DOE/EIA-0035(95/12)

Monthly Energy Review

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December 1995

In this issue:

Alternative Fuel Providers Fleet Surveys

Energy Information Administration

Monthly Energy Review

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

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The Monthly Energy Review (ISSN 0095-7356) is published monthly by the Energy Information Administration, 1000 Independence Avenue, S.W., Washington, DC 20585, and sells for \$87.00 per year (price is subject to change without advance notice). Second-class postage rates are paid at Washington, DC 20066-9998, and at additional mailing offices. POSTMASTER: Send address changes to Monthly Energy Review, Energy Information Administration, EI-231, 1000 Independence Avenue, S.W., Washington, DC 20585.



Monthly Energy Review

December 1995

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Alternative Fuel Providers Fleet Surveys

Preliminary Data

The Energy Policy Act of 1992 (EPACT) called for certain operators of business fleets—the Federal and State governments and providers of alternative fuels—to increase the proportion of alternative fuel vehicles (AFV's) in their fleets. This Energy Preview reports on the preliminary results from three surveys conducted by the Energy Information Administration (EIA) to collect information from fleets operated by propane providers, natural gas suppliers, and electric utilities.

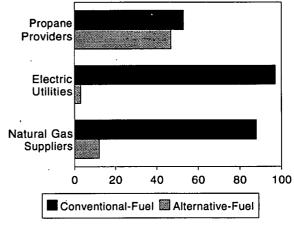
A reason for focusing on alternative fuel providers, it was thought, was that they might be important early users of AFV's. They might derive public relations benefits from using their energy source to power their vehicles. Preliminary survey results supported this assumption: of the 422,128 fleet vehicles operated by these providers, 59,911, or 14 percent, were AFV's. Propane was the most commonly used fuel. By comparison, the percentage of AFV's in the entire U.S. vehicle population was estimated to be less than 1 percent in 1994.*

The most comprehensive information was gathered from propane providers. The top 35 providers, as measured by 1993 sales volume, were asked for detailed information about fleet size, composition, operating characteristics, AFV technology, and fuel purchasing and consumption. Another 100 smaller providers were sampled by use of a stratified sampling design in which the population was separated into four strata corresponding to the four Census regions. This group was asked to provide less extensive information about their fleets. Electric utilities and natural gas suppliers were surveyed by means of supplements to existing EIA surveys (Forms EIA-861 and EIA-176, respectively). Only companies that operated fleets of at least 10 vehicles were required to supply information about their fleets.

The rate of penetration of AFV's varied widely among the providers of different alternative fuels (Figure 1) as did the type of alternative fuel used (Figure 2). For example, electric utilities did not use electric-powered vehicles to any great extent; instead, most of their AFV's were powered by natural gas. Two possible reasons for this anomaly are that many electric utilities might choose to operate more economical natural gas vehicles until electric vehicle technology improves, and that the sample includes combined utilities that distribute both electricity and

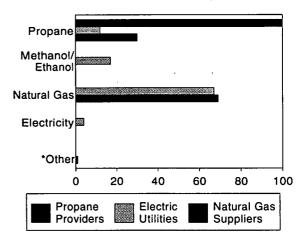
natural gas. Propane providers appeared to have the greatest commitment to increasing their AFV fleets, with more than half of their new vehicles planned for service in 1994 being AFV's (Figure 3).

Figure 1. Fraction of Alternative Fuel Vehicles in Alternative Fuel Provider Fleets, 1993 (Percent)



Source: Energy Information Administration, Form EIA-885, "Propane Provider Survey"; Form EIA-861, Schedule VII, "Annual Electric Utility Report"; Form EIA-176, Schedule B, "Fleet Vehicle Survey."

Figure 2. Distribution of Alternative Fuel Vehicles in Alternative Fuel Provider Fleets by Fuel, 1993 (Percent)

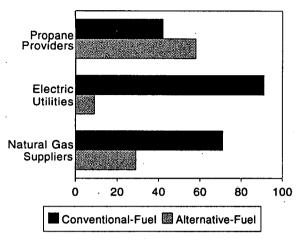


*Includes liquefied natural gas, hydrogen, solar, and biomass.

Source: Energy Information Administration, Form EIA-885, "Propane Provider Survey"; Form EIA-861, Schedule VII, "Annual Electric Utility Report"; Form EIA-176, Schedule B, "Fleet Vehicle Survey."

^{*}Energy Information Administration, Alternatives to Traditional Transportation Fuels, DOE/EIA-0585/O (Washington, D.C., June 1994).

