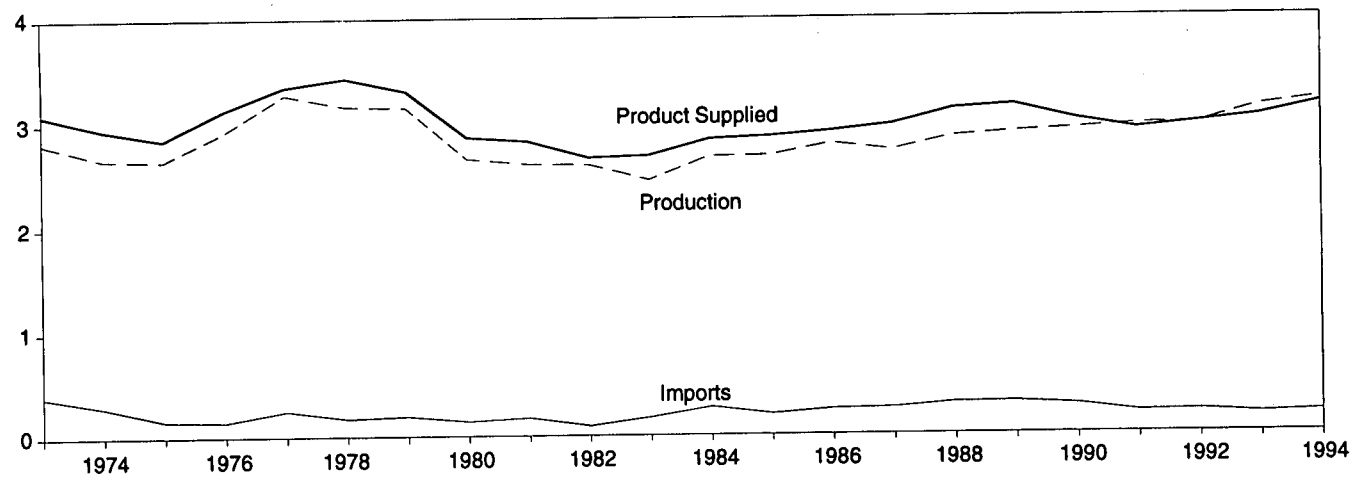
Note: Geographic coverage is the 50 States and the District of Columbia.

Sources: • **1973-1980:** Energy Information Administration (EIA), *Petroleum Supply Monthly*, February 1993, Table S4. • **1981 forward:** EIA, *Petroleum Supply Monthly*, July 1995, Table S4.

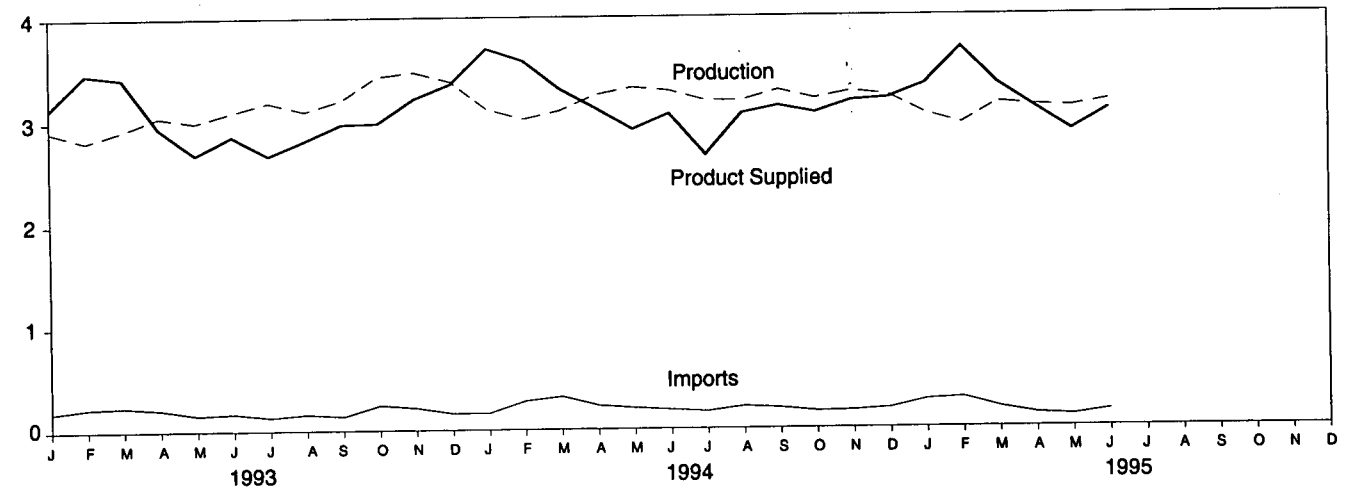
Figure 3.3 Distillate Fuel

(Million Barrels per Day, Except as Noted)

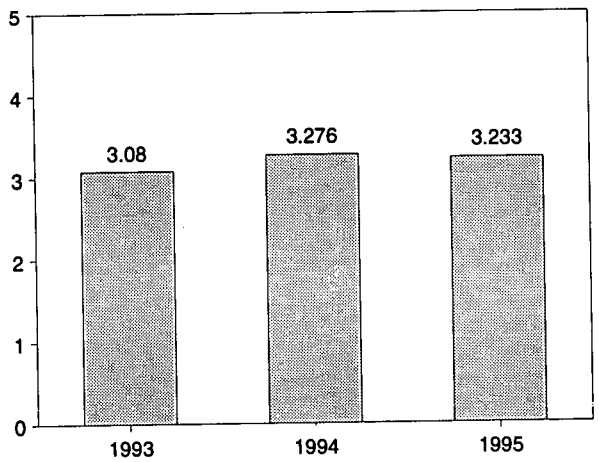
Overview, 1973-1994



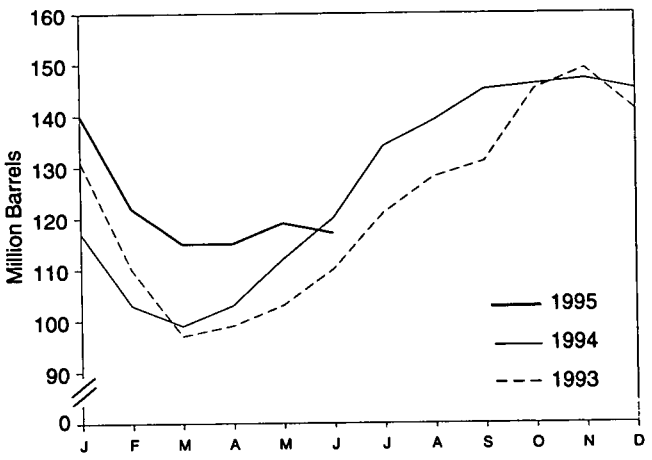
Overview, Monthly



Product Supplied, January-June



Stocks, End of Month



Source: Table 3.5.

Table 3.5 Distillate Fuel Oil Supply and Disposition

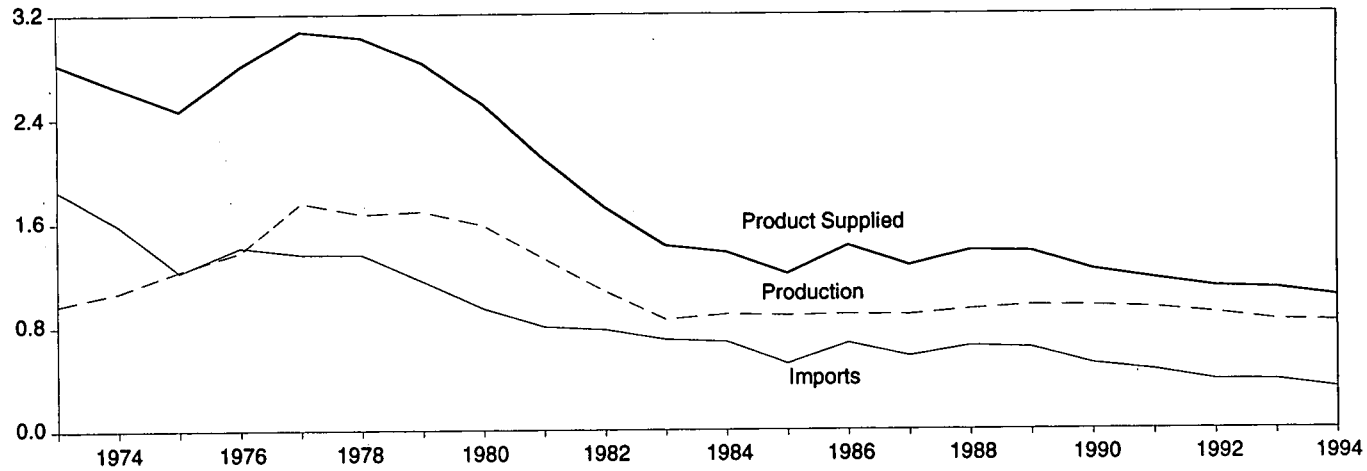
	Supply			Disposition			Ending Stocks[a]		
								Sulfur Content	
	Total Production	Imports	Crude Oil Used Directly[b]	Stock Change[c]	Exports	Product Supplied[b]	Total	0.05 Percent or Less[d]	Greater Than 0.05 Percent[d]
	Thousand Barrels per Day						Million Barrels		
1973 Average	**2,822**	**392**	**2**	**115**	**9**	**3,092**	**196**	**NA**	**NA**
1974 Average	**2,669**	**289**	**2**	**[e] 10**	**2**	**2,948**	**[f] 200**	**NA**	**NA**
1975 Average	**2,654**	**155**	**2**	**[e,f] -41**	**1**	**2,851**	**209**	**NA**	**NA**
1976 Average	**2,924**	**146**	**1**	**-62**	**1**	**3,133**	**186**	**NA**	**NA**
1977 Average	**3,278**	**250**	**1**	**176**	**1**	**3,352**	**250**	**NA**	**NA**
1978 Average	**3,167**	**173**	**1**	**-93**	**3**	**3,432**	**216**	**NA**	**NA**
1979 Average	**3,153**	**193**	**1**	**34**	**3**	**3,311**	**229**	**NA**	**NA**
1980 Average	**2,662**	**142**	**1**	**-64**	**3**	**2,866**	**[f] 205**	**NA**	**NA**
1981 Average[g]	**2,613**	**173**	**10**	**[f] -38**	**5**	**2,829**	**192**	**NA**	**NA**
1982 Average	**2,606**	**93**	**10**	**-35**	**74**	**2,671**	**[f] 179**	**NA**	**NA**
1983 Average	**2,456**	**174**	**–**	**[f] -124**	**64**	**2,690**	**140**	**NA**	**NA**
1984 Average	**2,681**	**272**	**–**	**57**	**51**	**2,845**	**161**	**NA**	**NA**
1985 Average	**2,687**	**200**	**–**	**-48**	**67**	**2,868**	**144**	**NA**	**NA**
1986 Average	**2,798**	**247**	**–**	**31**	**100**	**2,914**	**155**	**NA**	**NA**
1987 Average	**2,731**	**255**	**–**	**-56**	**66**	**2,976**	**134**	**NA**	**NA**
1988 Average	**2,859**	**302**	**–**	**-30**	**69**	**3,122**	**124**	**NA**	**NA**
1989 Average	**2,899**	**306**	**–**	**-49**	**97**	**3,157**	**106**	**NA**	**NA**
1990 Average	**2,925**	**278**	**–**	**73**	**109**	**3,021**	**132**	**NA**	**NA**
1991 Average	**2,962**	**205**	**–**	**31**	**215**	**2,921**	**144**	**NA**	**NA**
1992 Average	**2,974**	**216**	**–**	**-8**	**219**	**2,979**	**141**	**NA**	**NA**
1993 January	2,914	182	–	-318	287	3,128	131	[g] 15	[g] 115
February	2,815	224	–	-727	301	3,465	110	12	99
March	2,919	235	–	-420	154	3,420	97	11	87
April	3,047	209	–	71	241	2,943	99	12	88
May	2,994	153	–	106	355	2,685	103	12	91
June	3,093	168	–	241	158	2,863	110	15	95
July	3,186	130	–	346	296	2,674	121	21	100
August	3,100	159	–	243	196	2,820	128	44	84
September	3,205	137	–	102	267	2,973	131	48	84
October	3,432	242	–	453	237	2,983	145	55	90
November	3,474	214	–	127	342	3,218	149	64	85
December	3,382	160	–	-267	453	3,357	141	64	77
Average	**3,132**	**184**	**–**	**1**	**274**	**3,041**	**141**	**64**	**77**
1994 January	3,114	161	–	-754	332	3,698	117	55	62
February	3,018	276	–	-521	235	3,581	103	49	54
March	3,096	318	–	-113	220	3,307	99	51	49
April	3,249	226	–	106	252	3,116	103	57	46
May	3,317	202	–	318	289	2,912	112	61	51
June	3,285	182	–	237	168	3,062	120	62	58
July	3,191	164	–	472	220	2,663	134	69	65
August	3,187	211	–	142	193	3,063	139	67	71
September	3,285	193	–	205	140	3,133	145	66	78
October	3,203	159	–	40	256	3,066	146	67	79
November	3,270	166	–	45	211	3,180	147	70	77
December	3,232	187	–	-68	284	3,203	145	73	73
Average	**3,205**	**203**	**–**	**12**	**234**	**3,162**	**145**	**73**	**73**
1995 January	3,055	270	–	-152	141	3,335	140	69	71
February	2,954	287	–	-660	212	3,689	122	63	59
March	3,156	188	–	-208	216	3,336	115	59	56
April	3,125	125	–	-30	172	3,108	115	61	53
May	[R] 3,111	[R] 108	–	[R] 135	[R] 202	[R] 2,883	[R] 119	[R] 62	[R] 56
June	[E] 3,171	[E] 158	–	[E] 33	[E] 211	[E] 3,085	[E] 117	[E] 61	[E] 56
6-Month Average	**[E] 3,097**	**[E] 188**	**–**	**[E] -140**	**[E] 192**	**[E] 3,233**	**[E] 117**	**[E] 61**	**[E] 56**
1994 6-Month Average	**3,181**	**227**	**–**	**-118**	**250**	**3,276**	**120**	**62**	**58**
1993 6-Month Average	**2,965**	**195**	**–**	**-169**	**249**	**3,080**	**110**	**15**	**95**

[a] Stocks are totals as of end of period.
[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 data. NA=Not available. – =Not applicable. E=Estimate.
Notes: • Totals may not equal sum of components due to independent rounding. • Geographic coverage is the 50 States and the District of Columbia.
Sources: • **1973-1980:** Energy Information Administration (EIA), *Petroleum Supply Monthly*, February 1993, Table S5. • **1981 forward:** EIA, *Petroleum Supply Monthly*, July 1995, Table S5.

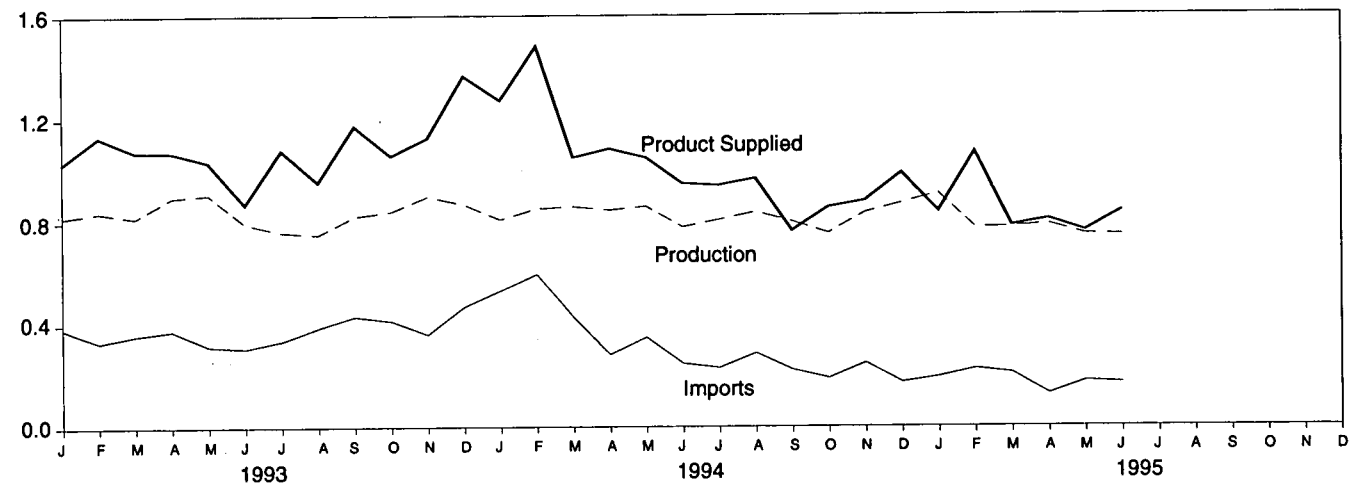
Figure 3.4 Residual Fuel

(Million Barrels per Day, Except as Noted)

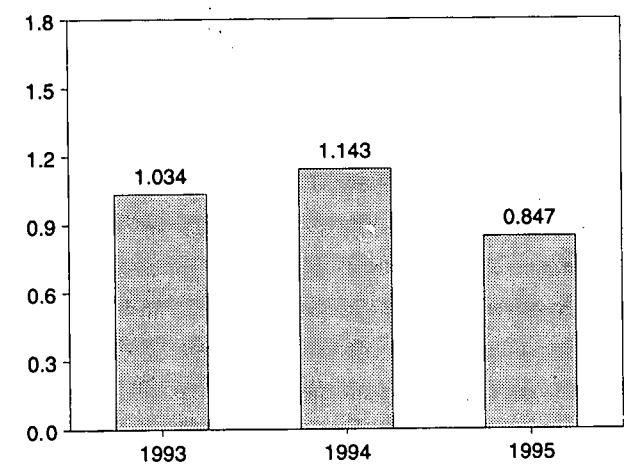
Overview, 1973-1994



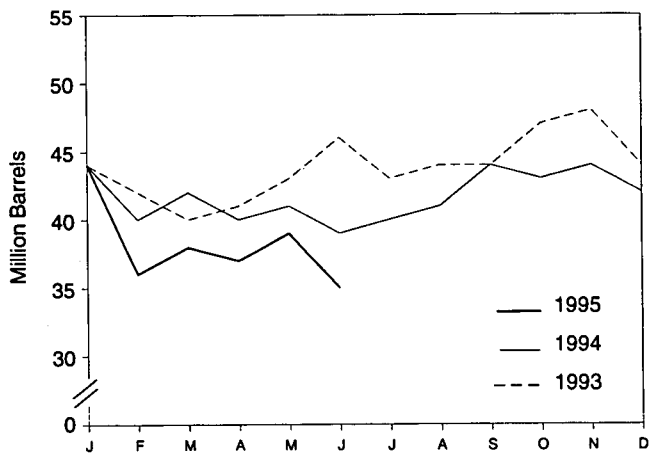
Overview, Monthly



Product Supplied, January-June



Stocks, End of Month



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

Table 3.6 Residual Fuel Oil Supply and Disposition

	Supply			Disposition			
	Total Production	Imports	Crude Oil Used Directly[a]	Stock Change[b]	Exports	Product Supplied[a]	Ending Stocks[c]
	Thousand Barrels per Day						Million Barrels
1973 Average	971	1,853	17	-5	23	2,822	53
1974 Average	1,070	1,587	13	17	14	2,639	[d] 60
1975 Average	1,235	1,223	15	[d] -2	15	2,462	74
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 January	820	385	–	44	133	1,028	44
February	840	332	–	-74	113	1,132	42
March	818	360	–	-47	152	1,073	40
April	896	377	–	32	169	1,071	41
May	908	316	–	54	137	1,033	43
June	795	308	–	87	147	870	46
July	762	337	–	-102	122	1,079	43
August	752	387	–	64	120	955	44
September	822	430	–	-31	110	1,173	44
October	841	412	–	103	94	1,057	47
November	899	361	–	48	86	1,126	48
December	869	467	–	-129	98	1,367	44
Average	**835**	**373**	**–**	**4**	**123**	**1,080**	**44**
1994 January	809	532	–	4	64	1,272	44
February	852	597	–	-159	127	1,481	40
March	859	426	–	61	175	1,050	42
April	846	282	–	-65	110	1,083	40
May	860	348	–	30	129	1,049	41
June	779	247	–	-43	122	948	39
July	807	230	–	12	83	941	40
August	838	287	–	37	120	968	41
September	800	222	–	117	141	764	44
October	755	190	–	-45	134	856	43
November	835	248	–	19	182	881	44
December	871	173	–	-58	115	988	42
Average	**826**	**314**	**–**	**-6**	**125**	**1,021**	**42**
1995 January	909	194	–	60	203	839	44
February	776	225	–	-275	208	1,069	36
March	778	209	–	50	154	783	38
April	789	126	–	-23	129	808	37
May	[R] 749	[R] 177	–	[R] 48	[R] 115	[R] 762	[R] 39
June	[E] 746	[E] 170	–	[E] -84	[E] 159	[E] 841	[E] 35
6-Month Average	[E] **792**	[E] **183**	**–**	[E] **-33**	[E] **161**	[E] **847**	[E] **35**
1994 6-Month Average	**834**	**404**	**–**	**-26**	**121**	**1,143**	**39**
1993 6-Month Average	**846**	**347**	**–**	**17**	**142**	**1,034**	**46**

[a] Beginning in January 1983, crude oil used directly as residual fuel oil is reported as crude oil product supplied on Table 3.2b rather than as residual fuel oil product supplied.

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

[c] Stocks are totals as of end of period.

[d] See Note 4 at end of section.

[e] See Note 3 at end of section.

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

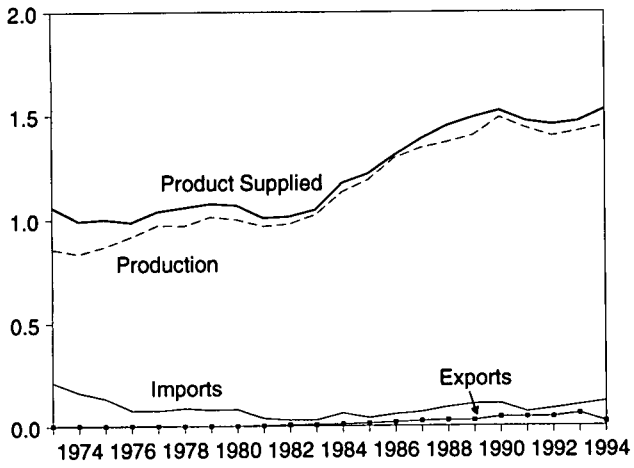
Note: Geographic coverage is the 50 States and the District of Columbia.

Sources: • **1973-1980:** Energy Information Administration (EIA), *Petroleum Supply Monthly*, February 1993, Table S6. • **1981 forward:** EIA, *Petroleum Supply Monthly*, July 1995, Table S6.

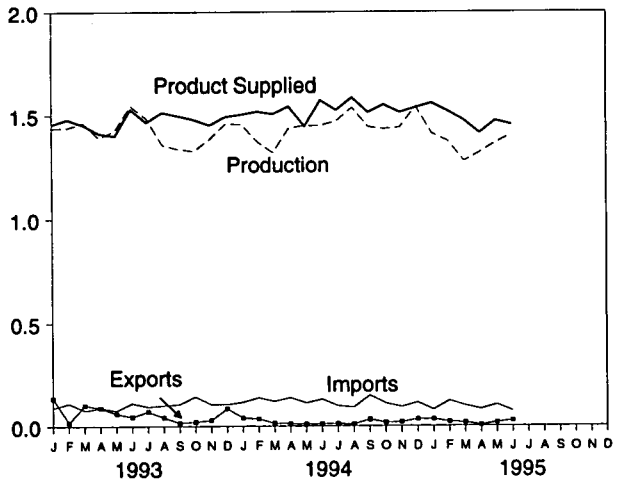
Figure 3.5 Jet Fuel

(Million Barrels per Day, Except as Noted)

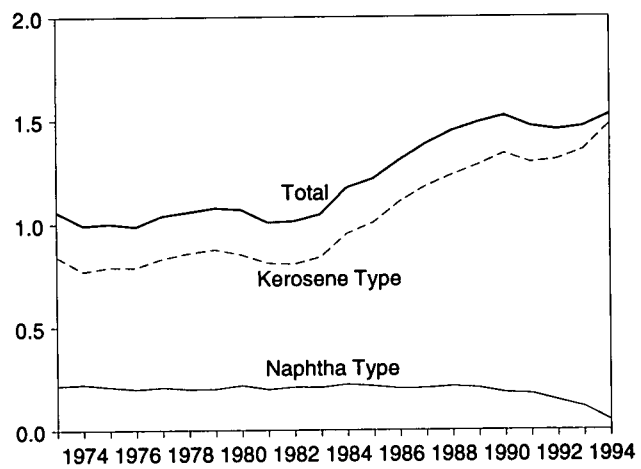
Overview, 1973-1994



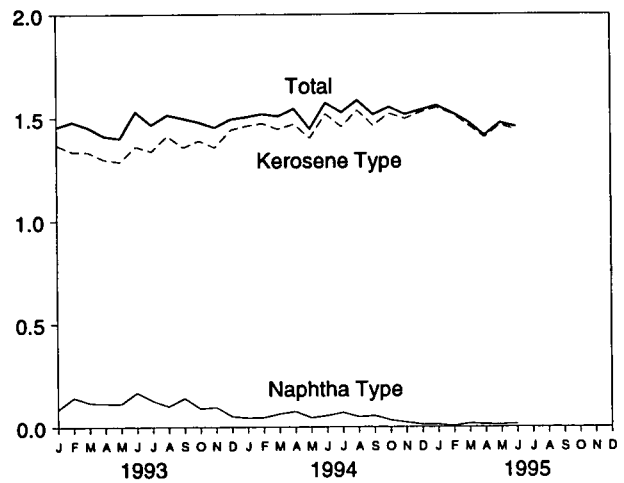
Overview, Monthly



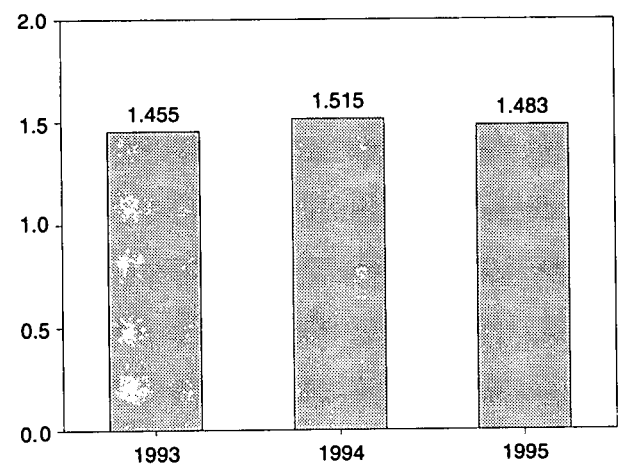
Product Supplied by Type, 1973-1994



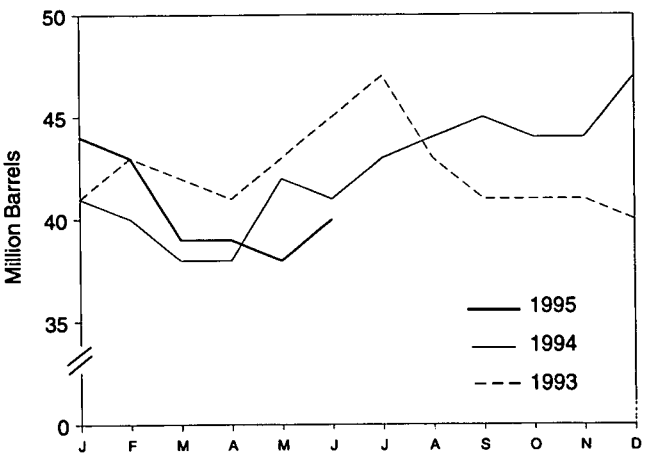
Product Supplied by Type, Monthly



Product Supplied, January-June



Stocks, End of Month



Source: Table 3.7.

Table 3.7 Jet Fuel Supply and Disposition

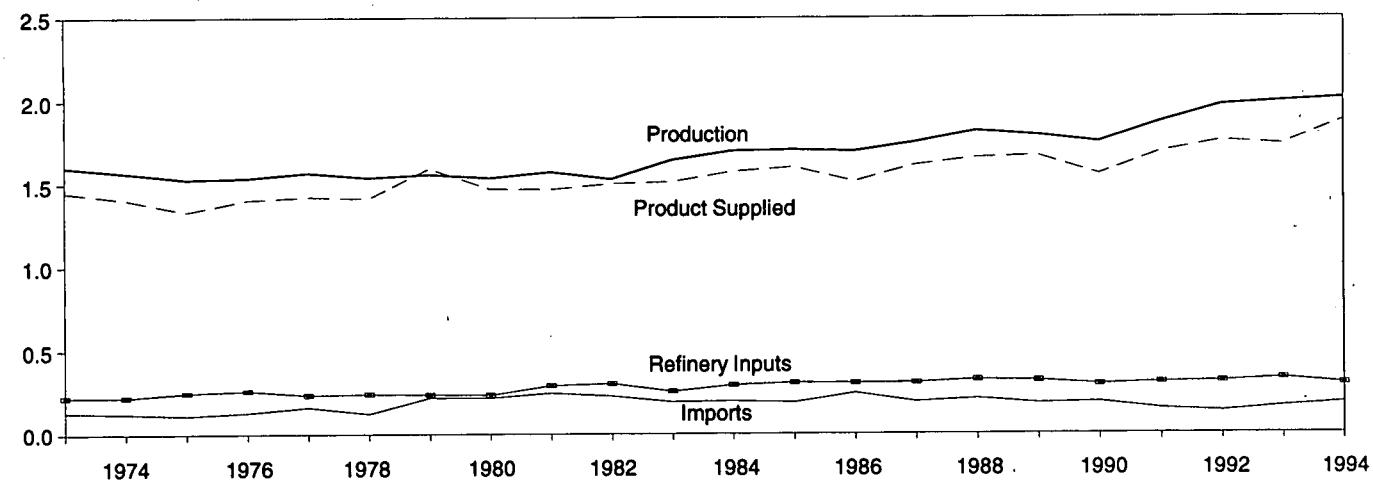
	Supply			Disposition				Ending Stocks[a]	
	Production		Imports	Stock Change[b]	Exports	Product Supplied			
	Total	Kerosene Type				Total	Kerosene Type	Total	Kerosene Type
	Thousand Barrels per Day							Million Barrels	
1973 Average	**859**	**679**	**212**	**8**	**4**	**1,059**	**842**	**29**	**23**
1974 Average	**836**	**641**	**163**	**2**	**3**	**993**	**771**	[c]**29**	[c]**24**
1975 Average	**871**	**691**	**133**	[c]**2**	**2**	**1,001**	**791**	**30**	**25**
1976 Average	**918**	**731**	**76**	**5**	**2**	**987**	**789**	**32**	**26**
1977 Average	**973**	**787**	**75**	**7**	**2**	**1,039**	**831**	**35**	**28**
1978 Average	**970**	**791**	**86**	**-2**	**1**	**1,057**	**858**	**34**	**28**
1979 Average	**1,012**	**835**	**78**	**13**	**1**	**1,076**	**876**	**39**	**33**
1980 Average	**999**	**811**	**80**	**10**	**1**	**1,068**	**851**	[c]**42**	[c]**36**
1981 Average	**968**	**775**	**38**	[c]**-4**	**2**	**1,007**	**809**	**41**	**34**
1982 Average	**978**	**778**	**29**	**-12**	**6**	**1,013**	**804**	[c]**37**	[c]**31**
1983 Average	**1,022**	**817**	**29**	[c] **(s)**	**6**	**1,046**	**839**	**39**	**32**
1984 Average	**1,132**	**919**	**62**	**9**	**9**	**1,175**	**953**	**42**	**35**
1985 Average	**1,189**	**983**	**39**	**-4**	**13**	**1,218**	**1,005**	**40**	**34**
1986 Average	**1,293**	**1,097**	**57**	**25**	**18**	**1,307**	**1,105**	**50**	**43**
1987 Average	**1,343**	**1,138**	**67**	**(s)**	**24**	**1,385**	**1,181**	**50**	**42**
1988 Average	**1,370**	**1,164**	**90**	**-17**	**28**	**1,449**	**1,236**	**44**	**38**
1989 Average	**1,403**	**1,197**	**106**	**-8**	**27**	**1,489**	**1,284**	**41**	**34**
1990 Average	**1,488**	**1,311**	**108**	**31**	**43**	**1,522**	**1,340**	**52**	**46**
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 January	1,437	1,308	89	-64	134	1,456	1,369	41	36
February	1,440	1,316	110	53	17	1,480	1,337	43	38
March	1,463	1,332	76	-15	101	1,453	1,335	42	38
April	1,391	1,265	88	-23	88	1,413	1,299	41	37
May	1,427	1,302	75	42	60	1,401	1,288	43	38
June	1,547	1,407	111	83	45	1,530	1,362	45	41
July	1,485	1,359	94	42	71	1,466	1,338	47	43
August	1,358	1,257	100	-98	42	1,514	1,413	43	40
September	1,338	1,241	106	-69	16	1,497	1,357	41	38
October	1,329	1,242	143	-27	20	1,479	1,389	41	37
November	1,386	1,301	105	8	29	1,453	1,357	41	38
December	1,459	1,382	105	-13	85	1,493	1,441	40	38
Average	**1,422**	**1,309**	**100**	**-7**	**59**	**1,469**	**1,357**	**40**	**38**
1994 January	1,456	1,394	116	29	40	1,504	1,460	41	39
February	1,374	1,331	138	-43	35	1,519	1,473	40	38
March	1,322	1,272	120	-80	14	1,507	1,444	38	36
April	1,437	1,395	138	20	12	1,544	1,469	38	36
May	1,451	1,403	112	108	9	1,446	1,402	42	40
June	1,451	1,400	130	-2	11	1,573	1,518	41	40
July	1,472	1,422	98	34	11	1,526	1,456	43	41
August	1,538	1,498	91	33	10	1,585	1,536	44	42
September	1,444	1,419	149	47	31	1,515	1,461	45	44
October	1,434	1,409	110	-27	18	1,552	1,520	44	43
November	1,442	1,433	93	(s)	19	1,515	1,494	44	43
December	1,543	1,533	114	86	33	1,538	1,526	47	46
Average	**1,448**	**1,410**	**117**	**18**	**20**	**1,527**	**1,480**	**47**	**46**
1995 January	1,412	1,402	79	-101	33	1,559	1,548	44	43
February	1,376	1,366	123	-44	21	1,522	1,516	43	42
March	1,281	1,272	99	-113	17	1,477	1,461	39	38
April	1,322	1,318	82	-16	5	1,414	1,403	39	38
May	[R]1,368	[R]1,356	[R]104	[R]-21	[R]18	[R]1,474	[R]1,463	[R]38	[R]37
June	[E]1,405	[E]1,394	[E]73	[E]-3	[E]27	[E]1,455	[E]1,440	[E]40	[E]39
6-Month Average	[E]**1,360**	[E]**1,351**	[E]**93**	[E]**-50**	[E]**20**	[E]**1,483**	[E]**1,472**	[E]**40**	[E]**39**
1994 6-Month Average	**1,416**	**1,366**	**125**	**6**	**20**	**1,515**	**1,460**	**41**	**40**
1993 6-Month Average	**1,451**	**1,321**	**91**	**12**	**75**	**1,455**	**1,332**	**45**	**41**

[a] Stocks are totals as of 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 data. 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*, July 1995, Table S7.

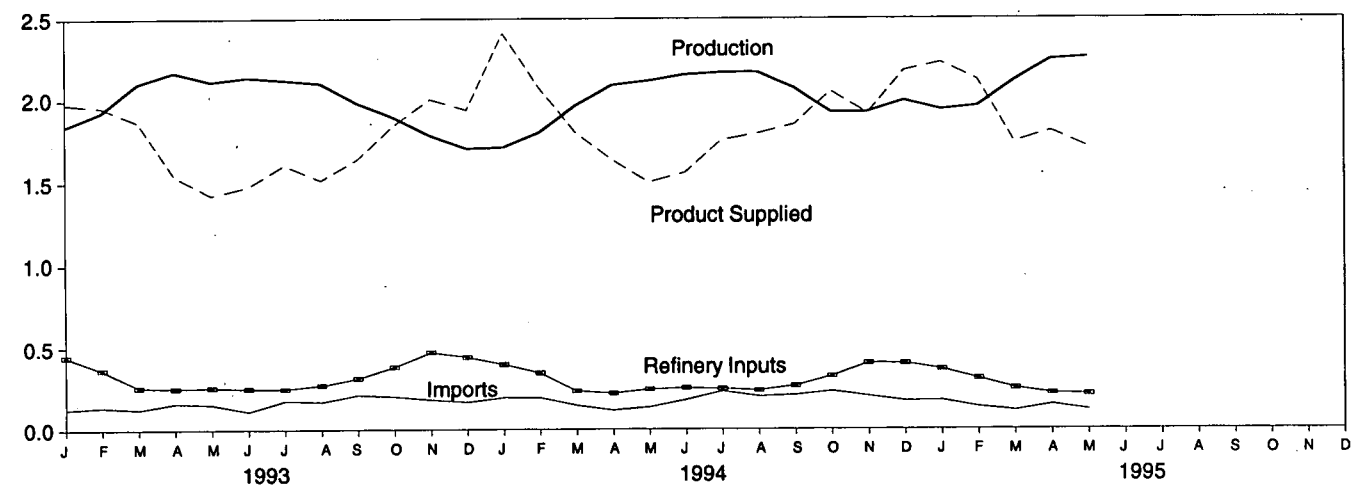
Figure 3.6 Liquefied Petroleum Gases

(Million Barrels per Day, Except as Noted)

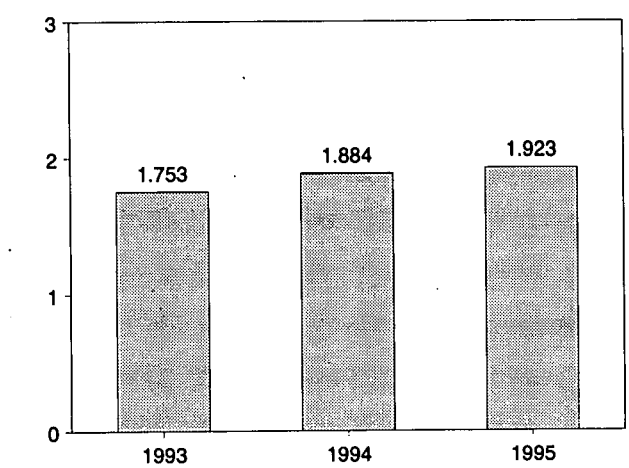
Overview, 1973-1994



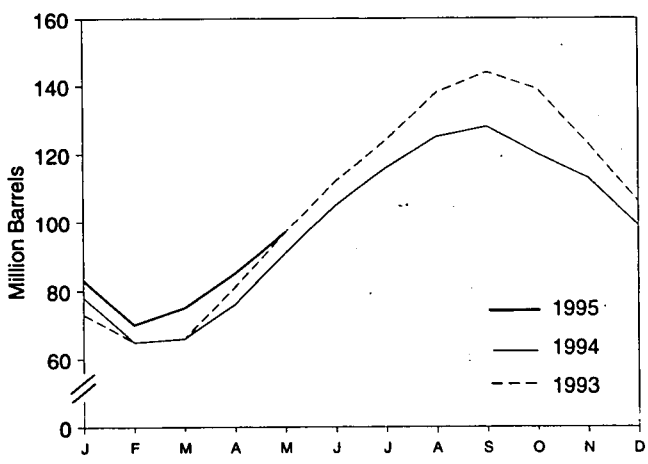
Overview, Monthly



Product Supplied, January-May



Stocks, End of Month



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

Table 3.8 Liquefied Petroleum Gases Supply and Disposition

	Supply		Disposition				
	Total Production	Imports	Stock Change[a]	Refinery Inputs	Exports	Product Supplied	Ending Stocks[b]
	Thousand Barrels per Day						Million Barrels
1973 Average	1,600	132	35	220	27	1,449	99
1974 Average	1,565	123	38	220	25	1,406	[c] 113
1975 Average	1,527	112	[c] 35	246	26	1,333	125
1976 Average	1,535	130	-24	260	25	1,404	116
1977 Average	1,566	161	55	233	18	1,422	136
1978 Average	1,537	123	-12	239	20	1,413	[c] 132
1979 Average	1,556	217	[c] -70	236	15	1,592	111
1980 Average	1,535	216	27	233	21	1,469	[c] 120
1981 Average	1,571	244	[c] 18	289	42	1,466	135
1982 Average	[d] 1,527	226	-111	300	65	1,499	[c] 94
1983 Average	1,642	190	[c] -4	253	73	1,509	[c] 101
1984 Average	1,697	195	[c] -19	291	48	1,572	101
1985 Average	1,704	187	-75	304	62	1,599	74
1986 Average	1,695	242	80	302	42	1,512	103
1987 Average	1,748	190	-15	304	38	1,612	97
1988 Average	1,817	209	1	321	49	1,656	97
1989 Average	1,791	181	-47	315	35	1,668	80
1990 Average	1,749	188	48	293	40	1,556	98
1991 Average	1,871	147	-15	304	41	1,689	92
1992 Average	1,972	131	-10	309	49	1,755	89
1993 January	1,845	126	-492	444	39	1,980	73
February	1,929	138	-309	363	55	1,958	65
March	2,103	124	53	256	47	1,871	66
April	2,172	161	472	250	69	1,542	81
May	2,116	153	540	254	50	1,425	97
June	2,141	111	489	247	41	1,476	112
July	2,125	175	391	246	54	1,609	124
August	2,105	168	442	269	45	1,517	138
September	1,984	210	204	312	35	1,644	144
October	1,899	200	-154	381	21	1,851	139
November	1,789	181	-527	469	21	2,007	123
December	1,710	166	-545	440	40	1,942	106
Average	**1,993**	**160**	**49**	**327**	**43**	**1,734**	**106**
1994 January	1,717	194	-923	396	28	2,410	78
February	1,807	192	-463	343	44	2,075	65
March	1,969	146	42	232	37	1,804	66
April	2,093	116	323	218	29	1,639	76
May	2,120	135	478	243	32	1,503	91
June	2,156	178	480	251	41	1,562	105
July	2,169	229	353	246	40	1,759	116
August	2,170	198	296	236	37	1,799	125
September	2,073	206	104	264	56	1,854	128
October	1,926	230	-259	322	40	2,054	120
November	1,927	199	-228	401	35	1,919	113
December	1,998	169	-452	399	41	2,179	99
Average	**2,012**	**183**	**-19**	**296**	**38**	**1,880**	**99**
1995 January	1,941	172	-542	363	64	2,228	83
February	1,964	134	-456	306	122	2,125	70
March	2,117	111	175	248	57	1,747	75
April	2,246	147	323	216	43	1,812	85
May	2,260	115	386	211	62	1,716	97
5-Month Average	**2,107**	**136**	**-16**	**268**	**69**	**1,923**	**97**
1994 5-Month Average	**1,943**	**156**	**-104**	**285**	**34**	**1,884**	**91**
1993 5-Month Average	**2,034**	**140**	**57**	**313**	**52**	**1,753**	**97**

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

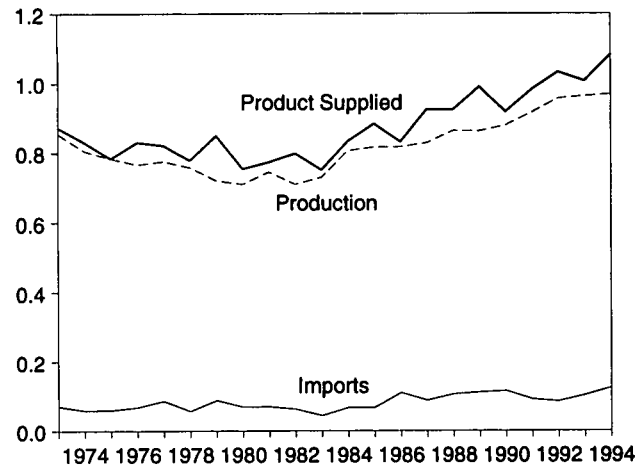
Notes: • Liquefied petroleum gases include ethane, ethylene, propane, propylene, normal butane, butylene, isobutane and isobutylene. • Geographic coverage is the 50 States and the District of Columbia.

Sources: • **1973-1980:** Energy Information Administration (EIA), *Petroleum Supply Monthly*, February 1993, Table S8. • **1981 forward:** EIA, *Petroleum Supply Monthly*, July 1995, Table S9.

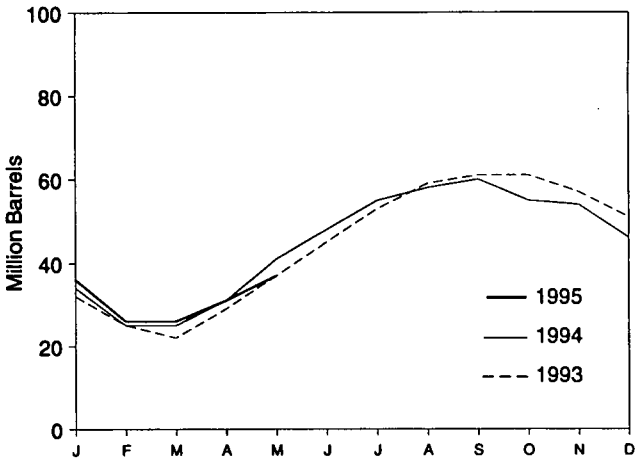
Figure 3.7 Propane and Propylene

(Million Barrels per Day, Except as Noted)

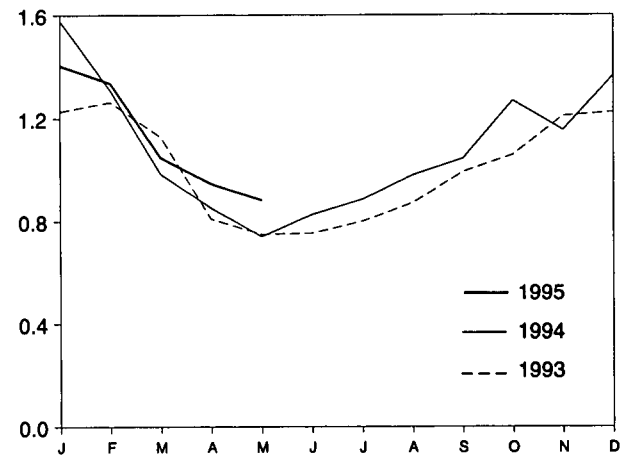
Overview, 1973-1994



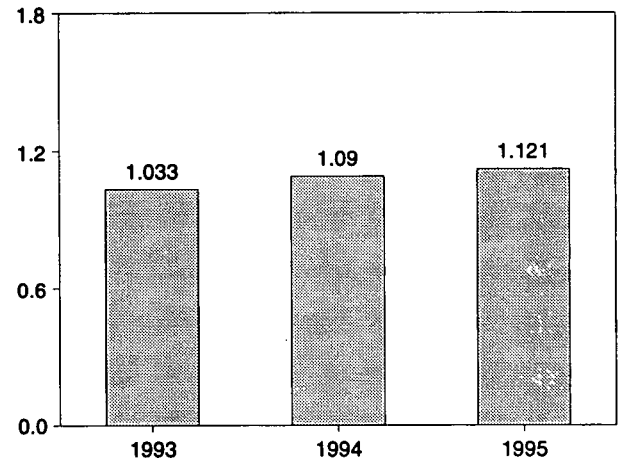
Stocks, End of Month



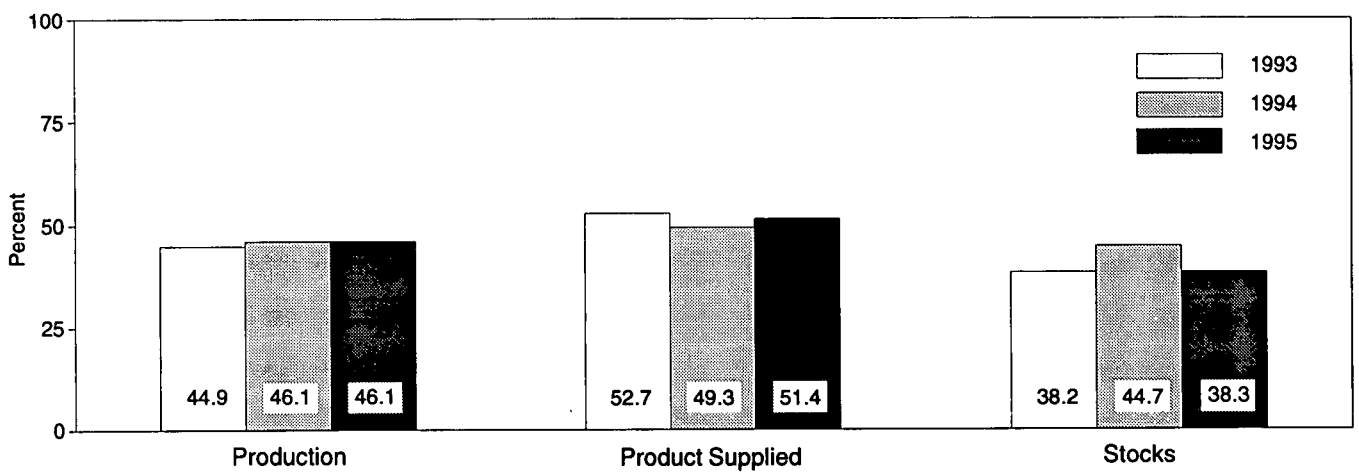
Product Supplied, Monthly



Product Supplied, January-May



Share of Liquefied Petroleum Gases, May



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

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

	Supply		Disposition				
	Total Production	Imports	Stock Change[a]	Refinery Inputs	Exports	Product Supplied	Ending Stocks[b]
	Thousand Barrels 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**	**13**	**9**	**778**	[c] **87**
1979 Average	**721**	**88**	[c] **-61**	**14**	**8**	**849**	**64**
1980 Average	**711**	**69**	**4**	**12**	**10**	**754**	[c] **65**
1981 Average	**745**	**70**	[c] **18**	**5**	**18**	**773**	**76**
1982 Average	**711**	**63**	**-59**	**4**	**31**	**798**	[c] **54**
1983 Average	**730**	**44**	[c] **-24**	**4**	**43**	**751**	[c] **48**
1984 Average	**806**	**67**	[c] **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**	**111**	**-52**	**11**	**24**	**990**	**32**
1990 Average	**878**	**115**	**48**	**(s)**	**28**	**917**	**49**
1991 Average	**915**	**91**	**-3**	**(s)**	**28**	**982**	**48**
1992 Average	**956**	**85**	**-24**	**(s)**	**33**	**1,032**	**39**
1993 January	968	79	-212	1	31	1,227	32
February	964	82	-255	(s)	37	1,264	25
March	966	85	-109	(s)	32	1,129	22
April	980	108	238	(s)	40	809	29
May	951	96	266	0	30	750	37
June	967	75	265	0	23	754	45
July	963	118	256	0	26	800	53
August	960	116	178	0	27	871	59
September	969	132	92	0	17	992	61
October	954	107	-11	0	13	1,059	61
November	963	138	-126	0	17	1,209	57
December	953	102	-195	0	25	1,225	51
Average	**963**	**103**	**34**	**(s)**	**26**	**1,006**	**51**
1994 January	889	141	-566	0	19	1,577	34
February	905	128	-308	0	30	1,311	25
March	939	87	13	0	29	984	25
April	978	83	188	0	20	852	31
May	976	90	306	0	20	741	41
June	978	117	247	0	20	827	48
July	977	151	221	0	22	885	55
August	980	135	107	0	28	980	58
September	1,008	133	77	0	20	1,044	60
October	954	164	-175	0	24	1,269	55
November	1,002	137	-43	0	27	1,155	54
December	1,034	127	-233	0	29	1,366	46
Average	**969**	**124**	**-13**	**0**	**24**	**1,082**	**46**
1995 January	1,002	108	-350	0	55	1,405	36
February	983	94	-361	0	100	1,338	26
March	1,013	90	16	(s)	39	1,048	26
April	1,029	107	159	0	31	946	31
May	1,042	73	204	0	29	882	37
5-Month Average	**1,014**	**94**	**-62**	**(s)**	**50**	**1,121**	**37**
1994 5-Month Average	**938**	**106**	**-71**	**0**	**24**	**1,090**	**41**
1993 5-Month Average	**966**	**90**	**-11**	**(s)**	**34**	**1,033**	**37**

[a] A negative number indicates a decrease in stocks and a positive number indicates an increase.
[b] Stocks are totals as of end of period.
[c] See Note 4 at end of section.
(s)=Less than 500 barrels per day.
Note: Geographic coverage is the 50 States and the District of Columbia.

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*, July 1995, Table S8.

Table 3.10 Other Petroleum Products Supply and Disposition

	Supply		Disposition				
	Total Production	Imports	Stock Change[a]	Refinery Inputs	Exports	Products Supplied	Ending Stocks[b]
	Thousand Barrels per Day						Million Barrels
1973 Average	**2,833**	**290**	**1**	**750**	**162**	**2,211**	**179**
1974 Average	**2,722**	**269**	**25**	**665**	**172**	**2,129**	**[c] 188**
1975 Average	**2,547**	**144**	**[c] -6**	**537**	**158**	**2,001**	**188**
1976 Average	**2,725**	**129**	**(s)**	**524**	**172**	**2,158**	**188**
1977 Average	**2,939**	**130**	**20**	**514**	**164**	**2,371**	**195**
1978 Average	**3,076**	**80**	**-12**	**492**	**165**	**2,511**	**191**
1979 Average	**3,141**	**116**	**24**	**352**	**208**	**2,673**	**200**
1980 Average	**2,957**	**130**	**15**	**310**	**197**	**2,566**	**[c] 205**
1981 Average	**2,771**	**188**	**[c] -42**	**723**	**197**	**2,081**	**241**
1982 Average	**2,475**	**305**	**-68**	**787**	**205**	**[d] 1,857**	**[c] 216**
1983 Average	**2,437**	**382**	**[c] -6**	**712**	**236**	**1,877**	**[c] 217**
1984 Average	**2,500**	**503**	**[c] -32**	**791**	**236**	**2,007**	**198**
1985 Average	**2,532**	**550**	**22**	**886**	**227**	**1,947**	**206**
1986 Average	**2,704**	**504**	**-15**	**888**	**291**	**2,045**	**201**
1987 Average	**2,737**	**543**	**-1**	**829**	**264**	**2,187**	**200**
1988 Average	**2,773**	**645**	**22**	**799**	**294**	**2,303**	**208**
1989 Average	**2,771**	**627**	**12**	**797**	**305**	**2,285**	**213**
1990 Average	**2,842**	**705**	**-32**	**887**	**289**	**2,402**	**201**
1991 Average	**2,826**	**675**	**18**	**936**	**277**	**2,269**	**208**
1992 Average	**2,928**	**707**	**-3**	**906**	**263**	**2,470**	**[c] 207**
1993 January	[e] 3,147	726	[c] 739	929	[e] 271	[e] 1,933	229
February	2,853	773	111	1,057	282	2,176	233
March	2,887	826	245	843	269	2,356	240
April	2,935	753	-29	1,033	315	2,368	239
May	2,941	834	80	1,048	278	2,368	242
June	3,099	654	-239	1,064	278	2,650	235
July	3,213	894	61	1,008	303	2,735	237
August	3,167	693	-28	940	294	2,654	236
September	3,067	800	-268	1,104	282	2,749	228
October	3,195	810	-114	1,189	369	2,561	224
November	3,080	795	-222	1,355	309	2,433	217
December	2,816	678	-376	1,403	349	2,117	206
Average	**3,035**	**770**	**-2**	**1,081**	**300**	**2,426**	**206**
1994 January	2,712	838	511	585	256	2,198	222
February	2,790	743	277	613	248	2,394	229
March	2,777	810	52	934	361	2,241	231
April	2,914	783	-126	1,016	272	2,534	227
May	3,078	773	-64	1,009	288	2,617	225
June	3,131	726	-103	887	331	2,742	222
July	3,158	746	80	759	361	2,704	225
August	3,093	797	-46	803	411	2,721	223
September	3,088	695	50	745	388	2,600	225
October	3,067	700	-72	902	300	2,636	223
November	3,001	749	47	1,013	344	2,347	224
December	2,852	762	-298	1,049	386	2,478	215
Average	**2,973**	**761**	**24**	**861**	**329**	**2,518**	**215**
1995 January	2,819	563	383	634	324	2,041	227
February	2,914	802	236	722	320	2,438	234
March	2,797	669	-8	873	329	2,273	234
April	2,843	699	-106	1,008	355	2,283	231
May	2,955	592	-72	780	339	2,501	228
5-Month Average	**2,865**	**662**	**85**	**804**	**334**	**2,305**	**228**
1994 5-Month Average	**2,855**	**790**	**129**	**835**	**286**	**2,396**	**225**
1993 5-Month Average	**2,955**	**783**	**233**	**980**	**283**	**2,241**	**242**

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

[b] Stocks are totals as of end of period.

[c] See Note 4 at end of section.

[d] See Note 6 at end of section.

[e] Beginning in 1993, other petroleum products production, exports, and products supplied include an adjustment to oxygenates and motor gasoline blending components.

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

Notes: • Other petroleum products include pentanes plus, other 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*, July 1995, Table S10.

Petroleum Notes

1. 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 above-mentioned adjustment.

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

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:

- Liquefied Petroleum Gases: 1983—108.
- Propane and Propylene: 1983—55.
- Other Petroleum Products: 1983—210.

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

Section 4. Natural Gas

Total dry natural gas production in the United States during May 1995 was an estimated 1.6 trillion cubic feet, less than 1 percent[4] higher than production during the previous May.

Consumption of natural and supplemental gas in May 1995 was 1.5 trillion cubic feet, 5 percent above the level in May 1994.

Deliveries to residential consumers in April 1995 (latest date for which data are available) were 421 billion cubic feet, 7 percent above the previous April's deliveries. Total deliveries to industrial customers during April 1995 were 734 billion cublic feet, 13 percent higher than the previous April's level.

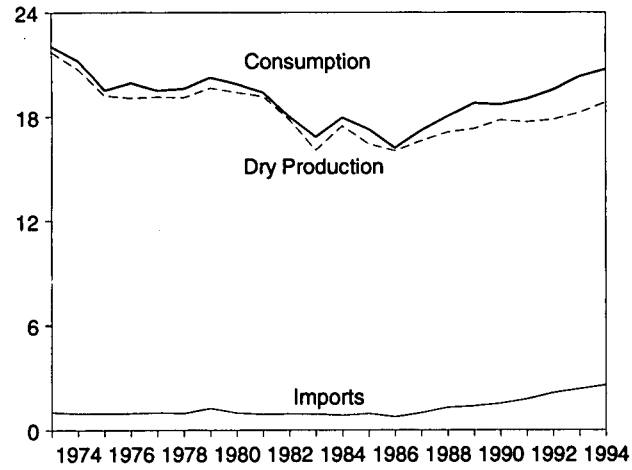
Imports of natural gas in May 1995 were 248 billion cubic feet, 20 percent higher than imports in the previous May.

Stocks of working gas[5] in underground natural gas storage reservoirs at the end of May 1995 totaled 1.7 trillion cubic feet, 7 percent above the level of stocks available 1 year earlier. Net injections into storage during May 1995 were 318 billion cubic feet, 19 percent below the amount of net injections during the previous May.

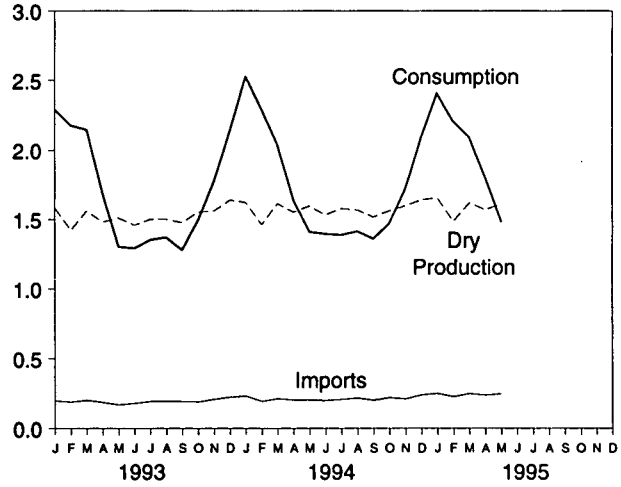
[4]Percentage changes are based on unrounded data.
[5]Gas available for withdrawal.

Figure 4.1 Natural Gas
(Trillion Cubic Feet)

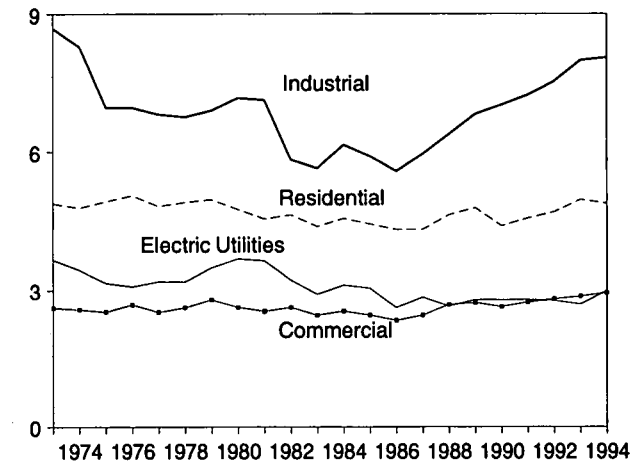
Overview, 1973-1994



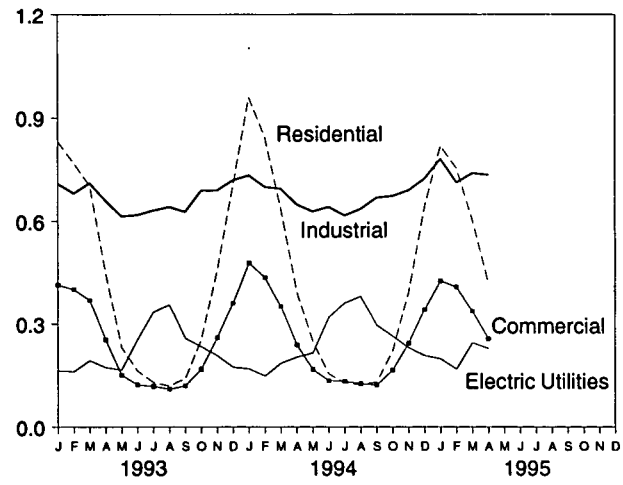
Overview, Monthly



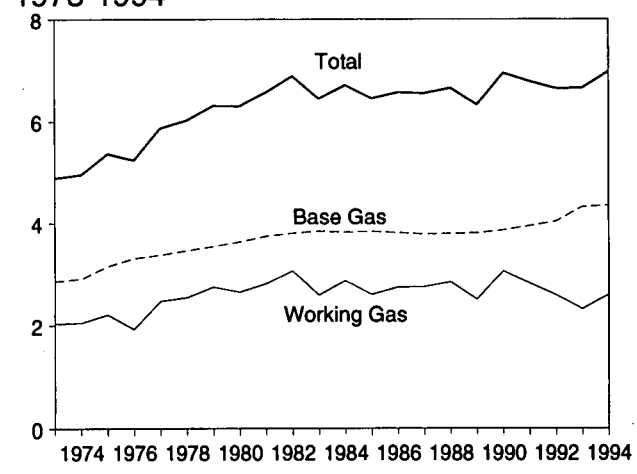
Consumption by Sector, 1973-1994



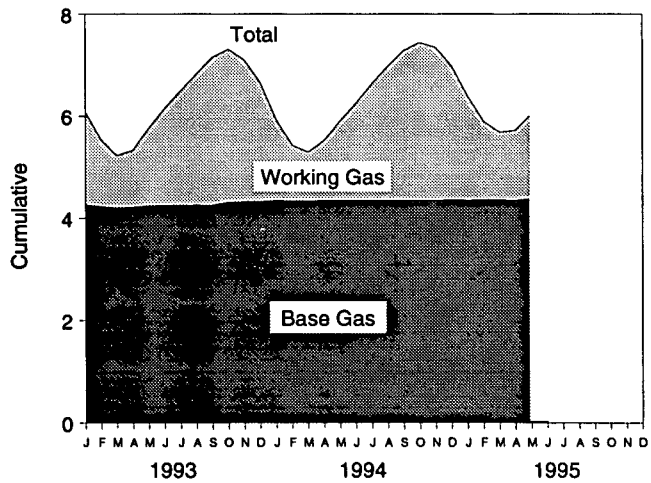
Consumption by Sector, Monthly



Underground Storage, End of Year, 1973-1994



Underground Storage, End of Month



Note: Because vertical scales differ, graphs should not be compared.
Sources: Tables 4.2, 4.4, and 4.5.

Table 4.1 Natural Gas Production

(Billion Cubic Feet)

	Gross Withdrawals[a]	Repressuring[b]	Nonhydrocarbon Gases Removed[c]	Vented and Flared[d]	Marketed Production (Wet)[e]	Extraction Loss[f]	Total Dry Gas Production[g]
1973 Total	**24,067**	**1,171**	**NA**	**248**	**[h] 22,648**	**917**	**[h] 21,731**
1974 Total	**22,850**	**1,080**	**NA**	**169**	**[h] 21,601**	**887**	**[h] 20,713**
1975 Total	**21,104**	**861**	**NA**	**134**	**[h] 20,109**	**872**	**[h] 19,236**
1976 Total	**20,944**	**859**	**NA**	**132**	**[h] 19,952**	**854**	**[h] 19,098**
1977 Total	**21,097**	**935**	**NA**	**137**	**[h] 20,025**	**863**	**[h] 19,163**
1978 Total	**21,309**	**1,181**	**NA**	**153**	**[h] 19,974**	**852**	**[h] 19,122**
1979 Total	**21,883**	**1,245**	**NA**	**167**	**[h] 20,471**	**808**	**[h] 19,663**
1980 Total	**21,870**	**1,365**	**199**	**125**	**20,180**	**777**	**19,403**
1981 Total	**21,587**	**1,312**	**222**	**98**	**19,956**	**775**	**19,181**
1982 Total	**20,272**	**1,388**	**208**	**93**	**18,582**	**762**	**17,820**
1983 Total	**18,659**	**1,458**	**222**	**95**	**16,884**	**790**	**16,094**
1984 Total	**20,267**	**1,630**	**224**	**108**	**18,304**	**838**	**17,466**
1985 Total	**19,607**	**1,915**	**326**	**95**	**17,270**	**816**	**16,454**
1986 Total	**19,131**	**1,838**	**337**	**98**	**16,859**	**800**	**16,059**
1987 Total	**20,140**	**2,208**	**376**	**124**	**17,433**	**812**	**16,621**
1988 Total	**20,999**	**2,478**	**460**	**143**	**17,918**	**816**	**17,103**
1989 Total	**21,074**	**2,475**	**362**	**142**	**18,095**	**785**	**17,311**
1990 Total	**21,523**	**2,489**	**289**	**150**	**18,594**	**784**	**17,810**
1991 Total	**21,750**	**2,772**	**276**	**170**	**18,532**	**835**	**17,698**
1992 Total	**22,132**	**2,973**	**280**	**168**	**18,712**	**872**	**17,840**
1993 January	1,965	261	35	10	1,658	77	1,581
February	1,767	235	31	11	1,490	69	1,421
March	1,943	262	35	9	1,637	76	1,561
April	1,843	247	33	9	1,553	72	1,481
May	1,879	252	35	9	1,584	73	1,511
June	1,795	229	27	11	1,527	71	1,457
July	1,851	232	36	9	1,573	73	1,501
August	1,871	250	37	9	1,575	73	1,502
September	1,832	240	35	10	1,548	72	1,476
October	1,951	277	36	10	1,628	75	1,552
November	1,967	285	36	8	1,637	76	1,561
December	2,064	299	37	10	1,719	80	1,639
Total	**22,729**	**3,069**	**414**	**116**	**19,130**	**886**	**18,244**
1994 January	2,045	300	33	9	1,702	79	1,623
February	1,843	270	30	8	1,534	71	1,462
March	2,037	300	35	9	1,693	79	1,614
April	1,943	274	33	9	1,627	76	1,552
May	[R] 2,004	[R] 285	34	9	[R] 1,676	78	[R] 1,598
June	[R] 1,904	261	27	9	[R] 1,606	75	[R] 1,531
July	1,965	269	30	10	1,656	77	1,579
August	1,951	267	28	10	1,645	77	1,568
September	1,890	262	29	10	1,590	74	1,516
October	1,987	308	30	10	1,638	76	1,562
November	2,014	296	30	10	1,677	78	1,599
December	2,096	336	30	10	1,720	80	1,640
Total	**[R] 23,678**	**[R] 3,428**	**369**	**115**	**19,766**	**921**	**18,845**
1995 January	[R] 2,105	[R] 327	32	10	[R] 1,736	81	[R] 1,655
February	[R] 1,896	[R] 301	[R] 28	9	[R] 1,557	73	[R] 1,485
March	[R] 2,055	[R] 315	31	10	[R] 1,700	79	[R] 1,620
April	[E] 2,003	[E] 315	[E] 30	[E] 10	[E] 1,648	[E] 77	[E] 1,571
May	[E] 2,054	[E] 321	[E] 31	[E] 10	[E] 1,692	[E] 79	[E] 1,613
5-Month Total	**[E] 10,112**	**[E] 1,579**	**[E] 152**	**[E] 48**	**[E] 8,333**	**[E] 388**	**[E] 7,944**
1994 5-Month Total	**9,872**	**1,429**	**164**	**45**	**8,233**	**384**	**7,849**
1993 5-Month Total	**9,398**	**1,258**	**169**	**49**	**7,922**	**367**	**7,555**

[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.

[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.

[g] "Marketed Production (Wet)" minus "Extraction Loss."

[h] May include unknown quantities of nonhydrocarbon gases.

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

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

Sources: • **1973-1986:** Energy Information Administration (EIA), *Natural Gas Annual 1991*, Table 95. • **1987 forward:** EIA, *Natural Gas Monthly*, July 1995, Table 1.

Table 4.2 Natural Gas Supply and Disposition

(Billion Cubic Feet)

	Supply						Disposition		
	Total Dry Gas Production	Withdrawals from Storage[a]	Supplemental Gaseous Fuels[b]	Imports[c]	Balancing Item[b]	Total Supply/ Disposition[d]	Additions to Storage[a]	Exports[c]	Consumption[b]
1973 Total	[e] 21,731	1,533	NA	1,033	-196	24,101	1,974	77	22,049
1974 Total	[e] 20,713	1,701	NA	959	-289	23,084	1,784	77	21,223
1975 Total	[e] 19,236	1,760	NA	953	-235	21,714	2,104	73	19,538
1976 Total	[e] 19,098	1,921	NA	964	-216	21,767	1,756	65	19,946
1977 Total	[e] 19,163	1,750	NA	1,011	-41	21,883	2,307	56	19,521
1978 Total	[e] 19,122	2,158	NA	966	-287	21,958	2,278	53	19,627
1979 Total	[e] 19,663	2,047	NA	1,253	-372	22,591	2,295	56	20,241
1980 Total	19,403	1,972	155	985	-640	21,875	1,949	49	19,877
1981 Total	19,181	1,930	176	904	-500	21,691	2,228	59	19,404
1982 Total	17,820	2,164	145	933	-537	20,525	2,472	52	18,001
1983 Total	16,094	2,270	132	918	[f] -703	18,712	1,822	55	16,835
1984 Total	17,466	2,098	110	843	[f] -217	20,300	2,295	55	17,951
1985 Total	16,454	2,397	126	950	-428	19,499	2,163	55	17,281
1986 Total	16,059	1,837	113	750	-493	18,266	1,984	61	16,221
1987 Total	16,621	1,905	101	993	-444	19,176	1,911	54	17,211
1988 Total	17,103	2,270	101	1,294	-453	20,315	2,211	74	18,030
1989 Total	17,311	2,854	107	1,382	-218	21,435	2,528	107	18,801
1990 Total	17,810	1,986	123	1,532	-149	21,302	2,499	86	18,716
1991 Total	17,698	2,752	113	1,773	-500	21,836	2,672	129	19,035
1992 Total	17,840	2,772	118	2,138	-508	22,360	2,599	216	19,544
1993 January	1,581	614	13	200	-63	2,346	37	17	2,292
February	1,421	591	11	191	-5	2,209	22	12	2,175
March	1,561	395	12	204	69	2,241	79	16	2,146
April	1,481	103	10	189	129	1,912	216	11	1,685
May	1,511	30	7	171	66	1,786	471	11	1,303
June	1,457	36	9	182	44	1,727	424	11	1,293
July	1,501	35	8	195	24	1,762	398	13	1,352
August	1,502	45	8	197	2	1,755	375	11	1,369
September	1,476	26	8	194	-23	1,681	391	10	1,280
October	1,552	103	10	192	-93	1,764	262	9	1,493
November	1,561	311	11	210	-206	1,887	106	10	1,771
December	1,639	510	13	225	-188	2,198	54	10	2,134
Total	**18,244**	**2,799**	**119**	**2,350**	**-244**	**23,268**	**2,835**	**140**	**20,293**
1994 January	1,623	757	14	233	-58	2,569	33	11	2,526
February	1,462	543	12	195	142	2,355	49	11	2,295
March	1,614	236	11	214	82	2,158	103	19	2,036
April	1,552	68	10	205	91	1,926	280	8	1,638
May	[R] 1,598	25	10	206	[R] -4	1,835	417	9	1,409
June	[R] 1,531	33	9	200	[R] 7	[R] 1,780	375	12	1,393
July	1,579	24	10	209	-23	1,799	403	11	1,386
August	1,568	29	9	218	-35	1,790	364	14	1,412
September	1,516	21	10	203	-42	1,707	335	14	1,358
October	1,562	53	10	221	-147	1,700	215	13	1,472
November	1,599	196	11	212	-186	1,833	98	19	1,716
December	1,640	422	13	241	-159	2,157	54	17	2,085
Total	**18,845**	**2,408**	**129**	**2,558**	**-331**	**23,609**	**2,726**	**157**	**20,726**
1995 January	[R] 1,655	619	14	251	[R] -79	2,459	40	12	2,407
February	[R] 1,485	541	12	228	[R] -1	[R] 2,265	43	13	[R] 2,210
March	[R] 1,620	315	12	[R] 250	[R] 11	[R] 2,208	100	13	[R] 2,095
April	[E] 1,571	122	9	[R] 239	[R] 35	[R] 1,976	165	14	[R] 1,798
May	[E] 1,613	30	10	248	-59	1,842	348	11	1,483
5-Month Total	[E] 7,944	1,627	57	1,216	-93	10,750	696	62	9,992
1994 5-Month Total	7,849	1,629	57	1,054	253	10,843	882	58	9,903
1993 5-Month Total	7,555	1,734	53	955	197	10,494	825	68	9,601

[a] Data for 1980-1993 include underground storage and liquefied natural gas storage. All other data include underground storage only. Computation procedures are discussed in Note 8 at end of section.

[b] See Notes at end of section.

[c] See Table 4.3.

[d] Data for 1978 forward do not include in-transit receipts and deliveries.

[e] May include unknown quantities of nonhydrocarbon gases.

[f] See Note 7 at end of section.

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

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

Sources: See end of section.

Table 4.3 Natural Gas Trade by Country

(Billion Cubic Feet)

	Imports				Exports			
	Canada[a]	Algeria[b]	Other[c]	Total	Canada[a]	Mexico[a]	Japan[b]	Total
1973 Total	1,028	3	2	1,033	15	14	48	77
1974 Total	959	0	(s)	959	13	13	50	77
1975 Total	948	5	0	953	10	9	53	73
1976 Total	954	10	0	964	8	7	50	65
1977 Total	997	11	2	1,011	(s)	4	52	56
1978 Total	881	84	0	966	(s)	4	48	53
1979 Total	1,001	253	0	1,253	(s)	4	51	56
1980 Total	797	86	102	985	(s)	4	45	49
1981 Total	762	37	105	904	(s)	3	56	59
1982 Total	783	55	95	933	(s)	2	50	52
1983 Total	712	131	75	918	(s)	2	53	55
1984 Total	755	36	52	843	(s)	2	53	55
1985 Total	926	24	0	950	(s)	2	53	55
1986 Total	749	0	2	750	9	2	50	61
1987 Total	993	0	0	993	3	2	49	54
1988 Total	1,276	17	0	1,294	20	2	52	74
1989 Total	1,339	42	0	1,382	38	17	51	107
1990 Total	1,448	84	0	1,532	17	16	53	86
1991 Total	1,710	64	0	1,773	15	60	54	129
1992 Total	2,094	43	0	2,138	68	96	53	216
1993 January	195	5	0	200	4	8	4	17
February	183	8	0	191	6	2	4	12
March	199	5	0	204	7	4	6	16
April	181	8	0	189	4	3	4	11
May	166	5	0	171	3	4	4	11
June	175	8	0	182	3	4	3	11
July	187	8	0	195	4	4	5	13
August	192	5	0	197	3	3	5	11
September	184	10	0	194	2	2	5	10
October	187	5	0	192	3	2	3	9
November	202	8	0	210	3	2	5	10
December	216	8	2	225	3	1	7	10
Total	2,267	82	2	2,350	45	40	56	140
1994 January	221	10	2	233	4	2	5	11
February	189	5	1	195	6	1	4	11
March	204	8	2	214	12	2	6	19
April	198	8	0	205	4	1	4	8
May	200	5	2	206	3	2	4	9
June	194	5	1	200	5	1	6	12
July	202	8	0	209	3	2	6	11
August	218	0	0	218	1	7	6	14
September	200	3	0	203	1	7	6	14
October	221	0	0	221	2	5	6	13
November	212	0	0	212	4	9	6	19
December	241	0	0	241	3	7	7	17
Total	2,500	51	7	2,558	48	47	63	157
1995 January	248	3	0	251	3	4	6	12
February	225	3	0	228	3	4	6	13
March	R247	3	0	R250	3	4	6	13
April	R239	0	0	R239	3	5	6	14
May	246	3	0	248	3	5	4	11
5-Month Total	1,206	10	0	1,216	15	22	26	62
1994 5-Month Total	1,012	36	6	1,054	28	8	22	58
1993 5-Month Total	924	31	0	955	24	21	23	68

[a] By pipeline, except for very small amounts of liquefied natural gas imported from Canada in 1973, 1977 and 1981. See Note 5 at end of section.

[b] As liquefied natural gas.

[c] Other imports are from Mexico, except for 1986, when they came from Indonesia.

R=Revised data. (s)=Less than 500 million cubic feet.

Notes: • See Note 5 at end of section. • Totals may not equal sum of components due to independent rounding. • U.S. geographic coverage is the 50 States and the District of Columbia.

Sources: • **1973-1987:** Energy Information Administration (EIA), Form FPC-14, "Annual Report for Importers and Exporters of Natural Gas." • **1988 forward:** EIA, *Natural Gas Monthly*, July 1995, Tables 5 and 6.

Table 4.4 Natural Gas Consumption by End-Use Sector

(Billion Cubic Feet)

	Lease and Plant Fuel	Pipeline Fuel[a]	Delivered to Consumers					Total Consumption
			Residential	Commercial[b]	Industrial	Electric Utilities	Total	
1973 Total	**1,496**	**728**	**4,879**	**2,597**	**8,689**	**3,660**	**19,825**	**22,049**
1974 Total	**1,477**	**669**	**4,786**	**2,556**	**8,292**	**3,443**	**19,077**	**21,223**
1975 Total	**1,396**	**583**	**4,924**	**2,508**	**6,968**	**3,158**	**17,558**	**19,538**
1976 Total	**1,634**	**548**	**5,051**	**2,668**	**6,964**	**3,081**	**17,764**	**19,946**
1977 Total	**1,659**	**533**	**4,821**	**2,501**	**6,815**	**3,191**	**17,329**	**19,521**
1978 Total	**1,648**	**530**	**4,903**	**2,601**	**6,757**	**3,188**	**17,449**	**19,627**
1979 Total	**1,499**	**601**	**4,965**	**2,786**	**6,899**	**3,491**	**18,141**	**20,241**
1980 Total	**1,026**	**635**	**4,752**	**2,611**	**7,172**	**3,682**	**18,216**	**19,877**
1981 Total	**928**	**642**	**4,546**	**2,520**	**7,128**	**3,640**	**17,834**	**19,404**
1982 Total	**1,109**	**596**	**4,633**	**2,606**	**5,831**	**3,226**	**16,295**	**18,001**
1983 Total	**978**	**490**	**4,381**	**2,433**	**5,643**	**2,911**	**15,367**	**16,835**
1984 Total	**1,077**	**529**	**4,555**	**2,524**	**6,154**	**3,111**	**16,345**	**17,951**
1985 Total	**966**	**504**	**4,433**	**2,432**	**5,901**	**3,044**	**15,811**	**17,281**
1986 Total	**923**	**485**	**4,314**	**2,318**	**5,579**	**2,602**	**14,814**	**16,221**
1987 Total	**1,149**	**519**	**4,315**	**2,430**	**5,953**	**2,844**	**15,542**	**17,211**
1988 Total	**1,096**	**614**	**4,630**	**2,670**	**6,383**	**2,636**	**16,320**	**18,030**
1989 Total	**1,070**	**629**	**4,781**	**2,718**	**6,816**	**2,787**	**17,102**	**18,801**
1990 Total	**1,236**	**660**	**4,391**	**2,623**	**7,018**	**2,787**	**16,820**	**18,716**
1991 Total	**1,129**	**601**	**4,556**	**2,729**	**7,231**	**2,789**	**17,305**	**19,035**
1992 Total	**1,171**	**588**	**4,690**	**2,803**	**7,527**	**2,766**	**17,786**	**19,544**
1993 January	102	72	831	416	708	164	2,119	2,292
February	92	68	768	403	681	162	2,015	2,175
March	101	67	703	371	710	194	1,978	2,146
April	96	52	450	254	659	174	1,537	1,685
May	98	39	232	152	614	167	1,166	1,303
June	94	39	164	123	618	255	1,160	1,293
July	96	41	130	119	631	334	1,214	1,352
August	97	42	120	111	641	357	1,230	1,369
September	95	39	142	120	627	258	1,146	1,280
October	101	45	255	169	689	235	1,347	1,493
November	102	55	457	260	689	208	1,615	1,771
December	107	66	705	362	719	174	1,961	2,134
Total	**1,180**	**624**	**4,957**	**2,863**	**7,986**	**2,682**	**18,488**	**20,293**
1994 January	107	78	959	479	733	170	2,341	2,526
February	96	71	843	437	699	149	2,128	2,295
March	106	63	635	352	694	186	1,867	2,036
April	102	50	395	239	648	204	1,485	1,638
May	105	43	248	168	628	216	1,261	1,409
June	101	43	155	135	641	319	1,250	1,393
July	104	43	128	133	616	362	1,240	1,386
August	103	43	123	126	635	382	1,266	1,412
September	100	42	131	122	668	296	1,217	1,358
October	103	45	222	166	673	264	1,325	1,472
November	105	53	393	244	689	231	1,558	1,716
December	108	64	641	342	723	208	1,914	2,085
Total	**1,237**	**638**	**4,874**	**2,943**	**8,047**	**2,987**	**18,851**	**20,726**
1995 January	109	74	818	427	780	199	2,224	2,407
February	R97	R68	R753	410	R712	169	R2,044	R2,210
March	106	64	R603	337	739	245	R1,924	R2,095
April	103	55	421	256	734	229	1,639	1,798
4-Month Total	**416**	**262**	**2,595**	**1,430**	**2,966**	**841**	**7,832**	**8,509**
1994 4-Month Total	**410**	**261**	**2,832**	**1,507**	**2,774**	**709**	**7,822**	**8,494**
1993 4-Month Total	**391**	**258**	**2,753**	**1,444**	**2,758**	**694**	**7,649**	**8,298**

[a] Natural gas consumed in the operation of pipelines, primarily in compressors.

[b] Small quantities of natural gas delivered for use as vehicle fuel are included in the 1990-1993 annual totals but not in the monthly data.

R=Revised data.

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: • **1973-1986:** Energy Information Administration (EIA), *Natural Gas Annual 1991*, Table 97. • **1987 forward:** EIA, *Natural Gas Monthly*, July 1995, Table 3.

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	Total[a]	Volume	Percent	Injections[b]	Withdrawals[b]	Net[c]
1973 Total	**2,864**	**2,034**	**4,898**	**305**	**17.6**	**1,974**	**1,533**	**442**
1974 Total	**2,912**	**2,050**	**4,962**	**16**	**.8**	**1,784**	**1,701**	**84**
1975 Total	**3,162**	**2,212**	**5,374**	**162**	**7.9**	**2,104**	**1,760**	**344**
1976 Total	**3,323**	**1,926**	**5,250**	**-286**	**-12.9**	**1,756**	**1,921**	**-165**
1977 Total	**3,391**	**2,475**	**5,866**	**549**	**28.5**	**2,307**	**1,750**	**557**
1978 Total	**3,473**	**2,547**	**6,020**	**72**	**2.9**	**2,278**	**2,158**	**120**
1979 Total	**3,553**	**2,753**	**6,306**	**207**	**8.1**	**2,295**	**2,047**	**248**
1980 Total	**3,642**	**2,655**	**6,297**	**-99**	**-3.6**	**1,896**	**1,910**	**-14**
1981 Total	**3,752**	**2,817**	**6,569**	**162**	**6.1**	**2,180**	**1,887**	**293**
1982 Total	**3,808**	**3,071**	**6,879**	**255**	**9.0**	**2,399**	**2,094**	**306**
1983 Total	**3,847**	**2,595**	**6,442**	**-476**	**-15.5**	**1,700**	**2,142**	**-442**
1984 Total	**3,830**	**2,876**	**6,706**	**281**	**10.8**	**2,252**	**2,064**	**188**
1985 Total	**3,842**	**2,607**	**6,448**	**-270**	**-9.4**	**2,128**	**2,359**	**-231**
1986 Total	**3,819**	**2,749**	**6,567**	**142**	**5.5**	**1,952**	**1,812**	**140**
1987 Total	**3,792**	**2,756**	**6,548**	**7**	**.3**	**1,887**	**1,881**	**6**
1988 Total	**3,800**	**2,850**	**6,650**	**94**	**3.4**	**2,174**	**2,244**	**-69**
1989 Total	**3,812**	**2,513**	**6,325**	**-337**	**-11.8**	**2,491**	**2,804**	**-313**
1990 Total	**3,868**	**3,068**	**6,936**	**555**	**22.1**	**2,433**	**1,934**	**499**
1991 Total	**3,954**	**2,824**	**6,778**	**-244**	**-8.0**	**2,608**	**2,689**	**-80**
1992 Total	**4,044**	**2,597**	**6,641**	**-227**	**-8.0**	**2,555**	**2,724**	**-168**
1993 January	4,259	1,827	6,085	-389	-17.6	37	592	-555
February	4,231	1,303	5,533	-535	-29.1	22	569	-547
March	4,204	1,029	5,233	-516	-33.4	79	383	-304
April	4,219	1,120	5,340	-453	-28.8	212	103	109
May	4,244	1,521	5,765	-327	-17.7	456	30	426
June	4,257	1,895	6,151	-258	-12.0	410	36	374
July	4,256	2,240	6,497	-219	-8.9	385	35	350
August	4,263	2,554	6,817	-207	-7.5	364	45	319
September	4,256	2,884	7,140	-160	-5.3	378	26	353
October	4,315	2,978	7,292	-245	-7.6	256	103	153
November	4,326	2,762	7,088	-292	-9.5	106	303	-197
December	4,327	2,322	6,649	-275	-10.6	54	492	-439
Total	**4,327**	**2,322**	**6,649**	**-275**	**-10.6**	**2,760**	**2,717**	**43**
1994 January	4,348	1,579	5,927	-247	-13.5	33	757	-724
February	4,337	1,091	5,428	-212	-16.3	49	543	-494
March	4,343	958	5,301	-71	-6.9	103	236	-133
April	4,345	1,172	5,517	52	4.6	280	68	212
May	4,352	1,554	5,906	33	2.2	417	25	392
June	4,352	1,896	6,248	2	.1	375	33	342
July	4,355	2,273	6,629	33	1.5	403	24	379
August	4,355	2,607	6,962	53	2.1	364	29	334
September	4,353	2,912	7,265	28	1.0	335	21	313
October	4,354	3,075	7,429	97	3.3	215	53	161
November	4,353	2,978	7,331	216	7.8	98	196	-98
December	4,360	2,606	6,966	284	12.2	54	422	-368
Total	**4,360**	**2,606**	**6,966**	**284**	**12.2**	**2,726**	**2,408**	**317**
1995 January	4,356	2,033	6,389	454	28.7	40	619	-578
February	4,359	1,536	5,895	445	40.8	43	541	-499
March	4,360	1,326	5,686	368	38.4	100	315	-215
April	4,351	1,370	5,721	198	16.9	165	122	43
May	4,384	1,658	6,042	103	6.6	348	30	318

[a] For total underground storage capacity at the end of each calendar year, see Note 8 at end of section.

[b] For 1980-1993, data differ from those shown on Table 4.2, which includes liquefied natural gas storage for that period.

[c] Positive numbers indicate injections are greater than withdrawals. Negative numbers indicate withdrawals are greater than injections. Net injections or withdrawals may not equal the difference between applicable ending stocks. See Note 8 at end of section.

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

Sources: 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) 1992*. 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. Prior to 1985, it also imported natural gas via pipeline from Mexico. Liquefied natural gas (LNG) arrives via tanker from Algeria. One shipment of LNG was received from Indonesia in December 1986. 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 LNG via tanker to Japan.

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.

Monthly underground storage data are collected from the Federal Energy Regulatory Commission (FERC) Forms FERC-8 (interstate data) and 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 1980-1993 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.

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

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

Current capacity is 8,043 billion cubic feet.

Sources for Table 4.2

• **1973-1986: Total Dry Gas Production**—Energy Information Administration (EIA), *Natural Gas Annual 1991,* Table 95. **Withdrawals from Storage, 1973-1975 and 1980-1986**—EIA, *Natural Gas Annual 1991,* Table 96. **Withdrawals from Storage, 1976-1979**-EIA, *Natural Gas Production and Consumption 1979,* Table 1. **Supplemental Gaseous Fuels, 1980-1986**—EIA, *Natural Gas Annual 1990, Volume 2,* Table 12. **Imports, Additions to Storage, Exports, and Consumption**—EIA, *Natural Gas Annual 1991,* Table 96. **Total Supply/Disposition**—Sum of disposition items. **Balancing Item**—Total supply/disposition minus all other supply items.

• **1987 forward:** EIA, *Natural Gas Monthly,* July 1995, Table 2.

Sources for Table 4.5

• **Storage Activity: 1973-1975**—Energy Information Administration (EIA) ***Natural Gas Annual 1990, Volume 2,*** Table 9. **1976-1979**—EIA, *Natural Gas Production and Consumption 1979,* Table 1. **1980-1986**—EIA, *Natural Gas Annual 1990, Volume 2, Table 11.* **1987-1991**—EIA, *Natural Gas Monthly,* February 1995, Table 13. **1992 forward:** Estimated by EIA.

• **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. **1979-1986**—EIA, Form EIA-191, "Underground Gas Storage Report," and FERC, Form FERC-8, "Underground Gas Storage Report." **1987 forward**—EIA, *Natural Gas Monthly,* July 1995, Table 13.

Section 5. Oil and Gas Resource Development

The June 1995 rotary rig count of 674 was 1 percent lower than the count in the previous month and 11 percent lower than the count in June 1994. Of the total number of rigs in operation, 578 were onshore and 96 were offshore. The number of onshore rigs was down 10 percent from the number in June 1994, and the number of offshore rigs was down 15 percent.

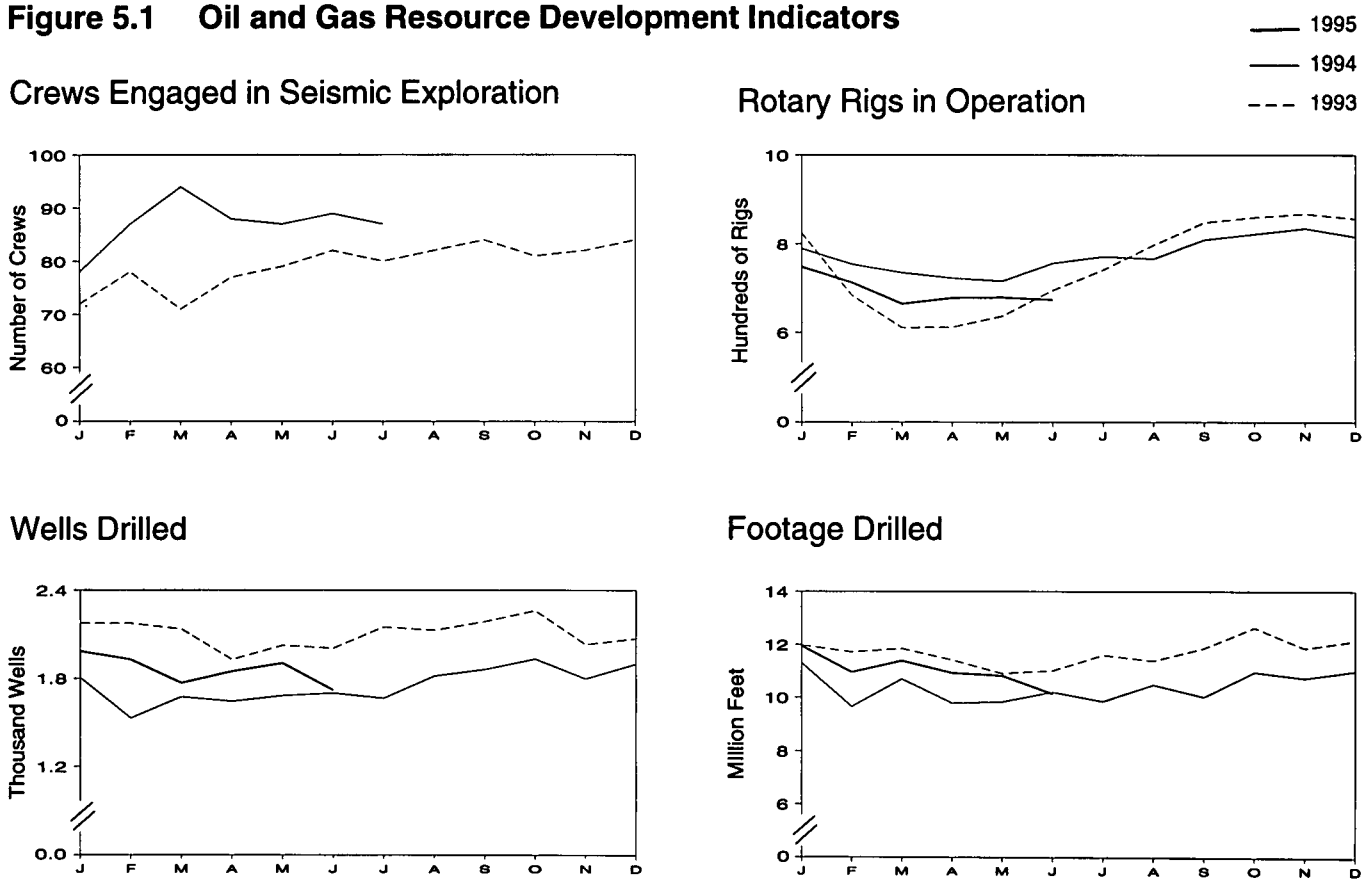
Total footage drilled in June 1995 was 10.14 million feet, down 6 percent from footage drilled in May 1995 and down 1 percent from that drilled in June 1994.

The estimated number of exploratory and development oil and gas wells drilled during June 1995 was 1,259, 9 percent lower than the number drilled in May 1995 and 3 percent higher than the number drilled in June 1994.

The estimated number of oil wells drilled was 568, and the estimated number of gas wells was 691, 11 percent higher and 3 percent lower, respectively, than their June 1994 levels. The estimated number of dry holes drilled in June 1995 was 460, down 13 percent from the number drilled in May 1995 and 3 percent lower than the number drilled in June 1994.

Seismic activity statistics are not available for this month. The Society of Exploration Geophysicists, source of these data, is reorganizing its survey effort.

Figure 5.1 Oil and Gas Resource Development Indicators



Sources: Tables 5.1 and 5.2.

Table 5.1 Oil and Gas Drilling Activity Measurements

	Crews Engaged in Seismic Exploration			Rotary Rigs in Operation[a]					Total Footage Drilled[c]	Active Well Servicing Units[d]
				By Site		By Type				
	Offshore	Onshore	Total	Offshore	Onshore	Oil	Gas	Total[b]		
	Monthly Average			Weekly Average					Thousand Feet	Number
1973 Average	**23**	**227**	**250**	**84**	**1,110**	**NA**	**NA**	**1,194**	**139,427**	**NA**
1974 Average	**31**	**274**	**305**	**94**	**1,378**	**NA**	**NA**	**1,472**	**153,791**	**NA**
1975 Average	**30**	**254**	**284**	**106**	**1,554**	**NA**	**NA**	**1,660**	**181,046**	**NA**
1976 Average	**25**	**237**	**262**	**129**	**1,529**	**NA**	**NA**	**1,658**	**187,291**	**2,601**
1977 Average	**27**	**281**	**308**	**167**	**1,834**	**NA**	**NA**	**2,001**	**215,696**	**2,828**
1978 Average	**25**	**327**	**352**	**185**	**2,074**	**NA**	**NA**	**2,259**	**238,388**	**2,988**
1979 Average	**30**	**370**	**400**	**207**	**1,970**	**NA**	**NA**	**2,177**	**243,686**	**3,399**
1980 Average	**37**	**493**	**530**	**231**	**2,678**	**NA**	**NA**	**2,909**	**312,303**	**4,089**
1981 Average	**44**	**637**	**681**	**256**	**3,714**	**NA**	**NA**	**3,970**	**408,842**	**4,850**
1982 Average	**57**	**531**	**588**	**243**	**2,862**	**NA**	**NA**	**3,105**	**378,437**	**4,248**
1983 Average	**47**	**426**	**473**	**199**	**2,033**	**NA**	**NA**	**2,232**	**318,585**	**3,732**
1984 Average	**49**	**445**	**494**	**213**	**2,215**	**NA**	**NA**	**2,428**	**370,730**	**4,663**
1985 Average	**45**	**333**	**378**	**206**	**1,774**	**NA**	**NA**	**1,980**	**312,569**	**4,716**
1986 Average	**24**	**176**	**200**	**99**	**865**	**NA**	**NA**	**964**	**177,486**	**3,036**
1987 Average	**24**	**153**	**177**	**95**	**841**	**NA**	**NA**	**936**	**161,226**	**3,060**
1988 Average	**29**	**153**	**182**	**123**	**813**	**554**	**354**	**936**	**153,340**	**3,341**
1989 Average	**23**	**109**	**132**	**105**	**764**	**453**	**401**	**869**	**133,383**	**3,391**
1990 Average	**23**	**102**	**125**	**108**	**902**	**532**	**464**	**1,010**	**154,632**	**3,658**
1991 Average	**19**	**85**	**104**	**81**	**779**	**482**	**351**	**860**	**146,383**	**3,331**
1992 Average	**12**	**64**	**76**	**52**	**669**	**373**	**331**	**721**	**124,879**	**2,732**
1993 January	17	55	72	72	752	335	454	824	11,972	2,807
February	15	63	78	69	615	311	334	684	11,720	2,899
March	16	55	71	62	549	315	268	611	11,850	2,829
April	14	63	77	69	543	320	270	612	11,424	2,703
May	15	64	79	73	564	323	294	637	10,915	2,848
June	17	65	82	83	612	350	327	695	R 11,020	3,087
July	15	65	80	85	656	368	360	741	11,603	3,178
August	16	66	82	87	710	397	390	797	11,392	3,423
September	18	66	84	89	759	418	421	848	11,864	3,341
October	15	66	81	93	767	441	411	860	12,637	3,519
November	17	65	82	99	769	453	408	868	11,862	3,604
December	18	66	84	103	754	425	426	857	12,137	3,662
Average	**16**	**63**	**79**	**82**	**672**	**373**	**364**	**754**	**R 140,396**	**3,158**
1994 January	18	60	78	99	690	356	425	789	11,312	3,386
February	18	69	87	95	659	337	405	754	9,655	3,063
March	19	75	94	99	636	323	403	735	10,704	2,977
April	20	68	88	106	617	314	398	723	9,790	2,649
May	22	65	87	104	612	320	382	716	9,839	2,798
June	20	69	89	113	643	331	408	756	R 10,206	2,785
July	23	64	87	107	664	341	415	771	9,855	2,992
August	NA	NA	NA	95	671	320	433	766	10,485	2,941
September	NA	NA	NA	97	712	325	471	809	10,026	3,010
October	NA	NA	NA	99	723	342	467	822	10,968	2,991
November	NA	NA	NA	106	729	361	460	835	10,739	2,977
December	NA	NA	NA	107	709	354	447	816	R 11,002	2,964
Average	**NA**	**NA**	**NA**	**102**	**673**	**335**	**427**	**775**	**R 124,581**	**2,961**
1995 January	NA	NA	NA	106	642	325	411	748	11,948	2,855
February	NA	NA	NA	100	613	326	375	713	10,962	2,877
March	NA	NA	NA	90	575	322	331	665	11,394	2,862
April	NA	NA	NA	91	587	328	336	678	10,935	2,806
May	NA	NA	NA	100	579	325	335	679	10,832	R 3,020
June	NA	NA	NA	96	578	301	352	674	10,141	3,107
6-Month Average	**NA**	**NA**	**NA**	**95**	**584**	**319**	**343**	**679**	**66,212**	**2,921**
1994 6-Month Average	**20**	**68**	**88**	**102**	**643**	**330**	**403**	**745**	**61,506**	**2,950**
1993 6-Month Average	**16**	**61**	**77**	**71**	**604**	**325**	**322**	**675**	**68,901**	**2,823**

[a] Monthly data are averages of 4- or 5-week reporting periods, not calendar months. Annual data are averages of 52- or 53-week reporting periods, not calendar years.
[b] Sum of oil, gas, and miscellaneous other rigs, which is not shown.
[c] Values shown are totals.
[d] See Glossary.
R=Revised data. NA=Not available. E=Estimate.
Note: Geographic coverage is the 50 States and the District of Columbia.

Sources: • **Crews Engaged in Seismic Exploration:** Society of Exploration Geophysicists, Tulsa, Oklahoma, *Monthly Seismic Crew Count.* • **Rotary Rigs in Operation:** Baker Hughes, Inc., Houston, Texas, *Rotary Rigs Running--by State.* • **Total Footage Drilled:** Energy Information Administration computations, which are based on well reports submitted to the American Petroleum Institute by the Petroleum Information Corporation, Denver, Colorado. • **Active Well Servicing Units:** American Association of Oilwell Servicing Contractors, Dallas, Texas, *Well Servicing.*

Table 5.2 Oil and Gas Wells Drilled

(Number of Wells)

	Exploratory				Development				Total			
	Oil	Gas	Dry	Total	Oil	Gas	Dry	Total	Oil	Gas	Dry	Total
1973 Total	**654**	**1,079**	**6,038**	**7,771**	**9,597**	**5,896**	**4,428**	**19,921**	**10,251**	**6,975**	**10,466**	**27,692**
1974 Total	**870**	**1,205**	**6,894**	**8,969**	**12,794**	**5,965**	**5,311**	**24,070**	**13,664**	**7,170**	**12,205**	**33,039**
1975 Total	**991**	**1,263**	**7,207**	**9,461**	**15,988**	**6,907**	**6,529**	**29,424**	**16,979**	**8,170**	**13,736**	**38,885**
1976 Total	**1,100**	**1,362**	**6,854**	**9,316**	**16,597**	**8,076**	**6,951**	**31,624**	**17,697**	**9,438**	**13,805**	**40,940**
1977 Total	**1,183**	**1,562**	**7,402**	**10,147**	**17,517**	**10,557**	**7,634**	**35,708**	**18,700**	**12,119**	**15,036**	**45,855**
1978 Total	**1,191**	**1,792**	**8,054**	**11,037**	**17,874**	**12,613**	**8,537**	**39,024**	**19,065**	**14,405**	**16,591**	**50,061**
1979 Total	**1,335**	**1,920**	**7,478**	**10,733**	**19,368**	**13,250**	**8,560**	**41,178**	**20,703**	**15,170**	**16,038**	**51,911**
1980 Total	**1,781**	**2,094**	**9,035**	**12,910**	**30,497**	**15,129**	**11,302**	**56,928**	**32,278**	**17,223**	**20,337**	**69,838**
1981 Total	**2,667**	**2,533**	**12,297**	**17,497**	**40,176**	**17,374**	**14,987**	**72,537**	**42,843**	**19,907**	**27,284**	**90,034**
1982 Total	**2,470**	**2,168**	**11,346**	**15,984**	**36,672**	**16,776**	**15,036**	**68,484**	**39,142**	**18,944**	**26,382**	**84,468**
1983 Total	**2,113**	**1,660**	**10,271**	**14,044**	**35,086**	**12,896**	**14,065**	**62,047**	**37,199**	**14,556**	**24,336**	**76,091**
1984 Total	**2,335**	**1,599**	**11,482**	**15,416**	**40,250**	**15,413**	**14,315**	**69,978**	**42,585**	**17,012**	**25,797**	**85,394**
1985 Total	**1,879**	**1,282**	**9,445**	**12,606**	**33,142**	**12,970**	**11,763**	**57,875**	**35,021**	**14,252**	**21,208**	**70,481**
1986 Total	**988**	**733**	**5,511**	**7,232**	**17,713**	**7,402**	**7,255**	**32,370**	**18,701**	**8,135**	**12,766**	**39,602**
1987 Total	**859**	**673**	**5,179**	**6,711**	**15,327**	**7,084**	**6,302**	**28,713**	**16,186**	**7,757**	**11,481**	**35,424**
1988 Total	**792**	**663**	**4,766**	**6,221**	**12,530**	**7,575**	**5,476**	**25,581**	**13,322**	**8,238**	**10,242**	**31,802**
1989 Total	**580**	**654**	**4,001**	**5,235**	**9,759**	**8,571**	**4,490**	**22,820**	**10,339**	**9,225**	**8,491**	**28,055**
1990 Total	**628**	**641**	**3,855**	**5,124**	**11,522**	**10,064**	**4,757**	**26,343**	**12,150**	**10,705**	**8,612**	**31,467**
1991 Total	**573**	**R533**	**3,393**	**R4,499**	**11,335**	**R8,919**	**4,521**	**R24,775**	**11,908**	**9,452**	**7,914**	**29,274**
1992 Total	**505**	**R407**	**2,652**	**R3,564**	**8,518**	**R7,666**	**R3,870**	**R20,054**	**9,023**	**8,073**	**R6,522**	**R23,618**
1993 January	47	41	162	250	662	973	290	1,925	709	1,014	452	2,175
February	33	48	177	258	615	971	330	1,916	648	1,019	507	2,174
March	28	34	184	246	677	964	248	1,889	705	998	432	2,135
April	51	30	218	299	615	676	338	1,629	666	706	556	1,928
May	44	43	175	262	636	705	421	1,762	680	748	596	2,024
June	46	35	225	306	R658	689	352	R1,699	R704	724	577	R2,005
July	37	R35	264	R336	716	R607	490	R1,813	753	642	754	2,149
August	30	43	237	310	769	702	346	1,817	799	745	583	2,127
September	38	38	231	307	737	745	397	1,879	775	783	628	2,186
October	46	54	210	310	777	826	348	1,951	823	880	558	2,261
November	37	42	212	291	706	714	320	1,740	743	756	532	2,031
December	42	43	218	303	695	746	327	1,768	737	789	545	2,071
Total	**479**	**R486**	**2,513**	**R3,478**	**R8,263**	**R9,318**	**4,207**	**R21,788**	**R8,742**	**9,804**	**6,720**	**R25,266**
1994 January	50	51	196	297	617	647	243	1,507	667	698	439	1,804
February	28	R38	123	R189	524	R606	209	R1,339	552	644	332	1,528
March	32	62	154	248	517	666	242	1,425	549	728	396	1,673
April	54	52	161	267	489	644	242	1,375	543	696	403	1,642
May	45	42	177	264	436	656	325	1,417	481	698	502	1,681
June	53	49	215	317	458	R666	257	R1,381	511	R715	472	R1,698
July	53	74	177	304	438	679	242	1,359	491	753	419	1,663
August	48	55	201	304	567	666	279	1,512	615	721	480	1,816
September	50	46	197	293	517	781	270	1,568	567	827	467	1,861
October	48	58	182	288	564	795	286	1,645	612	853	468	1,933
November	64	77	200	341	507	712	238	1,457	571	789	438	1,798
December	77	R116	217	R410	R553	R675	R260	R1,488	R630	R791	R477	R1,898
Total	**602**	**R720**	**2,200**	**R3,522**	**R6,187**	**R8,193**	**R3,093**	**R17,473**	**R6,789**	**R8,913**	**R5,293**	**R20,995**
1995 January	85	105	223	413	569	783	219	1,571	654	888	442	1,984
February	79	87	181	347	590	692	299	1,581	669	779	480	1,928
March	R56	R60	R160	R276	R598	R726	R204	R1,528	654	786	R364	R1,804
April	78	82	220	380	583	615	270	1,468	661	697	490	1,848
May	70	83	224	377	576	648	303	1,527	646	731	527	1,904
June	69	74	208	351	499	617	252	1,368	568	691	460	1,719
6-Month Total	**437**	**491**	**1,216**	**2,144**	**3,415**	**4,081**	**1,547**	**9,043**	**3,852**	**4,572**	**2,763**	**11,187**
1994 6-Month Total	**262**	**294**	**1,026**	**1,582**	**3,041**	**3,885**	**1,518**	**8,444**	**3,303**	**4,179**	**2,544**	**10,026**
1993 6-Month Total	**249**	**231**	**1,141**	**1,621**	**3,863**	**4,978**	**1,979**	**10,820**	**4,112**	**5,209**	**3,120**	**12,441**

R=Revised data.

Notes: • Service wells, stratigraphic tests, and core tests are excluded. • Due to the method of estimation, data shown on this page are frequently revised. See end of section. • Geographic coverage is the 50 States and the District of Columbia.

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

Oil and Gas Resource Development Notes

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

Prior to the March 1985 *MER*, drilling statistics consisted of completion data for the above types and classes of wells as reported to the American Petroleum Institute (API) during a given month. Due to time lags between the date of well completion and the date of completion reporting to the API, as-reported well completions proved to be an inaccurate indicator of drilling activity. During 1982, for example, as-reported well completions rose, while the number of actual completions fell. Consequently, the drilling statistics published since the March 1985 *MER* are Energy Information Administration-generated (EIA) estimates produced by statistically imputing well counts and footage based on the partial data available from the API.

Estimates for a given month are first published in the *MER* for that month. Revisions of the "oil," "gas," and "dry" components are made in the 6th, 12th, and 24th subsequent months, as newly reported data allow refinement of the estimates. Unscheduled revisions may also occur when the latest estimate differs by more than 15 percent during the first 5 months, more than 10 percent during the next 6 months, or more than 2 percent thereafter through 5 years. After 5 years, the reported API data are published in lieu of EIA-generated estimates. A comprehensive, one-time reestimation of Total Footage Drilled (Table 5.1) and Oil ad Gas Wells Drilled (Table 5.2) from 1990 through March 1995 was published in the June 1995 *MER*.

Additional information about the EIA estimation methodology may be found in "Estimating Well Completions," the feature article published in the March 1985 *MER*.

Section 6. Coal

Coal production in May 1995 totaled 84 million short tons, 3 percent higher[6] than the rate in May 1994.

Electric utility coal consumption in April 1995 totaled 59 million short tons, 2 percent lower than the consumption level in April 1994.

Electric utility coal stocks were 143 million short tons at the end of April 1995, up 26 percent from the 113 million short tons at the end of April 1994.

Coal exports in April 1995 totaled 7 million short tons, 45 percent higher than exports in April 1994.