Figure 3. Distribution of New Vehicles Planned for Service in Alternative Fuels
Provider Fleets, 1993 (Percent)

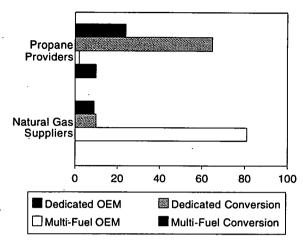


Source: Energy Information Administration, Form EIA-885, "Propane Provider Survey"; Form EIA-861, Schedule VII, "Annual Electric Utility Report"; Form EIA-176, Schedule B, "Fleet Vehicle Survey."

The vehicle characteristics examined included whether a vehicle was a dedicated AFV, that is, if it used only an alternative fuel or if it was multi-fuel, capable of operating on more than one fuel; whether the vehicle was obtained from an original equipment manufacturer (OEM) of AFV's or was converted from conventional-fuel technology (asked of propane providers and natural gas suppliers). The majority of multi-fuel vehicles were conversions in both providers' fleets. Among propane providers, dedicated vehicles were overwhelmingly conversions, but among natural gas suppliers, dedicated vehicles were evenly split between OEM vehicles and conversions (Figure 4).

Propane survey respondents reported their AFV's to be cheaper to acquire and to operate, on average; than conventional-fuel vehicles. Costs varied among vehicle types. For example, the average propane-fueled dedicated medium-weight truck cost about \$5,000 more to acquire than a gasoline or diesel-fueled truck; but a heavy-duty gasoline or diesel-fueled truck cost \$22,880 more to acquire than a dedicated propane truck in the same weight category. A possible explanation for this wide variation might be that the largest and most costly trucks are conventional-fuel vehicles, and their high acquisition costs skew the results. The costs to convert conventional-fuel vehicles to alterna-

Figure 4. Alternative Fuel Providers' AFV's by
Type of Fuel Technology and Vehicle
Source, 1993 (Percent)



Source: Energy Information Administration, Form EIA-885, "Propane Provider Survey," and Form EIA-176, "Fleet Vehicle Survey."

tive fuel vehicles were reported to be stable over various vehicle types, ranging from around \$1,200 to just under \$1,800 per car. One benefit of AFV's promoted by the industry is that they are more economical to maintain because the engines tend to have fewer moving parts, and they use cleaner-burning fuels. The data from the Propane Providers Survey seem to confirm this observation. Annual maintenance costs for AVF's were 4 percent to 6 percent lower than costs for conventional-fuel vehicles.

The full report, EPACT Data Acquisition Program: The Vehicle Stock and New Survey Findings, is scheduled for release in February 1996. In addition to the surveys of alternative fuel provider fleets, the report examines data available on the entire stock of vehicles in the United States. The report also includes the results of a survey on consumer preferences about automobiles and on the willingness of consumers to accept the limitations of AFV's, given their benefits. According to the report, many consumers appeared to be willing to accept these limitations in order to reduce vehicle emissions. More than one-half were willing to refuel a vehicle twice as often as usual to reduce vehicle emissions, and about one-third were willing to reduce their current trunk or cargo space by onehalf in order to reduce vehicle emissions.

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Section 1. Energy Overview

Energy production during September 1995 totaled 5.5 quadrillion Btu, a 0.3-percent decrease from the level of production during September 1994. Crude oil and natural gas plant liquids decreased 3.1 percent, coal production decreased 0.9 percent, and production of natural gas increased 0.9 percent. All other forms of energy production combined were up 4.1 percent from the level of production during September 1994.

Energy consumption during September 1995 totaled 6.8 quadrillion Btu, 2.9 percent above the level of consumption during September 1994. Consumption of coal was up 3.6 percent, petroleum products consumption rose 3.0 percent,

and consumption of natural gas increased 2.1 percent. Consumption of all other forms of energy combined increased 2.8 percent from the level 1 year earlier.

Net imports of energy during September 1995 totaled 1.6 quadrillion Btu, 0.3 percent below the level of net imports 1 year earlier. Net imports of natural gas were up 3.1 percent, and net imports of petroleum increased 1.5 percent. Net exports of coal rose 15.2 percent from the level in September 1994.

Table 1.1 Energy Summary for September 1995 (Quadrillion Btu)

		September		Cumulative January Through September					
	1995	1994	Percent Change ^a	1995	1995 Daily Rate	1994	1994 Daily Rate	Percent Change ^a	
Production ^b	5.541	5.555	-0.3	50.889	0.186	50.458	0.185	0.9	
Coal	1.878	1.895	9	16.490	.060	16.505	.060	1	
Natural Gas (Dry)	1.551	1.538	.9	14.432	.053	14.500	.053	5	
Crude Oil ^c and Natural Gas Plant Liquids	1.312	1.354	-3.1	12.184	.045	12.303	.045	-1.0	
Other ^d	.800	.768	4.1	7.784	.029	7.151	.026	8.9	
Consumption ^b	6.797	6.605	2.9	65.162	.239	64.243	.235	1.4	
Coal	1.640	1.584	3.6	14.829	.054	14.845	.054	1	
Natural Gas ^e	1.421	1.392	2.1	16.410	.060	15.928	.058	3.0	
Petroleum Productsf	2.902	2.818	3.0	25.814	.095	25.945	.095	5	
Other9	.834	.811	2.8	8.108	.030	7.525	.028	7.7	
Net Imports	1.621	1.627	3	13.469	.049	14.077	.052	-4.3	
Coal ^h	196	170	15.2	-1.566	006	-1.240	005	26.3	
Natural Gas	.207	.200	3.1	1.946	.007	1.860	.007	4.6	
Petroleum ⁱ	1.576	1.553	1.5	12.765	.047	13.082	.048	-2.4	
Otheri	.034	.043	-20.3	.324	.001	.374	.001	-13.4	