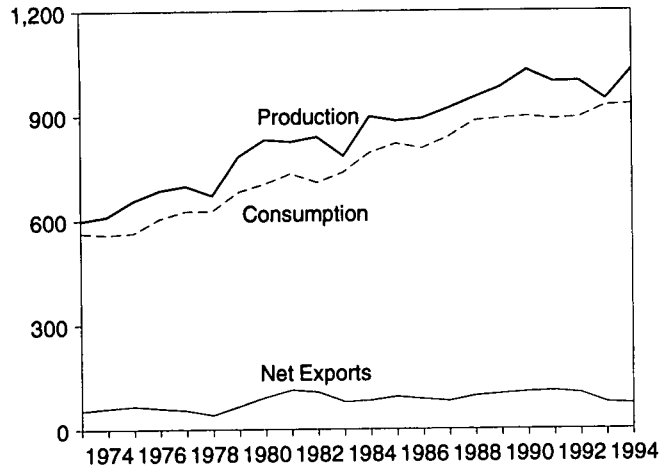
Coal imports in April 1995 totaled 525 thousand short tons, 15 percent higher than imports in April 1994.

[6]Percentage changes are based on unrounded data.

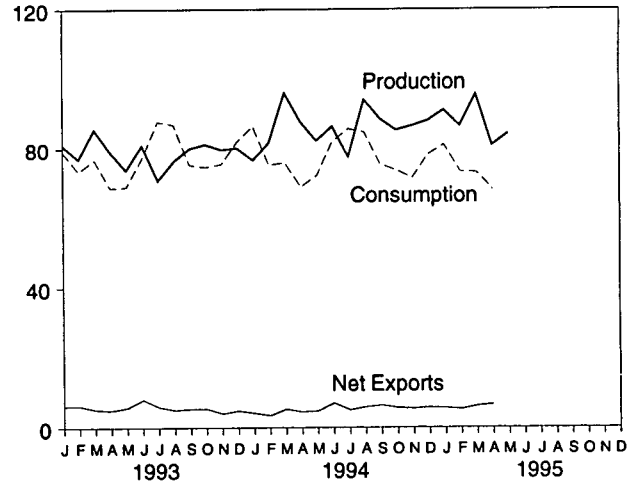
Figure 6.1 Coal

(Million Short Tons)

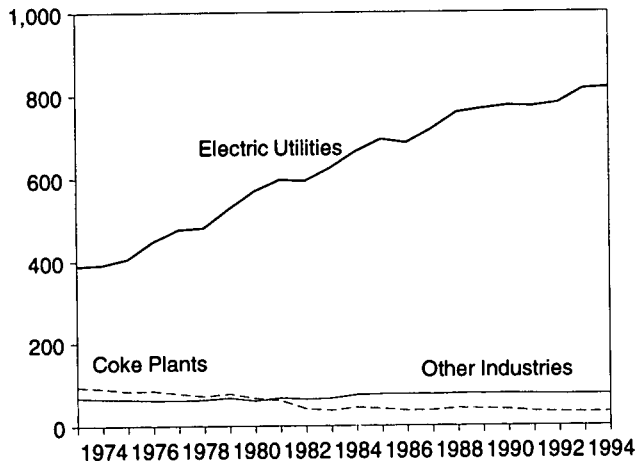
Overview, 1973-1994



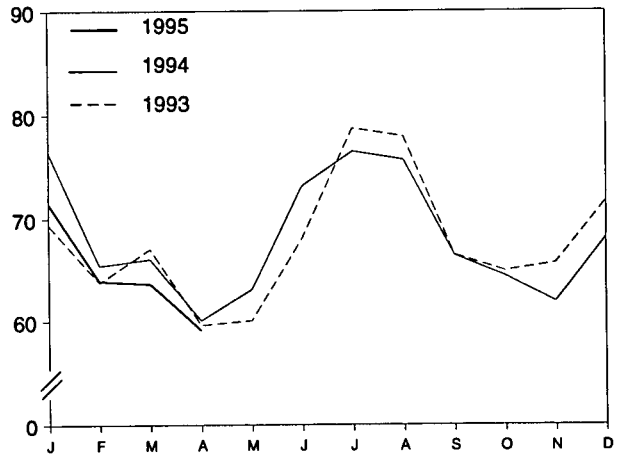
Overview, Monthly



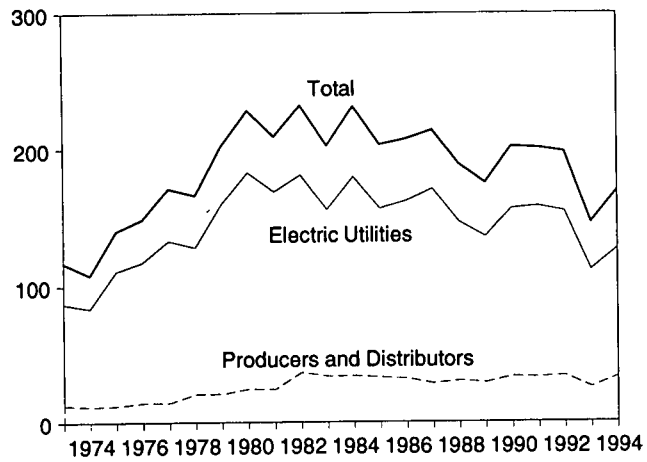
Consumption by Sector, 1973-1994



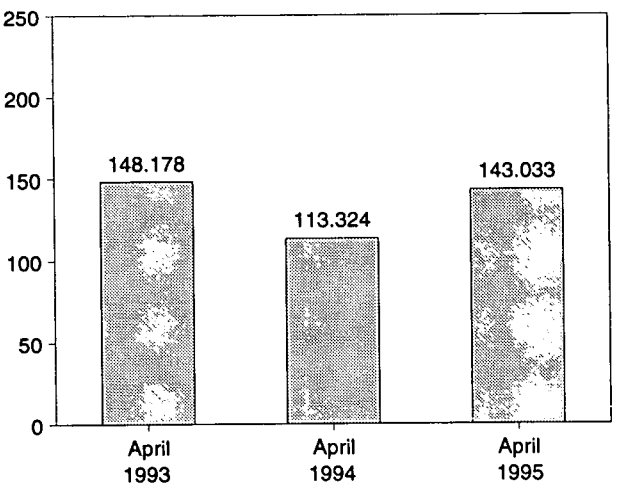
Consumption by Electric Utilities, Monthly



Stocks, End of Year, 1973-1994



Stocks at Electric Utilities, End of Month



Note: Because vertical scales differ, graphs should not be compared.
Sources: Tables 6.1, 6.2, and 6.3.

Table 6.1 Coal Overview

(Thousand Short Tons)

	Production	Consumption	Imports[a]	Exports	Stocks[b]
1973 Total	**598,568**	**562,584**	**127**	**53,587**	**116,865**
1974 Total	**610,023**	**558,402**	**2,080**	**60,661**	**107,957**
1975 Total	**654,641**	**562,640**	**940**	**66,309**	**140,158**
1976 Total	**684,913**	**603,790**	**1,203**	**60,021**	**148,659**
1977 Total	**697,205**	**625,291**	**1,647**	**54,312**	**171,323**
1978 Total	**670,164**	**625,225**	**2,953**	**40,714**	**166,246**
1979 Total	**781,134**	**680,524**	**2,059**	**66,042**	**202,472**
1980 Total	**829,700**	**702,730**	**1,194**	**91,742**	**228,407**
1981 Total	**823,775**	**732,627**	**1,043**	**112,541**	**209,423**
1982 Total	**838,112**	**706,911**	**742**	**106,277**	**232,038**
1983 Total	**782,091**	**736,672**	**1,271**	**77,772**	**202,584**
1984 Total	**895,921**	**791,296**	**1,286**	**81,483**	**231,300**
1985 Total	**883,638**	**818,049**	**1,952**	**92,680**	**203,367**
1986 Total	**890,315**	**804,231**	**2,212**	**85,518**	**207,319**
1987 Total	**918,762**	**836,941**	**1,747**	**79,607**	**213,780**
1988 Total	**950,265**	**883,642**	**2,134**	**95,023**	**188,831**
1989 Total	**980,729**	**889,699**	**2,851**	**100,815**	**175,087**
1990 Total	**1,029,076**	**895,480**	**2,699**	**105,804**	**201,629**
1991 Total	**995,984**	**887,621**	**3,390**	**108,969**	**200,682**
1992 Total	**997,545**	**892,421**	**3,803**	**102,516**	**197,685**
1993 January	80,982	79,116	344	6,506	195,037
February	76,919	73,372	454	6,715	192,442
March	85,516	76,677	415	5,648	191,072
April	79,074	68,719	281	5,268	194,213
May	73,728	68,998	298	6,060	195,654
June	80,948	77,102	514	8,619	189,669
July	70,798	87,695	643	6,573	168,179
August	76,277	86,870	747	5,830	152,790
September	80,056	75,306	753	6,120	149,092
October	81,232	74,635	1,054	6,485	150,745
November	79,720	75,471	970	5,019	151,116
December	80,176	81,981	836	5,677	145,742
Total	**945,424**	**925,944**	**7,309**	**74,519**	**145,742**
1994 January	76,637	R86,432	540	4,731	R134,972
February	81,656	R75,215	753	4,252	R136,693
March	96,087	R75,949	557	5,894	R146,417
April	87,683	R69,007	456	4,976	R155,498
May	82,262	R72,092	550	5,326	R163,660
June	86,367	R82,046	571	7,637	R162,451
July	77,537	R85,644	833	5,882	R152,748
August	94,082	R84,791	731	6,670	R151,381
September	88,518	R75,385	740	7,152	R154,180
October	85,298	R73,799	434	6,110	R158,738
November	86,512	R71,556	601	6,098	R165,592
December	88,009	R78,285	819	6,630	R169,358
Total	**1,030,649**	**R930,201**	**7,584**	**71,359**	**R169,358**
1995 January	91,062	R81,185	530	6,184	R170,609
February	86,459	R73,378	486	5,774	R177,765
March	95,765	R73,241	780	7,029	R185,796
April	80,966	E68,326	525	7,212	E187,789
May	84,334	NA	NA	NA	NA
5-Month Total	**438,587**	**NA**	**NA**	**NA**	**NA**
1994 5-Month Total	**424,326**	**378,695**	**2,856**	**25,180**	**163,660**
1993 5-Month Total	**396,218**	**366,883**	**1,792**	**30,197**	**195,654**

[a] Includes Puerto Rico.

[b] Stocks held by electric utilities, 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.

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

Notes: • Data through 1993 are final. Subsequent data are preliminary. • For methodology used to calculate production, consumption, and stocks, see Notes 1, 2, and 3 at end of section. • Totals may not equal sum of components due to independent rounding. • Geographic coverage is the 50 States and the District of Columbia.

Sources: See end of section.

Table 6.2 Coal Consumption by End-Use Sector

(Thousand Short Tons)

	Residential and Commercial	Industrial		Electric Utilities	Total
		Coke Plants	Other Industrial Including Transportation		
1973 Total	**11,117**	**94,101**	**68,154**	**389,212**	**562,584**
1974 Total	**11,417**	**90,191**	**64,983**	**391,811**	**558,402**
1975 Total	**9,410**	**83,598**	**63,670**	**405,962**	**562,640**
1976 Total	**8,916**	**84,704**	**61,799**	**448,371**	**603,790**
1977 Total	**8,954**	**77,739**	**61,472**	**477,126**	**625,291**
1978 Total	**9,511**	**71,394**	**63,085**	**481,235**	**625,225**
1979 Total	**8,388**	**77,368**	**67,717**	**527,051**	**680,524**
1980 Total	**6,452**	**66,657**	**60,347**	**569,274**	**702,730**
1981 Total	**7,421**	**61,014**	**67,395**	**596,797**	**732,627**
1982 Total	**8,240**	**40,908**	**64,097**	**593,666**	**706,911**
1983 Total	**8,448**	**37,033**	**65,980**	**625,211**	**736,672**
1984 Total	**9,130**	**44,022**	**73,745**	**664,399**	**791,296**
1985 Total	**7,779**	**41,056**	**75,372**	**693,841**	**818,049**
1986 Total	**7,667**	**35,924**	**75,583**	**685,056**	**804,231**
1987 Total	**6,914**	**36,957**	**75,175**	**717,894**	**836,941**
1988 Total	**7,130**	**41,888**	**76,252**	**758,372**	**883,642**
1989 Total	**6,167**	**40,508**	**76,134**	**766,888**	**889,699**
1990 Total	**6,724**	**38,877**	**76,330**	**773,549**	**895,480**
1991 Total	**6,094**	**33,854**	**75,405**	**772,268**	**887,621**
1992 Total	**6,153**	**32,366**	**74,042**	**779,860**	**892,421**
1993 January	662	2,674	6,380	69,400	79,116
February	641	2,468	6,451	63,812	73,372
March	514	2,640	6,450	67,073	76,677
April	613	2,578	5,931	59,596	68,719
May	323	2,719	5,925	60,032	68,998
June	418	2,588	5,978	68,118	77,102
July	424	2,678	5,876	78,717	87,695
August	382	2,664	5,892	77,932	86,870
September	288	2,618	5,907	66,493	75,306
October	386	2,660	6,647	64,941	74,635
November	649	2,447	6,697	65,677	75,471
December	921	2,587	6,757	71,717	81,981
Total	**6,221**	**31,323**	**74,892**	**813,508**	**925,944**
1994 January	854	2,619	R6,598	76,362	R86,432
February	669	2,481	R6,610	65,455	R75,215
March	493	2,654	R6,703	66,098	R75,949
April	455	R2,632	R5,880	60,040	R69,007
May	334	R2,742	R5,931	63,084	R72,092
June	398	R2,591	R5,928	73,130	R82,046
July	456	2,673	R6,027	76,489	R85,644
August	392	2,659	R6,057	75,682	R84,791
September	288	2,613	R6,039	66,445	R75,385
October	337	2,643	R6,371	64,447	R73,799
November	541	2,666	R6,473	61,877	R71,556
December	796	2,767	R6,562	68,161	R78,285
Total	**6,013**	**31,740**	**R75,179**	**817,270**	**R930,201**
1995 January	R638	R2,758	R6,358	71,431	R81,185
February	R572	R2,549	R6,317	63,940	R73,378
March	R428	R2,833	R6,321	63,659	R73,241
April	E626	E2,557	E6,033	59,110	E68,326
4-Month Total	**E2,264**	**E10,697**	**E25,029**	**258,140**	**E296,130**
1994 4-Month Total	**2,471**	**10,386**	**25,791**	**267,955**	**306,603**
1993 4-Month Total	**2,430**	**10,361**	**25,213**	**259,881**	**297,885**

R=Revised data. E=Estimate.

Notes: • For sector-specific reporting and estimating information, see Note 2 at end of section. • Data through 1993 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.

Table 6.3 Coal Stocks, End of Period

(Thousand Short Tons)

	Consumer				Producers and Distributors	Total[a]
	Coke Plants	Other Industrial	Electric Utilities	Total[a]		
1973 Year	**6,998**	**10,370**	**86,967**	**104,335**	**12,530**	**116,865**
1974 Year	**6,209**	**6,605**	**83,509**	**96,323**	**11,634**	**107,957**
1975 Year	**8,797**	**8,529**	**110,724**	**128,050**	**12,108**	**140,158**
1976 Year	**9,902**	**7,100**	**117,436**	**134,438**	**14,221**	**148,659**
1977 Year	**12,816**	**11,063**	**133,219**	**157,098**	**14,225**	**171,323**
1978 Year	**8,278**	**9,048**	**128,225**	**145,551**	**20,695**	**166,246**
1979 Year	**10,155**	**11,777**	**159,714**	**181,646**	**20,826**	**202,472**
1980 Year	**9,067**	**11,951**	**183,010**	**204,028**	**24,379**	**228,407**
1981 Year	**6,475**	**9,906**	**168,893**	**185,274**	**24,149**	**209,423**
1982 Year	**4,642**	**9,479**	**181,132**	**195,254**	**36,784**	**232,038**
1983 Year	**4,346**	**8,710**	**155,598**	**168,654**	**33,931**	**202,584**
1984 Year	**6,166**	**11,317**	**179,727**	**197,211**	**34,090**	**231,300**
1985 Year	**3,420**	**10,438**	**156,376**	**170,234**	**33,133**	**203,367**
1986 Year	**2,992**	**10,429**	**161,806**	**175,226**	**32,093**	**207,319**
1987 Year	**3,884**	**10,777**	**170,797**	**185,459**	**28,321**	**213,780**
1988 Year	**3,137**	**8,768**	**146,507**	**158,413**	**30,418**	**188,831**
1989 Year	**2,864**	**7,363**	**135,860**	**146,087**	**29,000**	**175,087**
1990 Year	**3,329**	**8,716**	**156,166**	**168,210**	**33,418**	**201,629**
1991 Year	**2,773**	**7,061**	**157,876**	**167,711**	**32,971**	**200,682**
1992 Year	**2,597**	**6,965**	**154,130**	**163,692**	**33,993**	**197,685**
1993 January	2,668	6,587	150,302	159,557	35,480	195,037
February	2,739	6,209	146,528	155,476	36,967	192,442
March	2,809	5,831	143,978	152,619	38,453	191,072
April	2,879	5,911	148,178	156,968	37,245	194,213
May	2,949	5,990	150,678	159,618	36,036	195,654
June	3,020	6,070	145,753	154,842	34,827	189,669
July	2,858	6,227	126,815	135,900	32,279	168,179
August	2,697	6,383	113,978	123,058	29,731	152,790
September	2,536	6,540	112,833	121,909	27,183	149,092
October	2,491	6,599	115,105	124,195	26,550	150,745
November	2,446	6,657	116,095	125,199	25,917	151,116
December	**2,401**	**6,716**	**111,341**	**120,458**	**25,284**	**145,742**
1994 January	2,345	[R]6,097	98,294	[R]106,736	28,236	[R]134,972
February	2,289	[R]5,478	97,739	[R]105,506	31,188	[R]136,693
March	2,232	[R]4,859	105,186	[R]112,278	34,139	[R]146,417
April	2,408	[R]5,087	113,324	[R]120,819	34,679	[R]155,498
May	2,583	[R]5,315	120,543	[R]128,442	35,218	[R]163,660
June	2,759	[R]5,543	118,391	[R]126,694	35,758	[R]162,451
July	2,741	[R]5,764	109,419	[R]117,925	34,823	[R]152,748
August	2,724	[R]5,985	108,783	[R]117,492	33,889	[R]151,381
September	2,706	[R]6,206	112,314	[R]121,225	32,955	[R]154,180
October	2,690	[R]6,332	116,673	[R]125,695	33,043	[R]158,738
November	2,673	[R]6,459	123,328	[R]132,461	33,131	[R]165,592
December	**2,657**	[R]**6,585**	**126,897**	[R]**136,139**	**33,219**	[R]**169,358**
1995 January	[R]2,678	[R]6,198	125,475	[R]134,350	[R]36,259	[R]170,609
February	[R]2,698	[R]5,810	129,957	[R]138,465	[R]39,300	[R]177,765
March	[R]2,719	[R]5,422	135,315	[R]143,456	[R]42,340	[R]185,796
April	[E]2,449	[E]7,307	143,033	[E]152,789	[E]35,000	[E]187,789

[a] Excludes stocks held at retail dealers for consumption by the residential and commercial sector.

R=Revised data. E=Estimate.

Notes: • For sector-specific reporting and estimating information, see Note 3 at end of section. • Data through 1993 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.

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 Interstate Commerce Commission. 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. Estimated data for the most recent months (designated by an "E") are derived from forecasted values shown in the EIA *Short-Term Energy Outlook* (DOE/EIA-0202) table titled "Supply and Disposition of Coal: 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, August, 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.

- 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.

- Other Industrial—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. Estimated data for the most recent months (designated by an "E") are derived from forecasted values shown in the EIA *Short-Term Energy Outlook* (DOE/EIA-0202) table titled "Supply and Disposition of Coal: 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, August, and November. The estimates are revised quarterly as collected data become available from the data sources. Sector-specific information follows.

- 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.
- Other Industrial—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: 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."
- Electric Utilities—Monthly stocks data at electric utility plants are taken directly from reported data.
- 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.

4. Imports and Exports: All coal import and export figures are taken directly from data reported monthly by the Bureau of the Census.

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:** 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:** 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 forward**—EIA, Form EIA-6, "Coal Distribution Report, quarterly.
- **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."
- **Other Industrial: 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: 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."

Sources for Table 6.3

• **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."

• **Other Industrial: 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: 1973-September 1977**—DOI, BOM, *Minerals Yearbook* and *Minerals Industry Surveys.* **October 1977 forward**—EIA, Form EI-A759 (formerly Form FPC-4), "Monthly Power Plant Report."

• **Producers and Distributors**: EIA, Form EIA-6, "Coal Distribution Report," quarterly.

Section 7. Electricity

During April 1995, electric utilities generated 217 billion kilowatthours of electricity, 1 percent[7] more than in April 1994. Coal-fired generation totaled 119 billion kilowatthours, 1 percent less than in April 1994. Nuclear generation totaled 49 billion kilowatthours, 14 percent above the level 1 year earlier. Hydroelectric generation totaled 23 billion kilowatthours, 1 percent higher than the April 1994 level. Natural gas-fired generation was 22 billion kilowatthours, 9 percent higher than the April 1994 level. Petroleum-fired generation totaled 3 billion kilowatthours, 57 percent below the level 1 year earlier.

Sales of electricity to all ultimate consumers in the United States in April 1995 were 221 billion kilowatthours, 1 percent higher than sales during April 1994. Sales to industrial consumers totaled 82 billion kilowatthours in April 1995, 3 percent above the level 1 year earlier. Sales to residential consumers during April 1995 were 69 billion kilowatthours, 1 percent lower than the level of sales during the previous year. Commercial sales were 63 billion kilowatthours, 1 percent higher than the level of commercial sales during the previous year. In April 1995, other sales totaled 7 billion kilowatthours, 1 percent higher than the April 1994 level.

Electric utility consumption of coal during April 1995 was 59 million short tons, 2 percent below consumption in April 1994. Petroleum consumption (excluding petroleum coke) during April 1995 was 6 million barrels, 56 percent below the level of consumption in April 1994. During April 1995, electric utilities consumed 229 billion cubic feet of natural gas, 12 percent above the April 1994 consumption level.

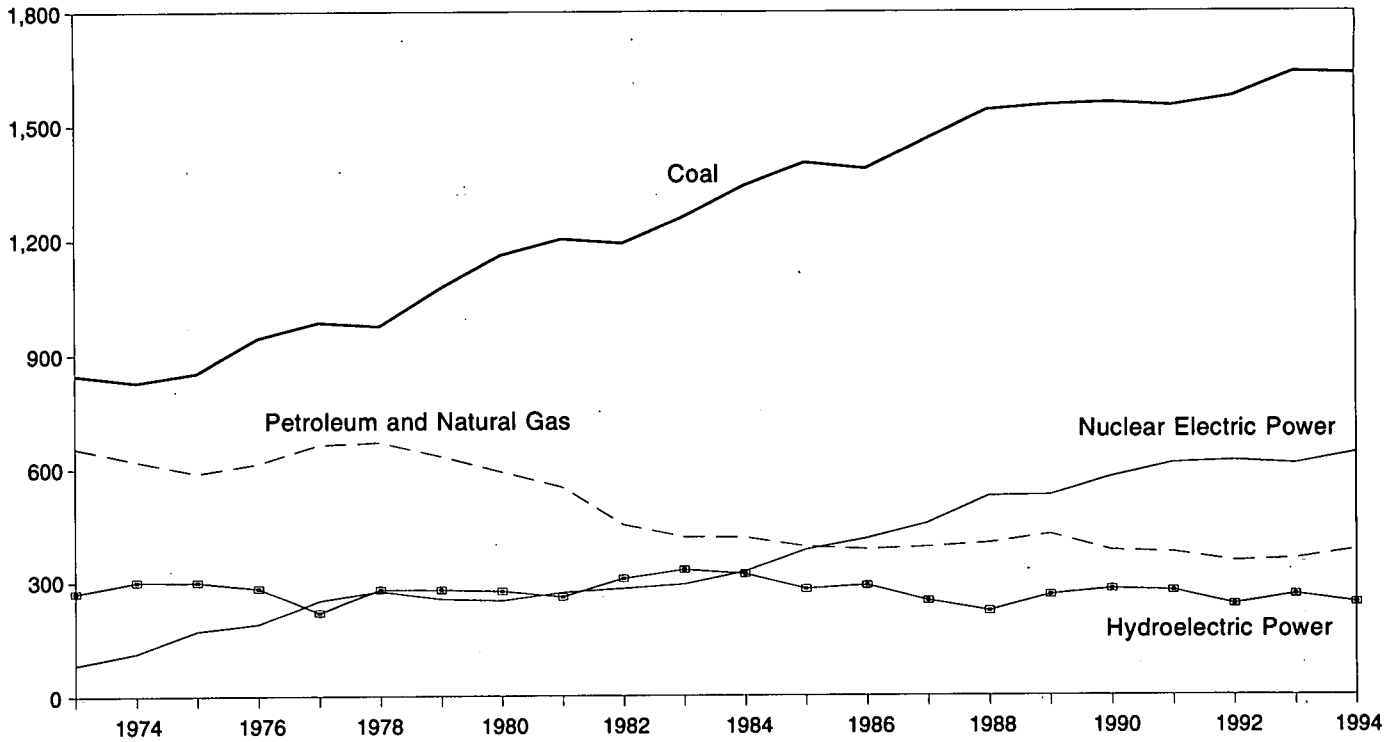
On April 30, 1995, electric utility stocks of all types of coal totaled 143 million short tons, 26 percent above the level on April 30, 1994. Stocks of petroleum (excluding petroleum coke) on April 30, 1995, totaled 54 million barrels, 8 percent below the level on April 30, 1994.

[7]Percentage changes are based on numbers shown in the following tables.

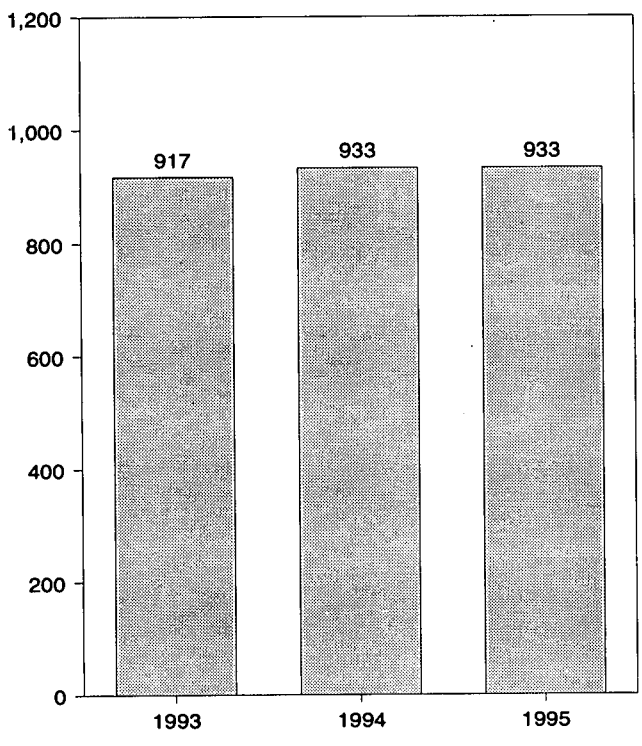
Figure 7.1 Electric Utility Net Generation of Electricity

(Billion Kilowatthours)

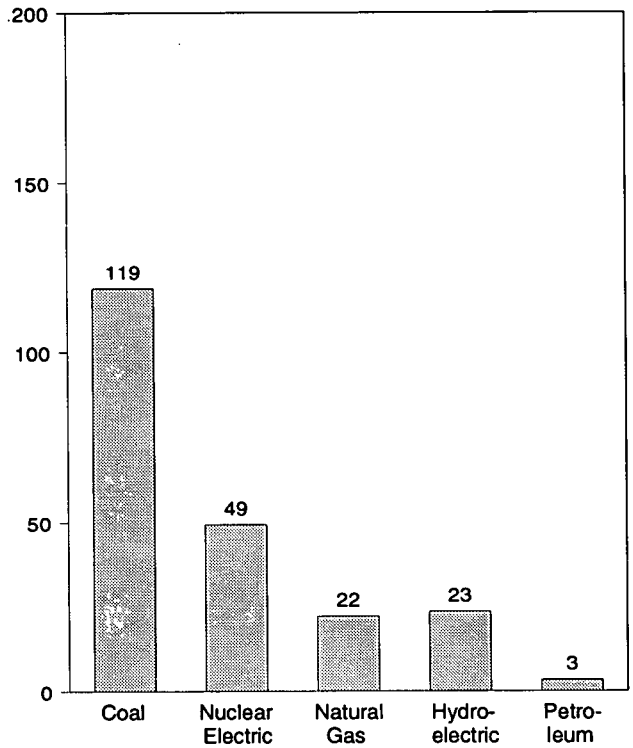
By Source, 1973-1994



Total, January-April



Total by Source, April 1995



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

Table 7.1 Electric Utility Net Generation of Electricity

(Million Kilowatthours)

	Coal	Natural Gas[a]	Petroleum[b]	Nuclear Electric Power	Hydro-Electric Power	Geothermal Energy	Other[c]	Total
1973 Total	**847,651**	**340,858**	**314,343**	**83,479**	**272,083**	**1,966**	**328**	**1,860,710**
1974 Total	**828,433**	**320,065**	**300,931**	**113,976**	**301,032**	**2,453**	**251**	**1,867,140**
1975 Total	**852,786**	**299,778**	**289,095**	**172,505**	**300,047**	**3,246**	**191**	**1,917,649**
1976 Total	**944,391**	**294,624**	**319,988**	**191,104**	**283,707**	**3,616**	**266**	**2,037,696**
1977 Total	**985,219**	**305,505**	**358,179**	**250,883**	**220,475**	**3,582**	**481**	**2,124,323**
1978 Total	**975,742**	**305,391**	**365,060**	**276,403**	**280,419**	**2,978**	**338**	**2,206,331**
1979 Total	**1,075,037**	**329,485**	**303,525**	**255,155**	**279,783**	**3,889**	**498**	**2,247,372**
1980 Total	**1,161,562**	**346,240**	**245,994**	**251,116**	**276,021**	**5,073**	**433**	**2,286,439**
1981 Total	**1,203,203**	**345,777**	**206,421**	**272,674**	**260,684**	**5,686**	**368**	**2,294,812**
1982 Total	**1,192,004**	**305,260**	**146,797**	**282,773**	**309,213**	**4,843**	**321**	**2,241,211**
1983 Total	**1,259,424**	**274,098**	**144,499**	**293,677**	**332,130**	**6,075**	**381**	**2,310,285**
1984 Total	**1,341,681**	**297,394**	**119,808**	**327,634**	**321,150**	**7,741**	**898**	**2,416,304**
1985 Total	**1,402,128**	**291,946**	**100,202**	**383,691**	**281,149**	**9,325**	**1,399**	**2,469,841**
1986 Total	**1,385,831**	**248,508**	**136,585**	**414,038**	**290,844**	**10,308**	**1,195**	**2,487,310**
1987 Total	**1,463,781**	**272,621**	**118,493**	**455,270**	**249,695**	**10,775**	**1,491**	**2,572,127**
1988 Total	**1,540,653**	**252,801**	**148,900**	**526,973**	**222,940**	**10,300**	**1,684**	**2,704,250**
1989 Total	**1,553,661**	**266,598**	**158,318**	**529,355**	**265,063**	**9,342**	**1,968**	**2,784,304**
1990 Total	**1,559,606**	**264,089**	**117,017**	**576,862**	**279,926**	**8,581**	**2,070**	**2,808,151**
1991 Total	**1,551,167**	**264,172**	**111,463**	**612,565**	**275,519**	**8,087**	**2,050**	**2,825,023**
1992 Total	**1,575,895**	**263,872**	**88,916**	**618,776**	**239,559**	**8,104**	**2,096**	**2,797,219**
1993 January	138,354	15,807	7,239	59,076	24,453	651	202	245,782
February	130,069	15,768	6,939	51,319	19,722	633	167	224,617
March	136,404	18,783	8,569	46,606	23,587	659	193	234,801
April	120,325	16,684	5,205	43,199	25,160	654	148	211,374
May	120,878	15,845	5,267	50,367	29,323	582	135	222,396
June	137,485	24,393	7,809	52,620	26,600	586	139	249,633
July	158,400	31,705	11,341	56,502	23,556	643	144	282,292
August	156,197	34,263	11,975	56,209	19,667	653	167	279,132
September	134,001	24,978	9,759	49,989	17,073	630	173	236,603
October	130,926	22,912	7,659	44,434	16,899	625	174	223,629
November	132,288	20,535	7,479	46,862	17,898	618	174	225,855
December	143,824	17,242	10,299	53,108	21,125	637	178	246,412
Total	**1,639,151**	**258,915**	**99,539**	**610,291**	**265,063**	**7,571**	**1,994**	**2,882,525**
1994 January	152,752	16,847	14,600	56,847	19,843	631	177	261,697
February	131,138	14,523	9,655	49,821	19,146	574	154	225,011
March	133,528	18,177	7,960	48,969	22,161	578	170	231,544
April	119,755	20,235	7,674	43,192	23,219	592	150	214,817
May	126,454	20,676	6,991	48,525	24,329	581	147	227,703
June	147,440	30,744	9,887	51,751	23,360	522	154	263,859
July	152,182	34,857	9,317	59,123	21,938	553	179	278,149
August	151,389	37,195	6,064	60,104	19,119	610	164	274,645
September	132,059	28,803	5,027	55,628	15,431	564	151	237,663
October	129,637	25,936	4,566	50,703	16,368	578	184	227,972
November	123,604	22,774	4,480	55,280	17,858	572	177	224,746
December	135,556	20,348	4,815	60,497	20,919	584	187	242,906
Total	**1,635,493**	**291,115**	**91,039**	**640,440**	**243,693**	**6,941**	**1,992**	**2,910,712**
1995 January	142,412	19,338	4,159	63,342	23,299	408	126	253,085
February	128,917	16,422	7,042	51,858	23,953	296	106	228,594
March	126,978	23,844	3,080	51,880	27,465	326	117	233,689
April	118,787	22,082	3,310	49,321	23,474	282	151	217,408
4-Month Total	**517,095**	**81,686**	**17,592**	**216,401**	**98,191**	**1,312**	**499**	**932,776**
1994 4-Month Total	**537,173**	**69,781**	**39,890**	**198,830**	**84,369**	**2,376**	**650**	**933,070**
1993 4-Month Total	**525,151**	**67,042**	**27,952**	**200,200**	**92,921**	**2,596**	**710**	**916,573**

[a] Includes supplemental gaseous fuel.

[b] Includes fuel oil nos. 1, 2, 4, 5, and 6, crude oil, kerosene, and petroleum coke.

[c] "Other" is electricity produced from biomass fuels, wind, photovoltaic, and solar thermal energy sources connected to electric utility distribution systems.

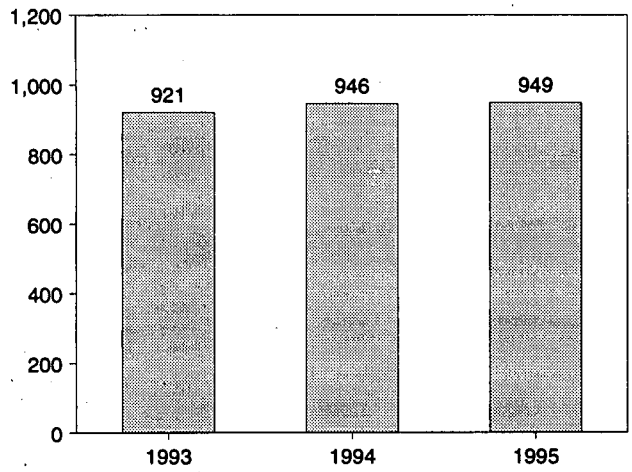
Notes: • Totals may not equal sum of components due to independent rounding. • Geographic coverage is the 50 States and the District of Columbia.

Sources: See end of section.

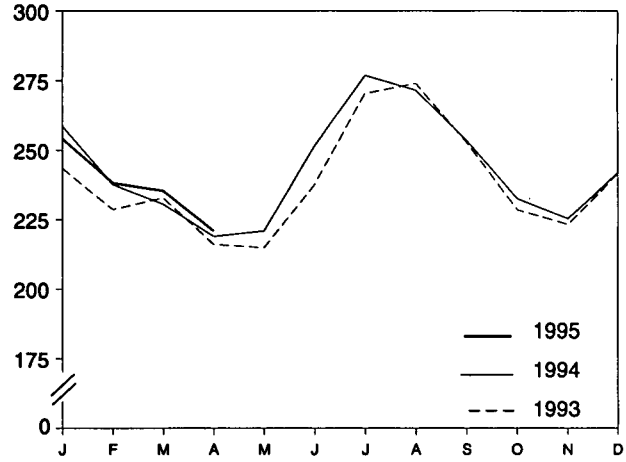
Figure 7.2 Electric Utility Retail Sales of Electricity

(Billion Kilowatthours)

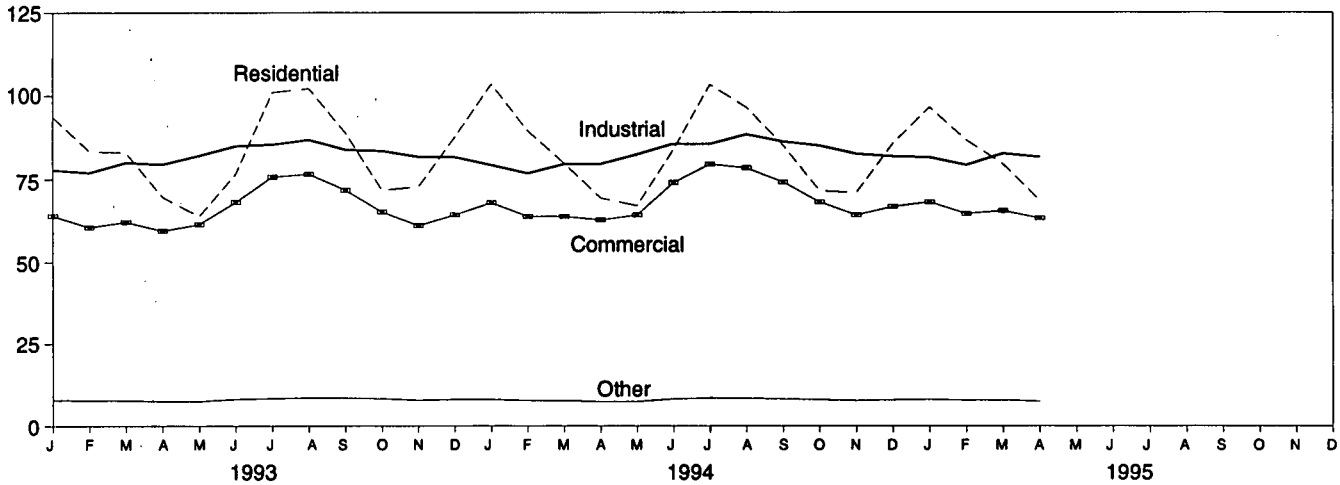
Total, January-April



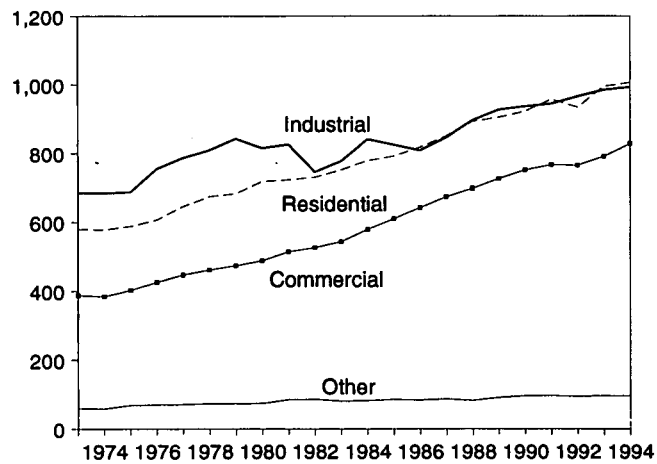
Total, Monthly



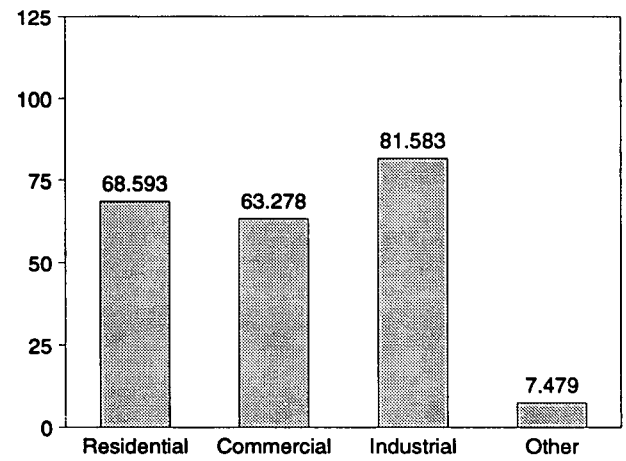
By Sector, Monthly



By Sector, 1973-1994



By Sector, April 1995



Note: Because vertical scales differ, graphs should not be compared.
Source: Table 7.2, Monthly Series.

Table 7.2 Electric Utility Retail Sales of Electricity by End-Use Sector

(Million Kilowatthours)

	Residential		Commercial		Industrial		Other[a]		Total	
	Monthly Series[b]	Annual Series	Monthly Series[b]	Annual Series	Monthly Series[b]	Annual Series	Monthly Series[b]	Annual Series	Monthly Series[b]	Annual Series
1973 Total	**579,231**	**NA**	**388,266**	**NA**	**686,085**	**NA**	**59,326**	**NA**	**1,712,909**	**NA**
1974 Total	**578,184**	**NA**	**384,826**	**NA**	**684,875**	**NA**	**58,039**	**NA**	**1,705,924**	**NA**
1975 Total	**588,140**	**NA**	**403,049**	**NA**	**687,680**	**NA**	**68,222**	**NA**	**1,747,091**	**NA**
1976 Total	**606,452**	**NA**	**425,094**	**NA**	**754,069**	**NA**	**69,631**	**NA**	**1,855,246**	**NA**
1977 Total	**645,239**	**NA**	**446,514**	**NA**	**786,037**	**NA**	**70,571**	**NA**	**1,948,361**	**NA**
1978 Total	**674,466**	**NA**	**461,163**	**NA**	**809,078**	**NA**	**73,215**	**NA**	**2,017,922**	**NA**
1979 Total	**682,819**	**NA**	**473,307**	**NA**	**841,903**	**NA**	**73,070**	**NA**	**2,071,099**	**NA**
1980 Total	**717,495**	**NA**	**488,155**	**NA**	**815,067**	**NA**	**73,732**	**NA**	**2,094,449**	**NA**
1981 Total	**722,265**	**NA**	**514,338**	**NA**	**825,743**	**NA**	**84,756**	**NA**	**2,147,103**	**NA**
1982 Total	**729,520**	**NA**	**526,397**	**NA**	**744,949**	**NA**	**85,575**	**NA**	**2,086,441**	**NA**
1983 Total	**750,948**	**NA**	**543,788**	**NA**	**775,999**	**NA**	**80,219**	**NA**	**2,150,955**	**NA**
1984 Total	**777,654**	**780,092**	**578,281**	**582,621**	**840,588**	**837,836**	**81,849**	**85,248**	**2,278,372**	**2,285,796**
1985 Total	**790,977**	**793,934**	**608,968**	**605,989**	**824,523**	**836,772**	**85,075**	**87,279**	**2,309,543**	**2,323,974**
1986 Total	**817,663**	**819,088**	**641,469**	**630,520**	**808,292**	**830,531**	**83,409**	**88,615**	**2,350,835**	**2,368,753**
1987 Total	**849,613**	**850,410**	**673,707**	**660,433**	**845,266**	**858,233**	**86,854**	**88,196**	**2,455,440**	**2,457,272**
1988 Total	**892,125**	**892,866**	**697,711**	**699,100**	**895,751**	**896,498**	**82,362**	**89,598**	**2,567,949**	**2,578,062**
1989 Total	**903,979**	**905,525**	**725,229**	**725,861**	**926,376**	**925,659**	**91,066**	**89,765**	**2,646,651**	**2,646,809**
1990 Total	**921,473**	**924,019**	**750,835**	**751,027**	**936,428**	**945,522**	**95,936**	**91,988**	**2,704,672**	**2,712,555**
1991 Total	**957,801**	**955,417**	**765,476**	**765,664**	**944,684**	**946,583**	**96,513**	**94,339**	**2,764,474**	**2,762,003**
1992 Total	**934,044**	**935,939**	**763,664**	**761,271**	**965,356**	**972,714**	**94,003**	**93,442**	**2,757,067**	**2,763,365**
1993 January	93,740	–	63,998	–	77,832	–	7,930	–	243,499	–
February	83,376	–	60,609	–	77,008	–	7,752	–	228,745	–
March	83,023	–	62,169	–	80,028	–	7,734	–	232,954	–
April	69,669	–	59,479	–	79,465	–	7,511	–	216,123	–
May	63,852	–	61,430	–	82,090	–	7,496	–	214,868	–
June	76,555	–	68,107	–	84,887	–	8,088	–	237,637	–
July	101,026	–	75,706	–	85,371	–	8,351	–	270,454	–
August	102,181	–	76,533	–	86,814	–	8,551	–	274,080	–
September	88,884	–	71,734	–	83,804	–	8,525	–	252,948	–
October	71,731	–	65,180	–	83,443	–	8,271	–	228,625	–
November	72,687	–	61,023	–	81,738	–	7,795	–	223,244	–
December	87,656	–	64,257	–	81,632	–	8,059	–	241,604	–
Total	**994,380**	**994,781**	**790,225**	**794,573**	**984,111**	**977,164**	**96,065**	**94,944**	**2,864,782**	**2,861,462**
1994 January	103,502	–	67,928	–	79,231	–	8,046	–	258,706	–
February	89,432	–	63,815	–	76,758	–	7,746	–	237,750	–
March	79,708	–	63,786	–	79,494	–	7,676	–	230,664	–
April	69,318	–	62,713	–	79,556	–	7,389	–	218,976	–
May	66,991	–	64,174	–	82,362	–	7,403	–	220,931	–
June	83,868	–	73,936	–	85,553	–	8,214	–	251,570	–
July	103,327	–	79,470	–	85,517	–	8,530	–	276,844	–
August	96,486	–	78,336	–	88,378	–	8,441	–	271,641	–
September	85,122	–	74,120	–	86,257	–	8,220	–	253,720	–
October	71,511	–	68,107	–	84,979	–	8,004	–	232,602	–
November	70,901	–	64,226	–	82,534	–	7,728	–	225,388	–
December	85,637	–	66,698	–	81,803	–	7,929	–	242,068	–
Total	**1,005,804**	**NA**	**827,309**	**NA**	**992,422**	**NA**	**95,326**	**NA**	**2,920,860**	**NA**
1995 January	96,576	–	68,089	–	81,499	–	8,061	–	254,226	–
February	86,648	–	64,616	–	79,214	–	7,809	–	238,286	–
March	79,503	–	65,482	–	82,624	–	7,924	–	235,533	–
April	68,593	–	63,278	–	81,583	–	7,479	–	220,933	–
4-Month Total	**331,319**	**–**	**261,465**	**–**	**324,920**	**–**	**31,274**	**–**	**948,978**	**–**
1994 4-Month Total	**341,960**	**–**	**258,241**	**–**	**315,039**	**–**	**30,857**	**–**	**946,097**	**–**
1993 4-Month Total	**329,808**	**–**	**246,254**	**–**	**314,332**	**–**	**30,927**	**–**	**921,322**	**–**

[a] "Other" is public street and highway lighting, other sales to public authorities, sales to railroads and railways, and interdepartmental sales.

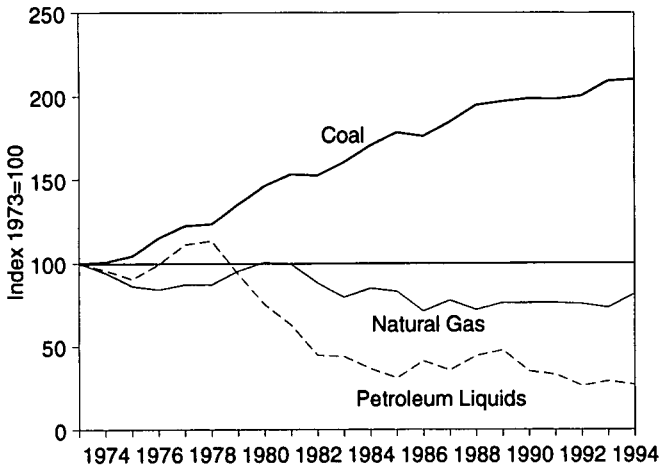
[b] Annual totals are the sums of the monthly values.

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

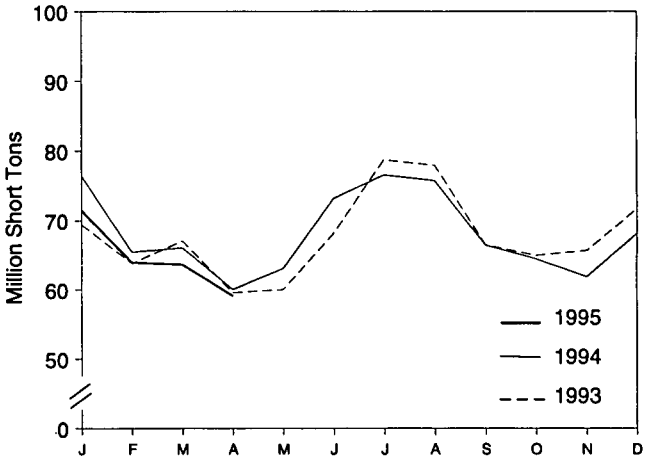
Sources: See end of section.

Figure 7.3 Electric Utility Consumption and Stocks of Fossil Fuels

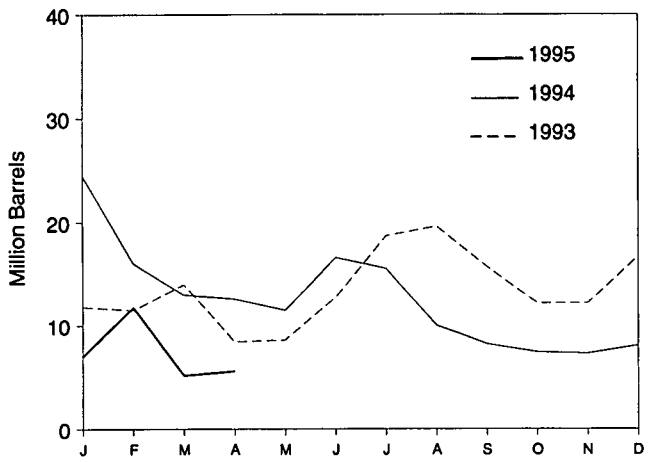
Fuels Consumed, 1973-1994



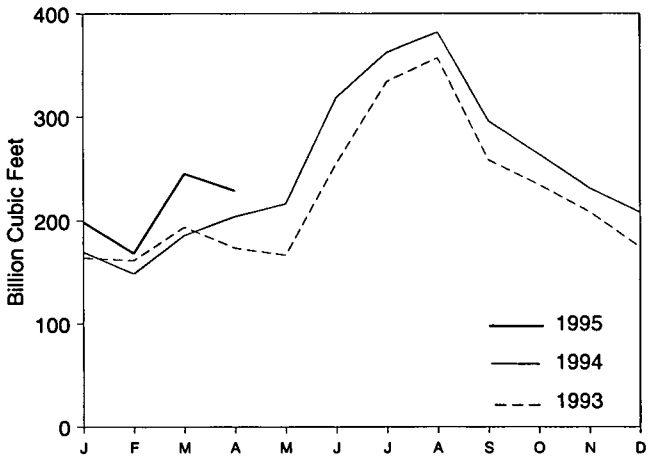
Coal Consumed, Monthly



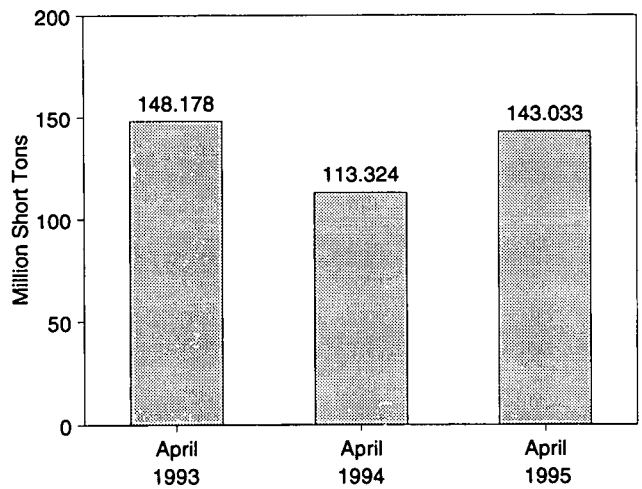
Petroleum Liquids Consumed, Monthly



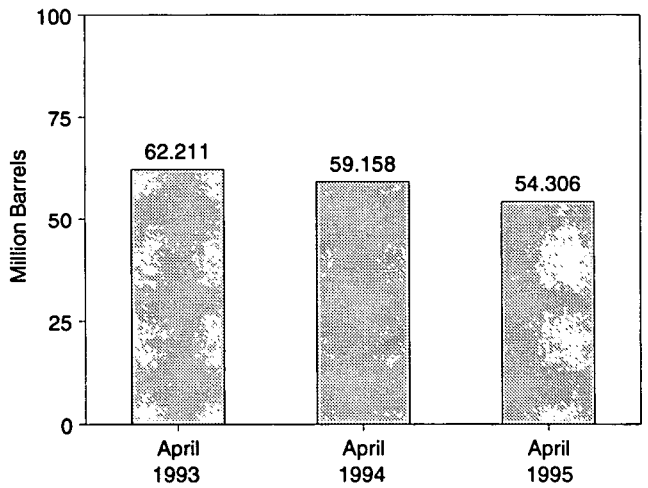
Natural Gas Consumed, Monthly



Coal Stocks, End of Month



Petroleum Liquids Stocks, End of Month



Note: Because vertical scales differ, graphs should not be compared.
Sources: Tables 7.3 and 7.4.

Table 7.3 Electric Utility Consumption of Fossil Fuels To Generate Electricity

	Coal				Petroleum						
					By Type of Petroleum		By Prime Mover Type				
	Anthracite	Bituminous Coal	Lignite	Total	Heavy Oil[a]	Light Oil[b]	Steam Plants	GT/IC[c]	Total Liquids	Petroleum Coke	Natural Gas[d]
	Thousand Short Tons				Thousand Barrels					Thousand Short Tons	Million Cubic Feet
1973 Total	**1,443**	**376,975**	**10,794**	**389,212**	**NA**	**NA**	**513,190**	**47,058**	**560,248**	**507**	**3,660,172**
1974 Total	**1,498**	**378,643**	**11,670**	**391,811**	**NA**	**NA**	**483,146**	**53,128**	**536,274**	**625**	**3,443,428**
1975 Total	**1,480**	**388,523**	**15,960**	**405,962**	**NA**	**NA**	**467,221**	**38,907**	**506,128**	**70**	**3,157,669**
1976 Total	**1,350**	**425,205**	**21,817**	**448,371**	**NA**	**NA**	**514,077**	**41,843**	**555,920**	**68**	**3,080,868**
1977 Total	**1,425**	**451,051**	**24,650**	**477,126**	**NA**	**NA**	**574,869**	**48,837**	**623,705**	**98**	**3,191,200**
1978 Total	**1,064**	**448,763**	**31,407**	**481,235**	**NA**	**NA**	**588,319**	**47,520**	**635,839**	**398**	**3,188,363**
1979 Total	**1,046**	**488,129**	**37,876**	**527,051**	**NA**	**NA**	**492,606**	**30,691**	**523,297**	**268**	**3,490,523**
1980 Total	**951**	**526,680**	**41,642**	**569,274**	**391,163**	**29,051**	**401,863**	**18,351**	**420,214**	**179**	**3,681,595**
1981 Total	**1,221**	**550,784**	**44,792**	**596,797**	**329,798**	**21,313**	**339,680**	**11,431**	**351,111**	**139**	**3,640,154**
1982 Total	**1,075**	**543,346**	**49,245**	**593,666**	**234,434**	**15,337**	**243,537**	**6,234**	**249,771**	**149**	**3,225,518**
1983 Total	**1,036**	**570,108**	**54,067**	**625,211**	**228,984**	**16,512**	**237,845**	**7,652**	**245,497**	**261**	**2,910,767**
1984 Total	**1,070**	**606,339**	**56,990**	**664,399**	**189,289**	**15,190**	**197,050**	**7,429**	**204,479**	**252**	**3,111,342**
1985 Total	**1,033**	**631,885**	**60,923**	**693,841**	**158,779**	**14,635**	**166,842**	**6,572**	**173,414**	**231**	**3,044,083**
1986 Total	**829**	**616,134**	**68,093**	**685,056**	**216,156**	**14,326**	**222,500**	**7,983**	**230,482**	**313**	**2,602,370**
1987 Total	**972**	**647,824**	**69,098**	**717,894**	**184,011**	**15,367**	**190,818**	**8,560**	**199,378**	**348**	**2,844,051**
1988 Total	**1,063**	**681,048**	**76,260**	**758,372**	**229,327**	**18,769**	**235,817**	**12,279**	**248,096**	**409**	**2,635,613**
1989 Total	**1,049**	**688,504**	**77,335**	**766,888**	**241,960**	**25,491**	**250,315**	**17,136**	**267,451**	**517**	**2,787,012**
1990 Total	**1,031**	**694,317**	**78,201**	**773,549**	**181,231**	**14,823**	**187,531**	**8,523**	**196,054**	**819**	**2,787,332**
1991 Total	**994**	**691,275**	**79,999**	**772,268**	**171,157**	**13,729**	**177,286**	**7,600**	**184,886**	**722**	**2,789,014**
1992 Total	**986**	**698,626**	**80,248**	**779,860**	**135,779**	**11,556**	**141,163**	**6,172**	**147,335**	**999**	**2,765,608**
1993 January	79	61,703	7,617	69,400	10,804	1,013	11,265	552	11,817	92	164,374
February	88	57,293	6,431	63,812	10,569	935	11,002	503	11,504	81	161,928
March	101	60,969	6,002	67,073	12,784	1,277	13,313	748	14,061	87	193,811
April	84	53,755	5,757	59,596	7,629	819	8,094	354	8,448	79	173,834
May	81	53,380	6,570	60,032	7,722	868	8,198	392	8,590	86	166,840
June	80	61,090	6,948	68,118	11,756	1,033	12,249	540	12,789	98	254,823
July	73	71,134	7,511	78,717	16,896	1,817	17,406	1,306	18,713	125	334,101
August	67	70,241	7,624	77,932	18,044	1,566	18,509	1,101	19,610	112	357,027
September	60	60,143	6,289	66,493	14,730	1,031	15,111	650	15,761	129	258,325
October	64	59,125	5,752	64,941	11,318	897	11,771	444	12,216	112	234,544
November	81	59,385	6,211	65,677	11,339	886	11,781	444	12,225	101	208,335
December	92	64,516	7,109	71,717	15,694	1,027	16,206	514	16,720	120	174,498
Total	**951**	**732,736**	**79,821**	**813,508**	**149,287**	**13,168**	**154,905**	**7,549**	**162,454**	**1,220**	**2,682,440**
1994 January	82	69,022	7,257	76,362	20,743	3,709	21,602	2,850	24,452	112	169,983
February	98	58,843	6,514	65,455	14,697	1,397	15,242	851	16,094	88	149,156
March	100	59,696	6,303	66,098	12,026	1,014	12,532	509	13,040	93	185,924
April	88	54,246	5,706	60,040	11,585	1,041	12,043	583	12,626	71	203,934
May	89	56,482	6,513	63,084	10,346	1,164	10,839	670	11,510	59	216,022
June	87	66,162	6,881	73,130	14,775	1,871	15,369	1,278	16,646	71	318,528
July	98	69,428	6,964	76,489	14,062	1,530	14,576	1,016	15,592	76	362,444
August	92	68,713	6,877	75,682	8,992	1,021	9,453	559	10,013	65	382,114
September	93	59,873	6,479	66,445	7,346	870	7,759	456	8,216	62	295,956
October	107	58,011	6,330	64,447	6,634	811	7,057	387	7,444	62	263,958
November	90	55,542	6,245	61,877	6,432	863	6,910	385	7,294	59	231,242
December	100	61,084	6,977	68,161	7,029	1,048	7,523	554	8,077	57	207,886
Total	**1,123**	**737,102**	**79,045**	**817,270**	**134,666**	**16,338**	**140,907**	**10,097**	**151,004**	**875**	**2,987,146**
1995 January	75	64,253	7,103	71,431	5,955	1,057	6,380	632	7,012	64	198,657
February	82	58,129	5,729	63,940	10,457	1,316	10,883	890	11,773	61	168,710
March	83	57,885	5,692	63,659	4,276	907	4,730	452	5,183	52	245,166
April	77	53,889	5,144	59,110	4,673	918	5,111	480	5,591	36	228,820
4-Month Total	**316**	**234,156**	**23,668**	**258,140**	**25,361**	**4,198**	**27,104**	**2,455**	**29,559**	**213**	**841,352**
1994 4-Month Total	**368**	**241,807**	**25,780**	**267,955**	**59,051**	**7,161**	**61,419**	**4,793**	**66,212**	**364**	**708,997**
1993 4-Month Total	**353**	**233,721**	**25,808**	**259,881**	**41,787**	**4,044**	**43,673**	**2,157**	**45,830**	**338**	**693,946**

[a] Heavy oil includes fuel oil nos. 4, 5, and 6, and residual fuel oils.
[b] Light oil includes fuel oil nos. 1 and 2, kerosene, and jet fuel.
[c] GT/IC = Gas turbine and internal combustion plants.
[d] Includes supplemental gaseous fuels.
NA=Not available.

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

Table 7.4 Electric Utility Stocks of Coal and Petroleum, End of Period

	Coal				Petroleum					
					By Type of Petroleum		By Prime Mover Type			
	Anthracite	Bituminous Coal	Lignite	Total	Heavy Oil[a]	Light Oil[b]	Steam Plants	GT/IC[c]	Total Liquids	Petroleum Coke
	Thousand Short Tons				Thousand Barrels					Thousand Short Tons
1973 Total	1,066	84,941	961	86,967	NA	NA	79,121	10,095	89,216	312
1974 Total	930	81,712	867	83,509	NA	NA	97,718	15,199	112,917	35
1975 Total	982	107,927	1,815	110,724	NA	NA	108,825	16,432	125,257	31
1976 Total	1,000	114,130	2,306	117,436	NA	NA	106,993	14,703	121,696	32
1977 Total	2,321	128,210	2,688	133,219	NA	NA	124,750	19,281	144,031	44
1978 Total	2,178	123,020	3,027	128,225	NA	NA	102,402	16,386	118,788	198
1979 Total	3,274	152,981	3,459	159,714	NA	NA	111,121	20,301	131,422	183
1980 Total	4,741	174,154	4,115	183,010	105,351	30,023	117,227	18,147	135,374	52
1981 Total	5,537	158,258	5,098	168,893	102,042	26,094	112,380	15,756	128,136	42
1982 Total	6,080	170,480	4,573	181,132	95,515	23,369	105,287	13,597	118,884	41
1983 Total	6,507	145,250	3,841	155,598	70,573	18,801	78,285	11,090	89,375	55
1984 Total	6,710	167,118	5,899	179,727	68,503	19,116	76,836	10,784	87,619	50
1985 Total	7,189	142,144	7,043	156,376	57,304	16,386	64,704	8,985	73,689	49
1986 Total	7,099	148,665	6,042	161,806	56,841	16,269	64,258	8,853	73,111	40
1987 Total	6,940	156,670	7,187	170,797	55,069	15,759	61,705	9,123	70,827	51
1988 Total	6,561	133,434	6,512	146,507	54,187	15,099	60,311	8,974	69,285	86
1989 Total	6,403	122,967	6,490	135,860	47,446	13,824	53,309	7,962	61,270	105
1990 Total	6,499	142,650	7,016	156,166	67,030	16,471	73,306	10,195	83,501	94
1991 Total	6,513	145,367	5,996	157,876	58,636	16,357	65,032	9,961	74,993	70
1992 Total	6,215	142,156	5,759	154,130	56,135	15,714	62,374	9,475	71,849	67
1993 January	6,166	138,615	5,521	150,302	53,781	15,840	60,193	9,428	69,620	65
February	6,107	135,063	5,357	146,528	50,005	15,131	56,303	8,833	65,136	60
March	6,036	132,183	5,758	143,978	45,313	14,914	51,528	8,698	60,227	66
April	5,802	136,199	6,177	148,178	47,356	14,856	53,475	8,736	62,211	77
May	5,773	138,668	6,238	150,678	50,422	14,669	56,495	8,596	65,091	82
June	5,766	133,977	6,009	145,753	49,294	14,936	55,604	8,626	64,230	92
July	5,755	115,383	5,677	126,815	47,401	14,618	53,639	8,380	62,019	90
August	5,745	102,582	5,651	113,978	43,943	14,842	50,223	8,562	58,785	99
September	5,735	100,951	6,147	112,833	45,913	14,774	52,071	8,617	60,687	62
October	5,718	102,700	6,687	115,105	46,298	14,822	52,385	8,735	61,120	69
November	5,693	103,447	6,955	116,095	46,603	14,878	52,812	8,668	61,481	84
December	5,639	98,560	7,142	111,341	46,769	15,674	53,360	9,083	62,443	89
1994 January	5,576	86,043	6,676	98,294	42,781	15,127	49,922	7,986	57,908	83
February	5,496	85,523	6,720	97,739	44,764	15,289	51,209	8,843	60,053	73
March	5,420	92,333	7,433	105,186	45,750	15,024	51,950	8,824	60,774	89
April	5,360	100,161	7,803	113,324	44,221	14,937	50,528	8,630	59,158	103
May	5,309	107,716	7,518	120,543	46,104	15,170	52,623	8,651	61,274	78
June	5,275	105,668	7,449	118,391	44,719	15,541	51,361	8,898	60,259	63
July	5,214	96,502	7,704	109,419	44,259	15,323	50,654	8,928	59,582	37
August	5,173	95,932	7,679	108,783	46,420	15,509	52,643	9,286	61,929	25
September	5,133	99,793	7,388	112,314	47,111	15,586	53,261	9,437	62,697	35
October	5,080	104,432	7,161	116,673	45,971	15,930	52,182	9,720	61,902	33
November	4,903	110,569	7,856	123,328	46,475	16,128	52,730	9,873	62,603	51
December	4,879	115,325	6,693	126,897	46,342	16,644	52,814	10,172	62,986	69
1995 January	4,849	114,316	6,309	125,475	45,428	16,615	51,758	10,285	62,043	75
February	4,791	118,880	6,286	129,957	39,922	16,005	46,101	9,826	55,927	95
March	4,748	124,452	6,115	135,315	41,032	15,608	47,073	9,568	56,641	128
April	4,711	132,108	6,215	143,033	38,859	15,447	44,832	9,474	54,306	162

[a] Heavy oil includes fuel oil nos. 4, 5, and 6, and residual fuel oils.
[b] Light oil includes fuel oil nos. 1 and 2, kerosene, and jet fuel.
[c] GT/IC = Gas turbine and internal combustion plants.
NA=Not available.

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

Sources for Table 7.1

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

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

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

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

- **1982**—EIA, *Electric Power Monthly,* March 1993, Table 4, and (for geothermal energy and other) EIA, Form EIA-759, "Monthly Power Plant Report."

- **1983-1992—EIA,** *Electric Power Monthly,* March 1994, Table 4, and (for geothermal energy and other) EIA, Form EIA-759, "Monthly Power Plant Report."

- **1993 and 1994**—EIA, *Electric Power Monthly,* May 1995, Tables 4 and 5.

- **1995**—EIA, Form EIA-759, "Monthly Power Plant Report."

Sources for Table 7.2

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

- **October 1977-1979**—Federal Energy Regulatory Commission, Form FERC-5, "Electric Operating Revenue and Income."

- **1980**—Energy Information Administration (EIA), *Electric Power Monthly,* March 1991, Table 51.

- **1981**—EIA, *Electric Power Monthly,* March 1992, Table 51.

- **1982**—EIA, *Electric Power Monthly,* March 1993, Table 51.

- **1983 and 1992 monthly data**—EIA, *Electric Power Monthly,* March 1994, Table 51.

- **1984 forward (except 1992 monthly data)**—EIA, *Electric Power Monthly,* July 1995, Table 52.

Sources for Table 7.3

• **Prime Mover Type Data: 1973-September 1977**—Federal Power Commission (FPC), Form FPC-4, "Monthly Power Plant Report." **October 1977-1981**—Federal Energy Regulatory Commission (FERC), Form FPC-4, "Monthly Power Plant Report." **1982 forward**—Energy Information Administration (EIA), Form EIA-759, "Monthly Power Plant Report."

• **All Other Data: 1973-September 1977**—FPC, Form FPC-4, "Monthly Power Plant Report." **October 1977-1979**—FERC, Form FPC-4, "Monthly Power Plant Report." **1980**—EIA, *Electric Power Monthly,* March 1991, Table 17. **1981**—EIA, *Electric Power Monthly,* March 1992, Table 17. **1982**—EIA, *Electric Power Monthly,* March 1993, Table 17. **1983**—EIA, *Electric Power Monthly,* March 1994, Table 18. **1984**—EIA, *Electric Power Monthly,* March 1995, Table 18. **1985 forward**—EIA, *Electric Power Monthly,* July 1995, Table 18.

Sources for Table 7.4

• **Prime Mover Type Data: 1973-September 1977**—Federal Power Commission (FPC), Form FPC-4, "Monthly Power Plant Report." **October 1977-1981**—Federal Energy Regulatory Commission (FERC), Form FPC-4, "Monthly Power Plant Report." **1982 forward**—Energy Information Administration (EIA), Form EIA-759, "Monthly Power Plant Report."

• **All Other Data: 1973-September 1977**—FPC, Form FPC-4, "Monthly Power Plant Report." **October 1977-1979**—FERC, Form FPC-4 "Monthly Power Plant Report." **1980**—EIA, *Electric Power Plant Monthly,* March 1991, Table 29. **1981**—EIA, *Electric Power Monthly,* March 1992, Table 29. **1982**—EIA, *Electric Power Monthly,* March 1993, Table 29. **1983 and 1992 monthly data**—EIA, *Electric Power Monthly,* March 1994, Table 29. **1984 forward (except 1992 monthly data)**—EIA, *Electric Power Monthly,* July 1995, Table 29.

Section 8. Nuclear Energy

In April 1995, U.S. nuclear generating units produced a total of 49 net terawatthours (billion kilowatthours) of electricity, 14 percent[8] more than in April 1994. Nuclear units generated at an average capacity factor of 69.3 percent, 9 percentage points higher than in April 1994. Nuclear power supplied 22.7 percent of the total electric utility-generated electricity in April 1995, compared with 20.1 percent in April 1994.

No low- or full power licenses for nuclear power plants were issued by the Nuclear Regulatory Commission during April 1995.

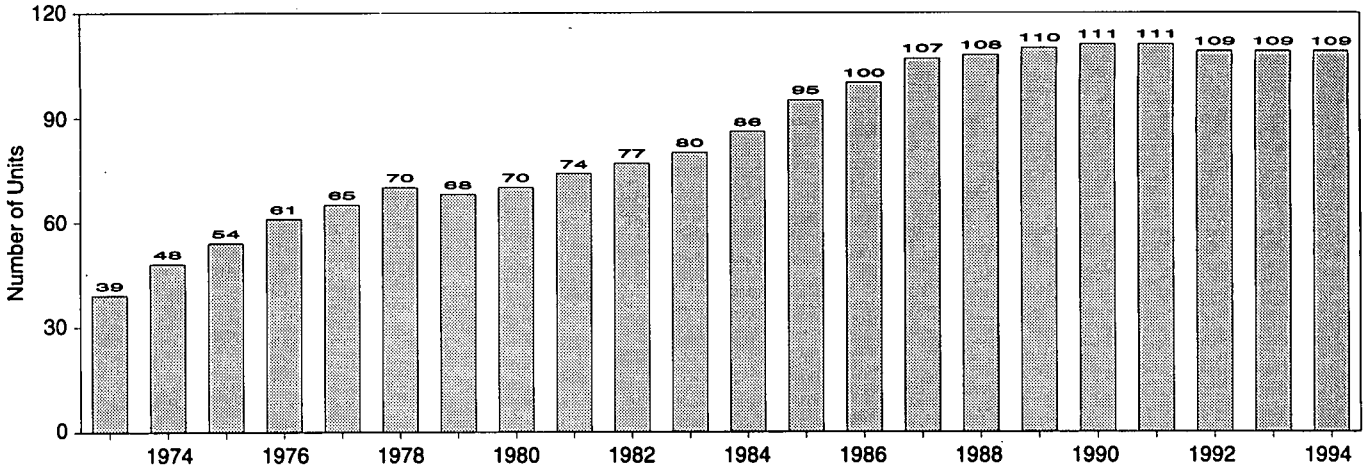
On April 30, 1995, there were 109 operable nuclear generating units in the United States, with a collective net summer capability of 99.0 million kilowatts of electricity. Of the 109 operable units, 24 units generated at less than 25 percent of capacity because of maintenance, refueling, or repair outage, and 18 of the 24 units generated no electricity during the month including two operable units, Browns Ferry 1 and 3, that have been shut down since March 1985.

As of April 30, 1995, there were 116 domestic nuclear generating units in all stages of construction and operation. Seven units possess construction permits, although construction for 6 of the 7 units was canceled or halted. The aggregate net design capacity of operable units was 101.1 million kilowatts, and the design capacity of the 7 units with construction permits was 8.5 million kilowatts, for a total design capacity of 109.6 million kilowatts.

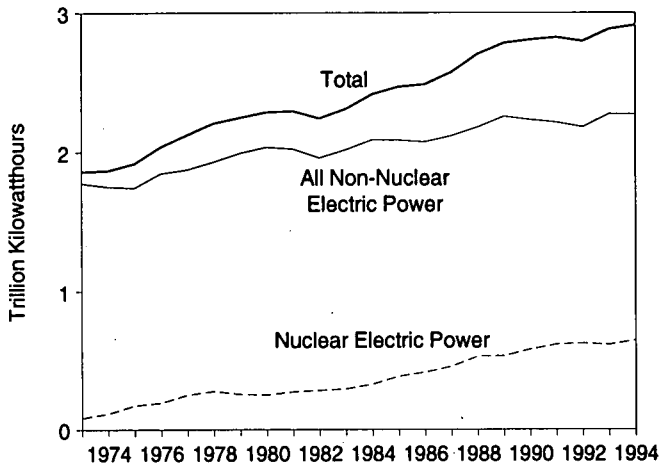
[8]Percent changes are based on numbers shown in the following tables.

Figure 8.1 Nuclear Power Plant Operations

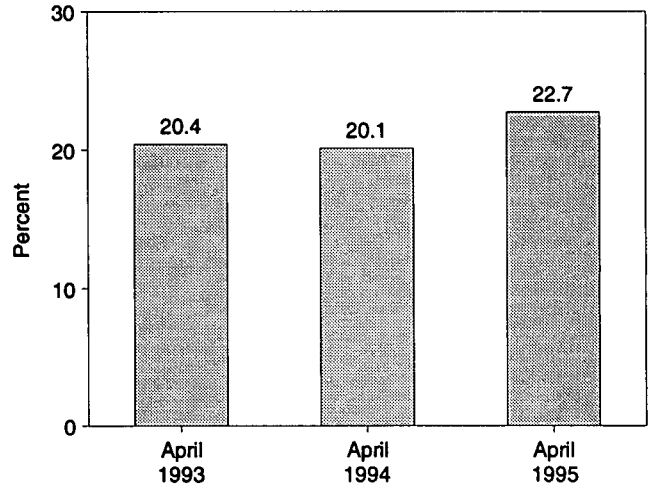
Operable Units, End of Year, 1973-1994



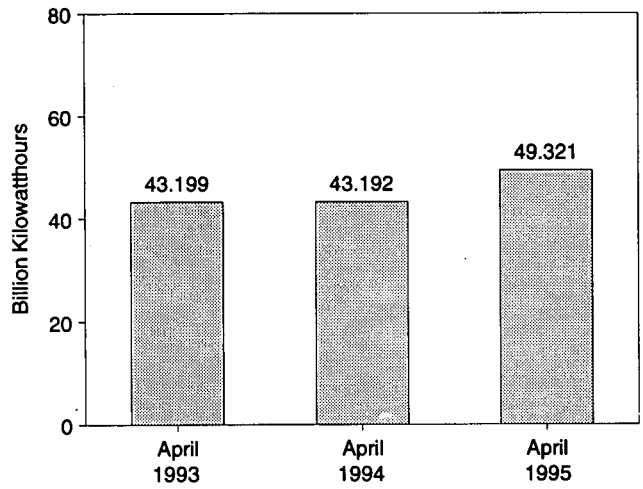
Net Generation of Electricity, 1973-1994



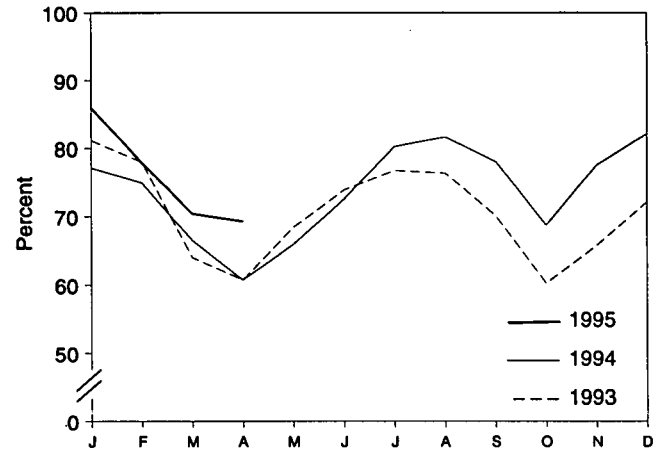
Nuclear Portion of Domestic Electricity Net Generation



Nuclear Electricity Net Generation



Capacity Factor, Monthly



Note: Because vertical scales differ, graphs should not be compared.
Sources: Tables 7.1 and 8.1.

Table 8.1 Nuclear Power Plant Operations

	Operable Units[a,b]	Nuclear Electricity Net Generation	Nuclear Portion of Domestic Electricity Net Generation	Net Summer Capability of Operable Units[a,c]	Capacity Factor[d]
	Number	Million Kilowatthours	Percent	Million Kilowatts	Percent
1973 Year	**39**	**83,479**	**4.5**	**22.683**	**53.5**
1974 Year	**48**	**113,976**	**6.1**	**31.867**	**47.8**
1975 Year	**54**	**172,505**	**9.0**	**37.267**	**55.9**
1976 Year	**61**	**191,104**	**9.4**	**43.822**	**54.7**
1977 Year	**65**	**250,883**	**11.8**	**46.303**	**63.3**
1978 Year	**70**	**276,403**	**12.5**	**50.824**	**64.5**
1979 Year	**68**	**255,155**	**11.4**	**49.747**	**58.4**
1980 Year	**70**	**251,116**	**11.0**	**51.810**	**56.3**
1981 Year	**74**	**272,674**	**11.9**	**56.042**	**58.2**
1982 Year	**77**	**282,773**	**12.6**	**60.035**	**56.6**
1983 Year	**80**	**293,677**	**12.7**	**63.009**	**54.4**
1984 Year	**86**	**327,634**	**13.6**	**69.652**	**56.3**
1985 Year	**95**	**383,691**	**15.5**	**79.397**	**58.0**
1986 Year	**100**	**414,038**	**16.6**	**85.241**	**56.9**
1987 Year	**107**	**455,270**	**17.7**	**93.583**	**57.4**
1988 Year	**108**	**526,973**	**19.5**	**94.695**	**63.5**
1989 Year	**110**	**529,355**	**19.0**	**98.161**	**62.2**
1990 Year	**111**	**576,862**	**20.5**	**99.624**	**66.0**
1991 Year	**111**	**612,565**	**21.7**	**99.589**	**70.2**
1992 Year	**109**	**618,776**	**22.1**	**98.985**	**70.9**
1993 January	108	59,076	24.0	97.881	81.1
February	108	51,319	22.8	97.881	78.0
March	108	46,606	19.8	97.881	64.0
April	109	43,199	20.4	99.031	60.7
May	109	50,367	22.6	99.031	68.4
June	109	52,620	21.1	99.031	73.8
July	109	56,502	20.0	99.031	76.7
August	109	56,209	20.1	99.031	76.3
September	109	49,989	21.1	99.031	70.1
October	109	44,434	19.9	99.094	60.2
November	109	46,862	20.7	99.094	65.7
December	109	53,108	21.6	99.041	72.1
Year	**109**	**610,291**	**21.2**	**99.041**	**70.5**
1994 January	109	56,847	21.7	99.041	77.1
February	109	49,821	22.1	99.041	74.9
March	109	48,969	21.1	99.041	66.5
April	109	43,192	20.1	99.041	60.7
May	109	48,525	21.3	99.041	65.9
June	109	51,751	19.6	99.041	72.5
July	109	59,123	21.3	99.041	80.2
August	109	60,104	21.9	99.041	81.6
September	109	55,628	23.4	99.041	78.0
October	109	50,703	22.2	99.041	68.7
November	109	55,280	24.6	99.041	77.5
December	109	60,497	24.9	99.041	82.1
Year	**109**	**640,440**	**22.0**	**99.041**	**73.8**
1995 January	109	63,342	25.0	99.041	86.0
February	109	51,858	22.7	99.041	77.9
March	109	51,880	22.2	99.041	70.4
April	109	49,321	22.7	99.041	69.3
4-Month Total	**109**	**216,401**	**23.2**	**99.041**	**75.9**
1994 4-Month Total	**109**	**198,830**	**21.3**	**99.041**	**69.7**
1993 4-Month Total	**109**	**200,200**	**21.8**	**99.031**	**70.8**

[a] At end of period.
[b] See Note 1 at end of section.
[c] For the definition of "Net Summer Capability," see Note 3 at end of section .
[d] For an explanation of the method of calculating the capacity factor, see Note 4 at end of section.

Notes: • 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, End of Period

	Licensed for Operation		Construction Permits					Total Design Capacity[c]
	Operable[a]	In Startup[b]	Granted	Pending	On Order	Announced	Total	
	Number of Units							Million Kilowatts
1973 Year	**39**	**2**	**57**	**52**	**49**	**9**	**208**	**198**
1974 Year	**48**	**5**	**62**	**75**	**30**	**6**	**226**	**223**
1975 Year	**54**	**2**	**69**	**69**	**14**	**5**	**213**	**212**
1976 Year	**61**	**1**	**71**	**63**	**16**	**2**	**214**	**211**
1977 Year	**65**	**2**	**78**	**49**	**13**	**2**	**209**	**203**
1978 Year	**70**	**0**	**88**	**32**	**5**	**0**	**195**	**191**
1979 Year	**68**	**0**	**90**	**24**	**3**	**0**	**185**	**180**
1980 Year	**70**	**1**	**82**	**12**	**3**	**0**	**168**	**162**
1981 Year	**74**	**0**	**76**	**11**	**2**	**0**	**163**	**157**
1982 Year	**77**	**2**	**60**	**3**	**2**	**0**	**144**	**134**
1983 Year	**80**	**3**	**53**	**0**	**2**	**0**	**138**	**129**
1984 Year	**86**	**6**	**38**	**0**	**2**	**0**	**132**	**123**
1985 Year	**95**	**3**	**30**	**0**	**2**	**0**	**130**	**121**
1986 Year	**100**	**7**	**19**	**0**	**2**	**0**	**128**	**119**
1987 Year	**107**	**4**	**14**	**0**	**2**	**0**	**127**	**119**
1988 Year	**108**	**3**	**12**	**0**	**0**	**0**	**123**	**115**
1989 Year	**110**	**1**	**10**	**0**	**0**	**0**	**121**	**113**
1990 Year	**111**	**0**	**8**	**0**	**0**	**0**	**119**	**111**
1991 Year	**111**	**0**	**8**	**0**	**0**	**0**	**119**	**111**
1992 Year	**109**	**0**	**8**	**0**	**0**	**0**	**117**	**111**
1993 January	108	0	8	0	0	0	116	110
February	108	1	7	0	0	0	116	110
March	108	1	7	0	0	0	116	110
April	109	0	7	0	0	0	116	110
May	109	0	7	0	0	0	116	110
June	109	0	7	0	0	0	116	110
July	109	0	7	0	0	0	116	110
August	109	0	7	0	0	0	116	110
September	109	0	7	0	0	0	116	110
October	109	0	7	0	0	0	116	110
November	109	0	7	0	0	0	116	110
December	**109**	**0**	**7**	**0**	**0**	**0**	**116**	**110**
1994 January	109	0	7	0	0	0	116	110
February	109	0	7	0	0	0	116	110
March	109	0	7	0	0	0	116	110
April	109	0	7	0	0	0	116	110
May	109	0	7	0	0	0	116	110
June	109	0	7	0	0	0	116	110
July	109	0	7	0	0	0	116	110
August	109	0	7	0	0	0	116	110
September	109	0	7	0	0	0	116	110
October	109	0	7	0	0	0	116	110
November	109	0	7	0	0	0	116	110
December	**109**	**0**	**7**	**0**	**0**	**0**	**116**	**110**
1995 January	109	0	7	0	0	0	116	110
February	109	0	7	0	0	0	116	110
March	109	0	7	0	0	0	116	110
April	109	0	7	0	0	0	116	110

[a] See Note 1 at end of section.
[b] See Note 2 at end of section.
[c] Net design electrical rating (DER) is used because many of the units were canceled prior to being assigned a net summer capability. See Note 3 at end of section.

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

Nuclear Energy Notes

1. Operable Units: Nuclear generating units that have been issued a full-power license by the Nuclear Regulatory Commission (NRC).

Exceptions: The Shippingport (60 megawatts (MW)) and the Hanford-N (840 MW) nuclear units were included in the operable units until 1982 and 1988, respectively. The Shippingport unit was excluded from the operable category during March 1974-August 1977 due to a major core modification outage. Hanford-N, an unlicensed unit used for defense materiel production, was included in the operable category because power was produced as by-product and sold commercially. Three Mile Island 2 (880 MW) experienced a major accident in 1979 and, although that unit still retains its operating license and site cleanup continues, there is no plan to restart it. Therefore, it has not been included in the operable category since March 1979. Although Shoreham received a full-power license in April 1989, the unit is not currently scheduled to operate and, therefore, has not been included in the operable category. Rancho Seco (873 MW) was shut down by the Sacramento Municipal Utility District (SMUD) in June 1989 following a referendum on its continued operation. Because there are currently no plans to operate it as a nuclear unit, it is no longer included as an operable unit but is identified as a unit shut down for an extended period. As soon as SMUD and the NRC formalize the plant's official retirement, it will be noted as such in this report. The Department of Energy-operated Experimental Breeder Reactor 2 unit is not a commercial reactor and is therefore not included in the operable category.

In addition, nine units have been retired and therefore removed from the operable category. Those units are: Peach Bottom 1 (40 MW) and Indian Point 1 (265 MW), both retired in 1974; Humboldt Bay (65 MW), officially retired in 1976; Dresden 1 (200 MW), retired in August 1979; LaCrosse (51 MW), retired in May 1987; Fort Saint Vrain (217 MW), retired in August 1989; Yankee Rowe 1 (185 MW), retired in February 1992; San Onofre 1 (436 MW), retired in December 1992; and Trojan (1,104 MW), retired in January 1993.

2. In Startup: The period of time between a nuclear generating unit's initial fuel loading date and the issuance of its full-power license. During that period, the unit is undergoing low-power testing and the maximum level of operation is 5 percent of the unit's design thermal rating.

3. 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.

4. Monthly Capacity Factors: 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

- **Operable Units: 1973-1982**—U.S. Department of Energy (DOE), Office of Nuclear Programs, "U.S. Central Station Nuclear Electric Generating Units: Significant Milestones." **1983 forward** —Nuclear Regulatory Commission (NRC), "Licensed Operating Reactors" (NUREG-0020).

- **Nuclear Electricity Net Generation**: Table 7.1.

- **Nuclear Portion of Domestic Electricity Net Generation**—Calculated from data in Table 7.1.

- **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 Generation Report," and monthly updates as appropriate.

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

Sources for Table 8.2

- **Licensed for Operation: 1973-1982**—U.S. Department of Energy (DOE), Office of Nuclear Programs, "U.S. Central Station Nuclear Electric Generating Units: Significant Milestones." **1983 forward**—Nuclear Regulatory Commission (NRC), "Licensed Operating Reactors" (NUREG-0020).

- **Construction Permits, On Order, and Announced: 1973-1982**—Compiled from various sources, primarily DOE, Office of Nuclear Reactor Programs, "U.S. Central Station Nuclear Electric Generating Units: Significant Milestones"; Energy Information Adminis-

tration (EIA), Office of Coal, Nuclear, Electric and Alternate Fuels (CNEAF), "Nuclear Steam-Electric Units That Have Been in Operation as of 1957-1989"; EIA, CNEAF, "Nuclear Plant Cancellations: Causes, Costs, and Consequences"; and Utility Data Institute, Inc., "U.S. Nuclear Plant Statistics, 1987." **1983 forward**—NRC, "Summary Information Report" (NUREG-0871); NRC, "Licensed Operating Reactors" (NUREG-0020); and various journals.

• **Total Design Capacity: 1973-1982**—Compiled from various sources, primarily DOE, Office of Nuclear Reactor Programs, "U.S. Central Station Nuclear Electric Generating Units: Significant Milestones"; EIA, CNEAF, "Nuclear Steam-Electric Units That Have Been in Operation as of 1957-1987"; EIA, CNEAF, "Monthly Report for Electric Utilities-Power Generation"; EIA, CNEAF, "Nuclear Plant Cancellations: Causes, Costs, and Consequences"; and Utility Data Institute, Inc., "U.S. Nuclear Plant Statistics, 1987." **1983 forward**—NRC, "Summary Information Report" (NUREG-0871); NRC, "Licensed Operating Reactors" (NUREG-0020); and EIA, Form EIA-860, "Annual Electric Generator Report."

Section 9. Energy Prices

Crude Oil. The average price of domestic crude oil purchased at the wellhead was $15.85 per barrel in April 1995, 29 percent higher than the level in April 1994. The refiner acquisition cost of imported crude oil in April 1995 was $18.67 per barrel, 28 percent above the April 1994 level. The average cost of domestic crude oil in April 1995 was $18.20, 23 percent higher than the April 1994 average.

Motor Gasoline. The national city average retail price of unleaded regular gasoline at all types of stations was $1.20 per gallon in May 1995, 11 percent higher than the price in May 1994. The price of unleaded premium gasoline averaged $1.38 per gallon in May 1995, 9 percent higher than the price in May 1994.

Residual Fuel Oil. The average price, excluding taxes, of residual fuel oil sold to end users in April 1995 was 40 cents per gallon, slightly lower than the previous month's price but 30 percent above the April 1994 average. The average resale price, excluding taxes, of residual fuel oil in April 1995 was 37 cents per gallon, 1 percent lower than the March 1995 average but 32 percent higher than the price 1 year earlier.

Aviation Fuel. The average price, excluding taxes, of aviation gasoline sold to end users in April 1995 was $1.01 per gallon, 2 percent higher than the previous month's price and 11 percent higher than the April 1994 price. The average price, excluding taxes, of kerosene-type jet fuel sold to end users in April 1995 was 53 cents per gallon, 5 percent higher than the previous month's price and 4 percent above the April 1994 average price.

No. 2 Distillate Fuel Oil. The April 1995 national average price, excluding taxes, of heating oil sold to residential customers was 86 cents per gallon, 1 percent lower than the March 1995 price and 2 percent lower than the April 1994 price. The average price of No. 2 fuel oil sold to all end users was 56 cents per gallon in April 1995, 2 percent above the March 1995 price but 4 percent lower than the April 1994 price.

Electricity. The average price of electricity sold to all ultimate consumers in the United States in April 1995 was 6.67 cents per kilowatthour, the same as the April 1994 mean price. The price of electricity sold to residential consumers in April 1995 averaged 8.43 cents per kilowatthour, 1 percent higher than the April 1994 price. The price of electricity sold to commercial consumers averaged 7.51 cents per kilowatthour in April 1995, 1 percent higher than the April 1994 price. The price of electricity sold to other consumers was 6.47 cents per kilowatthour, 3 percent lower than the April 1994 price. The price of electricity sold to industrial users in April 1995 averaged 4.55 cents per kilowatthour, 1 percent below the price 1 year earlier.

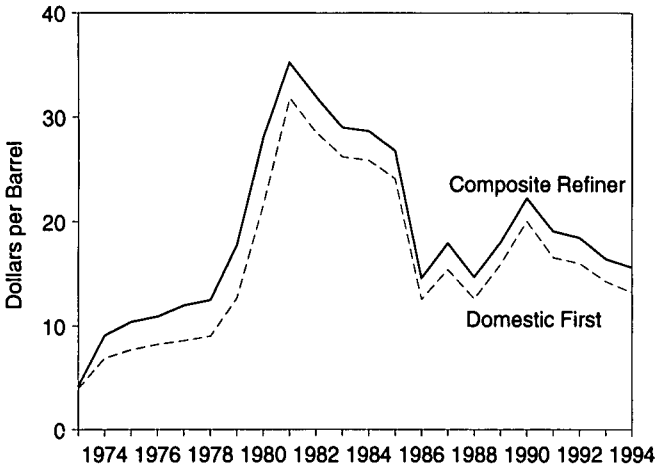
Beginning with January 1986, there were new series of national average price estimates based on a statistically derived sample of both publicly and privately owned electric utilities. Previously, average price estimates were derived from selected privately owned electric utilities and were not national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

Natural Gas. The estimated average wellhead price of natural gas for April 1995 was $1.57 per thousand cubic feet, 18 percent below the April 1994 price.

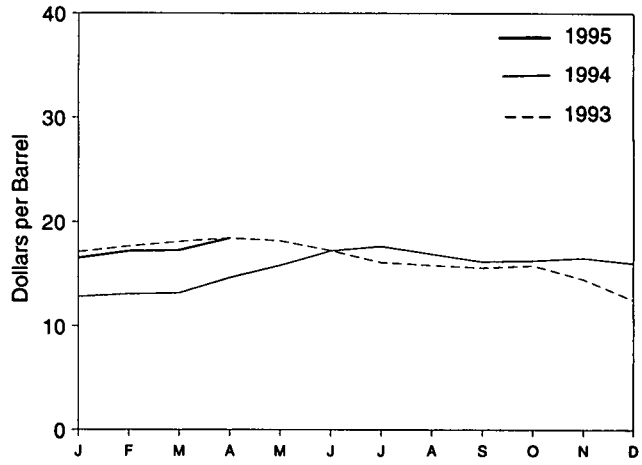
The average price of natural gas delivered to electric utility plants was $1.91 per thousand cubic feet in March 1995 (latest date for which data are available) 28 percent below the March 1994 price. The average price of natural gas used by residential consumers in April 1995 was $6.04 per thousand cubic feet, 9 percent below the April 1994 price. The average price of natural gas used by commercial consumers in April 1995 was $5.02 per thousand cubic feet, 10 percent lower than the April 1994 price. The average price of natural gas used by industrial consumers in April 1995 was $2.59 per thousand cubic feet, 16 percent below the April 1994 price.

Figure 9.1 Petroleum Prices

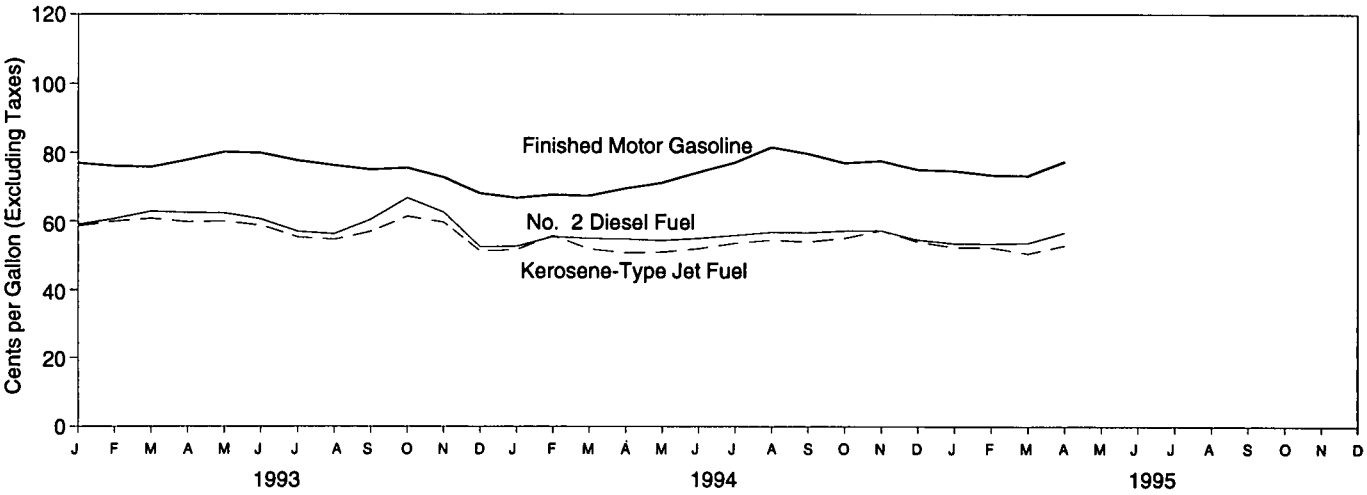
Crude Oil Prices, 1973-1994



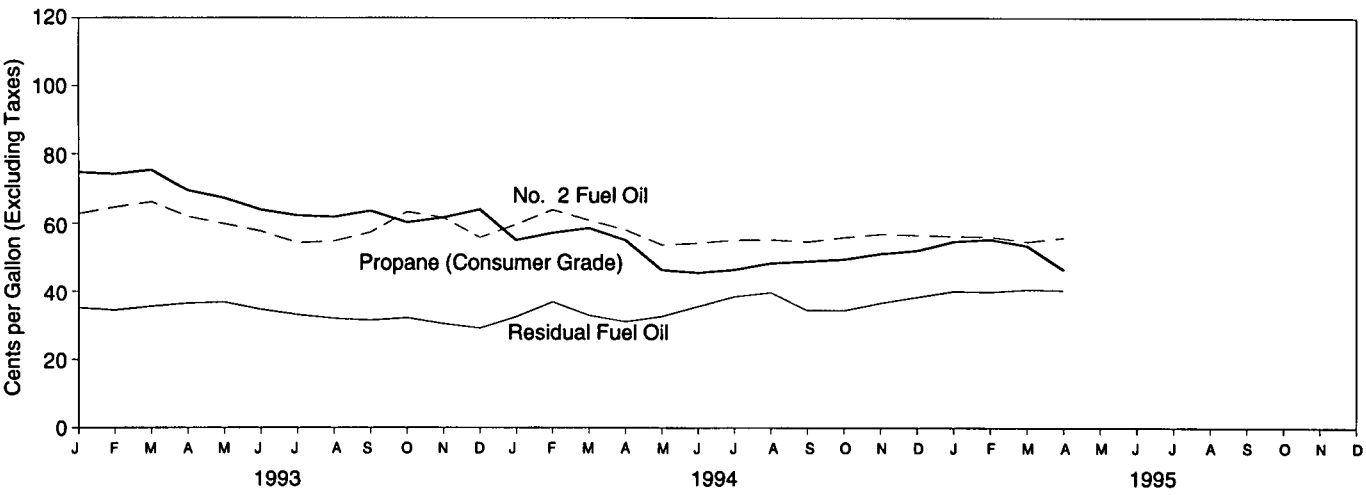
Composite Refiner Acquisition Cost, Monthly



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)

	Domestic First Purchase Price[b]	F.O.B. Cost of Imports[c]	Landed Cost of Imports[d]	Refiner Acquisition Cost[a]		
				Domestic	Imported	Composite
1973 Average	**3.89**	[e] 5.21	[e] 6.41	[E] 4.17	[E] 4.08	[E] 4.15
1974 Average	**6.87**	**10.91**	**12.32**	**7.18**	**12.52**	**9.07**
1975 Average	**7.67**	**11.18**	**12.70**	**8.39**	**13.93**	**10.38**
1976 Average	**8.19**	**12.15**	**13.32**	**8.84**	**13.48**	**10.89**
1977 Average	**8.57**	**13.24**	**14.36**	**9.55**	**14.53**	**11.96**
1978 Average	**9.00**	**13.29**	**14.35**	**10.61**	**14.57**	**12.46**
1979 Average	**12.64**	**20.07**	**21.45**	**14.27**	**21.67**	**17.72**
1980 Average	**21.59**	**32.37**	**33.67**	**24.23**	**33.89**	**28.07**
1981 Average	**31.77**	**35.15**	**36.47**	**34.33**	**37.05**	**35.24**
1982 Average	**28.52**	**32.02**	**33.18**	**31.22**	**33.55**	**31.87**
1983 Average	**26.19**	**27.81**	**28.93**	**28.87**	**29.30**	**28.99**
1984 Average	**25.88**	**27.60**	**28.54**	**28.53**	**28.88**	**28.63**
1985 Average	**24.09**	**25.84**	**26.67**	**26.66**	**26.99**	**26.75**
1986 Average	**12.51**	**12.52**	**13.49**	**14.82**	**14.00**	**14.55**
1987 Average	**15.40**	**16.69**	**17.65**	**17.76**	**18.13**	**17.90**
1988 Average	**12.58**	**13.25**	**14.08**	**14.74**	**14.56**	**14.67**
1989 Average	**15.86**	**16.89**	**17.68**	**17.87**	**18.08**	**17.97**
1990 Average	**20.03**	**20.37**	**21.13**	**22.59**	**21.76**	**22.22**
1991 Average	**16.54**	**16.89**	**18.02**	**19.33**	**18.70**	**19.06**
1992 Average	**15.99**	**16.77**	**17.75**	**18.63**	**18.20**	**18.43**
1993 January	14.70	15.24	16.36	17.40	16.80	17.11
February	15.53	16.09	17.12	17.84	17.41	17.64
March	15.94	16.60	17.56	18.31	17.82	18.08
April	16.15	16.30	17.55	18.49	18.35	18.42
May	16.03	16.19	17.30	18.44	17.89	18.16
June	15.06	15.10	16.32	17.70	16.80	17.26
July	13.83	14.23	15.45	16.39	15.81	16.10
August	13.75	14.19	15.26	16.01	15.64	15.83
September	13.39	14.09	14.95	15.82	15.32	15.59
October	13.72	14.12	15.01	16.04	15.59	15.81
November	12.45	12.90	13.83	14.99	14.05	14.51
December	10.38	11.63	12.33	12.46	12.56	12.51
Average	**14.25**	**14.71**	**15.72**	**16.67**	**16.14**	**16.41**
1994 January	10.51	12.10	12.70	12.72	12.93	12.82
February	10.73	11.99	12.64	13.24	12.90	13.07
March	10.81	12.22	12.88	13.14	13.18	13.16
April	12.33	13.46	14.23	14.74	14.54	14.64
May	14.03	14.55	15.55	15.88	15.74	15.81
June	14.95	15.47	16.52	17.38	17.04	17.21
July	15.31	16.18	17.17	17.74	17.55	17.64
August	14.50	14.91	16.05	17.22	16.67	16.92
September	13.62	14.32	15.47	16.46	15.90	16.18
October	13.84	14.74	15.67	16.35	16.23	16.29
November	14.14	14.84	15.99	16.63	16.46	16.54
December	13.43	14.55	15.64	16.22	15.78	16.03
Average	**13.19**	**14.16**	**15.16**	**15.68**	**15.51**	**15.59**
1995 January	14.01	[R] 15.08	[R] 16.23	16.52	16.56	16.54
February	[R] 14.69	[R] 15.63	[R] 16.73	17.16	17.21	17.18
March	[R] 14.69	[R] 15.83	[R] 17.00	17.31	[R] 17.22	[R] 17.27
April	15.85	17.21	18.24	18.20	18.67	18.41

[a] See Note 4 at end of section.
[b] See Note 1 at end of section.
[c] See Note 2 at end of section.
[d] See Note 3 at end of section.
[e] Based on October, November, and December data only.
R=Revised data. 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)

	Algeria	Indonesia	Iran[a]	Mexico	Nigeria	Saudi Arabia	United Kingdom	Venezuela	Other Countries	Arab OPEC[b]	Total OPEC[c]
1973 Average[d]	**7.23**	**5.67**	**4.24**	**NA**	**7.81**	**3.25**	**NA**	**5.39**	**4.84**	**4.06**	**5.43**
1974 Average	**13.23**	**11.99**	**10.85**	**W**	**12.44**	**10.17**	**NA**	**10.71**	**10.02**	**10.96**	**11.33**
1975 Average	**11.93**	**12.55**	**10.81**	**11.44**	**11.82**	**10.87**	**NA**	**11.04**	**10.86**	**11.18**	**11.34**
1976 Average	**13.05**	**12.76**	**11.61**	**12.22**	**13.08**	**11.62**	**W**	**11.39**	**11.92**	**12.06**	**12.23**
1977 Average	**14.35**	**13.57**	**12.68**	**13.42**	**14.44**	**12.38**	**14.11**	**12.63**	**13.19**	**13.13**	**13.29**
1978 Average	**14.12**	**13.61**	**12.65**	**13.24**	**14.05**	**12.70**	**13.82**	**12.38**	**13.35**	**13.28**	**13.31**
1979 Average	**20.53**	**19.03**	**22.93**	**20.27**	**21.69**	**17.28**	**21.70**	**16.90**	**21.10**	**19.27**	**19.88**
1980 Average	**36.67**	**32.17**	**NA**	**31.06**	**35.93**	**28.17**	**34.36**	**24.81**	**34.34**	**31.57**	**32.21**
1981 Average	**39.08**	**35.62**	**(e)**	**33.01**	**38.31**	**32.60**	**36.06**	**28.95**	**36.69**	**34.79**	**35.17**
1982 Average	**34.20**	**35.11**	**30.97**	**28.08**	**35.13**	**33.73**	**33.42**	**23.74**	**31.96**	**33.84**	**33.48**
1983 Average	**30.09**	**29.92**	**28.39**	**25.20**	**29.81**	**27.53**	**29.91**	**21.48**	**27.96**	**28.28**	**28.46**
1984 Average	**28.34**	**29.13**	**27.42**	**26.39**	**29.51**	**27.67**	**28.87**	**24.23**	**27.79**	**27.79**	**27.79**
1985 Average	**26.89**	**27.12**	**W**	**25.33**	**28.04**	**22.04**	**27.64**	**23.64**	**26.12**	**24.34**	**25.67**
1986 Average	**13.62**	**13.19**	**W**	**11.84**	**14.35**	**11.36**	**13.84**	**10.92**	**13.32**	**11.59**	**12.21**
1987 Average	**16.79**	**17.40**	**W**	**16.36**	**18.47**	**15.12**	**18.28**	**15.08**	**17.11**	**15.80**	**16.43**
1988 Average	**W**	**13.81**	**(e)**	**12.18**	**15.16**	**12.16**	**14.80**	**12.96**	**13.45**	**12.57**	**13.43**
1989 Average	**W**	**17.01**	**(e)**	**15.96**	**18.31**	**16.29**	**17.89**	**16.09**	**17.12**	**16.72**	**17.06**
1990 Average	**W**	**21.29**	**(e)**	**19.26**	**22.46**	**20.36**	**23.43**	**19.55**	**19.88**	**18.84**	**20.40**
1991 Average	**W**	**18.69**	**15.58**	**15.37**	**20.29**	**14.62**	**20.81**	**14.91**	**17.79**	**15.59**	**16.99**
1992 Average	**W**	**17.06**	**(e)**	**15.26**	**19.98**	**15.85**	**19.61**	**14.39**	**17.65**	**16.50**	**16.87**
1993 January	(e)	W	(e)	14.14	17.95	15.55	18.29	12.99	15.19	15.63	15.63
February	(e)	W	(e)	14.64	19.06	16.13	18.13	13.68	16.51	16.36	16.49
March	W	W	(e)	15.16	19.33	16.34	18.51	14.22	16.84	16.73	16.91
April	(e)	W	(e)	15.04	19.21	15.23	18.36	14.52	16.76	15.46	16.41
May	(e)	19.14	(e)	15.15	18.90	13.62	18.29	13.89	16.63	14.09	16.16
June	(e)	W	(e)	14.04	18.00	W	17.03	12.44	15.86	14.20	14.95
July	W	16.48	(e)	13.09	17.46	W	16.07	11.96	14.97	13.67	14.19
August	(e)	17.74	(e)	13.20	17.42	W	16.73	12.56	14.68	14.13	14.18
September	W	W	(e)	13.50	16.73	W	16.06	12.72	14.23	12.72	14.13
October	W	W	(e)	13.74	17.02	11.16	16.31	11.87	14.88	12.94	13.75
November	W	W	(e)	12.27	15.80	11.15	15.29	9.97	13.85	12.19	12.45
December	W	W	(e)	11.19	14.21	W	14.19	9.34	11.86	11.47	11.44
Average	**W**	**17.13**	**(e)**	**13.74**	**17.79**	**13.77**	**16.64**	**12.46**	**15.17**	**14.25**	**14.78**
1994 January	W	W	(e)	11.30	14.88	11.02	W	10.87	12.26	11.45	12.42
February	(e)	14.46	(a)	11.43	14.00	11.38	W	10.35	12.19	11.31	11.81
March	W	W	(a)	11.64	14.27	12.61	13.68	11.00	12.27	12.24	12.23
April	W	13.28	(a)	12.86	15.65	13.49	W	11.81	13.68	13.45	13.58
May	(e)	15.24	(a)	13.64	16.70	14.43	15.77	12.79	15.16	14.38	14.46
June	W	15.91	(a)	15.00	17.31	15.98	16.53	13.23	16.01	16.05	15.33
July	W	17.44	(a)	15.70	18.02	15.86	17.29	14.27	16.72	16.19	15.91
August	W	W	(a)	14.58	16.69	13.95	16.70	12.31	15.94	14.05	14.27
September	(e)	W	(a)	13.51	16.35	14.80	15.41	12.09	15.44	14.82	13.91
October	(e)	W	(a)	14.42	17.01	14.26	16.42	12.90	15.29	14.23	14.49
November	(e)	W	(a)	15.19	17.16	W	W	12.23	15.69	W	14.32
December	W	W	(a)	14.78	16.57	W	16.03	12.20	15.32	14.65	14.00
Average	**W**	**15.51**	**(e)**	**13.68**	**16.34**	**13.83**	**15.69**	**12.21**	**14.68**	**13.83**	**13.96**
1995 January	(e)	W	(e)	R14.98	R17.13	W	W	R12.61	R15.57	W	R14.79
February	(e)	W	(e)	R15.79	R17.43	W	R16.84	R13.02	R16.41	R15.88	15.09
March	(e)	W	(e)	R15.74	R17.19	W	RW	R14.23	R16.62	W	R15.35
April	W	W	(e)	17.15	18.99	W	W	16.12	17.27	17.33	17.16

[a] Beginning with February 1994, data for Iran are no longer reported in the *Petroleum Marketing Monthly*.

[b] The Arab members of OPEC are Algeria, Iraq, Kuwait, Libya, Qatar, Saudi Arabia, and the United Arab Emirates.

[c] Current members of OPEC are Gabon, Indonesia, Iran, Nigeria, and Venezuela, as well as the Arab members. Prior to 1993, Ecuador was also a member. The cost of imports from the Neutral Zone between Kuwait and Saudi Arabia is included in the cost of imports from "Total OPEC."

[d] Based on October, November, and December data only.

[e] No data reported.

R=Revised data. 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 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.