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.

Includes supplemental gaseous fuels.

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

⁹ "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.

¹ Crude oil, lease condensate, petroleum products, pentanes plus, unfinished oils, gasoline blending components, and imports of crude oil for the Strategic Petroleum Reserve.

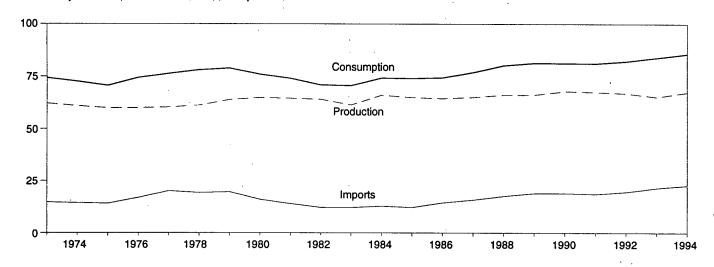
i "Other" is net imports of electricity and coal coke.

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

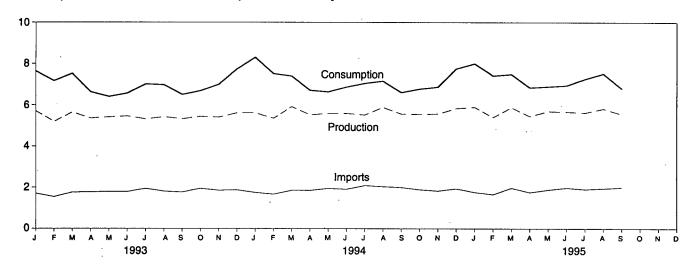
Sources: Tables 1.3, 1.4, and 1.5.

Figure 1.1 Energy Overview

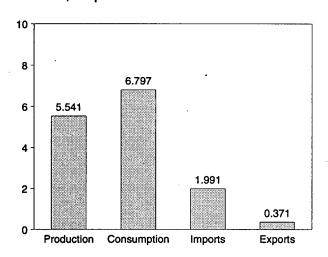
Consumption, Production, and Imports, 1973-1994



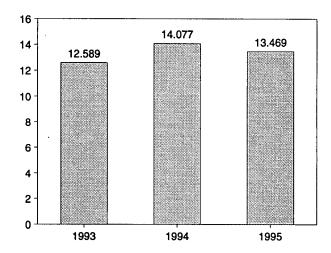
Consumption, Production, and Imports, Monthly