Sources: • **October 1973-September 1977:** Federal Energy Administration, Form FEA-F701-M-0, "Transfer Pricing Report." • **October 1977-December 1977:** Energy Information Administration (EIA), Form FEA-F701-M-0, "Transfer Pricing Report." • **1978 forward:** EIA, *Petroleum Marketing Monthly*, July 1995, Table 24.

Table 9.3 Landed Costs of Crude Oil Imports from Selected Countries

(Dollars per Barrel)

	Algeria	Canada	Indonesia	Iran[a]	Mexico	Nigeria	Saudi Arabia	United Kingdom	Venezuela	Other Countries	Arab OPEC[b]	Total OPEC[c]
1973 Average[d]	8.39	5.33	7.22	6.48	NA	9.08	5.37	NA	5.99	6.99	5.92	6.85
1974 Average	13.97	11.48	13.20	12.48	W	13.16	11.63	NA	11.25	12.93	12.39	12.49
1975 Average	12.86	12.84	13.83	12.51	12.61	12.70	12.50	NA	12.36	12.66	12.71	12.70
1976 Average	13.90	13.36	13.85	12.86	12.64	13.81	13.06	W	11.89	13.36	13.31	13.32
1977 Average	15.24	14.13	14.65	13.86	13.82	15.29	13.69	14.83	13.11	14.56	14.30	14.35
1978 Average	14.93	14.41	14.65	13.89	13.56	14.88	13.94	14.53	12.84	14.58	14.36	14.34
1979 Average	21.88	20.22	20.63	24.21	20.77	22.97	18.95	22.97	17.65	22.86	20.79	21.29
1980 Average	37.92	30.11	33.92	NA	31.77	37.15	29.80	35.68	25.92	36.15	32.97	33.56
1981 Average	40.46	32.32	37.31	(e)	33.70	39.66	34.20	37.29	29.91	38.54	36.22	36.60
1982 Average	35.35	27.15	36.70	32.46	28.63	36.16	34.99	34.25	24.93	34.03	35.15	34.81
1983 Average	31.26	25.63	31.57	29.81	25.78	30.85	29.27	30.87	22.94	29.68	29.87	29.84
1984 Average	29.06	26.56	30.87	28.70	26.85	30.36	29.20	29.45	25.19	29.21	29.10	29.06
1985 Average	27.51	25.71	28.67	25.79	25.63	28.96	24.72	28.36	24.43	27.33	25.90	26.86
1986 Average	14.82	13.43	14.63	12.38	12.17	15.29	12.84	14.63	11.52	14.25	13.14	13.46
1987 Average	17.87	17.04	18.49	18.28	16.69	19.32	16.81	18.78	15.76	18.30	17.32	17.64
1988 Average	W	13.50	15.15	W	12.58	15.88	13.37	15.82	13.66	14.45	13.60	14.18
1989 Average	19.13	16.81	18.35	(e)	16.35	19.19	17.34	18.74	16.78	18.08	17.41	17.78
1990 Average	W	20.48	22.50	(e)	19.64	23.33	21.82	22.65	20.31	20.52	20.64	21.23
1991 Average	W	17.16	20.20	17.54	15.89	21.39	17.22	21.37	15.92	19.73	17.45	18.08
1992 Average	W	17.04	18.76	(e)	15.60	20.78	17.48	20.63	15.13	19.25	17.63	17.81
1993 January	(e)	15.28	W	(e)	14.50	18.94	16.46	19.12	14.07	17.22	16.49	16.67
February	(e)	15.84	W	(e)	14.98	19.92	17.30	19.28	14.60	18.17	17.30	17.44
March	W	16.48	W	(e)	15.50	20.25	17.56	19.43	15.14	18.44	17.62	17.84
April	W	16.79	20.01	(e)	15.56	20.18	17.46	19.32	15.55	18.41	17.45	17.71
May	W	16.82	20.67	(e)	15.57	19.83	16.45	19.33	14.91	18.33	16.56	17.22
June	(e)	16.25	W	(e)	14.49	18.94	15.83	18.67	13.49	17.42	15.92	16.06
July	W	15.30	17.86	(e)	13.44	18.31	14.95	17.51	12.92	16.45	14.98	15.32
August	(e)	14.94	19.28	(e)	13.66	18.10	15.04	17.56	13.32	16.04	15.09	15.23
September	W	14.56	W	(e)	13.83	17.65	14.31	16.95	13.46	15.53	14.34	14.85
October	W	15.14	W	(e)	14.11	17.98	14.13	16.67	12.70	15.68	14.34	14.70
November	W	14.28	W	(e)	12.63	16.72	13.03	16.57	10.81	14.74	13.15	13.34
December	W	12.44	15.72	(e)	11.39	15.09	11.74	15.14	10.14	12.82	11.67	12.05
Average	**17.34**	**15.27**	**18.55**	(e)	**14.11**	**18.73**	**15.40**	**17.92**	**13.39**	**16.44**	**15.28**	**15.68**
1994 January	W	12.05	W	(e)	11.65	15.56	11.84	14.98	11.72	13.47	11.96	12.90
February	(e)	12.05	16.14	(a)	11.70	14.67	12.12	15.40	11.12	13.51	12.01	12.45
March	W	11.92	W	(a)	11.91	15.11	12.90	14.67	11.78	13.22	12.49	12.84
April	W	13.43	14.82	(a)	13.21	16.44	14.05	15.31	12.72	15.02	13.98	14.36
May	(e)	15.25	16.43	(a)	14.06	17.34	15.58	16.33	13.52	16.40	15.45	15.48
June	W	16.45	16.94	(a)	15.42	18.19	16.81	17.40	14.16	17.07	16.72	16.52
July	W	17.53	18.24	(a)	16.17	18.78	17.02	17.96	15.02	17.73	17.04	16.94
August	W	16.51	19.63	(a)	14.98	17.78	15.61	17.41	13.24	16.92	15.69	15.65
September	W	15.50	W	(a)	14.04	17.39	15.62	16.62	13.04	16.38	15.46	15.25
October	W	15.54	W	(a)	14.82	17.85	15.43	17.06	13.85	16.28	15.35	15.51
November	W	16.07	W	(a)	15.59	18.06	15.88	17.12	13.32	16.91	15.86	15.66
December	W	15.40	W	(a)	15.59	17.47	15.54	16.98	13.32	16.59	15.55	15.32
Average	**W**	**14.83**	**16.87**	(e)	**14.09**	**17.21**	**15.04**	**16.65**	**13.12**	**15.91**	**14.94**	**15.04**
1995 January	W	16.03	W	(e)	R15.52	R17.64	R16.66	R17.35	R13.66	R16.94	R16.65	R16.14
February	W	16.74	W	(e)	R16.23	R18.24	R17.11	R17.70	R14.01	R17.57	R17.03	R16.49
March	W	16.88	18.78	(e)	R16.34	R18.13	R17.15	R18.00	R15.29	R17.78	R17.12	R16.77
April	W	18.22	W	(e)	17.52	19.79	18.54	18.63	17.07	18.48	18.52	18.37

[a] Beginning with February 1994, data for Iran are no longer reported in the *Petroleum Marketing Monthly*.

[b] The Arab members of OPEC are Algeria, Iraq, Kuwait, Libya, Qatar, Saudi Arabia, and the United Arab Emirates.

[c] Current members of OPEC are Gabon, Indonesia, Iran, Nigeria, and Venezuela, as well as the Arab members. Prior to 1993, Ecuador was also a member. The cost of imports from the Neutral Zone between Kuwait and Saudi Arabia is included in the cost of imports from "Total OPEC."

[d] Based on October, November, and December data only.

[e] No data reported.

R=Revised data. 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.

Sources: • **October 1973-September 1977:** Federal Energy Administration, Form FEA-F701-M-0, "Transfer Pricing Report." • **October 1977-December 1977:** Energy Information Administration (EIA), Form FEA-F701-M-0, "Transfer Pricing Report." • **1978 forward:** EIA, *Petroleum Marketing Monthly*, July 1995, 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]
1973 Average	**38.8**	**NA**	**NA**	**NA**
1974 Average	**53.2**	**NA**	**NA**	**NA**
1975 Average	**56.7**	**NA**	**NA**	**NA**
1976 Average	**59.0**	**61.4**	**NA**	**NA**
1977 Average	**62.2**	**65.6**	**NA**	**NA**
1978 Average	**62.6**	**67.0**	**NA**	**65.2**
1979 Average	**85.7**	**90.3**	**NA**	**88.2**
1980 Average	**119.1**	**124.5**	**NA**	**122.1**
1981 Average[b]	**131.1**	**137.8**	**[c] 147.0**	**135.3**
1982 Average	**122.2**	**129.6**	**141.5**	**128.1**
1983 Average	**115.7**	**124.1**	**138.3**	**122.5**
1984 Average	**112.9**	**121.2**	**136.6**	**119.8**
1985 Average	**111.5**	**120.2**	**134.0**	**119.6**
1986 Average	**85.7**	**92.7**	**108.5**	**93.1**
1987 Average	**89.7**	**94.8**	**109.3**	**95.7**
1988 Average	**89.9**	**94.6**	**110.7**	**96.3**
1989 Average	**99.8**	**102.1**	**119.7**	**106.0**
1990 Average	**114.9**	**116.4**	**134.9**	**121.7**
1991 Average	**NA**	**114.0**	**132.1**	**119.6**
1992 Average	**NA**	**112.7**	**131.6**	**119.0**
1993 January	NA	111.7	131.3	118.2
February	NA	110.8	130.1	117.2
March	NA	109.8	129.4	116.3
April	NA	111.2	130.4	117.5
May	NA	112.9	131.9	119.3
June	NA	113.0	132.1	119.4
July	NA	110.9	130.5	117.4
August	NA	109.7	129.4	116.3
September	NA	108.5	128.2	115.1
October	NA	112.7	132.3	119.3
November	NA	111.3	130.5	117.8
December	NA	107.0	126.8	113.6
Average	**NA**	**110.8**	**130.2**	**117.3**
1994 January	NA	104.3	124.0	110.9
February	NA	105.1	124.5	111.4
March	NA	104.5	124.3	110.9
April	NA	106.4	126.0	112.8
May	NA	108.0	127.4	114.3
June	NA	110.6	130.0	116.7
July	NA	113.6	132.7	119.9
August	NA	118.2	136.7	124.3
September	NA	117.7	136.4	123.7
October	NA	115.2	134.5	121.2
November	NA	116.3	135.4	122.2
December	NA	114.3	133.7	120.3
Average	**NA**	**111.2**	**130.5**	**117.4**
1995 January	NA	112.9	132.4	119.0
February	NA	112.0	131.6	118.1
March	NA	111.5	130.6	117.3
April	NA	114.0	132.5	119.7
May	NA	120.0	138.3	125.6

[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 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)

	Residual Fuel Oil Sulfur Content Less Than or Equal to 1 Percent		Residual Fuel Oil Sulfur Content Greater Than 1 Percent		Average	
	Sales for Resale	Sales to End Users	Sales for Resale	Sales to End Users	Sales for Resale	Sales to End Users
1978 Average	**29.3**	**31.4**	**24.5**	**27.5**	**26.3**	**29.8**
1979 Average	**45.0**	**46.8**	**36.6**	**38.9**	**39.9**	**43.6**
1980 Average	**60.8**	**67.5**	**47.9**	**52.3**	**52.8**	**60.7**
1981 Average	**74.8**	**82.9**	**62.2**	**67.3**	**66.3**	**75.6**
1982 Average	**69.5**	**74.7**	**57.2**	**61.1**	**61.2**	**67.6**
1983 Average	**64.3**	**69.5**	**59.1**	**61.1**	**60.9**	**65.1**
1984 Average	**68.5**	**72.0**	**63.9**	**65.9**	**65.4**	**68.7**
1985 Average	**61.0**	**64.4**	**56.0**	**58.2**	**57.7**	**61.0**
1986 Average	**32.8**	**37.2**	**28.9**	**31.7**	**30.5**	**34.3**
1987 Average	**41.2**	**44.7**	**36.2**	**39.6**	**38.5**	**42.3**
1988 Average	**33.3**	**37.2**	**27.1**	**30.0**	**30.0**	**33.4**
1989 Average	**40.7**	**43.6**	**33.1**	**34.4**	**36.0**	**38.5**
1990 Average	**47.2**	**50.5**	**37.2**	**40.0**	**41.3**	**44.4**
1991 Average	**36.4**	**40.2**	**29.2**	**30.6**	**31.4**	**34.0**
1992 Average	**35.1**	**38.9**	**28.6**	**31.2**	**30.8**	**33.6**
1993 January	36.8	40.7	27.3	32.3	31.5	35.2
February	35.5	40.8	26.7	31.0	30.9	34.5
March	39.1	42.6	27.5	31.6	32.9	35.6
April	38.4	43.6	29.0	32.4	33.3	36.5
May	34.8	41.9	27.8	34.1	31.1	36.8
June	33.7	40.6	26.7	31.5	30.2	34.7
July	32.7	40.2	24.6	28.5	27.5	33.1
August	31.6	36.4	23.7	28.7	27.2	32.0
September	31.9	37.0	24.1	28.6	27.1	31.5
October	32.1	38.3	25.7	29.6	28.7	32.2
November	30.7	38.1	22.5	27.5	26.2	30.5
December	27.5	35.1	21.8	25.8	24.8	29.2
Average	**33.7**	**39.7**	**25.6**	**30.3**	**29.3**	**33.7**
1994 January	33.8	39.7	23.2	27.7	28.7	32.5
February	39.3	44.8	25.8	31.3	34.2	36.9
March	30.0	39.9	24.3	29.5	27.5	32.9
April	29.4	35.2	25.8	29.5	27.6	31.1
May	31.7	35.9	27.4	31.1	29.6	32.6
June	35.8	38.6	30.9	34.2	33.4	35.6
July	37.8	41.2	34.4	37.2	36.2	38.4
August	37.1	43.0	32.7	38.2	35.2	39.6
September	32.6	41.1	27.8	32.2	30.1	34.4
October	32.6	38.7	30.6	33.0	31.6	34.4
November	35.7	39.8	33.0	35.4	34.4	36.6
December	36.9	42.2	32.0	36.9	34.1	38.3
Average	**34.5**	**40.1**	**28.9**	**33.0**	**31.8**	**35.2**
1995 January	38.4	46.0	33.3	37.7	35.9	40.0
February	37.1	43.7	33.3	38.2	35.4	39.8
March	38.3	43.4	35.2	39.6	37.0	40.5
April	36.8	42.6	36.1	39.6	36.5	40.3

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*, July 1995, 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 (Consumer Grade)
1978 Average	**43.4**	**53.7**	**38.6**	**40.4**	**36.9**	**36.5**	**23.7**
1979 Average	**63.7**	**72.1**	**66.0**	**62.4**	**56.9**	**57.4**	**29.1**
1980 Average	**94.1**	**112.8**	**86.8**	**86.4**	**80.3**	**80.1**	**41.5**
1981 Average	**106.4**	**125.0**	**101.2**	**106.6**	**97.6**	**97.2**	**46.6**
1982 Average	**97.3**	**122.8**	**95.3**	**101.8**	**91.4**	**91.4**	**42.7**
1983 Average	**88.2**	**117.8**	**85.4**	**89.2**	**81.5**	**80.8**	**48.4**
1984 Average	**83.2**	**116.5**	**83.0**	**91.6**	**82.1**	**80.3**	**45.0**
1985 Average	**83.5**	**113.0**	**79.4**	**87.4**	**77.6**	**77.2**	**39.8**
1986 Average	**53.1**	**91.2**	**49.5**	**60.6**	**48.6**	**45.2**	**29.0**
1987 Average	**58.9**	**85.9**	**53.8**	**59.2**	**52.7**	**53.4**	**25.2**
1988 Average	**57.7**	**85.0**	**49.5**	**54.9**	**47.3**	**47.3**	**24.0**
1989 Average	**65.4**	**95.0**	**58.3**	**66.9**	**56.5**	**56.7**	**24.7**
1990 Average	**78.6**	**106.3**	**77.3**	**83.9**	**69.7**	**69.4**	**38.6**
1991 Average	**69.9**	**100.1**	**65.0**	**72.2**	**62.2**	**61.5**	**34.9**
1992 Average	**67.7**	**99.1**	**60.5**	**63.2**	**57.9**	**59.1**	**32.8**
1993 January	63.8	96.9	57.7	61.4	54.4	54.9	40.2
February	63.8	96.5	60.4	63.7	56.9	57.4	36.7
March	65.2	97.4	60.3	65.4	59.0	60.0	38.2
April	67.7	97.7	59.8	60.8	57.5	59.8	36.2
May	69.1	99.4	60.1	58.3	56.9	59.6	34.0
June	66.2	99.1	58.5	56.9	55.0	57.2	33.8
July	62.7	97.9	55.1	53.6	51.0	53.2	33.3
August	62.9	96.9	55.1	55.6	51.0	53.2	33.3
September	61.5	96.3	56.6	58.7	54.8	58.9	34.1
October	61.7	95.0	60.5	65.5	58.1	65.8	34.7
November	57.0	92.7	58.7	62.4	53.1	58.9	33.6
December	50.3	87.4	51.0	53.6	45.1	46.8	30.9
Average	**62.6**	**96.5**	**57.7**	**60.4**	**54.4**	**57.0**	**35.1**
1994 January	52.1	87.1	52.6	65.7	50.8	49.1	32.3
February	54.6	87.8	56.0	73.5	54.1	52.8	34.0
March	54.9	87.4	52.4	59.8	49.7	52.9	31.8
April	57.8	89.5	50.8	55.0	48.9	52.3	30.5
May	59.2	91.2	50.6	53.2	48.9	51.7	30.4
June	62.6	93.2	51.5	53.8	49.8	52.2	29.9
July	65.4	96.1	53.8	55.1	50.9	53.7	29.8
August	67.8	98.5	54.4	55.1	51.4	54.1	31.0
September	61.0	97.3	54.0	55.3	50.1	54.2	31.7
October	61.5	95.4	54.4	59.1	50.8	55.2	33.5
November	62.2	94.9	56.3	60.7	51.0	55.1	35.0
December	57.9	95.0	53.1	57.4	49.5	50.8	35.8
Average	**59.9**	**93.3**	**53.4**	**61.8**	**50.6**	**52.9**	**32.5**
1995 January	60.1	92.9	52.3	56.7	49.4	50.1	35.6
February	60.3	93.2	52.1	55.2	49.1	50.6	34.5
March	R60.0	93.1	50.1	R52.8	R48.1	R51.2	34.3
April	66.5	96.6	52.7	56.0	50.4	54.7	33.0

[a] See Note 5 at end of section.

R=Revised data.

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*, July 1995, 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 (Consumer Grade)
1978 Average	**48.4**	**51.6**	**38.7**	**42.1**	**40.0**	**37.7**	**33.5**
1979 Average	**71.3**	**68.9**	**54.7**	**58.5**	**51.6**	**58.5**	**35.7**
1980 Average	**103.5**	**108.4**	**86.8**	**90.2**	**78.8**	**81.8**	**48.2**
1981 Average	**114.7**	**130.3**	**102.4**	**112.3**	**91.4**	**99.5**	**56.5**
1982 Average	**106.0**	**131.2**	**96.3**	**108.9**	**90.5**	**94.2**	**59.2**
1983 Average	**95.4**	**125.5**	**87.8**	**96.1**	**91.6**	**82.6**	**70.9**
1984 Average	**90.7**	**123.4**	**84.2**	**103.6**	**91.6**	**82.3**	**73.7**
1985 Average	**91.2**	**120.1**	**79.6**	**103.0**	**84.9**	**78.9**	**71.7**
1986 Average	**62.4**	**101.1**	**52.9**	**79.0**	**56.0**	**47.8**	**74.5**
1987 Average	**66.9**	**90.7**	**54.3**	**77.0**	**58.1**	**55.1**	**70.1**
1988 Average	**67.3**	**89.1**	**51.3**	**73.8**	**54.4**	**50.0**	**71.4**
1989 Average	**75.6**	**99.5**	**59.2**	**70.9**	**58.7**	**58.5**	**61.5**
1990 Average	**88.3**	**112.0**	**76.6**	**92.3**	**73.4**	**72.5**	**74.5**
1991 Average	**79.7**	**104.7**	**65.2**	**83.8**	**66.5**	**64.8**	**73.0**
1992 Average	**78.7**	**102.7**	**61.0**	**78.8**	**62.7**	**61.9**	**64.3**
1993 January	76.9	100.3	58.5	81.4	62.8	59.0	74.8
February	76.0	99.9	59.9	81.3	64.7	60.6	74.3
March	75.7	99.4	60.7	83.2	66.2	62.8	75.4
April	77.8	100.7	59.7	77.0	61.9	62.4	69.5
May	80.1	102.2	59.9	68.8	59.8	62.3	67.3
June	79.8	102.5	58.7	65.3	57.6	60.5	63.9
July	77.6	99.7	55.3	61.4	54.1	56.9	62.2
August	76.2	98.8	54.6	61.9	54.6	56.2	61.8
September	74.9	98.2	56.9	66.5	57.3	60.4	63.6
October	75.4	98.0	61.3	77.5	63.3	66.7	60.2
November	72.6	95.7	59.6	79.4	61.6	62.5	61.6
December	68.0	91.2	51.2	72.5	55.7	52.4	64.0
Average	**75.9**	**99.0**	**58.0**	**75.4**	**60.2**	**60.2**	**67.3**
1994 January	66.7	88.6	51.6	79.5	59.6	52.6	54.9
February	67.6	88.4	55.7	84.1	63.9	55.4	57.1
March	67.3	89.0	51.8	78.2	60.8	54.9	58.5
April	69.5	91.3	50.7	69.7	58.0	54.7	54.9
May	71.1	92.3	50.9	55.2	53.5	54.3	46.3
June	74.1	95.6	51.9	54.5	54.0	54.9	45.5
July	77.0	95.9	53.5	60.4	54.9	55.8	46.4
August	81.5	101.7	54.4	57.8	55.0	56.7	48.3
September	79.6	101.1	53.9	58.3	54.4	56.6	48.8
October	76.9	100.0	55.0	61.5	55.7	57.1	49.4
November	77.5	100.0	57.2	64.0	56.7	57.2	51.0
December	74.9	99.2	53.9	64.7	56.4	54.5	51.9
Average	**73.7**	**95.6**	**53.4**	**66.0**	**57.2**	**55.4**	**51.7**
1995 January	74.5	99.6	52.3	67.4	56.1	53.4	54.5
February	73.3	99.8	52.2	62.7	55.9	53.3	55.1
March	R73.1	R99.0	50.5	59.4	R54.4	R53.5	R53.3
April	77.3	101.3	52.8	56.1	55.6	56.6	46.4

[a] See Note 5 at end of section.

R=Revised data.

Notes: • Sales to end users are those made directly to ultimate consumers, including bulk consumers (such as agriculture, industry, and electric utilities) and residential and commercial consumers. Sales for resale are shown in Table 9.6; they are sales made to purchasers other than ultimate consumers. • Values for the current month are preliminary. • Prices prior to 1983 are Energy Information Administration (EIA) estimates. See Note 6 at end of section. • Geographic coverage is the 50 States and the District of Columbia.

Source: EIA, *Petroleum Marketing Monthly*, July 1995, 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
1978 Average	**48.6**	**50.3**	**50.8**	**48.8**	**50.7**	**50.1**	**50.1**	**49.6**	**48.8**
1979 Average	**68.8**	**72.5**	**72.5**	**70.9**	**72.8**	**72.0**	**71.2**	**71.0**	**69.8**
1980 Average	**96.3**	**100.4**	**101.5**	**97.8**	**101.1**	**98.3**	**98.2**	**97.9**	**96.4**
1981 Average	**120.4**	**123.7**	**125.4**	**121.3**	**123.8**	**121.7**	**123.2**	**121.5**	**118.1**
1982 Average	**115.5**	**117.4**	**120.1**	**117.6**	**120.1**	**118.3**	**120.5**	**117.4**	**113.7**
1983 Average	**102.8**	**104.1**	**112.9**	**109.1**	**110.5**	**109.1**	**112.1**	**107.9**	**105.8**
1984 Average	**103.9**	**108.4**	**111.9**	**111.6**	**111.4**	**112.1**	**115.5**	**111.0**	**107.9**
1985 Average	**99.7**	**102.4**	**107.7**	**107.0**	**106.7**	**108.0**	**111.3**	**105.9**	**102.3**
1986 Average	**74.4**	**75.9**	**86.6**	**82.1**	**82.8**	**89.0**	**91.1**	**90.2**	**81.4**
1987 Average	**74.7**	**76.5**	**81.1**	**80.6**	**82.5**	**83.4**	**85.2**	**84.3**	**76.9**
1988 Average	**77.7**	**78.2**	**82.6**	**82.1**	**83.6**	**85.3**	**86.3**	**84.8**	**77.8**
1989 Average	**89.4**	**89.3**	**90.5**	**92.6**	**93.9**	**92.9**	**95.8**	**91.8**	**85.1**
1990 Average	**98.9**	**102.8**	**107.0**	**108.4**	**108.6**	**109.8**	**112.5**	**108.7**	**102.6**
1991 Average	**96.0**	**91.6**	**101.9**	**103.0**	**99.9**	**106.2**	**111.3**	**104.0**	**99.7**
1992 Average	**87.1**	**85.6**	**92.1**	**92.5**	**91.2**	**94.7**	**102.8**	**93.9**	**89.0**
1993 January	85.2	87.1	93.4	94.0	91.7	94.9	104.4	96.2	88.6
February	85.4	86.9	93.3	94.4	91.8	96.2	104.2	96.4	89.1
March	86.4	86.6	93.7	94.8	92.4	96.7	104.3	96.2	89.8
April	83.0	84.5	91.2	91.5	90.4	93.6	100.4	95.0	89.0
May	81.7	83.9	91.3	91.1	90.7	91.6	99.5	91.6	86.7
June	81.1	82.4	89.7	88.6	87.6	88.6	97.8	87.1	83.9
July	78.5	78.3	85.5	83.9	85.2	86.5	95.1	87.4	78.8
August	77.4	76.0	85.6	83.4	82.7	84.0	92.7	85.3	77.1
September	78.3	74.9	86.6	83.8	84.8	84.2	93.6	85.9	80.4
October	82.9	77.0	87.6	86.1	86.0	88.6	96.3	89.7	83.2
November	80.8	76.9	86.6	85.7	87.8	88.8	95.9	89.4	84.7
December	79.6	77.5	86.9	83.9	85.9	88.2	93.9	87.3	84.2
Average	**82.6**	**82.8**	**90.4**	**89.7**	**89.3**	**91.9**	**100.1**	**92.4**	**86.3**
1994 January	83.7	80.4	88.3	88.5	87.5	90.2	97.3	91.7	87.7
February	90.4	86.6	91.6	91.0	91.7	93.8	100.9	96.0	92.6
March	85.9	83.2	90.8	88.5	90.0	92.1	99.6	94.6	90.4
April	80.8	78.0	88.2	86.3	85.6	89.4	95.5	90.4	86.2
May	77.4	74.9	86.5	84.9	84.4	85.4	96.3	85.2	83.7
June	76.3	72.7	84.5	84.0	83.1	86.3	96.6	83.5	80.3
July	76.3	71.6	82.9	82.5	82.0	84.2	93.9	82.8	75.8
August	78.1	73.1	83.7	78.8	84.5	81.1	89.1	NA	78.0
September	78.5	73.5	83.3	80.9	85.2	80.5	90.8	NA	79.1
October	77.6	74.0	83.9	83.0	84.9	83.7	92.3	NA	80.1
November	77.8	73.7	84.3	83.5	86.2	83.9	93.4	NA	81.3
December	77.6	77.3	85.2	84.3	87.5	86.1	94.6	NA	82.0
Average	**82.0**	**78.9**	**87.3**	**86.9**	**87.7**	**88.7**	**96.6**	**90.0**	**85.7**
1995 January	77.8	78.4	85.8	84.8	87.3	86.7	95.6	NA	83.1
February	77.4	78.5	85.9	84.9	87.3	87.8	97.0	NA	83.4
March	76.3	77.7	85.6	83.7	87.0	87.0	R97.0	NA	82.3
April	76.2	76.5	84.9	83.3	86.5	85.2	94.8	NA	81.0

R=Revised data. 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*, July 1995, 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
1978 Average	**47.8**	**50.7**	**49.2**	**49.1**	**46.2**	**47.4**	**47.9**	**48.5**	**46.5**	**44.7**	**47.8**
1979 Average	**68.2**	**74.2**	**70.1**	**70.4**	**65.1**	**68.6**	**70.9**	**72.7**	**68.8**	**67.3**	**72.4**
1980 Average	**95.4**	**102.6**	**97.9**	**98.5**	**92.2**	**91.9**	**97.8**	**99.6**	**95.8**	**91.5**	**99.9**
1981 Average	**117.3**	**127.4**	**121.4**	**120.5**	**115.0**	**113.2**	**118.3**	**118.5**	**114.9**	**109.1**	**118.4**
1982 Average	**111.3**	**124.5**	**117.1**	**117.7**	**109.3**	**110.2**	**113.9**	**114.3**	**110.9**	**107.8**	**115.1**
1983 Average	**106.0**	**117.0**	**110.3**	**108.7**	**101.0**	**101.3**	**106.4**	**100.7**	**100.4**	**101.2**	**103.1**
1984 Average	**109.6**	**118.7**	**113.5**	**110.5**	**102.1**	**102.1**	**105.0**	**103.1**	**100.1**	**101.0**	**104.1**
1985 Average	**104.6**	**114.3**	**108.8**	**106.3**	**98.0**	**99.7**	**102.1**	**99.1**	**97.5**	**98.3**	**101.9**
1986 Average	**85.0**	**93.1**	**91.4**	**86.6**	**74.6**	**77.7**	**81.0**	**74.8**	**NA**	**75.6**	**79.2**
1987 Average	**79.3**	**91.8**	**86.6**	**79.5**	**76.4**	**74.7**	**77.5**	**75.4**	**79.8**	**75.1**	**74.6**
1988 Average	**80.1**	**91.6**	**87.0**	**80.5**	**74.2**	**74.7**	**77.5**	**75.4**	**77.6**	**73.9**	**73.5**
1989 Average	**88.2**	**98.6**	**93.8**	**87.0**	**83.0**	**81.6**	**85.3**	**83.2**	**80.9**	**81.1**	**82.4**
1990 Average	**105.8**	**107.8**	**111.9**	**110.6**	**99.1**	**98.1**	**100.9**	**99.3**	**96.1**	**94.2**	**101.4**
1991 Average	**99.7**	**112.2**	**108.4**	**101.1**	**93.4**	**91.0**	**94.2**	**91.8**	**92.7**	**89.5**	**91.1**
1992 Average	**92.3**	**105.7**	**100.0**	**92.8**	**86.4**	**83.6**	**87.2**	**81.2**	**87.7**	**81.6**	**82.6**
1993 January	91.2	105.2	100.5	92.4	88.5	84.2	88.1	81.8	87.3	82.8	82.9
February	90.8	106.8	101.4	93.5	88.8	85.5	87.5	82.3	88.2	83.3	83.0
March	92.4	108.5	101.7	94.2	90.1	86.6	89.9	83.1	90.0	84.0	83.9
April	91.6	106.7	99.2	90.3	87.6	86.9	90.5	84.9	86.5	84.6	83.4
May	89.4	104.3	96.2	88.4	87.0	86.0	89.2	83.6	84.8	84.9	84.3
June	90.6	100.4	94.7	85.7	87.0	86.5	87.2	82.0	81.3	84.0	83.6
July	86.4	100.2	92.3	84.5	81.0	79.2	83.2	79.1	79.4	84.0	82.4
August	83.5	96.1	91.3	84.0	80.1	78.6	82.1	76.7	77.4	78.6	79.9
September	84.6	95.5	92.4	84.9	80.5	81.4	85.5	79.3	81.2	82.6	83.1
October	87.4	102.1	94.1	85.1	84.3	85.5	89.9	82.7	87.2	81.6	87.0
November	88.3	100.9	95.8	84.2	84.3	84.5	86.3	80.2	82.4	82.5	84.8
December	88.6	100.5	94.6	85.5	84.8	80.9	82.0	77.1	78.6	78.6	80.6
Average	**89.9**	**104.5**	**98.1**	**89.3**	**85.6**	**84.0**	**87.2**	**81.0**	**84.4**	**82.3**	**83.2**
1994 January	92.1	102.6	98.4	88.6	86.3	81.3	85.6	79.1	77.6	79.4	80.8
February	91.5	105.5	99.2	88.6	86.4	84.0	88.0	81.9	81.6	81.8	80.8
March	91.1	102.0	96.6	86.6	85.1	81.8	87.8	80.7	77.4	82.5	80.2
April	89.1	93.7	92.3	83.1	78.1	81.3	87.7	81.4	74.7	81.5	80.1
May	86.4	83.6	86.6	82.5	74.8	79.8	86.9	80.5	74.4	80.6	79.8
June	82.9	78.9	87.4	79.9	73.6	76.8	86.6	82.0	75.5	79.8	79.9
July	82.0	W	86.2	79.4	73.6	76.9	87.1	80.4	77.2	81.5	79.9
August	82.3	81.9	85.3	80.5	75.2	75.6	84.9	81.6	77.2	79.2	80.8
September	83.3	NA	86.6	80.4	76.2	79.8	84.3	82.2	76.6	79.9	81.2
October	84.9	95.5	89.3	82.3	79.3	79.8	85.8	81.4	77.6	80.6	82.8
November	86.0	97.7	91.8	84.1	81.4	79.9	86.5	81.3	80.8	80.6	81.2
December	86.2	101.3	93.8	84.8	81.7	81.1	86.2	82.5	79.9	81.2	80.3
Average	**89.3**	**99.9**	**95.0**	**85.4**	**81.6**	**81.2**	**86.6**	**81.0**	**77.9**	**80.9**	**80.8**
1995 January	88.5	102.4	94.2	84.9	82.1	81.2	86.2	81.7	82.0	81.1	80.1
February	88.6	103.4	95.0	84.6	82.3	80.9	85.8	80.1	80.8	80.3	79.1
March	R87.6	R103.3	94.2	84.0	R81.4	80.4	R85.7	R82.3	76.6	80.4	R80.4
April	87.0	100.0	91.2	84.0	80.2	82.0	86.4	82.7	78.9	81.1	80.5

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

Notes: • States are grouped in Tables 9.8a, 9.8b, and 9.8c by geographic region of the country. • Values for the current month are preliminary. • Prices prior to 1983 are Energy Information Administration (EIA) estimates. See Note 6 at end of section.

Source: EIA, *Petroleum Marketing Monthly*, July 1995, 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
1978 Average	43.6	48.6	45.8	53.2	49.0
1979 Average	62.1	69.7	68.0	68.2	70.4
1980 Average	91.6	100.8	97.3	97.8	97.4
1981 Average	110.4	116.5	111.4	118.0	119.4
1982 Average	110.4	117.6	111.6	117.4	116.0
1983 Average	101.8	109.0	103.6	108.8	107.8
1984 Average	98.5	102.6	99.3	106.9	109.1
1985 Average	97.2	101.1	97.1	108.3	105.3
1986 Average	73.8	77.5	70.4	94.9	83.6
1987 Average	68.8	79.5	72.5	86.5	80.3
1988 Average	68.8	78.5	70.9	86.9	81.3
1989 Average	77.8	87.4	80.2	96.4	90.0
1990 Average	97.4	102.9	97.0	110.1	106.3
1991 Average	95.1	101.6	93.3	105.0	101.9
1992 Average	85.7	94.0	87.6	94.1	93.4
1993 January	85.0	100.5	91.7	95.1	94.3
February	84.1	101.6	89.9	95.1	94.6
March	87.8	99.0	90.7	96.9	95.4
April	84.6	100.5	92.1	96.1	92.6
May	83.2	99.1	91.3	96.8	91.1
June	82.8	95.1	90.3	98.1	88.9
July	80.0	91.3	86.1	98.0	85.6
August	77.0	89.3	83.5	99.7	84.1
September	85.3	97.1	92.0	95.2	85.5
October	94.7	105.4	100.2	98.6	88.7
November	97.4	103.7	97.4	95.0	88.5
December	81.1	96.6	87.8	91.7	86.6
Average	86.2	99.9	91.8	96.1	91.1
1994 January	73.3	92.8	86.0	88.8	89.6
February	73.8	96.2	87.9	88.5	92.8
March	77.2	96.9	88.4	89.3	91.4
April	76.1	97.3	88.1	88.6	87.9
May	76.8	95.1	87.1	90.0	85.9
June	73.4	91.8	85.1	87.6	84.8
July	74.5	82.9	82.3	88.1	82.6
August	80.8	78.8	NA	81.0	82.2
September	83.1	89.9	87.7	83.4	83.2
October	85.3	95.6	90.8	85.1	84.5
November	84.9	98.9	91.3	86.6	85.6
December	84.5	97.3	89.2	84.0	86.8
Average	78.6	95.1	88.3	87.0	88.3
1995 January	80.3	95.4	88.5	83.5	87.4
February	79.7	94.8	87.0	84.0	87.9
March	R 80.0	R 94.5	R 88.8	84.2	R 87.4
April	NA	96.8	90.5	82.8	86.2

R=Revised data. NA=Not available.

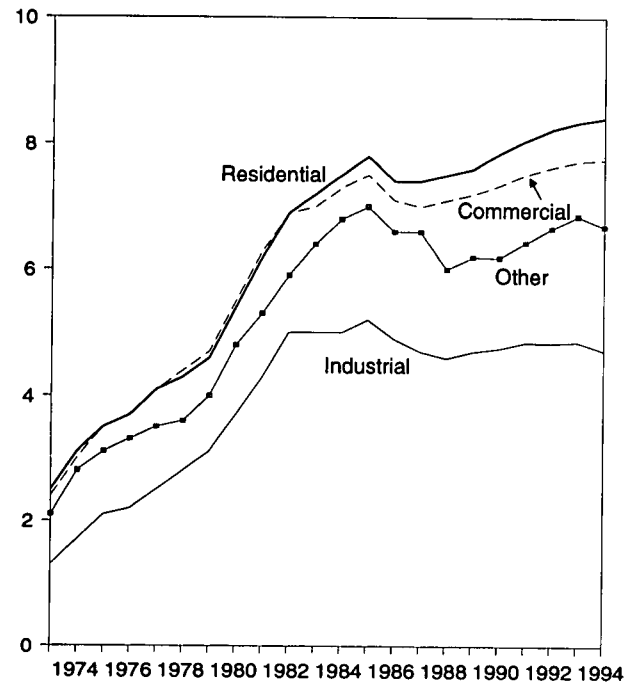
Notes: • States are grouped in Tables 9.8a, 9.8b, and 9.8c by geographic region of the country. • Values for the current month are preliminary. • Prices prior to 1983 are Energy Information Administration (EIA) estimates. See Note 6 at end of section.

Source: EIA, *Petroleum Marketing Monthly*, July 1995, Table 18.

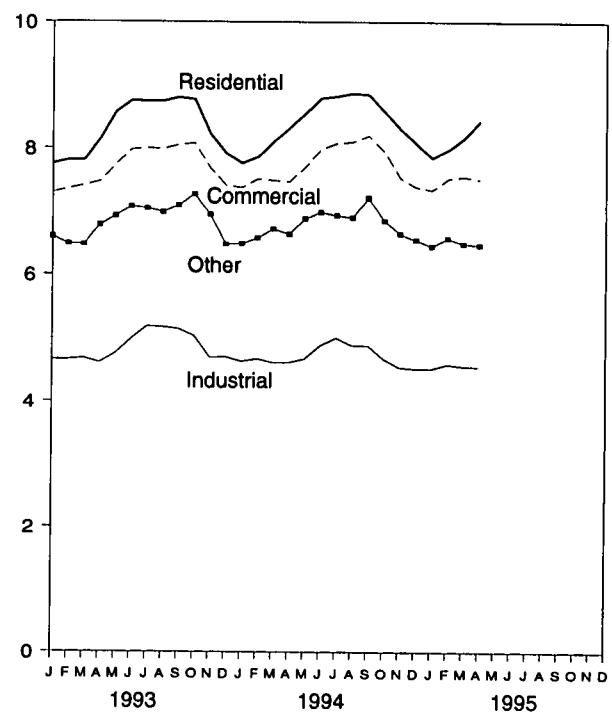
Figure 9.2 Retail Prices of Electricity Sold by Electric Utilities

(Cents per Kilowatthour)

By Sector, 1973-1994



By Sector, Monthly

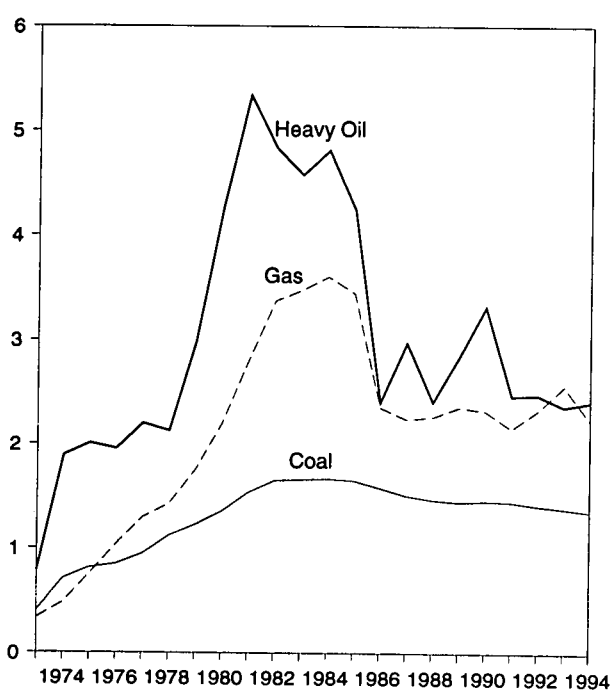


Source: Table 9.9, Monthly Series.

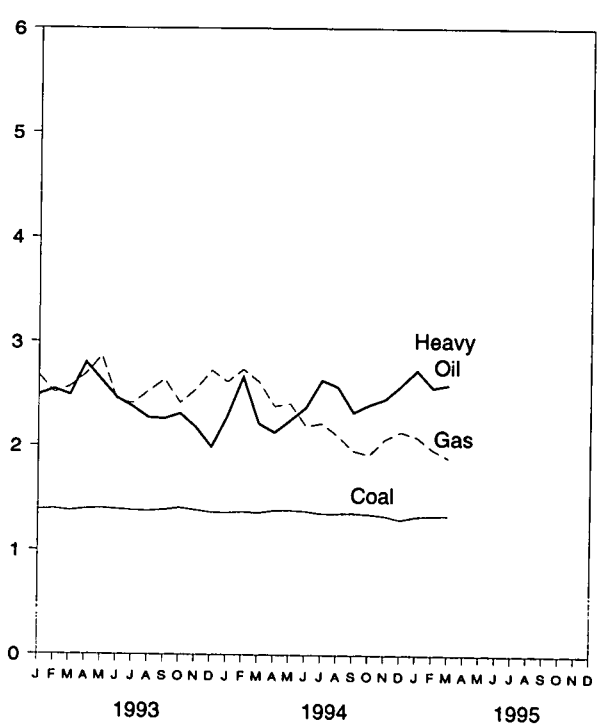
Figure 9.3 Cost of Fossil-Fuel Receipts at Steam-Electric Plants

(Dollars per Million Btu)

Costs, 1973-1994



Costs, Monthly



Source: Table 9.10.

Table 9.9 Retail Prices of Electricity Sold by Electric Utilities

(Cents per Kilowatthour)

	Residential		Commercial		Industrial		Other[a]		Total[b]	
	Monthly Series[c]	Annual Series	Monthly Series[c]	Annual Series	Monthly Series[c]	Annual Series	Monthly Series[c]	Annual Series	Monthly Series[c]	Annual Series
1973 Average	2.5	NA	2.4	NA	1.3	NA	2.1	NA	2.0	NA
1974 Average	3.1	NA	3.0	NA	1.7	NA	2.8	NA	2.5	NA
1975 Average	3.5	NA	3.5	NA	2.1	NA	3.1	NA	2.9	NA
1976 Average	3.7	NA	3.7	NA	2.2	NA	3.3	NA	3.1	NA
1977 Average	4.1	NA	4.1	NA	2.5	NA	3.5	NA	3.4	NA
1978 Average	4.3	NA	4.4	NA	2.8	NA	3.6	NA	3.7	NA
1979 Average	4.6	NA	4.7	NA	3.1	NA	4.0	NA	4.0	NA
1980 Average	5.4	NA	5.5	NA	3.7	NA	4.8	NA	4.7	NA
1981 Average	6.2	NA	6.3	NA	4.3	NA	5.3	NA	5.5	NA
1982 Average	6.9	NA	6.9	NA	5.0	NA	5.9	NA	6.1	NA
1983 Average	7.2	NA	7.0	NA	5.0	NA	6.4	NA	6.3	NA
1984 Average	7.5	7.15	7.3	7.13	5.0	4.83	6.8	5.90	6.5	6.25
1985 Average	7.8	7.39	7.5	7.27	5.2	4.97	7.0	6.09	6.7	6.44
1986 Average	7.4	7.42	7.1	7.20	4.9	4.93	6.6	6.11	6.4	6.44
1987 Average	7.4	7.45	7.0	7.08	4.7	4.77	6.6	6.21	6.3	6.37
1988 Average	7.5	7.48	7.1	7.04	4.6	4.70	6.0	6.20	6.3	6.35
1989 Average	7.6	7.65	7.2	7.20	4.7	4.72	6.2	6.25	6.4	6.45
1990 Average	7.85	7.83	7.34	7.34	4.75	4.74	6.19	6.40	6.57	6.57
1991 Average	8.05	8.04	7.51	7.53	4.85	4.83	6.43	6.51	6.75	6.75
1992 Average	8.23	8.21	7.63	7.66	4.84	4.83	6.66	6.74	6.83	6.82
1993 January	7.75	–	7.30	–	4.66	–	6.60	–	6.61	–
February	7.81	–	7.36	–	4.66	–	6.49	–	6.59	–
March	7.81	–	7.41	–	4.68	–	6.48	–	6.58	–
April	8.14	–	7.47	–	4.61	–	6.79	–	6.61	–
May	8.57	–	7.74	–	4.75	–	6.93	–	6.81	–
June	8.75	–	7.98	–	4.98	–	7.08	–	7.13	–
July	8.74	–	8.00	–	5.18	–	7.05	–	7.36	–
August	8.74	–	7.99	–	5.17	–	6.99	–	7.35	–
September	8.80	–	8.05	–	5.14	–	7.10	–	7.32	–
October	8.77	–	8.08	–	5.03	–	7.27	–	7.15	–
November	8.22	–	7.68	–	4.69	–	6.95	–	6.74	–
December	7.92	–	7.41	–	4.70	–	6.48	–	6.65	–
Average	8.34	8.32	7.72	7.74	4.86	4.85	6.86	6.88	6.92	6.93
1994 January	7.76	–	7.38	–	4.63	–	6.49	–	6.66	–
February	7.86	–	7.51	–	4.67	–	6.58	–	6.69	–
March	8.10	–	7.49	–	4.61	–	6.72	–	6.68	–
April	8.32	–	7.47	–	4.61	–	6.64	–	6.67	–
May	8.55	–	7.70	–	4.67	–	6.89	–	6.80	–
June	8.79	–	7.99	–	4.88	–	6.99	–	7.17	–
July	8.82	–	8.08	–	5.00	–	6.94	–	7.37	–
August	8.87	–	8.10	–	4.88	–	6.91	–	7.29	–
September	8.85	–	8.20	–	4.88	–	7.22	–	7.25	–
October	8.58	–	7.95	–	4.67	–	6.86	–	6.91	–
November	8.31	–	7.53	–	4.54	–	6.65	–	6.65	–
December	8.08	–	7.39	–	4.52	–	6.55	–	6.64	–
Average	8.41	NA	7.75	NA	4.72	NA	6.69	NA	6.92	NA
1995 January	7.85	–	7.34	–	4.52	–	6.45	–	6.60	–
February	7.98	–	7.52	–	4.59	–	6.58	–	6.68	–
March	8.16	–	7.55	–	4.56	–	6.49	–	6.67	–
April	8.43	–	7.51	–	4.55	–	6.47	–	6.67	–
4-Month Average	8.08	–	7.48	–	4.55	–	6.50	–	6.65	–
1994 4-Month Average	7.98	–	7.46	–	4.63	–	6.61	–	6.68	–
1993 4-Month Average	7.86	–	7.38	–	4.65	–	6.59	–	6.60	–

[a] "Other" is public street and highway lighting, other sales to public authorities, sales to railroads and railways, and interdepartmental sales.

[b] Average price for total sales to ultimate consumers.

[c] Annual values are the sum of the monthly revenue divided by the sum of the monthly sales. Data through 1979 cover privately owned electric utilities in Classes A and B. Data for 1980-1985 cover selected privately owned electric utilities in Class A whose electric operating revenue was $100 million or more during the previous year. See Note 7 at end of section.

NA=Not available. – =Not applicable.

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

	Coal		Petroleum				Gas[a]		All Fossil Fuels[b]
			Heavy Oil[b]		Total[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)
1973 Year	**374,842**	**40.5**	**512,650**	**78.5**	**535,859**	**80.0**	**3,382,677**	**33.8**	**47.6**
1974 Year	**384,868**	**70.9**	**479,166**	**189.0**	**515,217**	**191.0**	**3,225,203**	**48.2**	**91.4**
1975 Year	**431,527**	**81.4**	**457,582**	**200.5**	**510,352**	**202.3**	**3,034,808**	**75.2**	**104.4**
1976 Year	**454,858**	**84.8**	**495,363**	**195.2**	**549,973**	**199.0**	**2,962,811**	**103.4**	**111.9**
1977 Year	**490,415**	**94.7**	**563,685**	**219.8**	**635,556**	**224.9**	**3,106,403**	**129.1**	**129.7**
1978 Year	**476,169**	**111.6**	**546,197**	**212.5**	**616,040**	**219.1**	**3,140,654**	**142.2**	**141.1**
1979 Year	**556,558**	**122.4**	**479,705**	**298.8**	**515,695**	**307.2**	**3,368,976**	**174.9**	**163.9**
1980 Year	**593,995**	**135.1**	**394,159**	**426.7**	**419,140**	**435.1**	**3,588,814**	**219.9**	**192.8**
1981 Year	**579,374**	**153.2**	**327,477**	**533.4**	**345,544**	**542.5**	**3,573,558**	**280.5**	**225.6**
1982 Year	**601,427**	**164.7**	**228,200**	**483.2**	**239,111**	**492.2**	**3,161,348**	**337.6**	**224.9**
1983 Year	**592,728**	**165.6**	**211,705**	**457.8**	**219,652**	**462.8**	**2,732,248**	**347.4**	**220.6**
1984 Year	**684,111**	**166.4**	**193,832**	**481.2**	**202,372**	**486.3**	**2,878,808**	**360.3**	**219.1**
1985 Year	**666,743**	**164.8**	**156,410**	**424.4**	**164,947**	**431.7**	**2,808,921**	**344.4**	**209.4**
1986 Year	**686,964**	**157.9**	**220,585**	**240.1**	**228,522**	**243.7**	**2,387,622**	**235.1**	**175.0**
1987 Year	**721,298**	**150.6**	**187,300**	**297.6**	**194,578**	**301.1**	**2,605,191**	**224.0**	**170.6**
1988 Year	**727,775**	**146.6**	**230,234**	**240.5**	**236,924**	**243.9**	**2,362,721**	**226.3**	**164.3**
1989 Year	**753,217**	**144.5**	**237,668**	**284.6**	**246,422**	**289.3**	**2,472,506**	**235.5**	**167.5**
1990 Year	**786,627**	**145.5**	**202,281**	**331.9**	**209,350**	**338.4**	**2,490,979**	**232.1**	**168.9**
1991 Year	**769,923**	**144.7**	**163,106**	**246.5**	**169,625**	**254.8**	**2,630,818**	**215.3**	**160.3**
1992 Year	**775,963**	**141.2**	**138,537**	**247.5**	**144,390**	**255.1**	**2,637,678**	**232.8**	**159.0**
1993 January	65,219	138.5	8,437	248.7	9,027	259.1	159,320	267.3	156.2
February	59,225	139.3	7,002	254.1	7,421	263.8	153,537	250.7	155.6
March	63,957	137.5	8,548	248.6	9,022	258.8	185,876	256.7	156.4
April	63,814	139.3	10,074	280.0	10,534	286.5	169,838	268.9	159.9
May	62,568	140.0	10,378	262.7	10,803	269.3	163,917	286.3	161.7
June	63,702	139.0	10,638	245.8	11,149	254.2	244,015	243.2	159.9
July	59,853	138.0	15,424	237.3	16,045	243.3	313,392	240.9	164.5
August	65,843	137.4	15,099	227.0	15,624	232.2	340,505	252.6	165.1
September	65,357	138.5	15,324	226.1	15,766	231.0	250,296	263.6	162.8
October	67,123	140.5	13,596	231.0	14,005	236.6	226,238	241.3	159.1
November	65,938	138.4	10,868	218.0	11,420	227.3	201,903	254.0	156.9
December	66,552	136.2	16,331	198.8	17,085	205.5	165,685	272.4	154.9
Year	**769,152**	**138.5**	**141,719**	**236.2**	**147,902**	**243.3**	**2,574,523**	**256.0**	**159.5**
1994 January	62,611	135.9	16,700	228.6	17,781	238.0	160,361	261.5	156.7
February	64,409	136.8	16,554	266.2	17,543	274.4	142,783	273.5	159.0
March	72,960	135.9	12,796	221.6	13,318	227.7	179,910	261.5	153.1
April	67,380	138.1	9,904	213.1	10,400	220.9	199,349	238.2	153.6
May	71,130	138.3	13,291	224.8	13,892	231.3	211,907	240.6	155.2
June	70,066	137.4	13,461	237.3	14,333	246.1	302,900	219.2	156.4
July	67,619	135.3	14,215	263.2	14,771	267.9	347,984	221.9	158.9
August	75,308	135.4	11,135	256.9	11,562	262.1	360,874	210.3	153.8
September	69,922	135.8	8,495	232.5	8,966	240.2	283,747	195.7	148.8
October	69,323	134.8	4,689	239.8	5,187	253.9	252,845	191.6	145.6
November	68,846	133.3	6,313	245.2	6,852	256.9	221,118	206.8	146.3
December	72,354	129.7	7,630	258.1	8,336	268.6	200,126	213.9	143.8
Year	**831,929**	**135.5**	**135,184**	**240.9**	**142,940**	**248.8**	**2,863,904**	**223.0**	**152.6**
1995 January	69,981	132.9	5,565	273.1	6,114	282.7	188,389	209.2	145.2
February	65,789	133.4	6,150	256.2	6,535	263.1	163,598	197.0	143.6
March	69,027	133.8	5,040	259.0	5,451	267.6	233,406	189.0	144.3
3 Months	**204,797**	**133.4**	**16,754**	**262.6**	**18,099**	**271.0**	**585,393**	**197.7**	**144.4**
1994 3 Months	**199,981**	**136.2**	**46,051**	**240.1**	**48,643**	**248.3**	**483,054**	**265.1**	**156.1**
1993 3 Months	**188,401**	**138.4**	**23,987**	**250.3**	**25,470**	**260.4**	**498,734**	**258.2**	**156.1**

[a] Includes supplemental gaseous fuels.
[b] Heavy oil includes fuel oil nos. 4, 5, and 6, and topped crude oil. The weighted averages for petroleum and all fossil fuels include both heavy and light oil (fuel oil nos. 1 and 2, kerosene, and jet fuel) prices. Data do not include petroleum coke.
[c] Data for 1973-1982 do not include small quantities of rerefined motor oil, bunker oil, and liquefied petroleum gas.

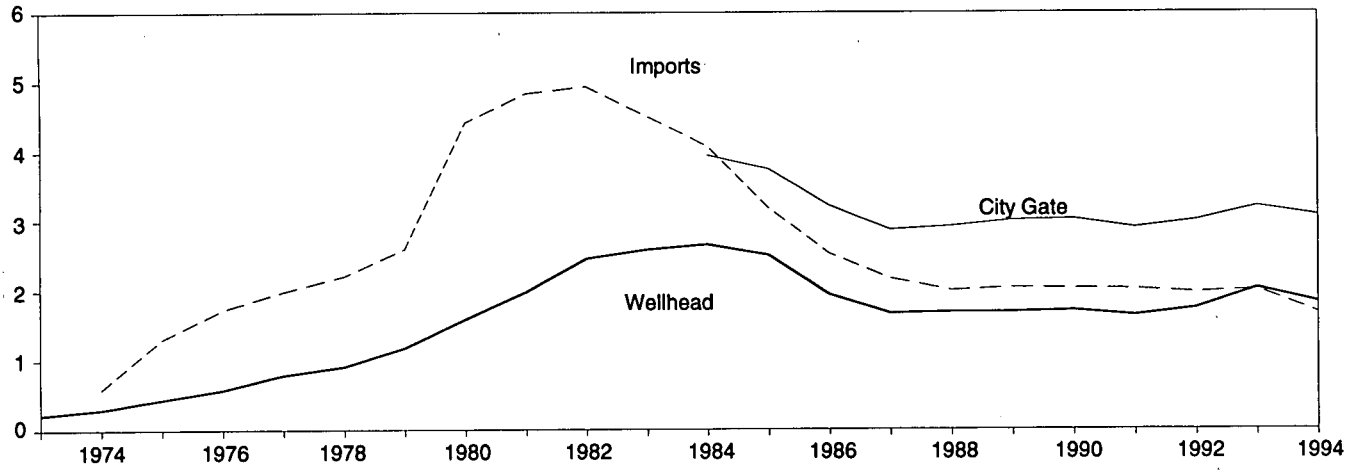
Notes: • See Note 8 at end of section. • Geographic coverage is the 50 States and the District of Columbia.

Sources: See end of section.

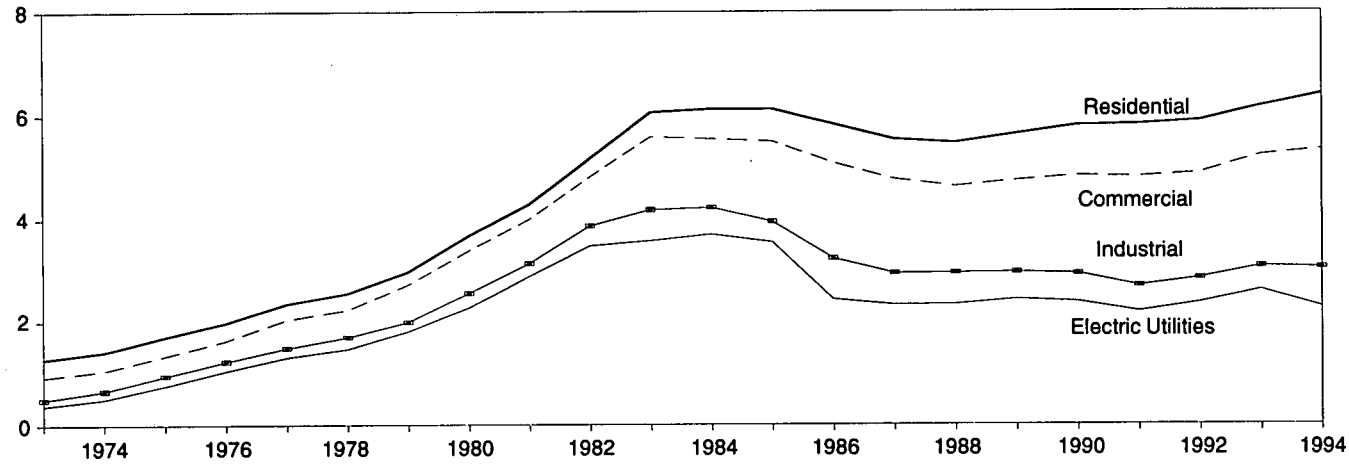
Figure 9.4 Natural Gas Prices

(Dollars per Thousand Cubic Feet)

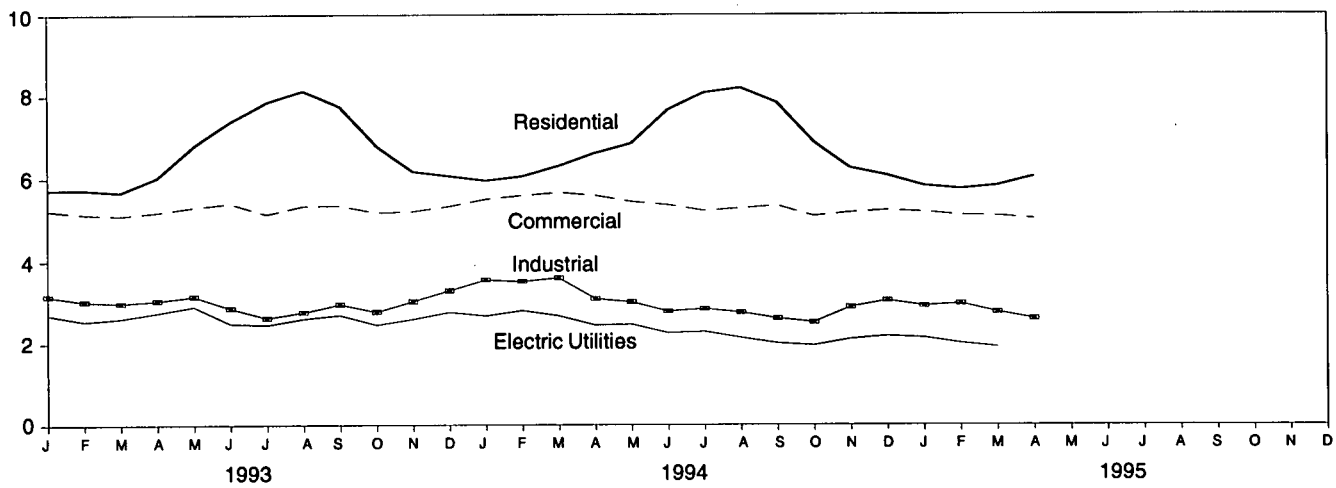
Selected Prices, 1973-1994



Delivered to Consumers, 1973-1994



Delivered to Consumers, Monthly



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

Table 9.11 Natural Gas Prices

(Dollars per Thousand Cubic Feet)

	Wellhead	Major Interstate Pipeline Companies		City Gate	Delivered to Consumers[a,b]			
		Imports	Purchases from Producers		Residential	Commercial	Industrial	Electric Utilities[c]
1973 Average	**0.22**	**NA**	**NA**	**NA**	**1.29**	**0.94**	**0.50**	**0.38**
1974 Average	**.30**	**.59**	**.27**	**NA**	**1.43**	**1.07**	**.67**	**.51**
1975 Average	**.44**	**1.31**	**.37**	**NA**	**1.71**	**1.35**	**.96**	**.77**
1976 Average	**.58**	**1.73**	**.48**	**NA**	**1.98**	**1.64**	**1.24**	**1.06**
1977 Average	**.79**	**1.99**	**.70**	**NA**	**2.35**	**2.04**	**1.50**	**1.32**
1978 Average	**.91**	**2.21**	**.83**	**NA**	**2.56**	**2.23**	**1.70**	**1.48**
1979 Average	**1.18**	**2.60**	**1.22**	**NA**	**2.98**	**2.73**	**1.99**	**1.81**
1980 Average	**1.59**	**4.42**	**1.63**	**NA**	**3.68**	**3.39**	**2.56**	**2.27**
1981 Average	**1.98**	**4.84**	**2.15**	**NA**	**4.29**	**4.00**	**3.14**	**2.89**
1982 Average	**2.46**	**4.94**	**2.72**	**NA**	**5.17**	**4.82**	**3.87**	**3.48**
1983 Average	**2.59**	**4.51**	**2.93**	**NA**	**6.06**	**5.59**	**4.18**	**3.58**
1984 Average	**2.66**	**4.08**	**2.91**	**3.95**	**6.12**	**5.55**	**4.22**	**3.70**
1985 Average	**2.51**	**3.19**	**2.85**	**3.75**	**6.12**	**5.50**	**3.95**	**3.55**
1986 Average	**1.94**	**2.53**	**2.39**	**3.22**	**5.83**	**5.08**	**3.23**	**2.43**
1987 Average	**1.67**	**2.17**	**2.10**	**2.87**	**5.54**	**4.77**	**2.94**	**2.32**
1988 Average	**1.69**	**2.00**	**2.13**	**2.92**	**5.47**	**4.63**	**2.95**	**2.33**
1989 Average	**1.69**	**2.04**	**2.18**	**3.01**	**5.64**	**4.74**	**2.96**	**2.43**
1990 Average	**1.71**	**2.03**	**2.19**	**3.03**	**5.80**	**4.83**	**2.93**	**2.38**
1991 Average	**1.64**	**2.02**	**1.92**	**2.90**	**5.82**	**4.81**	**2.69**	**2.18**
1992 Average	**1.74**	**1.97**	**2.09**	**3.01**	**5.89**	**4.88**	**2.84**	**2.36**
1993 January	1.95	2.04	2.17	3.11	5.73	5.23	3.15	2.70
February	1.76	1.91	1.94	2.94	5.73	5.14	3.02	2.54
March	1.94	1.78	2.21	3.06	5.67	5.10	2.98	2.61
April	2.09	2.15	2.27	3.24	6.02	5.19	3.04	2.75
May	2.35	2.13	2.63	3.58	6.78	5.31	3.14	2.90
June	1.91	1.95	2.02	3.44	7.37	5.40	2.86	2.48
July	1.94	1.78	2.03	3.34	7.85	5.14	2.62	2.45
August	2.04	2.25	2.36	3.35	8.13	5.34	2.76	2.60
September	2.19	2.07	2.59	3.54	7.75	5.35	2.95	2.69
October	1.96	1.96	2.05	3.15	6.79	5.18	2.77	2.45
November	1.96	1.85	2.27	3.15	6.17	5.21	3.02	2.59
December	2.24	2.25	2.69	3.27	6.06	5.33	3.28	2.76
Average	**2.03**	**2.01**	**2.27**	**3.21**	**6.16**	**5.22**	**3.07**	**2.61**
1994 January	2.00	2.09	2.70	3.03	5.95	5.50	3.54	2.67
February	2.13	1.81	3.34	3.27	6.05	5.59	3.50	2.80
March	2.12	2.04	2.76	3.33	6.30	5.66	3.59	2.67
April	1.91	2.06	[R]2.44	3.15	6.61	5.59	3.08	2.44
May	1.94	1.53	2.65	3.18	6.84	5.44	3.00	2.46
June	1.75	1.90	2.43	3.20	7.66	5.36	2.78	2.25
July	1.84	1.44	2.34	3.12	8.08	5.22	2.84	2.28
August	1.74	1.79	2.33	3.16	8.20	5.28	2.75	2.13
September	1.56	1.39	2.08	2.92	7.83	5.34	2.60	2.00
October	1.48	1.28	1.79	2.82	6.87	5.09	2.51	1.95
November	1.68	1.25	1.46	2.85	6.25	5.18	2.88	2.10
December	1.72	1.58	2.85	2.86	6.07	5.23	3.03	2.17
Average	**1.83**	**1.68**	[R]**2.43**	**3.08**	**6.40**	**5.33**	**3.04**	**2.27**
1995 January	1.67	1.42	1.22	2.79	5.82	5.19	2.91	2.13
February	1.50	1.07	2.52	2.71	5.74	5.11	[R]2.96	2.00
March	[R]1.53	1.00	1.72	[R]2.74	[R]5.82	[R]5.09	[R]2.76	[R]1.91
April	[E]1.57	.76	1.83	2.71	6.04	5.02	2.59	NA
4-Month Average	[E]**1.57**	**1.06**	**1.82**	**2.74**	**5.83**	**5.11**	**2.81**	**NA**
1994 4-Month Average	**2.04**	**2.00**	**2.81**	**3.18**	**6.15**	**5.58**	**3.44**	**2.63**
1993 4-Month Average	**1.94**	**1.97**	**2.15**	**3.07**	**5.76**	**5.16**	**3.05**	**2.65**

[a] Includes supplemental gaseous fuels.
[b] See Note 9 at end of section.
[c] See Note 8 at end of section.
R=Revised data. NA=Not available. E=Estimate.
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 March 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 sales among resellers. How-

ever, 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. National average electricity prices are shown in two data series. The "Annual Series" is based on data from publicly and privately owned electric utilities that report on Form EIA-861, "Annual Electric Utility Report." The "Monthly Series" is based on data from over 250 utilities statistically chosen as a sample of the utilities that report on Form EIA-861. The selected utilities report monthly on Form EIA-826, "Monthly Electric Utility Sales and Revenue Report with State Distributions," formerly the "Electric Utility Company Monthly Statement." Annual values shown for the monthly series are the sum of the monthly revenue divided by the sum of the monthly sales. Prior to January 1986, only privately owned utilities were included in the monthly survey and the sample was chosen by using cut-off techniques; from January 1986 through 1992, the sample was chosen using stratification techniques.

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,* July 1995, Table 1.

• **F.O.B. and Landed Cost of Imports: October 1973-September 1977**—Federal Energy Administration, Form FEA-F701-M-0, "Transfer Pricing Report." **October-December 1977**—EIA, Form FEA-F701-M-0, "Transfer Pricing Report." **1978 forward**—EIA, *Petroleum Marketing Monthly,* July 1995, 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,* July 1995, Table 1.

Sources for Table 9.9

• **Monthly Series: 1973-September 1977**—Federal Power Commission, Form FPC-5, "Monthly Statement of Electric Operating Revenue and Income." **October 1977-February 1980**—Federal Energy Regulatory Commission (FERC), Form FERC-5, "Electric Operating Revenue and Income." **March 1980-December 1980**—FERC, Form FERC-5, "Electric Utility Company Monthly Statement." **1981**—Energy Information Administration (EIA), *Electric Power Monthly,* March 1992, Table 59. **1982**—EIA, *Electric Power Monthly,* March 1993, Table 59. **1983**—EIA, *Electric Power Monthly,* March 1994, Table 59. **1984 (and 1993 monthly data)**—EIA, *Electric Power Monthly,* March 1995, Table 60. **1985 forward (except 1993 monthly data)**—EIA, *Electric Power Monthly,* July 1995, Table 60.

• **Annual Series: 1973-1993**—EIA, *Electric Power Monthly,* July 1995, Table 60.

Sources for Table 9.10

• **1973-1979**—Annual data for quantity are simple sums of unrounded monthly values and for cost are averages of monthly values, weighted by quantities of Btu, from the following: **1973-May 1977**—Federal Power Commission, Form FPC-423, "Monthly Report on Cost and Quality of Fuels for Electric Utility Plants." **June 1977-December 1977**—Federal Energy Regulatory Commission, Form FERC-423, "Monthly Report on Cost and

Quality of Fuels for Electric Utility Plants." **1978 and 1979**—Energy Information Administration (EIA), Form FERC-423, "Monthly Report on Cost and Quality of Fuels for Electric Utility Plants."

- **1980**—EIA, *Electric Power Monthly,* April 1991, Table 33.
- **1981**—EIA, *Electric Power Monthly,* April 1992, Table 33.
- **1982**—EIA, *Electric Power Monthly,* April 1993, Table 33.
- **1983**—EIA, *Electric Power Monthly,* April 1994, Table 34.
- **1984 forward**—EIA, *Electric Power Monthly,* July 1995, Table 34.

Sources for Table 9.11

- **1973-1986: Wellhead**—Energy Information Administration (EIA), *Natural Gas Annual 1991,* Table 95. **Major Interstate Pipeline Companies, 1974-1977**—Calculated from revenue and sales data reported to the Federal Power Commission (FPC), Form FPC-11, "Natural Gas Pipeline Company Monthly Statement." **Major Interstate Pipeline Companies,** 1978-1983—EIA, *Natural Gas Monthly,* December 1984, Table 10. **Major Interstate Pipeline Companies, 1984-1986**—EIA, *Natural Gas Monthly,* December 1989, Table 4. **City Gate, 1984-1986**—EIA, *Natural Gas Monthly,* December 1989, Table 4. **Delivered to Consumers, 1973-1986**—EIA, *Natural Gas Annual 1991,* Table 98.
- **1987 forward**—EIA, *Natural Gas Monthly,* July 1995, Table 4.

Section 10. International Energy

Crude Oil Production. World crude oil production during April 1995 was 62 million barrels per day, up 0.7 million barrels per day from the level in the previous month.

Organization of Petroleum Exporting Countries (OPEC) production during April 1995 averaged 26 million barrels per day, up 0.5 million barrels per day from the level during the previous month. Production by the Arab members of OPEC in April 1995 averaged 16 million barrels per day, up 0.1 million barrels per day from the March 1995 level. During April 1995, production increased in Saudi Arabia by 110 thousand barrels per day and in Kuwait by 10 thousand barrels per day. Production remained unchanged in Algeria, Iraq, Libya, Qatar, and the United Arab Emirates. Among the non-Arab members of OPEC, production during April 1995 increased in Nigeria by 160 thousand barrels per day, in Iran by 150 thousand barrels per day, and in Venezuela by 70 thousand barrels per day. Production remained the same in Indonesia

Among the non-OPEC nations, production during April 1995 increased in the former U.S.S.R. by 130 thousand barrels per day and in the United Kingdom by 5 thousand barrels per day. Production decreased in the United States by 45 thousand barrels per day and in Canada by 5 thousand barrels per day. Production remained the same in Ecuador, Mexico, and China.

Petroleum Consumption. In February 1995, consumption in all Organization for Economic Cooperation and Development (OECD) countries was 42.2 million barrels per day, slightly higher than the February 1994 rate. The consumption rate was higher than it was 1 year ago in Italy (+9 percent)[9], Canada (+6 percent), Japan (+5 percent), the United Kingdom (+1 percent), and the United States (slightly higher). The consumption rate was lower in Germany (-6 percent) and France (-5 percent), compared with the level 1 year earlier.

Petroleum Stocks. For all OECD countries, petroleum stocks at the end of February 1995 totaled 3.7 billion barrels, 3 percent higher than the ending stock level in February 1994. Stock levels were higher in Canada (+22 percent), Italy (+4 percent), Japan and France (both +3 percent), the United Kingdom (+2 percent), the United States and Germany (both +1 percent), compared with levels 1 year earlier.

Nuclear Electricity Generation. Based on *Nucleonics Week* information for April 1995, all reporting countries with nuclear capacity generated 178.1 gross terawatthours[10] of nuclear-generated electricity.

During 1994, four nuclear units became operable: Guangdong-2 in China during February; Ikata-3 in Japan during March; Yonggwang-3 in South Korea during October; and Laguna Verde-2 in Mexico during November. Two units were permanently shutdown: Dounreay in the United Kingdom during March and Bugey-1 in France during May.

During the first 4 months of 1995, three nuclear units became operable: Kakrapar-2 in India during January; Sizewell-B in the United Kingdom during February; and Onagawa-2 in Japan during March.

As of April 30, 1995, there were 435 operable nuclear generating units in the world.

[9] Percentage changes are based on unrounded data.
[10] One terawatthour equals 1 billion kilowatthours.

Table 10.1a World Crude Oil Production: Algeria Through Venezuela

(Thousand Barrels per Day)

	Algeria	Iraq	Kuwait[a]	Libya	Qatar	Saudi Arabia[a]	United Arab Emirates	Arab OPEC[b]	Indonesia	Iran	Nigeria	Venezuela
1973 Average	**1,097**	**2,018**	**3,020**	**2,175**	**570**	**7,596**	**1,533**	**18,009**	**1,339**	**5,861**	**2,054**	**3,366**
1974 Average	**1,009**	**1,971**	**2,546**	**1,521**	**518**	**8,480**	**1,679**	**17,724**	**1,375**	**6,022**	**2,255**	**2,976**
1975 Average	**983**	**2,262**	**2,084**	**1,480**	**438**	**7,075**	**1,664**	**15,985**	**1,307**	**5,350**	**1,783**	**2,346**
1976 Average	**1,075**	**2,415**	**2,145**	**1,933**	**497**	**8,577**	**1,936**	**18,579**	**1,504**	**5,883**	**2,067**	**2,294**
1977 Average	**1,152**	**2,348**	**1,969**	**2,063**	**445**	**9,245**	**1,999**	**19,221**	**1,686**	**5,663**	**2,085**	**2,238**
1978 Average	**1,231**	**2,563**	**2,131**	**1,983**	**487**	**8,301**	**1,831**	**18,525**	**1,635**	**5,242**	**1,897**	**2,165**
1979 Average	**1,224**	**3,477**	**2,500**	**2,092**	**508**	**9,532**	**1,831**	**21,163**	**1,591**	**3,168**	**2,302**	**2,356**
1980 Average	**1,106**	**2,514**	**1,656**	**1,787**	**472**	**9,900**	**1,709**	**19,144**	**1,577**	**1,662**	**2,055**	**2,168**
1981 Average	**1,002**	**1,000**	**1,125**	**1,140**	**405**	**9,815**	**1,474**	**15,961**	**1,605**	**1,380**	**1,433**	**2,102**
1982 Average	**987**	**1,012**	**823**	**1,150**	**330**	**6,483**	**1,250**	**12,035**	**1,339**	**2,214**	**1,295**	**1,895**
1983 Average	**968**	**1,005**	**1,064**	**1,105**	**295**	**5,086**	**1,149**	**10,672**	**1,343**	**2,440**	**1,241**	**1,801**
1984 Average	**1,014**	**1,209**	**1,157**	**1,087**	**394**	**4,663**	**1,146**	**10,670**	**1,412**	**2,174**	**1,388**	**1,798**
1985 Average	**1,037**	**1,433**	**1,023**	**1,059**	**301**	**3,388**	**1,193**	**9,434**	**1,325**	**2,250**	**1,495**	**1,677**
1986 Average	**945**	**1,690**	**1,419**	**1,034**	**308**	**4,870**	**1,330**	**11,596**	**1,390**	**2,035**	**1,467**	**1,787**
1987 Average	**1,048**	**2,079**	**1,585**	**972**	**293**	**4,265**	**1,541**	**11,783**	**1,343**	**2,298**	**1,341**	**1,752**
1988 Average	**1,040**	**2,685**	**1,492**	**1,175**	**346**	**5,086**	**1,565**	**13,389**	**1,342**	**2,240**	**1,450**	**1,903**
1989 Average	**1,095**	**2,897**	**1,783**	**1,150**	**380**	**5,064**	**1,860**	**14,229**	**1,409**	**2,810**	**1,716**	**1,907**
1990 Average	**1,175**	**2,040**	**1,175**	**1,375**	**406**	**6,410**	**2,117**	**14,698**	**1,462**	**3,088**	**1,810**	**2,137**
1991 Average	**1,230**	**305**	**190**	**1,483**	**395**	**8,115**	**2,386**	**14,104**	**1,592**	**3,312**	**1,892**	**2,375**
1992 Average	**1,214**	**425**	**1,058**	**1,433**	**423**	**8,332**	**2,266**	**15,151**	**1,504**	**3,429**	**1,943**	**2,371**
1993 January	1,210	500	1,675	1,480	456	8,500	2,244	16,065	1,572	3,650	2,125	2,484
February	1,210	500	1,865	1,425	436	8,440	2,254	16,130	1,552	3,750	2,105	2,464
March	1,200	500	1,650	1,350	406	8,300	2,219	15,625	1,521	3,700	2,075	2,412
April	1,200	500	1,645	1,350	406	8,000	2,219	15,320	1,501	3,500	2,025	2,412
May	1,200	500	1,712	1,350	426	8,000	2,180	15,369	1,531	3,650	2,025	2,412
June	1,200	500	1,775	1,350	406	8,150	2,180	15,561	1,531	3,650	1,995	2,412
July	1,180	500	1,940	1,350	416	8,240	2,161	15,786	1,531	3,800	1,975	2,464
August	1,180	500	2,045	1,370	416	8,345	2,161	16,016	1,531	3,500	2,025	2,464
September	1,180	530	2,020	1,370	416	8,270	2,170	15,956	1,531	3,650	2,045	2,453
October	1,180	530	2,045	1,390	416	8,145	2,170	15,876	1,501	3,700	2,005	2,474
November	1,170	540	2,045	1,370	416	7,995	2,170	15,706	1,501	3,550	2,025	2,474
December	1,170	540	2,050	1,370	416	8,000	2,170	15,716	1,531	3,700	2,175	2,474
Average	**1,190**	**512**	**1,872**	**1,377**	**419**	**8,198**	**2,191**	**15,759**	**1,528**	**3,650**	**2,050**	**2,450**
1994 January	1,170	545	1,995	1,370	445	8,095	2,250	15,870	1,510	3,635	2,200	2,490
February	1,170	545	1,998	1,370	430	8,088	2,275	15,875	1,510	3,585	2,200	2,490
March	1,170	545	2,005	1,370	445	8,095	2,250	15,880	1,510	3,685	2,150	2,490
April	1,170	555	2,020	1,370	445	8,110	2,250	15,920	1,510	3,535	2,070	2,480
May	1,170	555	2,050	1,370	445	8,090	2,260	15,940	1,510	3,585	2,100	2,500
June	1,170	555	2,050	1,370	455	8,090	2,280	15,970	1,510	3,685	2,090	2,500
July	1,170	555	2,050	1,380	475	8,100	2,280	16,010	1,510	3,585	1,990	2,520
August	1,170	555	2,050	1,390	435	8,120	2,280	16,000	1,530	3,635	1,630	2,540
September	1,170	555	2,050	1,370	445	8,180	2,280	16,050	1,510	3,685	2,010	2,540
October	1,170	555	2,045	1,390	385	8,245	2,240	16,030	1,520	3,635	2,080	2,540
November	1,170	555	2,045	1,390	455	8,245	2,240	16,100	1,520	3,735	1,980	2,540
December	1,170	555	2,050	1,390	465	8,300	2,270	16,200	1,520	3,635	1,965	2,530
Average	**1,170**	**553**	**2,034**	**1,378**	**444**	**8,147**	**2,263**	**15,988**	**1,514**	**3,635**	**2,037**	**2,514**
1995 January	1,180	555	2,070	1,390	455	8,120	2,280	16,050	1,520	3,585	2,000	2,600
February	1,180	555	2,070	1,390	475	8,220	2,280	16,170	1,500	3,685	1,980	2,600
March	1,180	555	2,060	1,390	485	8,110	2,280	16,060	1,510	3,485	1,890	2,600
April	1,180	555	2,070	1,390	485	8,220	2,280	16,180	1,510	3,635	2,050	2,670
4-Mo. Avg.	**1,180**	**555**	**2,067**	**1,390**	**475**	**8,166**	**2,280**	**16,113**	**1,510**	**3,595**	**1,979**	**2,618**
1994 4-Mo. Avg.	**1,170**	**548**	**2,004**	**1,370**	**442**	**8,097**	**2,256**	**15,886**	**1,510**	**3,611**	**2,155**	**2,488**
1993 4-Mo. Avg.	**1,205**	**500**	**1,705**	**1,401**	**426**	**8,309**	**2,234**	**15,780**	**1,536**	**3,649**	**2,082**	**2,443**

[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 April 1995, Neutral Zone production by both Kuwait and Saudi Arabia totaled about 440 thousand barrels per day.

[b] The Arab members of the Organization of Petroleum Exporting Countries (OPEC) are Algeria, Iraq, Kuwait, Libya, Qatar, Saudi Arabia, and the United Arab Emirates. Production in the Neutral Zone between Kuwait and Saudi Arabia is included in "Arab OPEC."

Notes: • Crude oil includes lease condensate but excludes natural gas plant liquids. • Monthly data are often preliminary figures and may not average to the annual totals because of rounding or because updates to the preliminary monthly data are not available.

Sources: See end of section.

Table 10.1b World Crude Oil Production: Total OPEC, Ecuador Through Former U.S.S.R., and World

(Thousand Barrels per Day)

	Total OPEC[a]	Ecuador[a]	Persian Gulf Nations[b]	Canada	China	Mexico	United Kingdom	United States	Former U.S.S.R.	Other[c]	World
1973 Average	**30,779**	**209**	**20,668**	**1,798**	**1,090**	**465**	**2**	**9,208**	**8,324**	**3,804**	**55,679**
1974 Average	**30,552**	**177**	**21,282**	**1,551**	**1,315**	**571**	**2**	**8,774**	**8,912**	**3,862**	**55,716**
1975 Average	**26,994**	**161**	**18,934**	**1,430**	**1,490**	**705**	**12**	**8,375**	**9,523**	**4,139**	**52,828**
1976 Average	**30,549**	**188**	**21,514**	**1,314**	**1,670**	**831**	**245**	**8,132**	**10,060**	**4,355**	**57,344**
1977 Average	**31,115**	**183**	**21,725**	**1,321**	**1,874**	**981**	**768**	**8,245**	**10,603**	**4,616**	**59,707**
1978 Average	**29,673**	**202**	**20,606**	**1,316**	**2,082**	**1,209**	**1,082**	**8,707**	**11,105**	**4,782**	**60,158**
1979 Average	**30,784**	**214**	**21,066**	**1,500**	**2,122**	**1,461**	**1,568**	**8,552**	**11,384**	**5,089**	**62,674**
1980 Average	**26,781**	**204**	**17,961**	**1,435**	**2,114**	**1,936**	**1,622**	**8,597**	**11,706**	**5,204**	**59,599**
1981 Average	**22,632**	**211**	**15,245**	**1,285**	**2,012**	**2,313**	**1,811**	**8,572**	**11,850**	**5,390**	**56,076**
1982 Average	**18,934**	**211**	**12,156**	**1,271**	**2,045**	**2,748**	**2,065**	**8,649**	**11,912**	**5,646**	**53,481**
1983 Average	**17,654**	**237**	**11,081**	**1,356**	**2,120**	**2,689**	**2,291**	**8,688**	**11,972**	**6,248**	**53,255**
1984 Average	**17,599**	**258**	**10,784**	**1,438**	**2,296**	**2,780**	**2,480**	**8,879**	**11,861**	**6,897**	**54,488**
1985 Average	**16,353**	**281**	**9,630**	**1,471**	**2,505**	**2,745**	**2,530**	**8,971**	**11,585**	**7,540**	**53,981**
1986 Average	**18,441**	**293**	**11,696**	**1,474**	**2,620**	**2,435**	**2,539**	**8,680**	**11,895**	**7,850**	**56,227**
1987 Average	**18,672**	**174**	**12,103**	**1,535**	**2,690**	**2,548**	**2,406**	**8,349**	**12,050**	**8,242**	**56,666**
1988 Average	**20,483**	**302**	**13,457**	**1,616**	**2,730**	**2,512**	**2,232**	**8,140**	**12,053**	**8,669**	**58,737**
1989 Average	**22,279**	**279**	**14,837**	**1,560**	**2,757**	**2,520**	**1,802**	**7,613**	**11,715**	**9,338**	**59,863**
1990 Average	**23,465**	**285**	**15,278**	**1,553**	**2,774**	**2,553**	**1,820**	**7,355**	**10,975**	**9,785**	**60,566**
1991 Average	**23,569**	**299**	**14,741**	**1,548**	**2,835**	**2,680**	**1,797**	**7,417**	**9,992**	**10,074**	**60,210**
1992 Average	**24,695**	**318**	**16,104**	**1,598**	**2,838**	**2,668**	**1,825**	**7,171**	**8,931**	**10,169**	**60,213**
1993 January	26,213	330	17,066	1,572	2,885	2,605	1,821	6,961	8,249	10,478	61,113
February	26,317	330	17,285	1,612	2,875	2,610	1,931	6,943	8,233	10,618	61,468
March	25,650	330	16,816	1,637	2,885	2,635	1,715	6,974	8,127	10,782	60,736
April	25,075	330	16,311	1,607	2,900	2,674	1,701	6,881	8,106	10,750	60,024
May	25,304	345	16,509	1,662	2,925	2,673	1,751	6,847	7,926	10,781	60,213
June	25,466	350	16,702	1,727	2,960	2,675	1,680	6,795	7,826	10,460	59,939
July	25,863	350	17,097	1,712	2,930	2,650	1,936	6,688	7,530	10,874	60,533
August	25,843	350	17,007	1,772	2,855	2,650	1,946	6,758	7,429	10,748	60,351
September	25,942	350	17,097	1,742	2,895	2,700	1,951	6,712	7,313	10,764	60,368
October	25,863	360	17,047	1,727	2,975	2,700	2,067	6,839	7,308	10,987	60,824
November	25,563	360	16,757	1,677	2,945	2,730	2,202	6,912	7,313	11,179	60,879
December	25,903	360	16,917	1,712	2,898	2,745	2,277	6,858	7,281	11,237	61,270
Average	**25,748**	**346**	**16,883**	**1,680**	**2,911**	**2,671**	**1,915**	**6,847**	**7,717**	**10,806**	**60,640**
1994 January	25,995	360	17,000	1,669	2,900	2,745	2,280	6,817	6,985	11,104	60,854
February	25,950	360	16,955	1,722	2,920	2,710	2,280	6,770	6,715	11,260	60,687
March	26,025	360	17,060	1,706	2,920	2,685	2,315	6,746	6,660	11,180	60,598
April	25,845	365	16,950	1,671	2,940	2,700	2,340	6,612	6,485	11,190	60,148
May	25,975	365	17,020	1,706	2,940	2,690	2,345	6,688	6,635	11,240	60,584
June	26,095	375	17,150	1,729	2,950	2,675	2,340	6,611	6,650	11,478	60,902
July	25,955	385	17,080	1,801	2,940	2,675	2,275	6,501	6,540	11,435	60,507
August	25,675	385	17,110	1,790	2,950	2,675	2,315	6,544	6,520	11,525	60,379
September	26,135	400	17,230	1,817	2,910	2,680	2,475	6,609	6,480	11,505	61,011
October	26,145	395	17,140	1,735	2,950	2,685	2,435	6,658	6,560	11,940	61,504
November	26,215	395	17,310	1,778	2,970	2,675	2,485	6,628	6,580	11,950	61,676
December	26,190	395	17,310	1,793	2,980	2,675	2,605	6,760	6,520	12,084	62,001
Average	**26,017**	**378**	**17,110**	**1,743**	**2,939**	**2,689**	**2,375**	**6,662**	**6,611**	**11,493**	**60,906**
1995 January	26,090	400	17,100	1,792	2,950	2,680	2,520	E 6,596	6,415	12,074	61,517
February	26,270	400	17,320	R 1,774	R 3,000	2,645	2,610	E 6,703	6,485	R 11,999	R 61,886
March	25,880	410	17,010	R 1,750	R 3,000	R 2,670	R 2,565	E 6,606	6,345	R 12,122	R 61,348
April	26,380	410	17,280	1,745	3,000	2,670	2,570	E 6,561	6,475	12,189	62,000
4-Mo. Avg.	**26,150**	**405**	**17,173**	**1,765**	**2,987**	**2,667**	**2,565**	E **6,615**	**6,428**	**12,098**	**61,680**
1994 4-Mo. Avg.	**25,955**	**361**	**16,993**	**1,691**	**2,920**	**2,710**	**2,304**	**6,736**	**6,713**	**11,182**	**60,572**
1993 4-Mo. Avg.	**25,808**	**330**	**16,864**	**1,606**	**2,886**	**2,631**	**1,789**	**6,940**	**8,178**	**10,657**	**60,826**

[a] "Total OPEC" consists of Algeria, Gabon, Indonesia, Iran, Iraq, Kuwait, Libya, Nigeria, Qatar, Saudi Arabia, the United Arab Emirates, and Venezuela. Production from the Neutral Zone between Kuwait and Saudi Arabia is included in "Total OPEC." Although Ecuador belonged to OPEC from November 19, 1973, until December 31, 1992, when it formally withdrew, it is not included in "Total OPEC."

[b] 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."

[c] "Other" is a calculated total derived from the difference between "World" and the sum of production in "Total OPEC," Ecuador, Canada, China, Mexico, the United Kingdom, the United States, and the former U.S.S.R.

R=Revised data. E=Estimate.

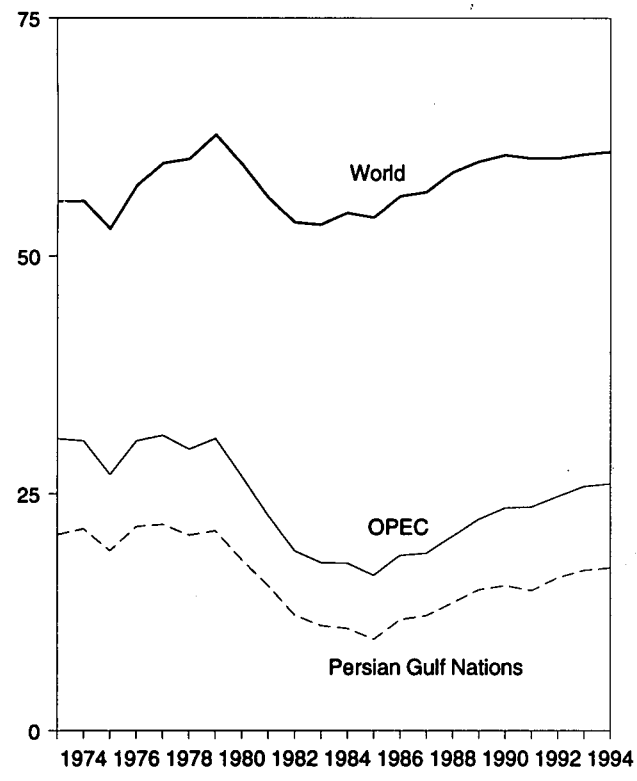
Notes: • Crude oil includes lease condensate but excludes natural gas plant liquids. • Monthly data are often preliminary figures and may not average to the annual totals because of rounding or because updates to the preliminary monthly data are not available. • Data for countries may not sum to World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

Sources: See end of section.

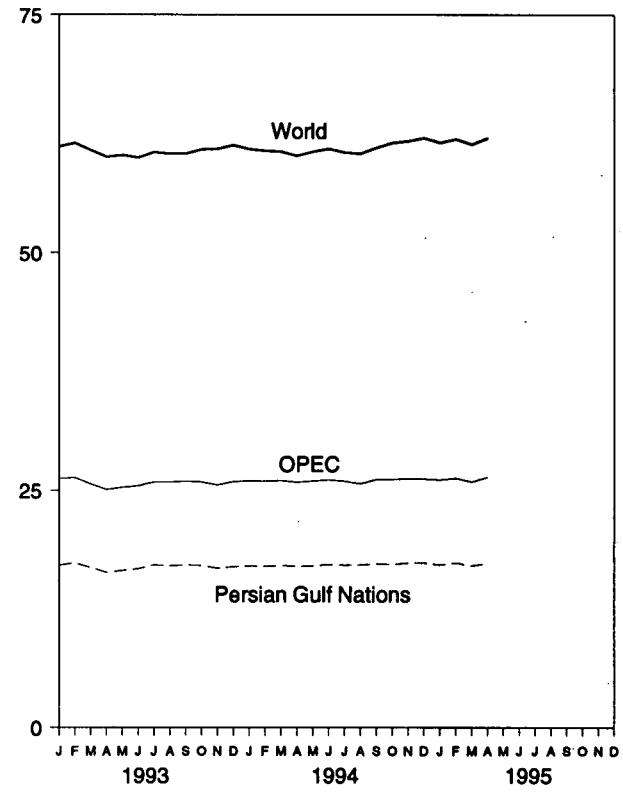
Figure 10.1 Crude Oil Production

(Million Barrels per Day)

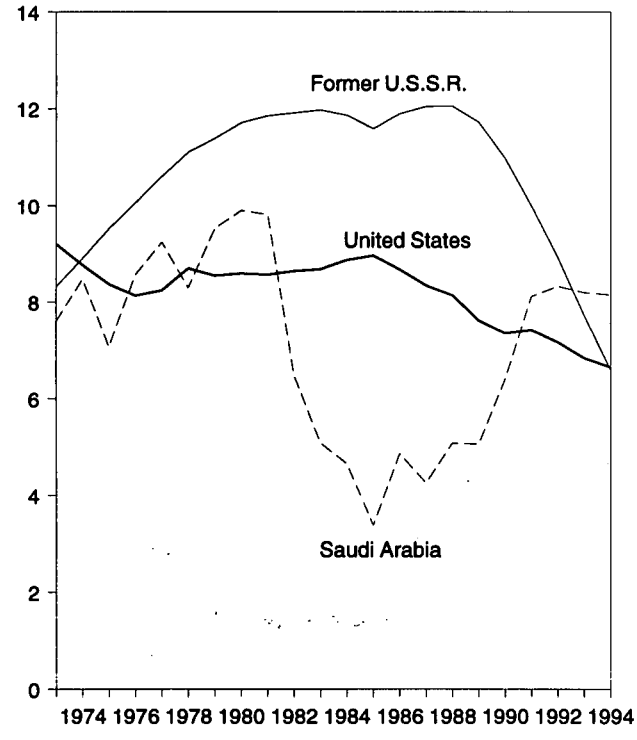
World Production, 1973-1994



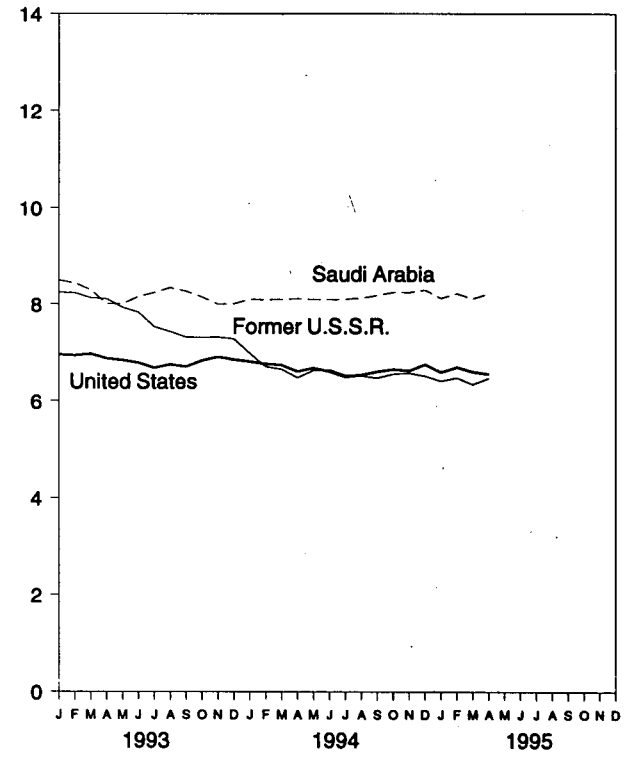
World Production, Monthly



Leading Producers, 1973-1994



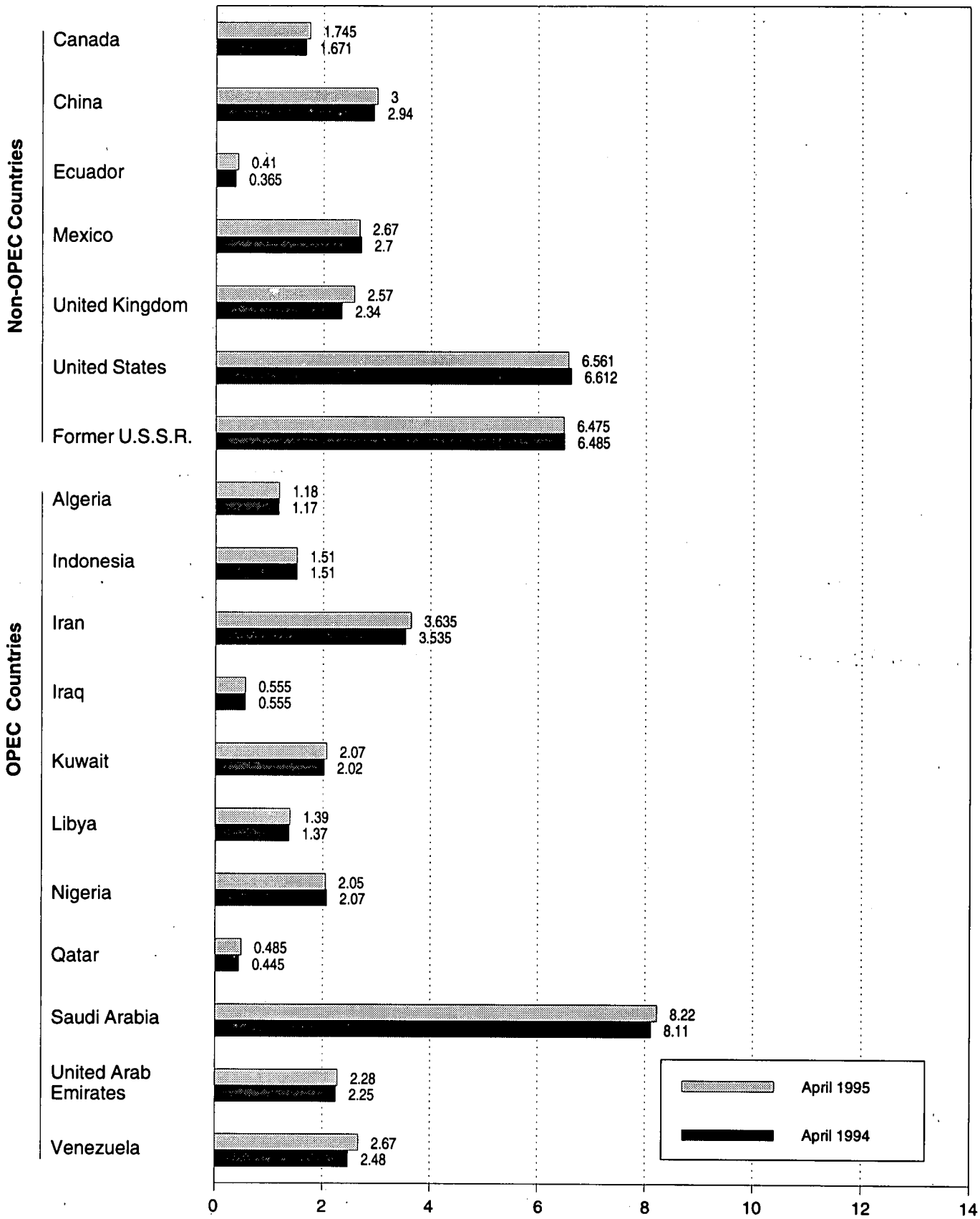
Leading Producers, Monthly



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

Figure 10.2 Crude Oil Production by Selected Country

(Million Barrels per Day)

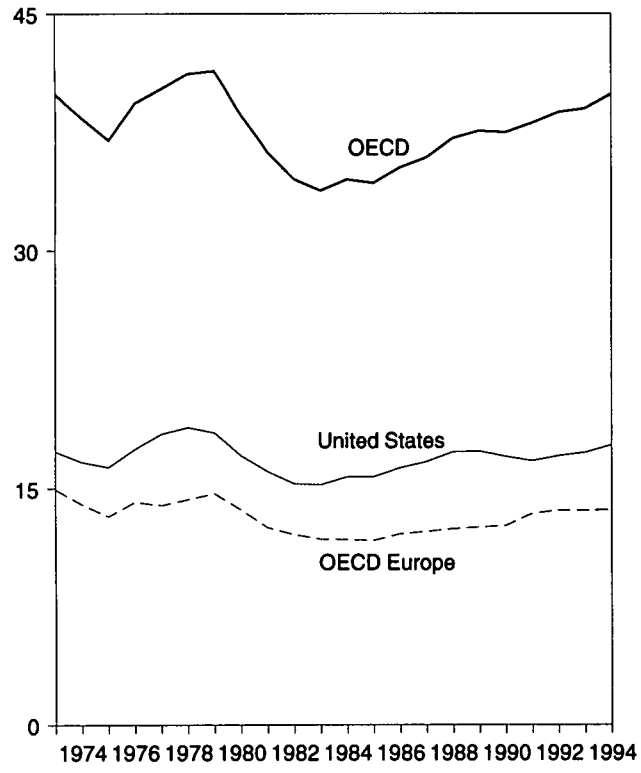


Note: OPEC is the Organization of Petroleum Exporting Countries.
Sources: Tables 10.1a and 10.1b.

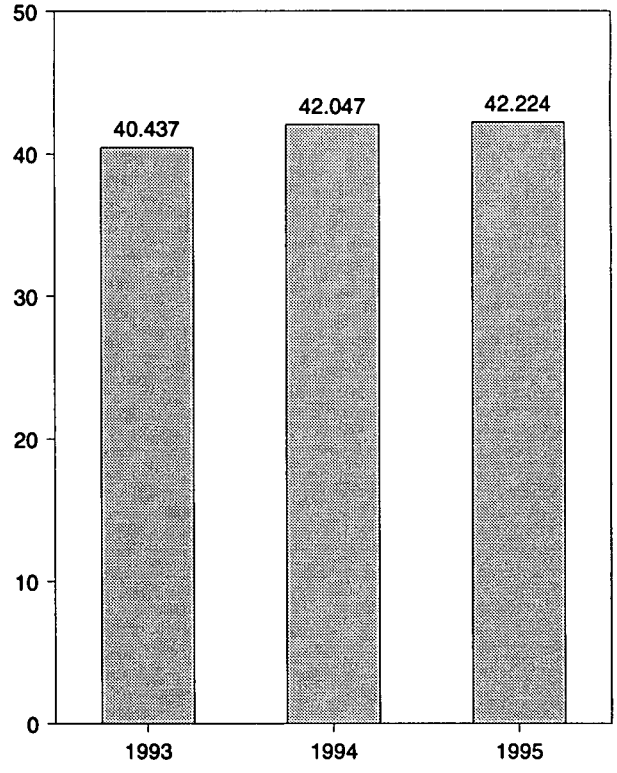
Figure 10.3 Petroleum Consumption in OECD Countries

(Million Barrels per Day)

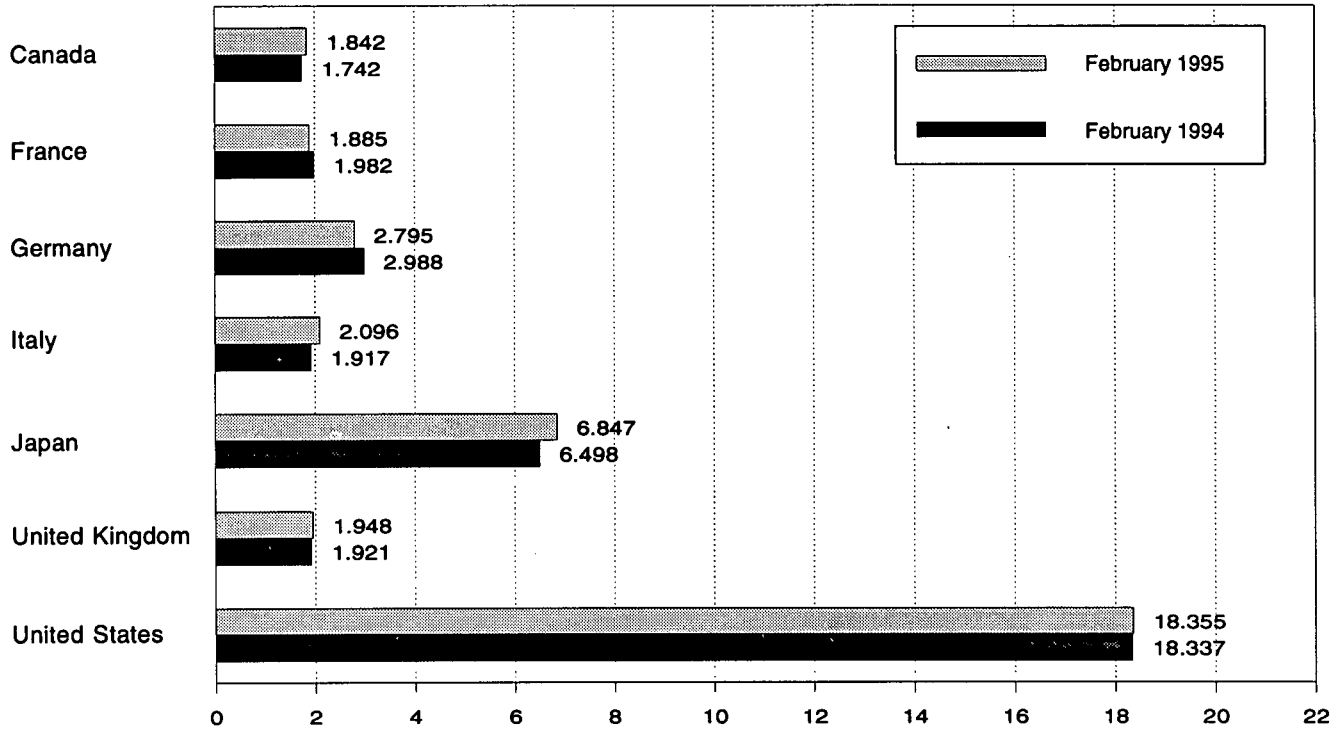
Overview, 1973-1994



OECD Total, February



By Selected OECD Country



Note: OECD is the Organization for Economic Cooperation and Development.
Source: Table 10.2.