Overview, September 1995



Net Imports, January-September



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

Table 1.2 Energy Overview

	Production ^a	Consumption ^{a,b}	Imports	Exports	Net Imports	
	CO 000	74.282	14.731	2.051	12.680	
'3 Total	62.060			2.223	12.190	
4 Total	60.835	72.543	14.413	2.359	11.752	
'5 Total	59.860	70.546	14.111			
6 Total	59.892	74.362	16.837	2.188	14.648	
7 Total	60.219	76.288	20.090	2.071	18.019	
8 Total	61.103	78.089	19.254	1.931	17.323	
9 Total	63.801	78.898	19.616	2.870	16.746	
0 Total	64.761	75.955	15.971	3.723	12.247	
1 Total	64.421	73.990	13.975	4.329	9.646	
2 Total	63.962	70.848	12.092	4.633	7.460	
3 Total	61.279	70.524	12.027	3.717	8.310	
	65.962	74.144	12.767	3.804	8.963	
34 Total		73.981	12,103	4.231	7.872	
5 Total	64.871		14.438	4.055	10.382	
36 Total	64.350	74.297			11.911	
77 Total	64.952	76.894	15.764	3.853		
38 Total	66.105	80.218	17.564	4,415	13.149	
39 Total	66.129	81.325	18.947	4.765	14.181	
00 Total	67.853	81.265	18.987	4.910	14.077	
1 Total	67.484	81.116	18.577	5.220	13.357	
22 Total	66.853	82.144	19.650	5.017	14.633	
03 January	R 5.703	R 7.639	1.707	.399	1.308	
February	^R 5.180	^R 7.174	1.545	.364	1.181	
March	^R 5.645	^R 7.525	1.762	.347	1.414	
	R 5.342	R 6.635	1.775	.345	. 1.430	
April	R 5.404	R 6.405	1.791	.382	1.408	
May	R 5.450	R 6.568	1.786	.411	1.375	
June				.376	1.560	
July	^R 5.301	^R 7.014	1.936	.320	1,486	
August	^R 5.406	R 6.980	1.807			
September	^R 5.308	R 6.502	1.765	.339	1.426	
October	^R 5.428	^R 6.686	1.941	.347	1.595	
November	^R 5.391	^R 6.998	1.849	.324	1.524	
December	^R 5.607	7.737	1.867	.395	1.472	
Total	R 65.163	^R 83.862	21.530	4.350	17.180	
94 January	^R 5.606	^R 8.306	^R 1.748	.307	R 1.441	
February	^R 5.335	^R 7.512	^R 1.666	.275	^R 1.391	
March	^R 5.910	R 7.400	^R 1.848	.349	1.498	
	R 5.512	R 6.709	1.845	.296	1,549	
April	R 5.581	R 6.636	1.943	.326	1.617	
May		^R 6.869	R 1.906	.374	1.532	
June	^H 5.579			.374 .329	R 1.751	
July	R 5.505	R 7.050	2.079		R 1.672	
August	^R 5.875	^R 7.155	R 2.032	.360	1.0/2 R4.00=	
September	^R 5.555	^h 6.605	^R 1.993	.366	R 1.627	
October	^R 5.537	^R 6.772	^R 1.885	.363	R 1.522	
November	^R 5.557	^R 6.872	^R 1.823	.362	R 1.461	
December	^R 5.825	^R 7.754	^R 1.931	.418	R 1.513	
Total	R 67.378	R 85.641	R 22.697	R 4.125	^R 18.573	
95 January	^R 5.885	R 8.004	1.760	.362	^R 1.398	
February	^R 5.387	^R 7.416	1.656	.348	R 1.309	
	R 5.869	R 7.486	1.964	.382	1.582	
March	R 5.441	6.844	R 1.757	.384	R 1.373	
April	0.441 B = 004	R 6.891	R 1.877	.393	1.484	
May	R 5.684	8.040			1.577	
June	^R 5.658	R 6.946	· 1.974	.397		
July	^R 5.616	^R 7.261	1.901	.355	1.546	
August	^R 5.807	^R 7.516	^R 1.945	.366	R 1.579	
September	5.541	6.797	1.991	.371	1.621	
9-Month Total	50.889	65.162	16.826	3.357	13.469	
94 9-Month Total	50.458	64.243	17.059	2.982	14.077	

^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.

Forces in Europe; and adjustments to account for discrepancies between reporting systems.

R=Revised data.

energy used by other sectors is not included.

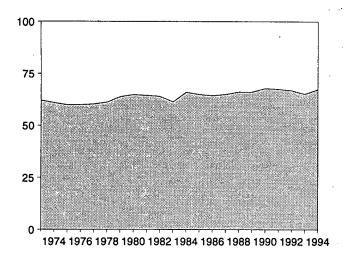
b The sum of domestic energy production and net imports of energy does not equal domestic energy consumption. The difference is attributed to stock changes; losses and gains in conversion, transportation, and distribution; the addition of blending compounds; shipments of anthracite to U.S. Armed

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.

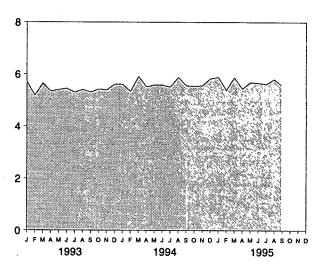
Sources: • Production: Table 1.3. • Consumption: Table 1.4. • Imports and Exports: Tables 3.1b, 4.2, 6.1, A2-A8, and Section 2, "Energy Consumption Notes and Sources," Notes 8 and 9. • Net Imports: Table 1.5.

Figure 1.2 Energy Production

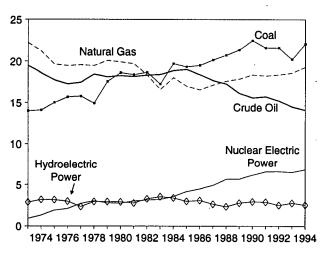
Total, 1973-1994



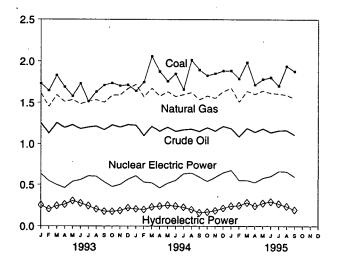
Total, Monthly



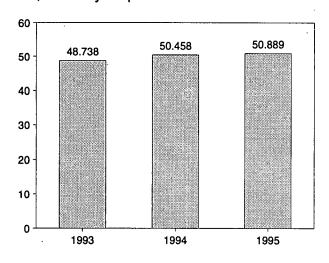
By Major Sources, 1973-1994



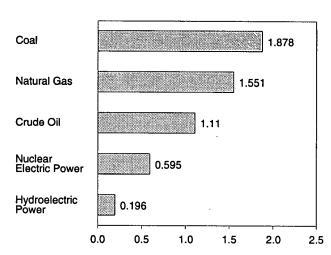
By Major Sources, Monthly



Total, January-September



By Major Sources, September 1995



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

Table 1.3 Energy Production by Source

	Coal	Natural Gas (Dry)	Crude Oil ^a	Natural Gas Plant Liquids	Nuclear Electric Power	Hydro- electric Power ^b	Geothermal Energy	Otherc	Total
								0.000	00.00
73 Total	13.993	22.187	19.493	2.569	0.910	2.861	0.043	0.003	62.06
74 Total	14.074	21.210	18.575	2.471	1.272	3.177	.053	.003	60.83
75 Total	14.990	19.640	17.729	2.374	1.900	3.155	.070	.002	59.86
76 Total	15.654	19.480	17.262	2.327	2.111	2.976	.078	.003	59.89
	15.755	19.565	17.454	2.327	2.702	2.333	.077	.005	60.21
77 Total		19.485	18.434	2.245	3.024	2.937	.064	.003	61.10
78 Total	14.910			2.286	2.776	2.931	.084	.005	63.80
'9 Total	17.539	20.076	18.104					.005	64.76
30 Total	18.597	19.908	18.249	2.254	2.739	2.900	.110		
31 Total	18.376	19.699	18.146	2.307	3.008	2.758	.123	.004	64.42
32 Total	18.639	18.319	18.309	2.191	3.131	3.266	.105	.003	63.96
33 Total	17.246	16.593	18.392	2.184	3.203	3.527	.129	.004	61.27
34 Total	19.719	18.008	18.848	2.274	3.553	3.386	.165	.009	65.96
		16.980	18.992	2.241	4.149	2.970	.198	.015	64.87
35 Total	19.325			2.149	4.471	3.071	.219	.012	64.35
36 Total	19.510	16.541	18.376			2.635	.229	.016	64.95
37 Total	20.142	17.136	17.675	2.215	4.906				
38 Total	20.737	17.599	17.279	2.260	5.661	2.334	.217	.017	66.10
39 Total	21.345	17.847	16.117	2.158	5.677	2.767	.197	.020	66.12
90 Total	22.456	18.362	15.571	2.175	6.161	2.926	.181	.021	67.8
91 Total	21.594	18.229	15.701	2.306	6.579	2.885	.170	.021	67.4
92 Total	21.593	18.375	15.223	2.363	6.607	2.501	.170	.022	66.8
93 January	1.732	R 1.613	1.252	.205	.631	.254	.014	.002	R 5.70
	1.645	R 1.450	1.127	.189	.548	.205	.013	.002	R 5.18
February		R 1.592	1.254	.211	.498	.245	.014	.002	R 5.6
March	1.829					.262	.014	.002	R 5.3
April	1.691	R 1.510	1.197	.205	.461				R 5.40
May	1.577	^R 1.535	1.231	.204	.538	.305	.012	.001	
June	1.731	^R 1.483	1.182	.200	.562	.277	.012	.001	R 5.4
July	1.514	^R 1.515	1.203	.205	.604	.245	.013	.001	R 5.3
August	1.631	^R 1.534	1.215	.206	.600	.205	.014	.002	R 5.4
	1.712	R 1.503	1.168	.198	.534	.178	.013	.002	^R 5.3
September		R 1.587	1.230	.208	.475	.176	.013	.002	R 5.4
October	1.738	" 1.567 B 4.504			.501	.186	.013	.002	R 5.3
November	1.705	R 1.591	1.203	.190				.002	R 5.6
December	1.715	_ ^R 1.671	1.233	.186	.567	.220	.013		
Total	20.221	^R 18.584	14.494	2.408	6.519	2.757	.158	.021	R 65.1
94 January	1.642	^R 1.720	1.226	.190	.607	.207	.013	.002	^R 5.6
February	1.749	^R 1.568	1.100	.174	.532	.199	.012	.002	^R 5.3
March	2.058	^R 1.675	1.213	.196	.523	.231	.012	.002	^R 5.9
	1.877	R 1.577	1,151	.191	.461	.242	.012	.002	^R 5.5
April	1.761	R 1.631	1.203	.201	.518	.254	.012	.002	^R 5.5
May					.553	.243	.011	.002	R 5.5
June	1.849	H 1.574	1.150	.197			.012	.002	R 5.5
July	1.660	R 1.596	1.169	.206	.632	.228			R 5.8
August	2.014	R 1.621	1.177	.207	.642	.199	.013	.002	5.8
September	1.895	^R 1.538	1.150	.204	.594	.161	.012	.002	R 5.5
October	1.827	^R 1.581	1.197	.206	.542	.170	.012	.002	R 5.5
November	1.853	^R 1.555	1.153	.207	.590	.186	.012	.002	R 5.5
	1.884	R 1.635	1.215	.213	.646	.217	.012	.002	R 5.8
Total	R 22.068	R 19.272	14.103	2.391	6.841	2.538	.145	.020	R 67.3
		R 1.676	1 186	.209	.677	.243	.009	.001	R 5.8
95 January	1.886	R 1.509	1.186	.188	.554	.249	.006	.001	R 5.3
February	1.791	1.509 B 4 666	1.089					.001	^A 5.8
March	1.987	R 1.639	1.188	.209	.554	.285	.007		R 5.4
April	1.716	R 1.601	1.142	.204	.527	.244	.006	.002	∵ 5.4 R = 4
May	1.785	^R 1.644	1.182	.210	.581	.277	.005	.001	R 5.6
June	1.805	^R 1.613	1.138	.198	.602	.295	.006	.001	^R 5.6
July	1.703	^R 1.607	1.160	.206	.663	.270	.006	.002	^R 5.6
	R 1.939	R 1.592	1.162	.203	.659	.239	.011	.002	R 5.8
August						.196	.008	.002	5.5
September 9-Month Total	1.878 16.490	1.551 14.432	1.110 10.355	.202 1.828	.595 5.411	2.297	.064	.012	50.8
94 9-Month Total 93 9-Month Total	16.505	14.500 13.736	10.537 10.829	1.766 1.823	5.063 4.977	1.964 2.176	.109 .119	.015 .015	50.4 48.7