Table 10.2 Petroleum Consumption in OECD Countries

(Thousand Barrels per Day)

	Canada	France	Germany[a]	Italy	Japan	United Kingdom	United States	OECD Europe[b]	Other OECD[c]	OECD[d]
1973 Average	**1,729**	**2,601**	**3,055**	**2,068**	**4,949**	**2,341**	**17,308**	**14,925**	**988**	**39,900**
1974 Average	**1,779**	**2,447**	**2,748**	**2,004**	**4,864**	**2,210**	**16,653**	**13,988**	**1,095**	**38,379**
1975 Average	**1,779**	**2,252**	**2,650**	**1,855**	**4,621**	**1,911**	**16,322**	**13,217**	**1,041**	**36,980**
1976 Average	**1,818**	**2,420**	**2,877**	**1,971**	**4,837**	**1,892**	**17,461**	**14,124**	**1,119**	**39,358**
1977 Average	**1,850**	**2,294**	**2,865**	**1,897**	**4,880**	**1,905**	**18,431**	**13,916**	**1,160**	**40,237**
1978 Average	**1,902**	**2,408**	**2,927**	**1,952**	**4,945**	**1,938**	**18,847**	**14,290**	**1,204**	**41,187**
1979 Average	**1,971**	**2,463**	**3,003**	**2,039**	**5,050**	**1,971**	**18,513**	**14,667**	**1,178**	**41,379**
1980 Average	**1,873**	**2,256**	**2,707**	**1,934**	**4,960**	**1,725**	**17,056**	**13,634**	**1,072**	**38,595**
1981 Average	**1,768**	**2,023**	**2,449**	**1,874**	**4,848**	**1,590**	**16,058**	**12,515**	**1,080**	**36,269**
1982 Average	**1,578**	**1,880**	**2,372**	**1,781**	**4,582**	**1,590**	**15,296**	**12,053**	**1,008**	**34,517**
1983 Average	**1,448**	**1,835**	**2,324**	**1,750**	**4,395**	**1,531**	**15,231**	**11,765**	**954**	**33,793**
1984 Average	**1,472**	**1,754**	**2,322**	**1,646**	**4,576**	**1,849**	**15,726**	**11,736**	**989**	**34,500**
1985 Average	**1,504**	**1,775**	**2,338**	**1,717**	**4,384**	**1,634**	**15,726**	**11,681**	**976**	**34,271**
1986 Average	**1,506**	**1,772**	**2,498**	**1,738**	**4,439**	**1,649**	**16,281**	**12,102**	**951**	**35,279**
1987 Average	**1,548**	**1,789**	**2,424**	**1,855**	**4,484**	**1,603**	**16,665**	**12,255**	**959**	**35,911**
1988 Average	**1,693**	**1,797**	**2,422**	**1,836**	**4,752**	**1,697**	**17,283**	**12,427**	**939**	**37,093**
1989 Average	**1,733**	**1,857**	**2,280**	**1,930**	**4,983**	**1,738**	**17,325**	**12,531**	**998**	**37,570**
1990 Average	**1,690**	**1,818**	**2,382**	**1,872**	**5,140**	**1,752**	**16,988**	**12,629**	**1,027**	**37,475**
1991 Average	**1,622**	**1,935**	**2,828**	**1,863**	**5,284**	**1,801**	**16,714**	**13,391**	**1,056**	**38,067**
1992 Average	**1,643**	**1,926**	**2,843**	**1,937**	**5,446**	**1,803**	**17,033**	**13,605**	**1,041**	**38,768**
1993 January	1,567	1,953	2,532	1,858	5,929	1,715	16,173	12,822	970	37,461
February	1,676	2,139	2,897	1,970	6,278	1,863	17,334	14,014	1,135	40,437
March	1,674	2,012	2,935	1,945	6,230	1,875	17,575	14,027	1,169	40,675
April	1,569	1,933	2,822	1,708	5,440	1,719	16,781	13,108	1,124	38,022
May	1,576	1,697	2,589	1,688	4,754	1,664	16,508	12,071	1,146	36,055
June	1,680	1,964	3,047	1,735	4,949	1,796	17,096	13,613	1,111	38,448
July	1,674	1,857	2,970	1,799	4,849	1,794	17,357	13,639	1,053	38,572
August	1,724	1,657	2,897	1,718	4,777	1,777	17,332	13,074	1,120	38,027
September	1,731	1,796	3,168	1,921	4,757	1,834	17,650	14,069	1,097	39,303
October	1,651	1,822	2,818	1,911	4,979	1,789	17,323	13,474	1,119	38,546
November	1,710	2,076	3,062	2,095	5,485	1,970	17,780	14,639	1,136	40,750
December	1,697	2,016	3,129	2,210	6,205	1,834	17,953	14,737	1,301	41,893
Average	**1,661**	**1,908**	**2,904**	**1,879**	**5,381**	**1,802**	**17,237**	**13,601**	**1,123**	**39,003**
1994 January	R1,652	R1,855	2,483	1,784	5,891	R1,744	18,072	R12,837	R1,047	R39,499
February	R1,742	R1,982	R2,988	1,917	6,498	R1,921	18,337	R14,296	R1,174	R42,047
March	R1,673	R1,841	3,054	1,902	6,247	R1,955	17,313	R13,980	R1,223	R40,435
April	R1,586	R1,866	R2,904	1,827	5,286	R1,810	17,489	R13,531	1,174	R39,065
May	R1,649	R1,688	2,750	1,683	4,844	R1,770	17,181	R12,708	R1,206	R37,588
June	R1,653	R1,827	R3,004	1,694	5,124	R1,880	17,815	R13,674	R1,247	R39,514
July	R1,685	R1,786	R2,808	1,713	5,556	R1,748	17,485	R13,007	R1,202	R38,936
August	R1,755	R1,749	2,898	1,707	5,574	R1,748	18,117	R13,310	1,157	R39,912
September	R1,757	R1,935	3,033	1,954	5,313	R1,864	17,490	R14,225	1,206	R39,992
October	R1,706	R1,859	2,856	1,882	5,456	R1,857	17,719	R13,625	R1,094	R39,600
November	R1,725	R1,826	2,886	2,079	5,953	R1,956	17,315	R14,133	R1,280	R40,406
December	R1,794	R1,976	R2,791	2,080	6,513	R1,821	18,319	R14,135	R1,260	R42,021
Average	**R1,698**	**R1,848**	**R2,869**	**1,851**	**5,684**	**R1,838**	**17,718**	**R13,613**	**R1,189**	**R39,902**
1995 January	R1,670	1,944	2,722	1,915	R6,077	R1,749	17,167	R13,407	R1,122	R39,443
February	1,842	1,885	2,795	2,096	6,847	1,948	18,355	14,024	1,155	42,224
2-Mo. Average	**1,752**	**1,916**	**2,757**	**2,001**	**6,442**	**1,843**	**17,731**	**13,700**	**1,138**	**40,763**
1994 2-Mo. Average	**1,695**	**1,915**	**2,723**	**1,847**	**6,179**	**1,828**	**18,198**	**13,529**	**1,108**	**40,708**
1993 2-Mo. Average	**1,619**	**2,041**	**2,705**	**1,911**	**6,095**	**1,785**	**16,724**	**13,388**	**1,048**	**38,873**

[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 data.

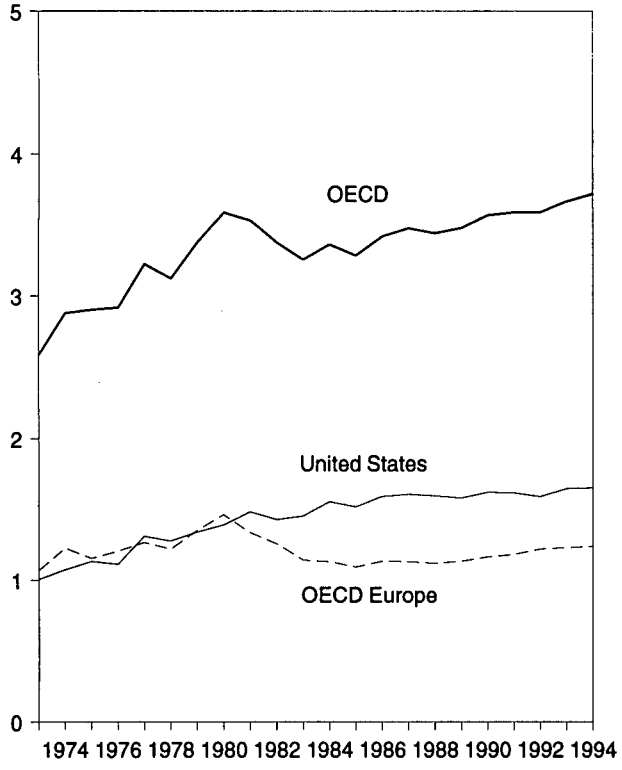
Notes: • Data through 1992 are final. Subsequent data are preliminary. • Totals may not equal sum of components due to independent rounding. • U.S. geographic coverage is the 50 States and the District of Columbia.

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

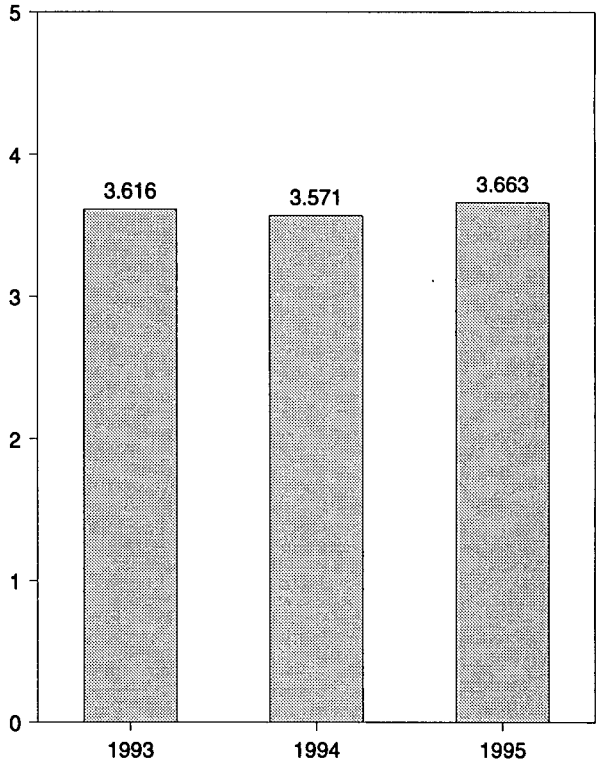
Figure 10.4 Petroleum Stocks in OECD Countries

(Billion Barrels)

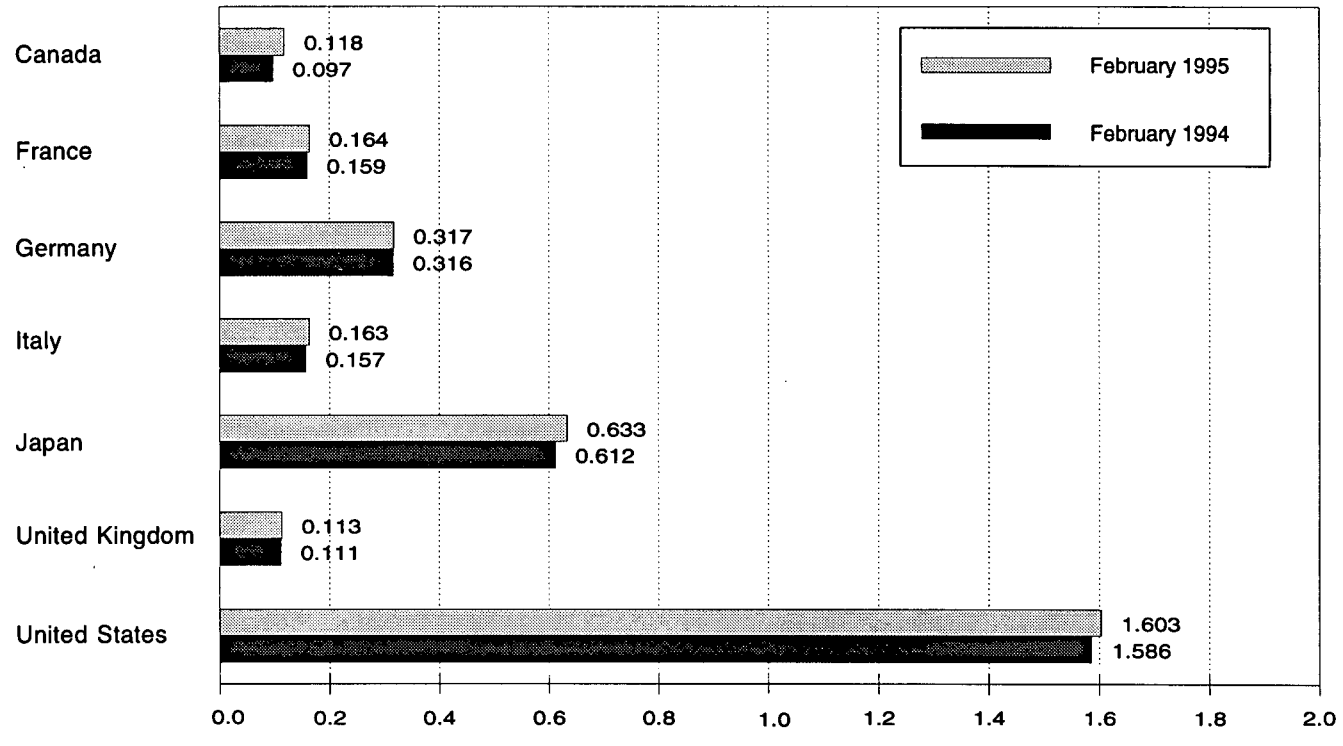
Overview, End of Year, 1973-1994



OECD Stocks, End of Month, February



By Selected Country, End of Month



Note: OECD is the Organization for Economic Cooperation and Development.
Source: Table 10.3.

Table 10.3 Petroleum Stocks in OECD Countries, End of Period

(Million Barrels)

	Canada	France	Germany[a]	Italy	Japan	United Kingdom	United States	OECD Europe[b]	Other OECD[c]	OECD[d]
1973 Year	**140**	**201**	**181**	**152**	**303**	**156**	**1,008**	**1,070**	**67**	**2,588**
1974 Year	**145**	**249**	**213**	**167**	**370**	**191**	**1,074**	**1,227**	**64**	**2,880**
1975 Year	**174**	**225**	**187**	**143**	**375**	**165**	**1,133**	**1,154**	**67**	**2,903**
1976 Year	**153**	**234**	**208**	**143**	**380**	**165**	**1,112**	**1,205**	**68**	**2,918**
1977 Year	**167**	**239**	**225**	**161**	**409**	**148**	**1,312**	**1,268**	**68**	**3,224**
1978 Year	**144**	**201**	**238**	**154**	**413**	**157**	**1,278**	**1,219**	**68**	**3,122**
1979 Year	**150**	**226**	**272**	**163**	**460**	**169**	**1,341**	**1,353**	**75**	**3,379**
1980 Year	**164**	**243**	**319**	**170**	**495**	**168**	**1,392**	**1,464**	**72**	**3,587**
1981 Year	**161**	**214**	**297**	**167**	**482**	**143**	**1,484**	**1,337**	**67**	**3,531**
1982 Year	**136**	**193**	**272**	**179**	**484**	**125**	**1,430**	**1,258**	**68**	**3,376**
1983 Year	**121**	**153**	**249**	**149**	**470**	**118**	**1,454**	**1,142**	**68**	**3,255**
1984 Year	**128**	**152**	**239**	**159**	**479**	**112**	**1,556**	**1,130**	**69**	**3,362**
1985 Year	**113**	**139**	**233**	**157**	**494**	**123**	**1,519**	**1,092**	**66**	**3,284**
1986 Year	**111**	**127**	**252**	**155**	**509**	**124**	**1,593**	**1,133**	**72**	**3,418**
1987 Year	**126**	**127**	**259**	**169**	**540**	**121**	**1,607**	**1,130**	**72**	**3,474**
1988 Year	**116**	**140**	**266**	**155**	**538**	**112**	**1,597**	**1,118**	**71**	**3,440**
1989 Year	**114**	**138**	**271**	**164**	**577**	**118**	**1,581**	**1,133**	**71**	**3,476**
1990 Year	**121**	**140**	**265**	**172**	**590**	**112**	**1,621**	**1,163**	**73**	**3,568**
1991 Year	**119**	**153**	**288**	**160**	**606**	**119**	**1,617**	**1,181**	**65**	**3,588**
1992 Year	**107**	**146**	**310**	**174**	**603**	**113**	**1,592**	**1,219**	**67**	**3,588**
1993 January	108	162	319	173	615	120	1,618	1,250	68	3,660
February	102	157	317	168	607	120	1,602	1,236	68	3,616
March	103	155	312	165	594	120	1,590	1,220	66	3,574
April	106	155	311	166	585	116	1,617	1,215	73	3,595
May	106	162	320	172	593	117	1,650	1,227	68	3,644
June	107	157	310	168	603	119	1,667	1,208	70	3,654
July	113	156	313	169	618	115	1,682	1,207	70	3,690
August	114	168	316	170	635	117	1,676	1,247	70	3,742
September	108	165	312	162	648	115	1,665	1,237	77	3,735
October	105	167	318	162	654	111	1,688	1,232	78	3,758
November	107	157	310	165	644	116	1,686	1,219	78	3,734
December	**102**	**158**	**310**	**165**	**619**	**118**	**1,647**	**1,229**	**68**	**3,665**
1994 January	R104	165	322	166	618	118	1,622	1,250	R70	R3,664
February	97	159	316	157	612	111	1,586	1,208	68	R3,571
March	102	152	307	154	603	110	1,584	1,183	72	3,544
April	106	152	310	159	612	108	1,591	1,187	73	3,569
May	108	155	314	160	629	116	1,612	1,214	71	3,634
June	112	161	308	159	631	112	1,624	1,218	70	3,655
July	121	159	313	157	625	114	1,654	1,227	75	3,702
August	115	164	310	162	634	116	1,659	1,245	74	3,727
September	118	159	305	160	647	114	1,684	1,227	73	R3,749
October	119	164	307	160	656	111	1,673	R1,231	74	R3,753
November	119	168	310	162	658	112	1,687	R1,231	72	R3,767
December	**112**	**158**	**312**	**165**	**646**	**115**	**1,653**	**R1,238**	**69**	**R3,718**
1995 January	R120	R160	315	167	652	R113	1,641	1,242	67	R3,721
February	118	164	317	163	633	113	1,603	1,245	64	3,663

[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 data.

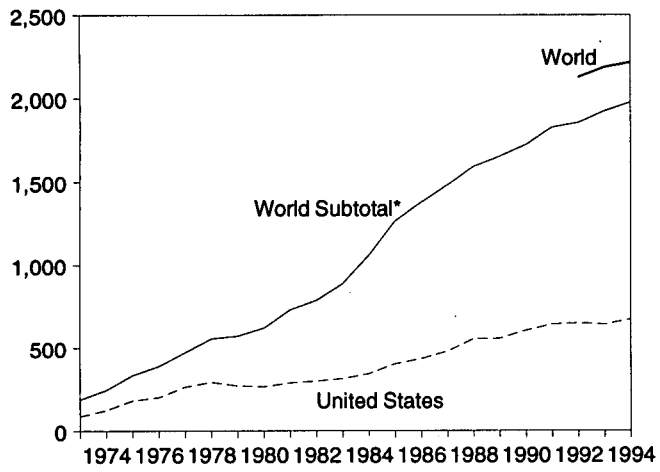
Notes: • Petroleum stocks include crude oil (including strategic reserves), unfinished oils, natural gas plant liquids, and refined products. Petroleum stocks include all nonmilitary petroleum held for storage, regardless of ownership, within each country in bulk terminals, refinery tanks, pipeline tankage, 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 1992 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

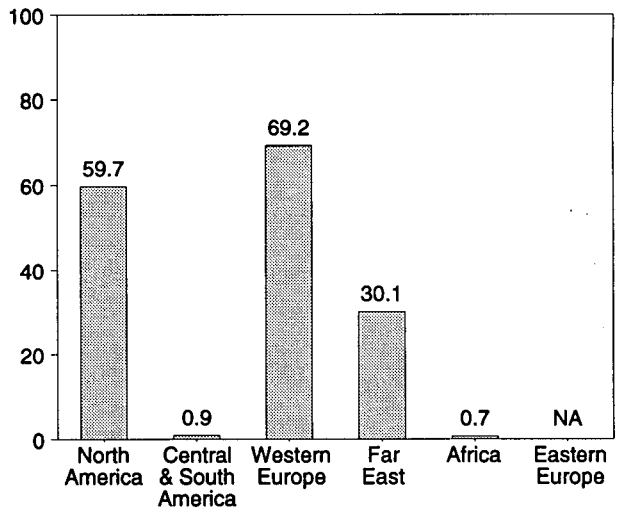
(Billion Kilowatthours)

U.S. and World, 1973-1994



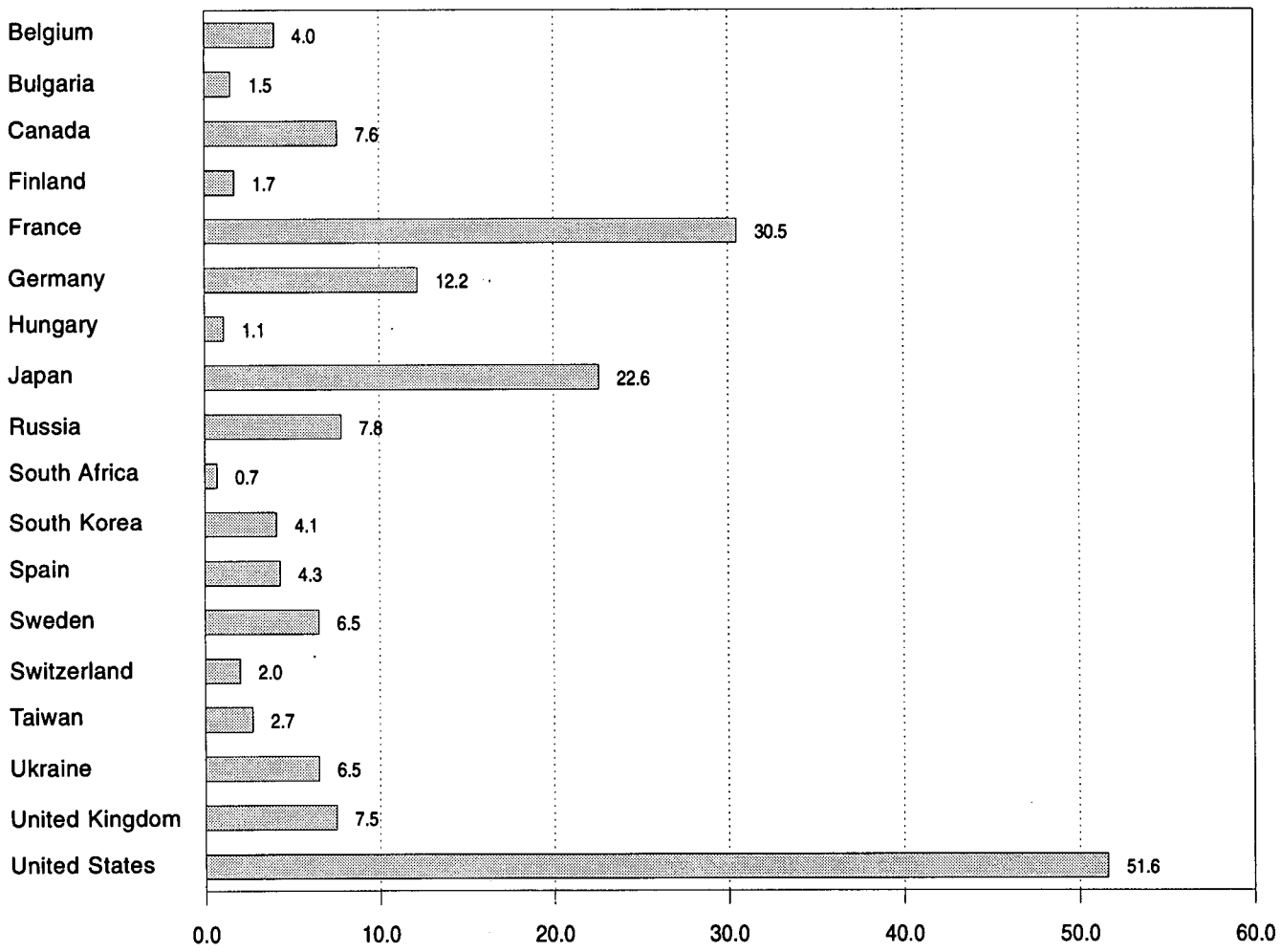
*World excluding Eastern Europe.

By Region, April 1995



NA = Not available.

By Selected Country, April 1995



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 America	Central and South America	Western Europe	Far East	Africa	Subtotal	Eastern Europe[a]	World
1973 Total	**103.1**	**–**	**73.9**	**12.3**	**–**	**189.3**	**NA**	**NA**
1974 Total	**139.7**	**1.0**	**83.9**	**21.4**	**–**	**246.0**	**NA**	**NA**
1975 Total	**195.5**	**2.5**	**111.7**	**24.4**	**–**	**334.1**	**NA**	**NA**
1976 Total	**219.8**	**2.6**	**126.2**	**40.3**	**–**	**388.9**	**NA**	**NA**
1977 Total	**290.8**	**1.6**	**148.1**	**31.5**	**–**	**472.0**	**NA**	**NA**
1978 Total	**325.4**	**2.9**	**166.9**	**60.6**	**–**	**555.9**	**NA**	**NA**
1979 Total	**309.0**	**2.7**	**184.3**	**74.7**	**–**	**570.7**	**NA**	**NA**
1980 Total	**305.8**	**2.3**	**214.2**	**97.4**	**–**	**619.8**	**NA**	**NA**
1981 Total	**331.8**	**2.8**	**293.4**	**102.9**	**–**	**730.9**	**NA**	**NA**
1982 Total	**341.2**	**1.9**	**321.8**	**123.6**	**–**	**788.5**	**NA**	**NA**
1983 Total	**366.6**	**3.6**	**377.2**	**140.1**	**–**	**887.5**	**NA**	**NA**
1984 Total	**397.6**	**6.6**	**485.4**	**167.7**	**4.2**	**1,061.5**	**NA**	**NA**
1985 Total	**465.6**	**9.1**	**582.8**	**202.0**	**5.9**	**1,265.4**	**NA**	**NA**
1986 Total	**508.8**	**5.8**	**631.5**	**223.6**	**9.3**	**1,378.9**	**NA**	**NA**
1987 Total	**560.1**	**6.2**	**648.3**	**259.5**	**6.6**	**1,480.7**	**NA**	**NA**
1988 Total	**639.7**	**5.5**	**688.1**	**248.5**	**11.1**	**1,592.8**	**NA**	**NA**
1989 Total	**640.2**	**6.6**	**732.2**	**263.4**	**11.7**	**1,654.1**	**NA**	**NA**
1990 Total	**681.3**	**9.4**	**738.6**	**284.3**	**8.9**	**1,722.5**	**NA**	**NA**
1991 Total	**733.4**	**9.2**	**769.7**	**303.3**	**9.7**	**1,825.2**	**NA**	**NA**
1992 Total	**735.2**	**8.8**	**783.9**	**315.2**	**9.9**	**1,852.9**	**E 271.5**	**E 2,124.5**
1993 January	70.5	.8	78.9	28.1	.6	178.9	NA	NA
February	61.5	.6	72.6	25.3	.6	160.6	NA	NA
March	57.7	.6	76.3	26.9	.5	162.1	NA	NA
April	53.2	.7	68.6	25.6	.6	148.7	NA	NA
May	60.0	.7	60.1	E 25.9	.8	E 147.5	NA	NA
June	63.0	.7	60.7	E 26.0	.5	E 151.0	NA	NA
July	68.6	.7	60.8	E 31.8	1.0	E 163.1	NA	NA
August	68.5	.7	57.9	E 33.3	.9	E 161.2	NA	NA
September	60.8	.7	63.9	E 28.5	.5	E 154.4	NA	NA
October	55.8	.4	65.7	E 28.5	.4	E 150.7	NA	NA
November	57.7	.6	70.6	E 27.9	.4	E 157.2	NA	NA
December	65.5	.7	81.0	E 30.0	.8	E 178.1	NA	NA
Total	**744.6**	**8.1**	**817.0**	**E 345.2**	**7.7**	**E 1,922.7**	**E 263.0**	**E 2,185.6**
1994 January	69.5	.7	76.3	E 28.6	.9	E 176.0	NA	NA
February	61.3	.7	67.5	E 25.0	.8	E 155.2	NA	NA
March	61.8	.7	70.3	E 27.0	.8	E 160.5	NA	NA
April	55.0	.7	66.8	E 28.3	1.0	E 151.8	NA	NA
May	60.3	.7	60.2	E 28.2	1.3	E 150.7	NA	NA
June	63.6	.7	59.9	E 28.0	1.1	E 153.3	NA	NA
July	72.1	.7	60.2	E 33.6	1.1	E 167.7	NA	NA
August	73.3	.7	62.6	E 36.2	.9	E 173.8	NA	NA
September	67.6	.5	66.9	E 29.6	.4	E 165.0	NA	NA
October	62.5	.7	70.0	E 28.6	.5	E 162.3	NA	NA
November	67.4	.7	72.6	E 28.5	.6	E 169.8	NA	NA
December	72.9	.7	82.4	E 30.9	.8	E 187.7	NA	NA
Total	**787.3**	**8.2**	**815.5**	**E 355.1**	**10.3**	**E 1,976.4**	**E 237.7**	**E 2,214.1**
1995 January	75.7	1.1	81.4	E 31.2	1.0	E 190.4	NA	NA
February	63.1	1.0	69.8	E 29.3	.7	E 163.9	NA	NA
March	R 64.5	1.0	73.9	E 32.1	.7	RE 172.1	NA	NA
April	E 59.7	.9	69.2	E 30.1	.7	E 160.5	NA	NA
4-Month Total	**E 262.9**	**4.0**	**294.3**	**E 122.7**	**3.0**	**E 687.0**	**NA**	**NA**
1994 4-Month Total	**247.5**	**2.8**	**280.9**	**108.9**	**3.4**	**643.5**	**NA**	**NA**
1993 4-Month Total	**242.9**	**2.7**	**296.4**	**105.9**	**2.4**	**650.3**	**NA**	**NA**

[a] See Table 10.4e for country-specific estimated annual generation in 1992, 1993, and 1994, and available monthly generation in 1993 and 1994 for Eastern Europe.

R=Revised data. 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: McGraw-Hill Publishing Company, *Nucleonics Week*.

Table 10.4b Nuclear Electricity Gross Generation: North, Central, and South America

(Billion Kilowatthours)

	Canada	Mexico	United States	North America	Argentina	Brazil	Central and South America
1973 Total	**15.3**	**–**	**87.8**	**103.1**	**–**	**–**	**–**
1974 Total	**15.4**	**–**	**124.3**	**139.7**	**1.0**	**–**	**1.0**
1975 Total	**13.2**	**–**	**182.3**	**195.5**	**2.5**	**–**	**2.5**
1976 Total	**18.0**	**–**	**201.8**	**219.8**	**2.6**	**–**	**2.6**
1977 Total	**26.6**	**–**	**264.2**	**290.8**	**1.6**	**–**	**1.6**
1978 Total	**33.0**	**–**	**292.4**	**325.4**	**2.9**	**–**	**2.9**
1979 Total	**38.4**	**–**	**270.6**	**309.0**	**2.7**	**–**	**2.7**
1980 Total	**40.4**	**–**	**265.4**	**305.8**	**2.3**	**–**	**2.3**
1981 Total	**43.3**	**–**	**288.5**	**331.8**	**2.8**	**–**	**2.8**
1982 Total	**42.6**	**–**	**298.6**	**341.2**	**1.9**	**0.1**	**1.9**
1983 Total	**53.0**	**–**	**313.6**	**366.6**	**3.4**	**.2**	**3.6**
1984 Total	**53.8**	**–**	**343.8**	**397.6**	**4.5**	**2.1**	**6.6**
1985 Total	**62.9**	**–**	**402.7**	**465.6**	**5.8**	**3.4**	**9.1**
1986 Total	**74.6**	**–**	**434.1**	**508.8**	**5.7**	**.1**	**5.8**
1987 Total	**80.6**	**–**	**479.5**	**560.1**	**5.2**	**1.0**	**6.2**
1988 Total	**85.6**	**–**	**554.1**	**639.7**	**5.1**	**.3**	**5.5**
1989 Total	**83.2**	**–**	**557.0**	**640.2**	**5.0**	**1.6**	**6.6**
1990 Total	**75.8**	**2.1**	**603.4**	**681.3**	**7.4**	**2.0**	**9.4**
1991 Total	**86.1**	**4.2**	**643.0**	**733.4**	**7.7**	**1.4**	**9.2**
1992 Total	**81.3**	**3.9**	**650.0**	**735.2**	**7.1**	**1.8**	**8.8**
1993 January	8.2	.5	61.8	70.5	.6	.2	.8
February	7.4	.3	53.7	61.5	.4	.2	.6
March	7.8	.1	49.8	57.7	.6	(s)	.6
April	7.3	.5	45.4	53.2	.7	.0	.7
May	6.7	.5	52.8	60.0	.7	.0	.7
June	7.1	.5	55.4	63.0	.7	.0	.7
July	9.3	.5	58.9	68.6	.7	.0	.7
August	9.1	.5	58.9	68.5	.7	.0	.7
September	7.9	.5	52.5	60.8	.7	.0	.7
October	8.5	.4	46.9	55.8	.4	.0	.4
November	8.2	.4	49.1	57.7	.6	.0	.6
December	9.2	.4	55.9	65.5	.7	.0	.7
Total	**97.6**	**4.9**	**642.0**	**744.6**	**7.7**	**.4**	**8.1**
1994 January	9.7	.2	59.6	69.5	.7	.0	.7
February	9.1	.0	52.2	61.3	.7	.0	.7
March	10.5	(s)	51.3	61.8	.7	.0	.7
April	9.1	.4	45.4	55.0	.7	.0	.7
May	8.8	.4	51.1	60.3	.7	.0	.7
June	8.7	.5	54.5	63.6	.7	.0	.7
July	9.5	.5	62.2	72.1	.7	.0	.7
August	9.7	.4	63.1	73.3	.7	.0	.7
September	8.8	.4	58.3	67.6	.5	.0	.5
October	8.8	.5	53.2	62.5	.7	.0	.7
November	9.0	.4	58.0	67.4	.7	.0	.7
December	9.0	.4	63.5	72.9	.7	.0	.7
Total	**110.7**	**4.2**	**672.4**	**787.3**	**8.2**	**.0**	**8.2**
1995 January	9.0	.3	66.4	75.7	.7	.4	1.1
February	8.4	.4	54.3	63.1	.6	.3	1.0
March	9.5	.4	R54.6	R64.5	.7	.3	1.0
April	7.6	.6	E51.6	E59.7	.7	.2	.9
4-Month Total	**34.4**	**1.8**	**E226.8**	**E262.9**	**2.8**	**1.2**	**4.0**
1994 4-Month Total	**38.3**	**.7**	**208.5**	**247.5**	**2.8**	**.0**	**2.8**
1993 4-Month Total	**30.7**	**1.4**	**210.8**	**242.9**	**2.3**	**.4**	**2.7**

R=Revised data. – =Not applicable. E=Estimate. (s)=Less than 0.05 billion kilowatthours.

Notes: • Net figures are generally less than gross figures by about 5 percent, the difference being the energy consumed by the generating plants themselves. • Monthly data may not sum to annual totals due to independent rounding and because precommercial generation is included in some annual totals but not in the monthly data. • Data for countries may not sum to regional totals due to independent rounding. • U.S. geographic coverage is the 50 States and the District of Columbia.

Source: McGraw-Hill Publishing Company, *Nucleonics Week.*

Table 10.4c Nuclear Electricity Gross Generation: Western Europe

(Billion Kilowatthours)

	Belgium	Finland	France	Germany[a]	Italy[b]	Netherlands	Spain	Sweden	Switzerland	United Kingdom[c]	Western Europe
1973 Total	**0.0**	**–**	**14.7**	**11.9**	**3.1**	**1.1**	**6.5**	**2.1**	**6.2**	**28.2**	**73.9**
1974 Total	**.1**	**–**	**14.7**	**12.0**	**3.4**	**3.3**	**7.2**	**2.3**	**7.0**	**33.8**	**83.9**
1975 Total	**6.8**	**–**	**18.3**	**21.7**	**3.8**	**3.3**	**7.5**	**12.0**	**7.7**	**30.5**	**111.7**
1976 Total	**10.0**	**–**	**15.8**	**24.5**	**3.8**	**3.9**	**7.6**	**16.0**	**7.9**	**36.8**	**126.2**
1977 Total	**11.9**	**2.7**	**17.9**	**36.0**	**3.4**	**3.7**	**6.5**	**19.9**	**8.1**	**38.1**	**148.1**
1978 Total	**12.5**	**3.3**	**30.6**	**35.7**	**4.5**	**4.1**	**7.6**	**23.8**	**8.3**	**36.6**	**166.9**
1979 Total	**11.4**	**6.7**	**39.9**	**42.2**	**2.6**	**3.5**	**6.7**	**21.0**	**11.8**	**38.5**	**184.3**
1980 Total	**12.5**	**7.0**	**61.2**	**43.7**	**2.2**	**4.2**	**5.2**	**26.7**	**14.3**	**37.2**	**214.2**
1981 Total	**12.8**	**14.5**	**105.2**	**53.4**	**2.7**	**3.7**	**9.4**	**37.7**	**15.2**	**38.9**	**293.4**
1982 Total	**15.6**	**16.5**	**108.9**	**63.4**	**6.8**	**3.9**	**8.8**	**38.8**	**15.0**	**44.1**	**321.8**
1983 Total	**24.1**	**17.4**	**144.2**	**65.8**	**5.8**	**3.6**	**10.7**	**40.4**	**15.5**	**49.6**	**377.2**
1984 Total	**27.7**	**18.5**	**191.2**	**92.6**	**6.9**	**3.8**	**23.1**	**51.3**	**16.3**	**54.1**	**485.4**
1985 Total	**34.5**	**18.8**	**224.0**	**125.8**	**7.0**	**3.9**	**28.0**	**58.6**	**22.4**	**59.7**	**582.8**
1986 Total	**38.6**	**18.8**	**254.3**	**118.9**	**8.7**	**4.2**	**37.5**	**69.9**	**22.5**	**58.2**	**631.5**
1987 Total	**41.9**	**19.4**	**265.5**	**130.2**	**.2**	**3.6**	**41.2**	**67.2**	**23.0**	**56.2**	**648.3**
1988 Total	**43.1**	**19.3**	**274.9**	**145.2**	**.0**	**3.7**	**50.4**	**69.4**	**22.7**	**59.4**	**688.1**
1989 Total	**41.2**	**18.8**	**302.5**	**149.6**	**.0**	**4.0**	**56.1**	**65.6**	**22.8**	**71.6**	**732.2**
1990 Total	**42.7**	**18.9**	**314.1**	**147.2**	**.0**	**3.4**	**54.3**	**68.2**	**23.6**	**66.1**	**738.6**
1991 Total	**42.9**	**19.2**	**331.4**	**147.3**	**.0**	**3.3**	**55.6**	**76.8**	**22.9**	**70.4**	**769.7**
1992 Total	**43.5**	**19.0**	**337.6**	**158.8**	**.0**	**3.8**	**55.8**	**63.5**	**23.4**	**78.5**	**783.9**
1993 January	4.3	1.8	36.3	15.1	.0	.4	5.4	5.8	2.3	7.6	78.9
February	3.7	1.6	32.7	13.9	.0	.3	4.3	5.9	2.1	7.9	72.6
March	3.4	1.8	34.3	14.2	.0	.1	4.9	7.1	2.3	8.3	76.3
April	3.3	1.7	30.5	12.4	.0	.1	4.2	6.6	2.0	7.7	68.6
May	3.1	1.3	26.9	11.8	.0	.4	4.1	4.6	1.9	6.0	60.1
June	3.0	1.6	25.4	12.0	.0	.4	4.4	4.7	1.2	8.2	60.7
July	3.2	1.8	26.9	12.3	.0	.4	5.0	3.1	1.8	6.4	60.8
August	3.4	1.5	25.9	11.1	.0	.4	5.1	3.2	1.1	6.1	57.9
September	3.4	1.3	28.8	11.2	.0	.4	4.6	4.1	1.7	8.4	63.9
October	3.2	1.8	29.1	12.6	.0	.4	4.7	4.7	2.2	6.9	65.7
November	3.7	1.7	33.7	12.6	.0	.4	4.2	5.3	2.3	6.7	70.6
December	4.3	1.8	36.2	14.3	.0	.4	5.2	6.3	2.4	10.2	81.0
Total	**41.9**	**19.6**	**366.7**	**153.5**	**.0**	**3.9**	**56.1**	**61.4**	**23.3**	**90.4**	**817.0**
1994 January	4.3	1.8	34.1	13.8	.0	.4	5.1	6.9	2.4	7.6	76.3
February	3.5	1.6	30.8	12.1	.0	.1	4.1	6.7	2.1	6.6	67.5
March	3.6	1.8	30.5	12.7	.0	.1	4.1	7.2	2.3	7.9	70.3
April	3.3	1.7	28.6	12.0	.0	.4	4.3	6.9	2.3	7.3	66.8
May	2.8	1.1	25.3	11.2	.0	.4	4.7	5.6	2.0	7.2	60.2
June	2.4	1.6	25.5	11.8	.0	.4	4.1	4.3	1.4	8.5	59.9
July	2.6	1.5	28.0	10.6	.0	.4	4.8	4.4	1.5	6.5	60.2
August	3.3	1.4	28.1	11.5	.0	.4	5.3	4.5	1.2	7.0	62.6
September	3.2	1.4	28.7	12.3	.0	.3	5.1	5.5	2.1	8.3	66.9
October	3.5	1.8	30.8	13.7	.0	.4	4.1	6.7	2.4	6.5	70.0
November	4.0	1.7	31.7	14.1	.0	.4	4.2	7.1	2.3	7.1	72.6
December	4.3	1.8	37.1	15.2	.0	.4	5.3	7.0	2.4	8.8	82.4
Total	**40.6**	**19.1**	**359.1**	**151.1**	**.0**	**4.0**	**55.1**	**72.8**	**24.2**	**89.5**	**815.5**
1995 January	4.2	1.6	38.7	15.2	.0	.3	5.4	7.2	2.4	6.4	81.4
February	3.7	1.5	31.7	13.1	.0	(s)	4.6	6.2	2.2	6.8	69.8
March	3.6	1.8	34.4	12.4	.0	.1	4.6	6.6	2.4	8.0	73.9
April	4.0	1.7	30.5	12.2	.0	.4	4.3	6.5	2.0	7.5	69.2
4-Month Total	**15.4**	**6.6**	**135.2**	**53.0**	**.0**	**.9**	**18.9**	**26.6**	**9.0**	**28.7**	**294.3**
1994 4-Month Total	**14.7**	**6.9**	**124.0**	**50.6**	**.0**	**.9**	**17.6**	**27.7**	**9.0**	**29.5**	**280.9**
1993 4-Month Total	**14.7**	**6.8**	**133.8**	**55.6**	**.0**	**.8**	**18.9**	**25.4**	**8.7**	**31.5**	**296.4**

[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.

– =Not applicable. (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: McGraw-Hill Publishing Company, *Nucleonics Week.*

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

(Billion Kilowatthours)

	China[a]	India	Japan	Pakistan	South Korea	Taiwan	Far East	South Africa[b]
1973 Total	–	2.5	9.4	0.5	–	–	12.3	–
1974 Total	–	1.9	18.9	.6	–	–	21.4	–
1975 Total	–	2.5	21.3	.5	–	–	24.4	–
1976 Total	–	3.2	36.6	.5	–	–	40.3	–
1977 Total	–	2.8	28.2	.3	0.1	0.1	31.5	–
1978 Total	–	2.3	53.1	.2	2.3	2.7	60.6	–
1979 Total	–	3.2	62.0	(s)	3.2	6.3	74.7	–
1980 Total	–	2.9	82.8	.1	3.5	8.2	97.4	–
1981 Total	–	3.1	86.0	.2	2.9	10.7	102.9	–
1982 Total	–	2.2	104.5	.1	3.8	13.1	123.6	–
1983 Total	–	2.9	109.1	.2	9.0	18.9	140.1	–
1984 Total	–	4.1	127.2	.3	11.8	24.3	167.7	4.2
1985 Total	–	4.5	152.0	.3	16.5	28.7	202.0	5.9
1986 Total	–	5.1	164.8	.5	26.1	26.9	223.6	9.3
1987 Total	–	5.5	182.8	.3	37.8	33.1	259.5	6.6
1988 Total	–	6.1	173.6	.2	38.7	29.9	248.5	11.1
1989 Total	–	4.0	183.7	.1	47.2	28.3	263.4	11.7
1990 Total	–	6.3	191.9	.4	52.8	32.9	284.3	8.9
1991 Total	–	5.4	205.8	.4	56.3	35.3	303.3	9.7
1992 Total	–	6.3	218.0	.6	56.4	33.8	315.2	9.9
1993 January	–	.7	19.5	(s)	4.8	3.0	28.1	.6
February	–	.6	17.4	.1	4.5	2.7	25.3	.6
March	–	.6	18.9	.1	4.6	2.8	26.9	.5
April	–	.2	17.6	.1	4.8	2.8	25.6	.6
May	NA	.4	17.4	(s)	5.3	2.7	E25.9	.8
June	NA	.5	17.9	(s)	5.1	2.6	E26.0	.5
July	NA	.7	22.3	.1	5.5	3.4	E31.8	1.0
August	NA	.5	24.2	(s)	4.9	3.6	E33.3	.9
September	NA	.4	20.5	.1	4.6	2.9	E28.5	.5
October	NA	.5	20.6	(s)	4.6	2.8	E28.5	.4
November	NA	.5	20.9	.0	4.2	2.3	E27.9	.4
December	NA	.6	21.5	(s)	5.1	2.8	E30.0	.8
Total	E2.6	6.2	243.5	.4	58.1	34.3	E345.2	7.7
1994 January	NA	.4	20.5	.1	5.0	2.6	E28.6	.9
February	NA	.3	17.8	(s)	4.1	2.8	E25.0	.8
March	NA	.4	19.0	.1	4.6	2.9	E27.0	.8
April	NA	.4	20.2	(s)	4.9	2.7	E28.3	1.0
May	NA	.5	19.8	.1	4.9	2.9	E28.2	1.3
June	NA	.5	19.4	.1	5.0	2.9	E28.0	1.1
July	NA	.4	24.3	(s)	5.5	3.3	E33.6	1.1
August	NA	.5	26.9	(s)	5.3	3.5	E36.2	.9
September	NA	.3	21.7	(s)	4.8	2.9	E29.6	.4
October	NA	.3	20.5	.1	5.0	2.8	E28.6	.5
November	NA	.5	20.6	(s)	4.7	2.7	E28.5	.6
December	NA	.6	23.1	.1	4.3	2.9	E30.9	.8
Total	E2.6	5.0	253.8	.6	58.3	34.8	E355.1	10.3
1995 January	NA	.7	23.1	(s)	4.8	2.5	E31.2	1.0
February	NA	.5	21.5	(s)	4.9	2.3	E29.3	.7
March	NA	.6	23.6	(s)	5.1	2.7	E32.1	.7
April	NA	.6	22.6	(s)	4.1	2.7	E30.1	.7
4-Month Total	NA	2.4	90.9	.1	18.9	10.3	E122.7	3.0
1994 4-Month Total	NA	1.6	77.5	.2	18.7	10.9	108.9	3.4
1993 4-Month Total	–	2.2	73.5	.2	18.7	11.3	105.9	2.4

[a] The total gross generation estimate for 1993 and 1994 for China is calculated as 5 percent more than the annual net nuclear generation reported by the International Atomic Energy Agency (IAEA) and is published in *Nuclear Power Reactors in the World*, April 1994.

[b] South Africa comprises all of Africa's nuclear electricity generation.

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

Notes: • The Philippines has a nuclear generating unit under construction. Its earliest initial commercial operation is projected to be in 1996. • 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: McGraw-Hill Publishing Company, *Nucleonics Week*.

Table 10.4e Nuclear Electricity Gross Generation: Eastern Europe

(Billion Kilowatthours)

	Bulgaria	Czech Republic[a]	Hungary	Kazakhstan[a]	Lithuania[a]	Romania[b]	Russia	Slovakia[a]	Slovenia	Ukraine	Eastern Europe[c]
1973 Total	–	–	–	NA	–	–	NA	NA	–	–	NA
1974 Total	NA	–	–	NA	–	–	NA	NA	–	–	NA
1975 Total	NA	–	–	NA	–	–	NA	NA	–	–	NA
1976 Total	NA	–	–	NA	–	–	NA	NA	–	–	NA
1977 Total	NA	–	–	NA	–	–	NA	NA	–	–	NA
1978 Total	NA	–	–	NA	–	–	NA	NA	–	NA	NA
1979 Total	NA	–	–	NA	–	–	NA	NA	–	NA	NA
1980 Total	NA	–	–	NA	–	–	NA	NA	–	NA	NA
1981 Total	NA	–	–	NA	–	–	NA	NA	–	NA	NA
1982 Total	NA	–	–	NA	–	–	NA	NA	–	NA	NA
1983 Total	NA	–	NA	NA	–	–	NA	NA	NA	NA	NA
1984 Total	NA	–	NA	NA	–	–	NA	NA	NA	NA	NA
1985 Total	NA	NA	NA	NA	NA	–	NA	NA	NA	NA	NA
1986 Total	NA	NA	NA	NA	NA	–	NA	NA	NA	NA	NA
1987 Total	NA	NA	NA	NA	NA	–	NA	NA	NA	NA	NA
1988 Total	NA	NA	NA	NA	NA	–	NA	NA	NA	NA	NA
1989 Total	NA	NA	NA	NA	NA	–	NA	NA	NA	NA	NA
1990 Total	NA	NA	NA	NA	NA	–	NA	NA	NA	NA	NA
1991 Total	NA	NA	NA	NA	NA	–	NA	NA	NA	NA	NA
1992 Total	E12.2	E12.9	E13.8	E.5	E16.4	–	E125.6	E11.7	E4.0	E74.6	E271.5
1993 January	E1.5	NA	1.4	NA	NA	–	11.0	NA	.5	E7.8	NA
February	E1.5	NA	1.2	NA	NA	–	9.8	NA	.4	E7.8	NA
March	E1.5	NA	1.2	NA	NA	–	10.6	NA	.4	7.8	NA
April	E1.5	NA	1.0	NA	NA	–	10.3	NA	.5	5.5	NA
May	1.2	NA	1.0	NA	NA	–	9.6	NA	.2	5.1	NA
June	.8	NA	1.0	NA	NA	–	10.1	NA	.0	5.0	NA
July	.9	NA	1.0	NA	NA	–	8.4	NA	(s)	5.6	NA
August	.9	NA	1.0	NA	NA	–	9.5	NA	.4	6.0	NA
September	1.1	.9	1.0	NA	NA	–	9.3	NA	.5	5.1	NA
October	.6	.9	1.2	NA	NA	–	9.7	NA	.5	5.3	NA
November	.9	1.0	1.3	NA	NA	–	10.4	NA	.4	5.3	NA
December	1.6	.9	1.4	NA	NA	–	11.9	NA	.3	6.3	NA
Total	14.0	E13.2	13.8	E.4	E12.9	–	120.4	E11.6	4.0	E72.7	E263.0
1994 January	1.6	1.2	1.4	NA	NA	–	11.0	NA	.3	7.6	NA
February	1.4	1.2	1.2	NA	NA	–	10.0	NA	.4	6.7	NA
March	1.6	1.3	1.2	NA	NA	–	9.5	NA	.4	6.5	NA
April	1.1	1.3	1.0	NA	NA	–	8.0	NA	.5	5.8	NA
May	1.1	1.3	1.0	NA	NA	–	7.5	NA	.5	6.2	NA
June	.8	1.3	1.0	NA	NA	–	7.0	NA	.5	5.8	NA
July	.6	1.3	1.1	NA	NA	–	7.2	NA	.4	3.7	NA
August	.9	NA	1.0	NA	NA	–	6.0	NA	.3	2.9	NA
September	.8	NA	1.0	NA	NA	–	6.5	NA	(s)	3.6	NA
October	1.2	NA	1.3	NA	NA	–	7.5	NA	.4	5.4	NA
November	1.6	NA	1.3	NA	NA	–	8.4	NA	.5	6.7	NA
December	2.0	NA	1.4	NA	NA	–	9.2	NA	.5	7.4	NA
Total	14.5	E13.2	14.0	E.4	E12.9	–	97.7	E11.6	4.6	68.4	E237.7
1995 January	2.2	NA	1.4	NA	NA	–	10.7	NA	.5	8.5	NA
February	2.1	NA	1.1	NA	NA	–	8.9	NA	.4	7.5	NA
March	1.9	NA	1.3	NA	.9	–	9.0	NA	.5	7.3	NA
April	1.5	NA	1.1	NA	.7	–	7.8	NA	(s)	6.5	NA
4-Month Total	7.8	NA	4.9	NA	NA	–	36.4	NA	1.4	29.8	NA
1994 4-Month Total	5.8	4.9	4.8	NA	NA	–	38.5	NA	1.6	26.7	NA
1993 4-Month Total	6.0	NA	4.8	NA	NA	–	41.7	NA	1.8	29.0	NA

[a] The total gross generation estimate for 1993 and 1994 for Czech Republic, Kazakhstan, Lithuania, and Slovakia is calculated as 5 percent more than the annual net nuclear generation reported by the International Atomic Energy Agency (IAEA) and is published in *Nuclear Power Reactors in the World*, April 1994.

[b] Romania has a nuclear generating unit under construction. Its earliest initial operation is projected to be in 1995.

[c] The total gross generation estimate for 1992 for Eastern European countries are calculated as 5 percent more than the annual net nuclear generation reported by the IAEA and published in the Energy Information Administration annual report, *World Nuclear Capacity and Fuel Cycle Requirements 1993*, November 1993, Table 10.

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

Notes: • Armenia has two nuclear generating units under construction. The earliest commercial operation for one unit is projected to be in 2000. • 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: McGraw-Hill Publishing Company, *Nucleonics Week*.

Sources for Tables 10.1a and 10.1b

- **United States:** Table 3.1a.

- **Other Countries: Annual Data: 1973-1979**—Energy Information Administration (EIA), *International Energy Annual 1981,* Table 8. **1980**—EIA, *International Energy Annual 1989,* Table 1. **1981**—EIA, *International Energy Annual 1990,* Table 1. **1982**—EIA, *International Energy Annual 1991,* Table 1. **1983-1992**—EIA, *International Energy Annual 1992,* Table 1. **1993**—EIA, *International Energy Annual 1993,* Table 2.2. **1994**—Average of monthly data. **Monthly Data: 1993-1995**—*Petroleum Intelligence Weekly,* the *Oil and Gas Journal,* and other industry sources.

- **World: Annual Data: 1973-1979**—EIA, *International Energy Annual 1981,* Table 8. **1980**—EIA, *International Energy Annual 1989,* Table 1. **1981**—EIA, *International Energy Annual 1990,* Table 1. **1982**—EIA, *International Energy Annual 1991,* Table 1. **1983-1992**—EIA, *International Energy Annual 1992,* Table 1. **1993**—EIA, *International Energy Annual 1993,* Table 2.2. **1994**—Average of monthly data. **Monthly Data: 1993-1995**—EIA, *International Petroleum Statistics Report,* sum of all countries' monthly data.

Appendix A. Thermal Conversion Factors

The thermal conversion factors presented in the following eight 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 have a heat content of approximately 66.36 million Btu (10 barrels x 6.636 million Btu/barrel = 66.36 million Btu).

Thermal conversion factors for hydrocarbon mixes (Table A1) are weighted averages of the thermal conversion factors for each hydrocarbon included in the mix. For example, in calculating the thermal conversion factor for a 60-40 butane-propane mixture, the thermal conversion factor for butane is weighted 1.5 times more heavily than the thermal conversion factor for propane.

In general, the annual thermal conversion factors presented in Tables A1 through A8 are computed from final annual data. However, if the current year's final data are not available in time for publication, thermal conversion factors for the current year are computed from the best available data and are labeled "preliminary." The source of each factor is described in the section entitled "Thermal Conversion Factor Source Documentation," which follows Table A8 in this appendix.

Table A1. Approximate Heat Content of Petroleum Products

(Million Btu per Barrel)

Petroleum Product	Heat Content	Petroleum Product	Heat Content
Asphalt	6.636	Petrochemical Feedstocks	
Aviation Gasoline	5.048	Naphtha Less Than 401° F	5.248
Butane	4.326	Other Oils Equal to or Greater Than 401° F	5.825
Butane-Propane Mixture[a]	4.130	Still Gas	6.000
Distillate Fuel Oil	5.825	Petroleum Coke	6.024
Ethane	3.082	Plant Condensate	5.418
Ethane-Propane Mixture[b]	3.308	Propane	3.836
Isobutane	3.974	Residual Fuel Oil	6.287
Jet Fuel, Kerosene Type	5.670	Road Oil	6.636
Jet Fuel, Naphtha Type	5.355	Special Naphthas	5.248
Kerosene	5.670	Still Gas	6.000
Lubricants	6.065	Unfinished Oils	5.825
Motor Gasoline	5.253	Unfractionated Stream	5.418
Natural Gasoline and Isopentane	4.620	Waxes	5.537
Pentanes Plus	4.620	Miscellaneous	5.796

[a] 60 percent butane and 40 percent propane.

[b] 70 percent ethane and 30 percent propane.

Source: See "Thermal Conversion Factor Source Documentation," which follows Table A8.

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 and Products		Natural Gas Plant Liquids
	Production	Imports	Exports	Imports	Exports	Production
1973	5.800	5.817	5.800	5.897	5.752	4.049
1974	5.800	5.827	5.800	5.884	5.774	4.011
1975	5.800	5.821	5.800	5.858	5.748	3.984
1976	5.800	5.808	5.800	5.856	5.745	3.964
1977	5.800	5.810	5.800	5.834	5.797	3.941
1978	5.800	5.802	5.800	5.839	5.808	3.925
1979	5.800	5.810	5.800	5.810	5.832	3.955
1980	5.800	5.812	5.800	5.796	5.820	3.914
1981	5.800	5.818	5.800	5.775	5.821	3.930
1982	5.800	5.826	5.800	5.775	5.820	3.872
1983	5.800	5.825	5.800	5.774	5.800	3.839
1984	5.800	5.823	5.800	5.745	5.850	3.812
1985	5.800	5.832	5.800	5.736	5.814	3.815
1986	5.800	5.903	5.800	5.808	5.832	3.797
1987	5.800	5.901	5.800	5.820	5.858	3.804
1988	5.800	5.900	5.800	5.820	5.840	3.800
1989	5.800	5.906	5.800	5.833	5.857	3.826
1990	5.800	5.934	5.800	5.849	5.833	3.822
1991	5.800	5.948	5.800	5.873	5.823	3.807
1992	5.800	5.953	5.800	5.877	5.777	3.804
1993	5.800	5.954	5.800	5.883	5.779	3.801
1994[a]	5.800	5.951	5.800	5.862	5.781	3.794
1995[a]	5.800	5.951	5.800	5.862	5.781	3.794

[a] Preliminary.
Note: Crude oil includes lease condensate.
Source: See "Thermal Conversion Factor Source Documentation," which follows Table A8.