a Includes lease condensate.

R=Řevised 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.

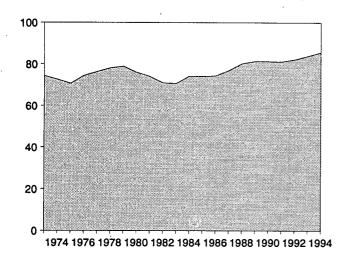
Electric utility and industrial generation.

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

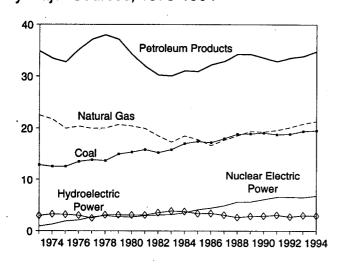
Due to a lack of consistent historical data, some renewable energy sources are not included. For example, in 1992, 3.0 quadrillion Btu of renewable energy consumed by U.S. electric utilities to generate electricity for distribution is included, but an estimated 3.0 quadrillion Btu of renewable energy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

Figure 1.3 Energy Consumption

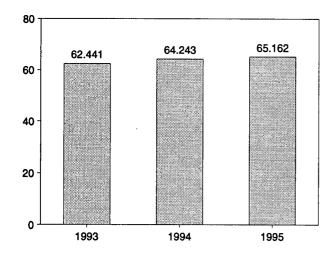
Total, 1973-1994



By Major Sources, 1973-1994

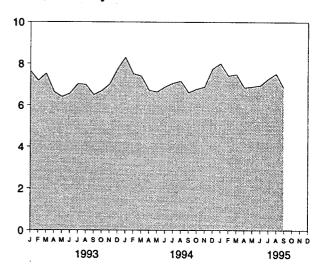


Total, January-September

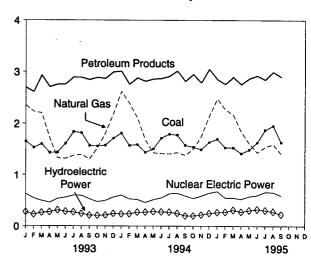


Note: Because vertical scales differ, graphs should not be compared. Source: Table 1.4.