Table A3. Approximate Heat Content of Petroleum Products, Weighted Averages

(Million Btu per Barrel)

	Consumption							
	Residential and Commercial	Industrial	Transportation	Electric Utilities	Total	Imports	Exports	LPG Consumption
1973	5.387	5.568	5.395	6.245	5.515	5.983	5.752	3.746
1974	5.377	5.538	5.394	6.238	5.504	5.959	5.773	3.730
1975	5.358	5.528	5.392	6.250	5.494	5.935	5.747	3.715
1976	5.383	5.538	5.395	6.251	5.504	5.980	5.743	3.711
1977	5.389	5.555	5.400	6.249	5.518	5.908	5.796	3.677
1978	5.382	5.553	5.404	6.251	5.519	5.955	5.814	3.669
1979	5.471	5.418	5.428	6.258	5.494	5.811	5.864	3.680
1980	5.468	5.376	5.440	6.254	5.479	5.748	5.841	3.674
1981	5.409	5.313	5.432	6.258	5.448	5.659	5.837	3.643
1982	5.392	5.263	5.422	6.258	5.415	5.664	5.829	3.615
1983	5.286	5.273	5.415	6.255	5.406	5.677	5.800	3.614
1984	5.384	5.223	5.422	6.251	5.395	5.613	5.867	3.599
1985	5.326	5.221	5.423	6.247	5.387	5.572	5.819	3.603
1986	5.357	5.286	5.427	6.257	5.418	5.624	5.839	3.640
1987	5.316	5.253	5.430	6.249	5.403	5.599	5.860	3.659
1988	5.320	5.248	5.434	6.250	5.410	5.618	5.842	3.652
1989	5.257	5.233	5.440	6.241	5.410	5.641	5.869	3.683
1990	5.208	5.272	5.445	6.247	5.411	5.614	5.838	3.625
1991	5.163	5.192	5.442	6.248	5.384	5.636	5.827	3.614
1992	5.169	5.188	5.445	6.243	5.378	5.623	5.774	3.624
1993	5.148	5.200	5.438	6.241	5.379	5.620	5.777	3.606
1994[a]	5.122	5.181	5.441	6.231	5.371	5.538	5.779	3.635
1995[a]	5.122	5.181	5.441	6.231	5.371	5.538	5.779	3.635

[a] Preliminary.
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 A8.

Table A4. Approximate Heat Content of Natural Gas

(Btu per Cubic Foot)

	Production		Consumption				
	Dry	Marketed (Wet)	Sectors Other Than Electric Utilities	Electric Utilities	Total	Imports	Exports
1973	1,021	1,093	1,020	1,024	1,021	1,026	1,023
1974	1,024	1,097	1,024	1,022	1,024	1,027	1,016
1975	1,021	1,095	1,020	1,026	1,021	1,026	1,014
1976	1,020	1,093	1,019	1,023	1,020	1,025	1,013
1977	1,021	1,093	1,019	1,029	1,021	1,026	1,013
1978	1,019	1,088	1,016	1,034	1,019	1,030	1,013
1979	1,021	1,092	1,018	1,035	1,021	1,037	1,013
1980	1,026	1,098	1,024	1,035	1,026	1,022	1,013
1981	1,027	1,103	1,025	1,035	1,027	1,014	1,011
1982	1,028	1,107	1,026	1,036	1,028	1,018	1,011
1983	1,031	1,115	1,031	1,030	1,031	1,024	1,010
1984	1,031	1,109	1,030	1,035	1,031	1,005	1,010
1985	1,032	1,112	1,031	1,038	1,032	1,002	1,011
1986	1,030	1,110	1,029	1,034	1,030	997	1,008
1987	1,031	1,112	1,031	1,032	1,031	999	1,011
1988	1,029	1,109	1,029	1,028	1,029	1,002	1,018
1989	1,031	1,107	1,031	1,030	1,031	1,004	1,019
1990	1,031	1,105	1,030	1,034	1,031	1,012	1,018
1991	1,030	1,108	1,031	1,024	1,030	1,014	1,022
1992	1,030	1,110	1,031	1,022	1,030	1,011	1,018
1993	1,027	1,106	1,028	1,022	1,027	1,020	1,016
1994[a]	1,027	1,106	1,028	1,022	1,027	1,020	1,016
1995[a]	1,027	1,106	1,028	1,022	1,027	1,020	1,016

[a] Preliminary.

Source: See "Thermal Conversion Factor Source Documentation," which follows Table A8.

Table A5. Approximate Heat Content of Coal

(Million Btu per Short Ton)

		Consumption						
	Production	Residential and Commercial	Coke Plants	Other Industrial[a]	Electric Utilities[b]	Total	Imports	Exports
1973	23.376	22.831	26.780	22.586	22.246	23.057	25.000	26.596
1974	23.072	22.479	26.778	22.419	21.781	22.677	25.000	26.700
1975	22.897	22.261	26.782	22.436	21.642	22.506	25.000	26.562
1976	22.855	22.774	26.781	22.530	21.679	22.498	25.000	26.601
1977	22.597	22.919	26.787	22.322	21.508	22.265	25.000	26.548
1978	22.248	22.466	26.789	22.207	21.275	22.017	25.000	26.478
1979	22.454	22.242	26.788	22.452	21.364	22.100	25.000	26.548
1980	22.415	22.543	26.790	22.690	21.295	21.947	25.000	26.384
1981	22.308	22.474	26.794	22.585	21.085	21.713	25.000	26.160
1982	22.239	22.695	26.797	22.712	21.194	21.674	25.000	26.223
1983	22.052	22.775	26.798	22.691	21.133	21.576	25.000	26.291
1984	22.010	22.844	26.799	22.543	21.101	21.573	25.000	26.402
1985	21.870	22.646	26.798	22.020	20.959	21.366	25.000	26.307
1986	21.913	22.947	26.798	22.198	21.084	21.462	25.000	26.292
1987	21.922	23.404	26.799	22.381	21.136	21.517	25.000	26.291
1988	21.823	23.571	26.799	22.360	20.900	21.328	25.000	26.299
1989	21.765	23.650	26.800	22.347	20.848	21.272	25.000	26.160
1990	21.822	23.137	26.799	22.457	20.929	21.331	25.000	26.202
1991	21.681	23.114	26.799	22.460	20.755	21.146	25.000	26.188
1992	21.646	23.105	26.799	22.250	20.787	21.143	25.000	26.161
1993	21.388	22.994	26.800	22.123	20.639	20.983	25.000	26.335
1994[c]	21.352	23.600	26.800	22.067	20.691	21.015	25.000	26.329
1995[c]	21.352	23.600	26.800	22.067	20.691	21.015	25.000	26.329

[a] Includes transportation.

[b] Data shown in this column are not the same as those shown in the *Electric Power Monthly* (EPM). The EPM data report coal receipts; the data shown here represent coal consumption.

[c] Preliminary.

Source: See "Thermal Conversion Factor Source Documentation," which follows Table A8.

Table A6. Approximate Heat Content of Bituminous Coal and Lignite

(Million Btu per Short Ton)

	Production	Consumption					Imports	Exports
		Residential and Commercial	Coke Plants	Other Industrial[a]	Electric Utilities	Total		
1973	23.391	22.887	26.800	22.585	22.262	23.073	25.000	26.612
1974	23.087	22.523	26.800	22.420	21.799	22.694	25.000	26.716
1975	22.910	22.258	26.800	22.439	21.659	22.522	25.000	26.573
1976	22.863	22.819	26.800	22.528	21.692	22.509	25.000	26.613
1977	22.597	22.594	26.800	22.290	21.521	22.266	25.000	26.561
1978	22.242	22.078	26.800	22.175	21.284	22.014	25.000	26.501
1979	22.449	21.884	26.800	22.436	21.372	22.100	25.000	26.570
1980	22.411	22.488	26.800	22.690	21.301	21.950	25.000	26.404
1981	22.301	22.010	26.800	22.572	21.091	21.710	25.000	26.176
1982	22.233	22.226	26.800	22.695	21.200	21.670	25.000	26.231
1983	22.048	22.438	26.800	22.680	21.141	21.576	25.000	26.300
1984	22.005	22.406	26.800	22.525	21.108	21.570	25.000	26.410
1985	21.867	22.568	26.800	22.013	20.965	21.368	25.000	26.320
1986	21.908	22.669	26.800	22.185	21.091	21.462	25.000	26.308
1987	21.918	22.800	26.800	22.360	21.143	21.514	25.000	26.304
1988	21.817	23.135	26.800	22.341	20.905	21.324	25.000	26.308
1989	21.759	22.917	26.800	22.324	20.854	21.268	25.000	26.166
1990	21.819	22.678	26.800	22.444	20.935	21.330	25.000	26.207
1991	21.678	22.635	26.800	22.448	20.761	21.146	25.000	26.192
1992	21.643	22.768	26.800	22.242	20.792	21.142	25.000	26.165
1993	21.383	22.749	26.800	22.111	20.644	20.983	25.000	26.341
1994[b]	21.348	23.004	26.800	22.036	20.699	21.012	25.000	26.335
1995[b]	21.348	23.004	26.800	22.036	20.699	21.012	25.000	26.335

[a] Includes transportation.
[b] Preliminary.
Source: See "Thermal Conversion Factor Source Documentation," which follows Table A8.

Table A7. Approximate Heat Content of Anthracite and Coal Coke

(Million Btu per Short Ton)

	Anthracite					Coal Coke Imports and Exports
	Production	Consumption			Imports and Exports	
		Sectors Other Than Electric Utilities	Electric Utilities	Total		
1973	22.132	22.674	17.920	21.464	25.400	24.800
1974	21.711	22.330	17.200	20.919	25.400	24.800
1975	21.582	22.272	17.064	20.762	25.400	24.800
1976	22.045	22.618	17.526	21.254	25.400	24.800
1977	22.661	24.101	17.244	22.066	25.400	24.800
1978	23.079	24.388	17.104	22.398	25.400	24.800
1979	23.170	24.272	17.454	22.069	25.400	24.800
1980	22.869	22.719	17.652	21.405	25.400	24.800
1981	23.291	23.749	18.168	22.080	25.400	24.800
1982	23.289	24.578	18.160	22.518	25.400	24.800
1983	22.734	24.536	16.516	21.583	25.400	24.800
1984	23.107	25.128	17.018	22.322	25.400	24.800
1985	22.428	23.031	16.784	20.817	25.400	24.800
1986	23.084	24.399	15.578	21.512	25.400	24.800
1987	23.108	26.293	15.962	22.435	25.400	24.800
1988	23.266	26.021	17.312	22.423	25.400	24.800
1989	23.385	27.196	16.310	22.623	25.400	24.800
1990	22.574	25.199	16.140	21.668	25.400	24.800
1991	22.573	25.268	15.858	21.410	25.400	24.800
1992	22.572	24.617	16.944	21.423	25.400	24.800
1993	22.573	24.096	16.534	21.262	25.400	24.800
1994[a]	22.574	26.280	14.878	21.711	25.400	24.800
1995[a]	22.574	26.280	14.878	21.711	25.400	24.800

[a] Preliminary.
Source: See "Thermal Conversion Factor Source Documentation," which follows Table A8.

Table A8. Approximate Heat Rates for Electricity

(Btu per Kilowatthour)

	Electricity Generation			
	Fossil-Fueled Steam-Electric Plants[a]	Nuclear Steam-Electric Plants	Geothermal Energy Plants	Electricity Consumption
1973	10,389	10,903	21,674	3,412
1974	10,442	11,161	21,674	3,412
1975	10,406	11,013	21,611	3,412
1976	10,373	11,047	21,611	3,412
1977	10,435	10,769	21,611	3,412
1978	10,361	10,941	21,611	3,412
1979	10,353	10,879	21,545	3,412
1980	10,388	10,908	21,639	3,412
1981	10,453	11,030	21,639	3,412
1982	10,454	11,073	21,629	3,412
1983	10,520	10,905	21,290	3,412
1984	10,440	10,843	21,303	3,412
1985	10,447	10,813	21,263	3,412
1986	10,446	10,799	21,263	3,412
1987	10,419	10,776	21,263	3,412
1988	10,324	10,743	21,096	3,412
1989	10,317	10,724	21,096	3,412
1990	10,335	10,680	21,096	3,412
1991	10,352	10,740	20,997	3,412
1992	10,302	10,678	20,914	3,412
1993	10,280	10,682	20,914	3,412
1994[b]	10,280	10,682	20,914	3,412
1995[b]	10,280	10,682	20,914	3,412

[a] This thermal conversion factor is used for hydroelectric power generation and for biomass fuels, wind, photovoltaic, and solar thermal energy consumed at electric utilities.

[b] 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, by determining the average American Petroleum Institute (API) gravity of crude imported from each foreign country from Form ERA-60 in 1977 and converting average API gravity to average Btu content by using National Bureau of Standards, Miscellaneous Publication No. 97, *Thermal Properties of Petroleum Products,* 1933.

Crude Oil 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**.

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 (LPG) Consumption. Calculated annually by EIA as the average of the thermal conversion factors of each liquefied petroleum gas consumed, weighted by the quantity of each liquefied petroleum gas consumed.

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. EIA adopted the Bureau of Mines thermal conversion factor of 5.253 million Btu per barrel for "Gasoline, Motor Fuel" 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.

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 30,120,000 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 Oil. 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

Anthracite, Total Consumption. Calculated annually by EIA by dividing the sum of the heat content of anthracite consumed by electric utilities and all other sectors combined by the total quantity of anthracite consumed.

Anthracite, Consumption by Electric Utilities. Calculated annually by EIA by dividing the heat content of anthracite receipts at electric utilities by the quantity of anthracite received at electric utilities. Heat contents and receipts are from Form FERC-423 and predecessor forms.

Anthracite, Consumption by Sectors Other Than Electric Utilities. Calculated annually by EIA by dividing the heat content of anthracite production less the heat content of the anthracite consumed at electric utilities, net exports, and shipments to U.S. Armed Forces overseas by the quantity of anthracite consumed by sectors other than electric utilities less the quantity of anthracite stock changes, losses, and "unaccounted for."

Anthracite, Imports and Exports. EIA assumed the anthracite imports and exports to be freshly mined anthracite having an estimated heat content of 25.40 million Btu per short ton.

Anthracite, Production. Calculated annually by EIA by dividing the sum of the heat content of freshly mined anthracite (estimated to have an average heat content of 25.400 million Btu per short ton) and the heat content of anthracite recovered from culm banks and river dredging (estimated to have a heat content of 17.500 million Btu per short ton) by the total quantity of anthracite production.

Bituminous Coal and Lignite, Total Consumption. Calculated annually by EIA by dividing the sum of the heat content of bituminous coal and lignite consumed by electric utilities, coal coke plants, other industrial plants, the residential and commercial sector, and the transportation sector by the sum of their respective tonnages.

Bituminous Coal and Lignite, Consumption by Coke Plants. Estimated by EIA to be 26.800 million Btu per short ton on the basis of an input/output analysis of coal carbonization.

Bituminous Coal and Lignite, Consumption by Electric Utilities. Calculated annually by EIA by dividing the total heat content of bituminous coal and lignite received at electric utilities by the total quantity received at electric utilities. Heat contents and receipts are from Form FERC-423 and predecessor forms.

Bituminous Coal and Lignite, Consumption by Other Industrial and Transportation Users. 1973: Calculated by EIA through regression analysis measuring the difference between the average Btu value of coal consumed by other industrial users and that of coal consumed at electric utilities in the 1974-1982 period. 1974 forward: Calculated annually by EIA by assuming that the bituminous coal and lignite delivered to other industrial users from each coal-producing area (reported on Form EIA-6 and predecessor Bureau of Mines Form 6-1419-Q) contained a heat value equal to that of bituminous coal and lignite received at electric utilities from each of the same coal-producing areas (reported on Form FERC-423). The average Btu value of coal by coal-producing area was applied to the volume of deliveries to other industrial users from each coal-producing area, and the sum total of the heat content was divided by the total volume of deliveries. Coal-producing areas are the Bureau of Mines coal-producing districts for 1974 through 1989 and coal-producing States for 1990 forward.

Bituminous Coal and Lignite, Consumption by Residential and Commercial Users. 1973: Calculated by EIA through regression analysis measuring the difference between the average Btu value of coal consumed by residential and commercial users and that of coal consumed by electric utilities

in the 1974-1982 period. 1974 forward: Calculated annually by EIA by assuming that the bituminous coal and lignite delivered to residential and commercial users from each coal-producing area (reported on Form EIA-6 and predecessor Bureau of Mines Form 6-1419-Q) contained a heat value equal to that of bituminous coal and lignite received at electric utilities from each of the same coal-producing areas (reported on Form FERC-423). The average Btu value of coal by coal-producing area was applied to the volume of deliveries to residential and commercial users from each coal-producing area, and the total of the heat value was divided by the total volume of deliveries. Coal-producing areas are the Bureau of Mines coal-producing districts for 1974 through 1989 and coal-producing States for 1990 forward.

Bituminous Coal and Lignite, Exports. Calculated annually by EIA by dividing the sum of the heat content of exported metallurgical coal (estimated to average 27.000 million Btu per short ton) and the heat content of exported steam coal (estimated to have an average thermal content of 25.000 million Btu per short ton) by the total quantity of bituminous coal and lignite exported.

Bituminous Coal and Lignite, Imports. EIA estimated the average thermal conversion factor to be 25.000 million Btu per short ton.

Bituminous Coal and Lignite, Production. Calculated annually by EIA by dividing the sum of the heat content of bituminous coal and lignite consumption, net exports, stock changes, and unaccounted for by the sum of their respective tonnages. Consumers' stock changes by sectors were assumed to have the same conversion factor as that of the consumption sector. Producers' stock changes and unaccounted for were assumed to have the same conversion factor as that for consumption by all users.

Coal, Consumption. Calculated annually by EIA by dividing the sum of the heat content of bituminous coal and lignite and anthracite consumption by the sum of their respective tonnages.

Coal, Consumption by Electric Utilities. Calculated annually by EIA by dividing the sum of the heat content of bituminous coal and lignite and anthracite received at electric utilities by the sum of their respective tonnages received.

Coal, Consumption by Sectors Other Than Electric Utilities. Calculated annually by EIA by dividing the sum of the heat content of bituminous coal and lignite and anthracite consumed by sectors other than electric utilities by the sum of their respective tonnages.

Coal, Exports. Calculated annually by EIA by dividing the sum of the heat content of bituminous coal and lignite and anthracite exported by the sum of their respective tonnages.

Coal, Imports. Calculated annually by EIA by dividing the sum of the heat content of bituminous coal and lignite and anthracite imported by the sum of their respective tonnages.

Coal, Production. Calculated annually by EIA by dividing the sum of the total heat content of bituminous coal and lignite and anthracite production by the sum of their respective tonnages.

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, Form EIA-412, 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).

Table B1. Metric Conversion Factors

Type of Unit	U.S. Unit	*multiplied by*	Conversion Factor	*equals*	Metric Unit
Mass	short tons (2,000 lb)	x	0.907 184 7	=	metric tons (t)
	long tons	x	1.016 047	=	metric tons (t)
	pounds (lb)	x	0.453 592 37[a]	=	kilograms (kg)
	pounds uranium oxide (lb U_3O_8)	x	0.384 647[b]	=	kilograms uranium (kgU)
	ounces, avoirdupois (avdp oz)	x	28.349 52	=	grams (g)
Volume	barrels of oil (bbl)	x	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)	x	16.387 06	=	milliliters (mL)
Length	miles (mi)	x	1.609 344[a]	=	kilometers (km)
	yards (yd)	x	0.914 4[a]	=	meters (m)
	feet (ft)	x	0.304 8[a]	=	meters (m)
	inches (in)	x	2.54[b]	=	centimeters (cm)
Area	acres	x	0.404 69	=	hectares (ha)
	square miles (mi^2)	x	2.589 988	=	square kilometers (km^2)
	square yards (yd^2)	x	0.836 127 4	=	square meters (m^2)
	square feet (ft^2)	x	0.092 903 04[a]	=	square meters (m^2)
	square inches (in^2)	x	6.451 6[b]	=	square centimeters (cm^2)
Temperature	degrees Fahrenheit (°F)	x	5/9 (after subtracting 32)[a,c]	=	degrees Celsius (°C)
Energy	British thermal units (Btu)	x	1, 055.055 852 62 [a,d]	=	joules (J)
	calories (cal)	x	4.186 8[a]	=	joules (J)
	kilowatthours (kWh)	x	3.6[a]	=	megajoules (MJ)

[a]Exact conversion.
[b]Calculated by the Energy Information Administration.
[c]To convert degrees Celsius (°C) to degrees Fahrenheit (°F) exactly, multiply by 9/5, then add 32.
[d]The 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	c
10^{3}	kilo	k	10^{-3}	milli	m
10^{6}	mega	M	10^{-6}	micro	μ
10^{9}	giga	G	10^{-9}	nano	n
10^{12}	tera	T	10^{-12}	pico	p
10^{15}	peta	P	10^{-15}	femto	f
10^{18}	exa	E	10^{-18}	atto	a
10^{21}	zetta	Z	10^{-21}	zepto	z
10^{24}	yotta	Y	10^{-24}	yocto	y

Source: U.S. Department of Commerce, National Institute of Standards and Technology, *The International System of Units (SI)*, NIST Special Publication 330, 1991 Edition (Washington, DC, August 1991), p. 10.

Table B3. Other Physical Conversion Factors

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

[a]Exact conversion.
[b]Calculated 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

The need for accurate estimates of carbon dioxide emissions produced during the combustion of coal has led the Energy Information Administration (EIA) to develop basic emission factors. Basic emission factors reflect the carbon-to-heat-content ratio of coal, a ratio which measures carbon dioxide emissions per unit of energy (pounds per million Btu), assuming complete combustion. These basic factors are derived from 5,426 sample analyses maintained in EIA's Coal Analysis File. Variations in the carbon-to-heat-content of different coals were observed to follow coal rank and geographic origin, leading EIA to develop basic emission factors specific to the rank and the State of origin of the coal.

On the basis of these rank- and State-specific basic emission factors for coal, EIA has also developed emission factors by sector. These sectoral emission factors weight the coal consumed in a given sector by its rank and State of origin. Table C1 presents the U.S. average carbon dioxide emission factors for coal by sector. Emission factors differ among sectors and within a given sector over time for a number of reasons:

- 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).
- 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.
- 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.
- Electric utilities, which account for most U.S. coal consumption, have shifted over time away from high-rank, low-emission bituminous coal to low-rank, high-emission subbituminous coal and lignite as reflected in a gradually rising weighted-average carbon dioxide emission factor.

Table C1. Average Carbon Dioxide Emission Factors for Coal by Coal-Consuming Sector

(Pounds of Carbon Dioxide per Million Btu)

Year	Residential and Commercial	Industrial		Electric Utilities	U.S. Average[b]
		Coke Plants[a]	Other Coal		
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

[a]No allowances have been made for carbon retained in non-energy coal chemical byproducts from the coal carbonization process.
[b]Weighted 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 four categories of features on the list. "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. Questions and comments about features may be directed to Barbara T. Fichman by telephone at 202-586-5737, by fax at 202-586-0018, or by Internet E-Mail at bfichman@eia.doe.gov.

Feature	Cover Date
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
1994	
Energy Preview: Commercial Buildings Energy Consumption Survey, Preliminary Estimates, 1992	January 1994
Highlights: *Household Vehicles Energy Consumption 1991*	February 1994
Highlights: *Energy Use and Carbon Emissions: Some International Comparisons*	April 1994
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
Highlights: *Reducing Home Heating and Cooling Costs*	August 1994
Energy Preview: Commercial Buildings Energy Consumption and Expenditures 1992, Preliminary Estimates	September 1994
Article: Carbon Dioxide Emission Factors for Coal: A Summary	September 1994
Article: The Impact of Flow Control and Tax Reform on Ownership and Growth in the U.S. 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

Feature	Cover Date
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
Highlights: *Derived Annual Estimates of Manufacturing Energy Consumption, 1974-1988*	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
Highlights: *U.S. Oil and Gas Reserves by Year of Field Discovery*	August 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	May 1989
Highlights: *Commercial Buildings Consumption and Expenditures 1986*	May 1989
Article: Higher Prices Yield Improved Energy Industry Financial Results in the First Half of 1989	June 1989
Article: The Future Structure of the U.S. Commercial Nuclear Power Equipment Manufacturing Industry	July 1989
Highlights: *Potential Costs of Restricting Chlorofluorocarbon Use*	September 1989
Highlights: Manufacturing Energy Consumption Survey: Changes in Energy Efficiency, 1980-1985	October 1989
Highlights: Household Energy Consumption and Expenditures 1987, Part 1: National Data	November 1989
Article: Improved Energy Profits Offset by Refining Results in 1989	December 1989
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Article: Measures of Energy Consumption, Expenditures, and Prices	May 1988
Highlights: Characteristics of Commercial Buildings 1986	June 1988
Article: The U.S. Energy Industry's Financial Recovery Continued in the First Half of 1988	June 1988
Article: A U.S. Perspective on Condensate	June 1988
Article: State Energy Severance Taxes, 1972-1987	July 1988
Highlights: Manufacturing Energy Consumption Survey: Consumption of Energy, 1985	September 1988
Highlights: Profiles of Foreign Direct Investment in U.S. Energy 1987	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
Highlights: Consumption and Expenditures, April 1984 Through March 1985, Part 1: National Data	April 1987
Highlights: Consumption and Expenditures, April 1984 Through March 1985, 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	July 1987
Highlights: Uranium Industry Annual 1986	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

Feature	Cover Date
1986	
Article: State Motor Gasoline Taxes, 1960-1985	March 1986
Article: The Impact of Low Oil Prices on Electric Utility Fuel Choice	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	March 1985
Highlights: State Energy Data Report, Consumption Estimates, 1960-1983	April 1985
Highlights: Annual Outlook for U.S. Electric Power 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*	November 1985
Highlights: Performance Profiles of Major Energy Producers 1984	December 1985
1984	
Highlights: Annual Energy Review 1983	February 1984
Highlights: Annual Energy Outlook 1983	March 1984
Highlights: State Energy Data Report, Consumption Estimates, 1960-1982	March 1984
Highlights: State Energy Price and Expenditure Report, 1970-1981	May 1984
Highlights: Solar Collector Manufacturing Activity 1983	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	November 1984
Highlights: Annual Energy Outlook 1984	December 1984
1983	
Highlights: Residential Energy Consumption Survey: Consumption and Expenditures	January 1983
Highlights: Residential Energy Consumption Survey: Housing Characteristics	February 1983
Article: The Effect of Weather on Energy Use	April 1983
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	August 1983
Highlights: Port Deepening and User Fees: Impact on U.S. Coal Exports	August 1983
Highlights: U.S. Crude Oil, Natural Gas, and Natural Gas Liquids Reserves, 1982 Annual Report	September 1983
Article: Residential Energy Consumption, 1978 Through 1981	September 1983
Article: Exploring for Oil and Gas	November 1983
Article: The Influence of Federal Actions on Petroleum Exploration	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

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Article: Changes in 1981 Petroleum Data Series	May 1981
Article: Information Services of the Energy Information Administration	September 1981
Article: An Overview of Natural Gas Markets	December 1981
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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
Article: Energy From Urban Waste	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 Information Maintained by the Energy Information Administration	December 1980
1979	
Article: The Energy Requirements of U.S. Agriculture	July 1979
Article: Three Mile Island—Possible Regulatory Responses and Their Impacts 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
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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
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Article: Energy Consumption	March 1975
Article: Nuclear Power	April 1975

Glossary

Anthracite: A hard, black, lustrous coal containing a high percentage of fixed carbon and a low percentage of volatile matter. Often referred to as hard coal. It conforms to ASTM Specification D388-84 for anthracite, meta-anthracite, and semianthracite.

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 for use 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, with a moisture content usually less than 20 percent. Often referred to as soft coal. It is the most common coal and is used primarily for generating electricity, making coke, and space heating. It conforms to ASTM Specification D388-84 for bituminous coal. In this report, bituminous coal includes subbituminous coal.

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**.

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.

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 black or brownish-black solid, combustible substance formed by the partial decomposition of vegetable matter without access to air. The rank of coal, which includes anthracite, bituminous coal, subbituminous coal, and lignite, is based on fixed carbon, volatile matter, and heating value. Coal rank indicates the progressive alteration, or coalification, from lignite to anthracite. Lignite contains approximately 9 to 17 million Btu per ton. The heat contents of subbituminous and bituminous coal range from 16 to 24 million Btu per ton, and from 19 to 30 million Btu per ton, respectively. Anthracite contains approximately 22 to 28 million Btu per ton.

Coal Coke: A hard, porous product made from baking bituminous coal in ovens at temperatures as high as 2,000° F. It is used both as a fuel and as a reducing agent in smelting iron ore in a blast furnace.

Commercial Sector: The commercial sector, as defined economically, consists of business establishments that are not engaged in transportation or in manufacturing or other types of industrial activity (agriculture, mining, or construction). Commercial establishments include hotels, motels,

restaurants, wholesale businesses, retail stores, laundries, and other service enterprises; religious and nonprofit organizations; health, social, and educational institutions; and Federal, State, and local governments. Street lights, pumps, bridges, and public services are also included if the establishment operating them is considered commercial.

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.

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.

Cost, Insurance, Freight (CIF): A type of sale in which the buyer of the product agrees to pay a unit price that includes the f.o.b. value of the product at the point of origin plus all costs of insurance and transportation. This type of transaction differs from a "delivered" purchase in that the buyer accepts the quantity as determined at the loading port (as certified by the Bill of Loading and Quality Report) rather than pay on the basis of the quantity and quality ascertained at the unloading port. It is similar to the terms of an f.o.b. sale, except that the seller, as a service for which he is compensated, arranges for transportation and insurance.

Crude Oil f.o.b. Price: The crude oil price actually charged at the oil-producing country's port of loading. Includes deductions for any rebates and discounts or additions of premiums, where applicable. It is the actual price paid with no adjustment for credit terms.

Crude Oil (Including Lease Condensate): A mixture of hydrocarbons that exists in liquid phase in underground reservoirs and remains liquid at atmospheric pressure after passing through surface separating facilities. Included are lease condensate and liquid hydrocarbons produced from tar sands, gilsonite, and oil shale. Drip gases are also included, but topped crude oil (residual oil) and other unfinished oils are excluded. Where identifiable, liquids produced at natural gas processing plants and mixed with crude oil are likewise excluded.

Crude Oil Landed Cost: The price of crude oil at the port of discharge, including charges associated with the purchase, transporting, and insuring of a cargo from the purchase point to the port of discharge. The cost does not include charges incurred at the discharge port (e.g., import tariffs or fees, wharfage charges, and demurrage).

Crude Oil Refinery Input: The total crude oil put into processing units at refineries.

Crude Oil Stocks: Stocks of crude oil and lease condensate held at refineries, in pipelines, at pipeline terminals, and on leases.

Crude Oil Used Directly: Crude oil consumed as fuel by crude oil pipelines and on crude oil leases.

Cubic Foot (natural gas): A unit of volume equal to 1 cubic foot at a pressure base of 14.73 pounds standard per square inch absolute and a temperature base of 60° F.

Degree-Day Normals: Simple arithmetic averages of monthly or annual degree-days over a long period of time (usually the 30-year period 1961-1990). The averages may be simple degree-day normals or population-weighted degree-day normals.

Degree-Days, Cooling (CDD): The number of degrees per day that the daily average temperature is above 65° F. The daily average temperature is the mean of the maximum and minimum temperatures for a 24-hour period.

Degree-Days, Heating (HDD): The number of degrees per day that the daily average temperature is below 65° F. The daily average temperature is the mean of the maximum and minimum temperatures for a 24-hour period.

Degree-Days, Population-Weighted: Heating or cooling degree-days weighted by the population of the area in which the degree-days are recorded. To compute State population-weighted degree-days, each State is divided into from one to nine climatically homogeneous divisions, which are assigned weights based on the ratio of the population of the division to the total population of the State. Degree-day readings for each division are multiplied by the corresponding population weight for each division and those products are then summed to arrive at the State population-weighted degree-day figure. To compute national population-weighted degree-days, the Nation is divided into nine Census regions comprised of from three to eight States, which are assigned weights based on the ratio of the population of the region to the total population of the Nation. Degree-day readings for each region are multiplied by the corresponding population weight for each region and those products are then summed to arrive at the national population-weighted degree-day figure.

Design Electrical Rating, Net: The nominal net electrical output of a nuclear unit as specified by the electric utility for the purpose of plant design.

Development Well: A well drilled within the proved area of an oil or gas reservoir to the depth of a stratigraphic horizon known to be productive.

Distillate Fuel Oil: A general classification for one of the petroleum fractions produced in conventional distillation operations. Included are products known as No. 1, No. 2, and No. 4 fuel oils and No. 1, No. 2, and No. 4 diesel fuels. It is used primarily for space heating, on- and off-highway diesel engine fuel (including railroad engine fuel and fuel for agricultural machinery), and electric power generation.

Dry Hole: An exploratory or development well found to be incapable of producing either oil or gas in sufficient quantities to justify completion as an oil or gas well.

Dry Natural Gas Production (as a decrement from gas reserves): The volume of natural gas withdrawn from reservoirs during the report year less (1) the volume returned to such reservoirs in cycling, repressuring of oil reservoirs, and conservation operations; (2) shrinkage resulting from the removal of lease condensate and plant liquids; and (3) nonhydrocarbon gases, where they occur in sufficient quantity to render the gas unmarketable. Volumes of gas withdrawn from gas storage reservoirs and native gas that has been transferred to the storage category are not considered production. This is not the same as marketed production, since the latter also excludes vented and flared gas but contains liquids.

Dry Natural Gas Production (as an increment to gas supply): Gross withdrawals from production reservoirs less gas used in reservoir repressuring, amounts vented and flared, nonhydrocarbons removed, and various natural gas constituents, such as ethane, propane, and butane, removed at natural gas processing plants. The parameters for measurement are 60° F and 14.73 pounds standard per square inch absolute.

Electrical System Energy Losses: The amount of energy lost during generation, transmission, and distribution of electricity, including plant and unaccounted-for uses.

Electricity Generation: The process of producing electric energy or transforming other forms of energy into electric energy. Also the amount of electric energy produced or expressed in watthours (Wh).

Electricity Generation, Gross: The total amount of electric energy produced by the generating station or stations, measured at the generator terminals.

Electricity Generation, Net: Gross generation less electricity consumed at the generating plant for station use. Electricity required for pumping at pumped-storage plants is regarded as plant use and is deducted from gross generation.

Electricity Production: Net electricity (gross electricity output measured at generator terminals minus power plant use) generated by publicly and privately owned electric utilities. Excludes industrial electricity generation (except autogeneration of hydroelectric power).

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 Plant: A station containing prime movers, electric generators, and auxiliary equipment for converting mechanical, chemical, and/or fission energy into electric energy.

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, primarily for use by the public, and that files forms listed in the *Code of Federal Regulations*, Title 18, Part 141. Facilities that qualify as cogenerators or small power producers under the Public Utility Regulatory Policies Act are not considered electric utilities.

Electric Utility Sector: The electric utility sector consists of privately and publicly owned establishments that generate, transmit, distribute, or sell electricity primarily for use by the public and that meet the definition of an electric utility. Nonutility power producers are not included in the electric utility sector.

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 Consumption, End-Use: *Primary end-use energy consumption* is the sum of fossil fuel consumption by the four end-use sectors (residential, commercial, industrial, and transportation) and generation of hydroelectric power by nonelectric utilities. *Net end-use energy consumption* includes

electric utility sales to those sectors but excludes electrical system energy losses. *Total end-use energy consumption* includes both electric utility sales to the four end-use sectors *and* electrical system energy losses.

Energy Consumption, Total: The sum of fossil fuel consumption by the five sectors (residential, commercial, industrial, transportation, and electric utility) plus hydroelectric power, nuclear electric power, net imports of coal coke, and electricity generated for distribution from wood, waste, geothermal, wind, photovoltaic, and solar thermal energy.

Energy Source: A substance, such as petroleum, natural gas, or coal, that supplies heat or power. In Energy Information Administration reports, electricity and renewable forms of energy, such as biomass, geothermal, wind, and solar, are considered to be energy sources.

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.

Ethylene: An olefinic hydrocarbon (C_2H_4) recovered from refinery processes or petrochemical processes.

Exploratory Well: A well drilled to find and produce oil or gas in an unproved area, to find a new reservoir in a field previously found to be productive of oil or gas in another reservoir, or to extend the limit of a known oil or gas reservoir.

Exports: Shipments of goods from the 50 States and the District of Columbia to foreign countries and to Puerto Rico, the Virgin Islands, and other U.S. possessions and territories.

f.a.s.: See **Free Alongside Ship**.

Federal Energy Regulatory Commission (FERC): The Federal agency with jurisdiction over interstate electricity sales, wholesale electric rates, hydroelectric licensing, natural gas pricing, oil pipeline rates, and gas pipeline certification. FERC is an independent regulatory agency within the Department of Energy and is the successor to the Federal Power Commission.

Federal Power Commission (FPC): The predecessor agency of the Federal Energy Regulatory Commission. The Federal Power Commission was created by an Act of Congress under the Federal Water Power Act on June 10, 1920. It was charged originally with regulating the electric power and natural gas industries. It was abolished on September 30, 1977, when the Department of Energy was created. Its functions were divided between the Department of Energy and the Federal Energy Regulatory Commission, an independent regulatory agency.

First Purchase Price: The marketed first sales price of domestic crude oil, consistent with the removal price defined by the provisions of the Windfall Profits Tax on Domestic Crude Oil (Public Law 96-223, Sec. 4998 (c)).

Flared Natural Gas: Natural gas burned in flares on the base site or at gas processing plants.

f.o.b.: See **Free on Board**.

Footage Drilled: Total footage for wells in various categories, as reported for any specified period, includes (1) the deepest total depth (length of well bores) of all wells drilled from the surface, (2) the total of all bypassed footage drilled in connection with reported wells, and (3) all new footage drilled for directional sidetrack wells. Footage reported for directional sidetrack wells does not include footage in the common bore, which is reported as footage for the original well. In the case of old wells drilled deeper, the reported footage is that which was drilled below the total depth of the old well.

Former U.S.S.R.: See **U.S.S.R.**

Fossil Fuel: Any naturally occurring organic fuel, such as petroleum, coal, and natural gas.

Fossil Fuel Steam-Electric Power Plant: An electricity generation plant in which the prime mover is a turbine rotated by high-pressure steam produced in a boiler by heat from burning fossil fuels.

Free Alongside Ship (f.a.s.): The value of a commodity at the port of exportation, generally including the purchase price, plus all charges incurred in placing the commodity alongside the carrier at the port of exportation.

Free on Board (f.o.b.): A transaction whereby the seller makes the product available within an agreed-on period at a given port at a given price. It is the responsibility of the buyer to arrange for the transportation and insurance.

Fuel Ethanol: An anhydrous, denatured aliphatic alcohol (C_2H_5OH) intended for motor gasoline blending. See **Oxygenates.**

Full-Power Operation: Operation of a nuclear generating unit at 100 percent of its design capacity. Full-power operation precedes commercial operation.

Gasohol: A blend of finished motor gasoline (leaded or unleaded) and alcohol (generally ethanol but sometimes methanol) limited to 10 percent by volume

of alcohol. Gasohol is included in finished leaded and unleaded motor gasoline.

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: Energy from the internal heat of the Earth, which may be residual heat, friction heat, or a result of radioactive decay. The heat is found in rocks and fluids at various depths and can be extracted by drilling and/or pumping.

Geothermal Energy (as used at electric utilities): Hot water or steam extracted from geothermal reservoirs in the Earth's crust and supplied to steam turbines at electric utilities that drive generators to produce electricity.

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.

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. Also referred to as the higher heating value. Btu conversion factors typically used in EIA represent gross heat content.

Heat Content of a Quantity of Fuel, Net: The amount of usable heat energy released when a fuel is burned under conditions similar to those in which it is normally used. Also referred to as the lower heating value. Btu conversion factors typically used in EIA represent gross heat content.

Heavy Oil: The fuel oils remaining after the lighter oils have been distilled off during the refining process. Except for start-up and flame stabilization, virtually all petroleum used in steam-electric power plants is heavy oil.

Hydrocarbon: An organic chemical compound of hydrogen and carbon in the gaseous, liquid, or solid phase. The molecular structure of hydrocarbon compounds varies from the simplest (methane, the primary constituent of natural gas) to the very heavy and very complex.

Hydroelectric Power: The production of electricity from the kinetic energy of falling water.

Hydroelectric Power Plant: A plant in which the turbine generators are driven by falling water.

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.

Industrial Sector: The industrial sector comprises manufacturing industries, which make up the largest part of the sector, along with mining, construction, agriculture, fisheries, and forestry. Establishments in this sector range from steel mills, to small farms, to companies assembling electronic components.

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.

Jet Fuel: The term includes kerosene-type jet fuel and naphtha-type jet fuel. Kerosene-type jet fuel is a kerosene-quality product used primarily for commercial turbojet and turboprop aircraft engines. Naphtha-type jet fuel is a fuel in the heavy naphthas range used primarily for military turbojet and turboprop aircraft engines.

Kerosene: A petroleum distillate that has 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.

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 as fuel in natural gas processing plants.

Lease Condensate: A natural gas liquid recovered from gas well gas (associated and non-associated) in lease separators or natural gas field facilities. Lease condensate consists primarily of pentanes and heavier hydrocarbons.

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: A brownish-black coal of low rank with a high content of moisture and volatile matter. Often referred to as brown coal. It is used almost exclusively for electric power generation. It conforms to ASTM Specification D388-84 for lignite.

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.

Methanol: A light, volatile alcohol (CH_3OH) 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 Components: Naphthas that will be used for blending or compounding into finished motor gasoline (e.g., straight-run gasoline, alkylate, reformate, benzene, toluene, and zylene). Excluded are oxygenates (alcohols and ethers), butane, and pentanes plus.

Motor Gasoline, Finished: A complex mixture of relatively volatile hydrocarbons, with or without small quantities of additives, that has been blended to form a fuel suitable for use in spark-ignition engines. Motor gasoline, as given in ASTM Specification D439 or Federal Specification VV-G-1690B, includes a range in distillation temperatures from 122 to 158° F at the 10-percent recovery point and from 365 to 374° F at the 90-percent recovery point. Motor gasoline includes reformulated motor gasoline, oxygenated motor gasoline, and other finished motor gasoline. Blendstock is excluded until blending has been completed.

- *Reformulated Motor Gasoline*: Motor gasoline, formulated for use in motor vehicles, the composition and properties of which are certified as "reformulated motor gasoline" by the Environmental Protection Agency.
- *Oxygenated Motor Gasoline*: Motor gasoline, formulated for use in motor vehicles, that has an oxygen content of 1.8 percent or higher by weight.
- *Other Finished Motor Gasoline:* Motor gasoline that is not included in the reformulated or oxygenated categories.

Motor Gasoline, Finished Gasohol: A blend of finished motor gasoline (leaded or unleaded) and alcohol (generally ethanol, but sometimes methanol) in which 10 percent or more of the product is alcohol.

Motor Gasoline, Finished Leaded: Motor gasoline that contains more than 0.05 gram of lead per gallon or more than 0.005 gram of phosphorus per gallon. Premium and regular grades are included, depending on the octane rating. Includes leaded gasohol. Blendstock is excluded until blending has been completed. Alcohol that is to be used in the blending of gasohol is also excluded.

Motor Gasoline, Finished Leaded Premium: Motor gasoline having an antiknock index, calculated as (R+M)/2, greater than 90 and containing more than 0.05 gram of lead per gallon or more than 0.005 gram of phosphorus per gallon.

Motor Gasoline, Finished Leaded Regular: Motor gasoline having an antiknock index, calculated as (R+M)/2, greater than or equal to 87 and less than or equal to 90 and containing more than 0.05 gram of lead or 0.005 gram of phosphorus per gallon.

Motor Gasoline, Finished Unleaded: Motor gasoline containing not more than 0.05 gram of lead per gallon and not more than 0.005 gram of phosphorus per gallon. Premium and regular grades are included, depending on the octane rating. Includes unleaded gasohol. Blendstock is excluded until blending has

been completed. Alcohol that is to be used in the blending of gasohol is also excluded.

Motor Gasoline, Finished Unleaded Midgrade: Motor gasoline having an antiknock index, calculated as (R+M)/2, greater than or equal to 88 and less than or equal to 90 and containing not more than 0.05 gram of phosphorus per gallon.

Motor Gasoline, Finished Unleaded Premium: Motor gasoline having an antiknock index, calculated as (R+M)/2, greater than 90 and containing not more than 0.05 gram of lead or 0.005 gram of phosphorus per gallon.

Motor Gasoline, Finished Unleaded Regular: Motor gasoline having an antiknock index, calculated as (R+M)/2, of 87 containing not more than 0.05 gram of lead per gallon and not more than 0.005 gram of phosphorus per gallon.

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: Includes finished leaded motor gasoline (premium and regular), finished unleaded motor gasoline (premium, midgrade, and regular), motor gasoline blending components, and gasohol.

MTBE (Methyl Tertiary Butyl Ether): An ether, $(CH_3)_3COCH_3$, intended for motor gasoline blending. See **Oxygenates**.

Naphtha: A genetic term applied to a petroleum fraction with an approximate boiling range between 122 and 400° F.

Natural Gas: A mixture of hydrocarbons (principally methane) and small quantities of various nonhydrocarbons existing in the gaseous phase or in solution with crude oil in underground reservoirs.

Natural Gas, Dry: The marketable portion of natural gas production, which is obtained by subtracting extraction losses, including natural gas liquids removed at natural gas processing plants, from total production.

Natural Gas Marketed Production: Gross withdrawals of natural gas from production reservoirs, less gas used for reservoir repressuring; nonhydrocarbon gases removed in treating and processing operations; and quantities vented and flared.

Natural Gas Plant Liquids (NGPL): Natural gas liquids recovered from natural gas in processing plants and, in some situations, from natural gas field facilities, as well as those extracted by fractionators. Natural gas plant liquids are defined according to the published specifications of the Gas Processors Association and the American Society for Testing and Materials 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 Gas, Wet: Natural gas prior to the extraction of liquids and other miscellaneous products.

Net Consumption: See **Energy Consumption, End-Use.**

Nonhydrocarbon Gases: Typical nonhydrocarbon gases that may be present in reservoir natural gas are carbon dioxide, helium, hydrogen sulfide, and nitrogen.

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.

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 (Including Lease Condensate)**.

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 (nuclear): A U.S. nuclear generating unit is considered operable after it completes low-power testing and is issued a full-power operating license by the Nuclear Regulatory Commission. A foreign nuclear generating unit is considered operable once it has generated electricity to the grid.

Organization for Economic Cooperation and Development (OECD): Current members are Australia, Austria, Belgium, Canada, Denmark, Finland, France, Greece, Iceland, Ireland, Italy, Japan, Luxembourg, the Netherlands, New Zealand, Norway, Portugal, Spain, Sweden, Switzerland, Turkey, the United Kingdom, the United States and its territories (Guam, Puerto Rico, and the Virgin Islands), and Germany.

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, Gabon, Indonesia, Iran, Iraq, Kuwait, Libya, Nigeria, Qatar, Saudi Arabia, the United Arab Emirates, and Venezuela.

Oxygenated Motor Gasoline: See **Motor Gasoline, Finished**.

Oxygenates: Any substance which, when added to motor gasoline, increases the amount of oxygen in that motor gasoline blend. Through a series of waivers and interpretive rules, the Environmental Protection Agency (EPA) has determined the allowable limits for oxygenates in unleaded gasoline. The "Substantially Similar" Interpretive Rules (56 FR [February 11, 1991]) allows blends of aliphatic alcohols other than methanol and aliphatic ethers, provided the oxygen content does not exceed 2.7 percent by weight. The "Substantially Similar" Interpretive Rules also provide for blends of methanol up to 0.3 percent by volume exclusive of other oxygenates, and butanol or alcohols of a higher molecular weight up to 2.75 percent by weight. Individual waivers pertaining to the use of oxygenates in unleaded motor gasoline have been issued by the EPA. They include:

- *Fuel Ethanol.* Blends of up to 10 percent by volume anhydrous ethanol (200 proof).
- *Methanol.* Blends of methanol and gasoline-grade tertiary butyl alcohol (GTBA) such that the total oxygen content does not exceed 3.5 percent by weight and the ratio of methanol to GTBA is less than or equal to 1. It is also specified that this blended fuel must meet ASTM volatility specifications.
  Blends of up to 5.0 percent by volume methanol with a minimum of 2.5 percent by volume co-solvent alcohols having carbon number of 4 or less (i.e., ethanol, propanol, butanol, and/or GTBA). The total oxygen must not exceed 3.7 percent by weight, and the blend must meet ASTM volatility specifications as well as phase separation and alcohol purity specifications.
- *MTBE (Methyl tertiary butyl ether).* Blends up to 15.0 percent by volume MTBE that must meet the ASTM D4814 specifications. Blenders must take precautions that the blends are not used as base gasolines for other oxygenated blends.

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: A residue that is the final product of the condensation process in cracking. The product is either marketable petroleum coke or catalyst petroleum coke.

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 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: See **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 and Solar Thermal Energy (as used at electric utilities): Energy radiated by the sun as electromagnetic waves (electromagnetic radiation) that is converted at electric utilities into electricity by means of solar (photovoltaic) cells or concentrating (focusing) collectors.

Pipeline Fuel: Gas consumed in the operation of pipelines, primarily in compressors.

Primary Consumption: See **Energy Consumption, End-Use.**

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.

Refiner Acquisition Cost of Crude Oil: The cost of crude oil to the refiner, including transportation and fees. The composite cost is the weighted average of domestic and imported crude oil costs.

Refinery (petroleum): An installation that manufactures finished petroleum products from crude oil, unfinished oils, natural gas liquids, other hydrocarbons, and alcohol.

Renewable Energy: Energy obtained from sources that are essentially inexhaustible (unlike, for example, the fossil fuels, of which there is a finite supply). Renewable sources of energy include wood, waste, photovoltaic, and solar thermal energy.

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: The residential sector is considered to consist of all private residences, whether occupied or vacant, owned or rented, including single-family homes, multifamily housing units, and mobile homes. Secondary homes, such as summer homes, are also included. Institutional housing, such as school dormitories, hospitals, and military barracks, generally are not included in the residential sector; they are included in the commercial sector.

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, 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.**

Solar Energy: The radiant energy of the sun, which can be converted into other forms of energy, such as heat or electricity.

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-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.

Strategic Petroleum Reserve (SPR): Petroleum stocks maintained by the Federal Government for use during periods of major supply interruption.

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.

Total Consumption: See **Energy Consumption, End-Use.**

Transportation Sector: The transportation sector consists of private and public vehicles that move people and commodities. Included are automobiles, trucks, buses, motorcycles, railroads and railways (including streetcars), aircraft, ships, barges, and natural gas pipelines.

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.

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.

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.

Wellhead Price: The value of crude oil or natural gas at the mouth of the well.

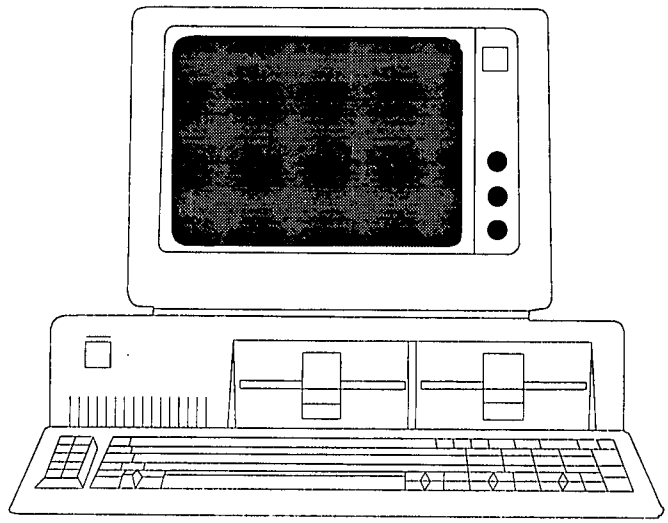
Well Servicing Unit: Truck-mounted equipment generally used for downhole services after a well is drilled. Services include well completions and recompletions, maintenance, repairs, workovers, and well plugging and abandonments. Jobs range from minor operations, such as pulling the rods and rod pumps 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 (as used at electric utilities): The kinetic energy of wind converted at electric utilities into mechanical energy by wind turbines (i.e., blades rotating from a hub) that drive generators to produce electricity for distribution.

Wood and Waste (as used at electric utilities): Wood energy, garbage, bagasse, sewerage gas, and other industrial, agricultural, and urban refuse used to generate electricity for distribution.

Wood Energy: Wood and wood products used as fuel, including round wood (cord wood), limb wood, wood chips, bark, sawdust, forest residues, charcoal, pulp waste, and spent pulping liquor.

Working Gas: The 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.



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The ***Historical Monthly Energy Review**** (DOE/EIA–0035(73–92)) presents monthly data from January 1973 through December 1992 for most of the series that are published for current months only in the *Monthly Energy Review*.

The ***Annual Energy Review**** (DOE/EIA–0384) presents long-term historical annual energy data. Most series begin in 1949. U.S. energy consumption, production, trade, and prices are included. Major sections of the report are energy overview, end-use energy consumption, financial indicators, energy resources, petroleum, natural gas, coal, electricity, nuclear energy, renewable energy, international energy, and environmental indicators.

The ***State Energy Data Report**** (DOE/EIA–0214) presents estimates of annual energy consumption at the State and national levels by major sector (i.e., residential, commercial, industrial, transportation, and electric utilities) and by principal energy type for selected years. The base year is 1960. The report includes documentation of the consumption estimates for each source of energy, the sources of all data, and a summary of changes made to data in the report since its previous release.

The ***State Energy Price and Expenditure Report**** (DOE/EIA–0376) presents annual energy price and expenditure estimates at the State and national levels for selected years. The base year is 1970. The estimates are presented by energy source (e.g., petroleum, natural gas, coal, and electricity) and by major sector (i.e., residential, commercial, industrial, transportation, and electric utilities). The report includes documentation of the price estimates for each type of energy, the sources of all data, and a summary of any changes made to data in the report since its previous release.

The ***International Energy Annual*** (DOE/EIA–0219) presents annual data for production, consumption, imports, and exports of primary energy commodities in more than 190 countries, dependencies, and areas of special sovereignty. Also included are prices of crude oil and petroleum products in selected countries. The data presented are derived largely from national publications, international organizations, and other authoritative sources. The data are converted to units of measurement and thermal values familiar to the American public.

The ***International Petroleum Statistics Report*** (DOE/EIA–0520) presents current monthly international petroleum data on production, consumption, imports, and stocks. Included are oil consumption and stocks for specific countries in the Organization for Economic Cooperation and Development (OECD). Also provided are the oil supply-consumption balances for the world in quarterly intervals and oil imports by OECD countries.

*Data for this report are also available on computer diskettes.

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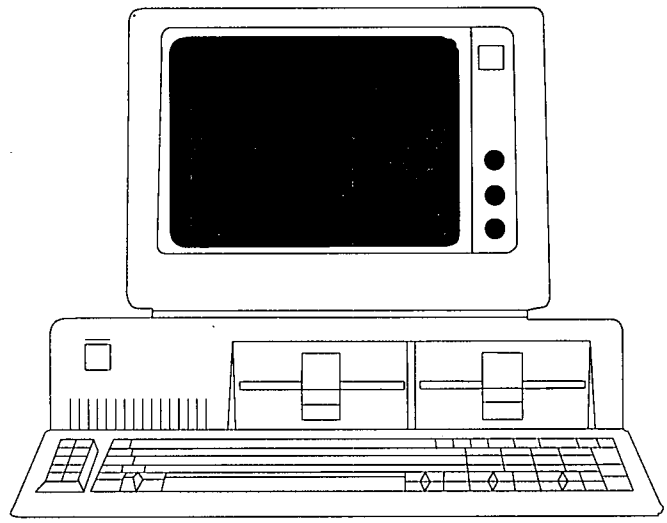

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