Total, Monthly



By Major Sources, Monthly



By Major Sources, September 1995

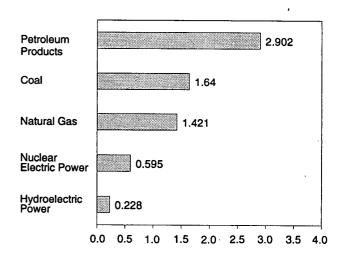


Table 1.4 Energy Consumption by Source

1		Matrical	Petroleum	Nuclear Electric	Hydro- electric	Geothermal	·	
Į	Coal	Naturai Gas ^a	Productsb	Power	Powerc	Energy	Otherd	Totale
73 Total	12.971	22.512	34.840	0.910	3.010	0.043	-0.004	74.282
74 Total	12.663	21.732	33.455	1.272	3.309	.053	.059	72.543
975 Total	12.663	19.948	32.731	1.900	3.219	.070	.016	70.546
976 Total	13.584	20.345	35.175	2.111	3.066	.078	.003	74.362
777 Total	13.922	19.931	37.122	2.702	2.515	.077	.020	76.288
	13.765	20.000	37.965	3.024	3.141	.064	.128	78.089
978 Total	15.039	20.666	37.123	2.776	3.141	.084	.068	78.898
979 Total	15.423	20.394	34,202	2.739	3.118	.110	031	75.955
980 Total		19.928	31.931	3.008	3.105	.123	012	73.990
981 Total	15.907		30.231	3.131	3.572	.105	018	70.848
982 Total	15.322	18.505	30.054	3.203	3.899	.129	012	70.524
983 Total	15.894	17.357	31.051	3.553	3.800	.165	002	74.144
984 Total	17.071	18.507	•			.198	.001	73.981
985 Total	17.478	17.834	30.922	4.149	3.398		004	74.297
986 Total	17.261	16.708	32.196	4.471	3.446	.219	.024	76.894
987 Total	18.008	17.744	32.865	4.906	3.117	.229		
988 Total	18.846	18.552	34.222	5.661	2.662	.217	.057	80.218
989 Total	18.925	19.384	34.211	5.677	2.881	.197	.051	81.325
990 Total	19.101	19.296	33.553	6.161	2.946	.181	.026	81.265
991 Total	18.770	19,606	32.845	6.579	3.115	.170	.030	81.116
992 Total	18.868	20.131	33.527	6.607	2.793	.170	.049	82.144
	4.000	R 2.353	2.697	,631	.278	.014	.006	^R 7.639
993 January	1.660			.548	.229	.013	.001	R 7.174
February	1.540	R 2.232	2.611		.266	.014	.005	R 7.525
March	1.609	R 2.203	2.931	.498			.003	R 6.635
April	1.442	^R 1.729	2.708	.461	.278	.014		R 6.405
May	1.448	^R 1.337	2.753	.538	.314	.012	.004	R 6.568
June	1.618	R 1.327	2.759	.562	.287	.012	.004	R 7.014
July	1.840	R 1.386	2.894	.604	.275	.013	.001	
. August	1.823	^R 1.404	2.890	.600	.245	.014	.004	R 6.980
September	1.580	^R 1.314	2.848	.534	.212	.013	.001	R 6.502
October	1.566	^R 1.533	2.889	.475	.208	.013	.003	R 6.686
November	1.584	^R 1.817	2.869	.501	.213	.013	.002	^R 6.998
December	1,720	R 2.191	2.994	.567	.247	.013	.004	7.737
Total	19.430	R 20.826	33.841	6.519	3.050	.158	.038	R 83.862
	4.046	R 2.618	3.009	.607	.237	.013	.006	R 8.306
994 January	1.816			.532	.240	.012	.001	R 7.512
February	R 1.580	R 2.390	2.758			.012	.003	R 7.400
March	1.596	R 2.109	2.883	.523	.274		.004	R 6.709
April	1.450	^R 1.688	2.818	.461	.275	.012		R 6.636
May	1.515	^R 1.441	2.861	.518	.286	.012	.003	
June	1.724	^R 1.425	2.871	.553	.281	.011	.004	R 6.869
July	^R 1.799	^R 1.419	2.911	.632	.275	.012	.002	R 7.050
August	^R 1.781	R 1.447	3.016	.642	.252	.013	.003	R 7.155
September	1.584	R 1.392	2.818	.594	.201	.012	.004	R 6.605
October	1.551	R 1.509	2.950	.542	.202	.012	.007	R 6.772
November	R 1.503	R 1.754	2.790	.590	.221	.012	.001	^R 6.872
December	1.645	R 2.144	3.050	.646	.252	.012	.004	^R 7.754
Total	R 19.544	R 21.335	34.735	6.841	2.997	.145	.044	^R 85.641
		B			070	.009	.005	^R 8.004
995 January	1.706	R 2.479	2.858	.677	.270			R 7.416
February	1.542	^H 2.275	2.760	.554	.276	.006	.003	R 7.416
March	1.539	^R 2.168	2.898	.554	.316	.007	.004	
April	1.428	1.846	2.756	.527	.279	.006	.003	6.844
May	1.501	^R 1.619	2.871	.581	.309	.005	.006	R 6.891
June	1.638	^R 1.445	2.924	.602	.329	.006	.002	^R 6.946
July	R 1.878	^R 1.553	2.849	.663	.309	.006	.003	^R 7.261
August	R 1.959	1.604	2.996	.659	.285	.011	.003	^R 7.516
September	1.640	1.421	2.902	.595	.228	.008	.004	6.797
9-Month Total	14.829	16.410	25.814	5.411	2.601	.064	.032	65.162
J	14.845					.109	.032	64.243
		15.928	25.945	5.063	2.321			67.743

a Includes supplemental gaseous fuels.

energy used by other sectors is not included.

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.

⁹ 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

R=Revised data.

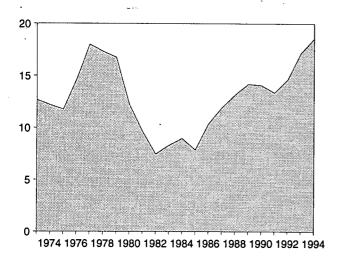
Notes: • See Note 2 at end of section. • Totals may not equal sum of components due to independent rounding. • Geographic coverage is the 50 States and the District of Columbia.

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.

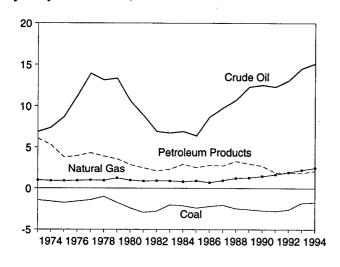
Figure 1.4 Energy Net Imports

(Quadrillion Btu, Except as Noted)

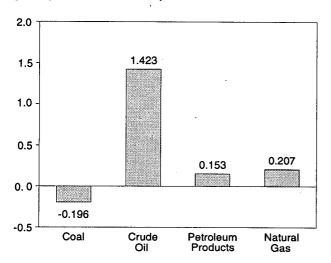
Total, 1973-1994



By Major Sources, 1973-1994

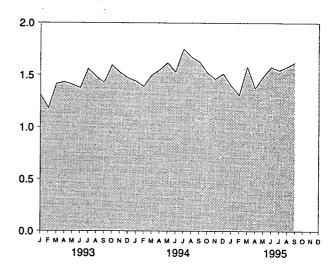


By Major Sources, September 1995

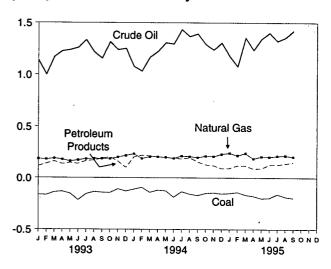


Note: Because vertical scales differ, graphs should not be compared. Sources: Tables 1.4 and 1.5.

Total, Monthly



By Major Sources, Monthly



As Share of Consumption, January-September

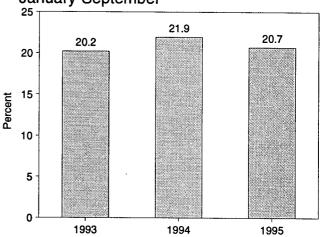


Table 1.5 Energy Net Imports by Source

973 Total		Coal	Natural Gas	. Crude Oil ^a	Petroleum Products ^b	Electricity ^c	Coal Coke	Total
13 Total					6.007	0 140	-0 007	12.680
14 Totals	73 Total							12.190
15 Total	74 Total							
18 Total	75 Total	-1.738						
77 Total		-1.567	.922					
178 Total		-1.401	.981	13.921	4.321			
179 Total		-1.004	.941	13.125	3.932	.204		
80 Total			1,243	13.328	3.603	.211		16.746
88 Total					2.912	.217	035	12.247
27.68					2.522	.347	016	9.640
						.306	022	7.460
83 Total								8.310
84 Total								8.963
88 Total 2.189	84 Total							7.87
188 Total	85 Total	-2.389						
187 Total	86 Total	-2.193	.686					
188 Total 2.446 1.221 10.698 3.308 3.328 .040 13.1		-2.049	.937	9.748	2.784			
1887 Total -2.5566			1.221	10.698	3.308			13.149
1987 Total -2,705				12.296	3.029	.113		14.18
1,000 1,00					2.757	.020	.005	14.077
1018 2,789 1,891 13,065 1,895 292 0,27 14,699 144 14,065 1,895 2,92 0,27 14,699							.009	13.35
993 January								14.63
1893 January	192 I otal	-2.58/	1.941	13.003	1.000			
February - 166	002 January	- 163	.187	1.138	.118	.023	.004	1.30
Pertuary						.023	(s)	1.18
March	-							1.41
April								1.430
May 1.152 1.103 1.280 140 0.10 0.03 1.2 June -2.144 1.75 1.280 1.40 0.10 0.03 1.2 July -1.57 1.86 1.334 1.68 0.30 (s) 1.1 August -1.355 1.90 1.216 1.73 0.04 0.02 1.2 September -1.42 1.88 1.157 1.91 0.034 0.01 1.2 Cotober -1.44 1.87 1.314 2.04 0.92 0.01 1.1 Obcember -1.09 2.04 1.238 163 0.027 (s) 1.1 Obcember -1.19 2.19 1.251 1.002 0.032 0.002 1.1 Obecamber -1.19 2.19 1.251 1.077 2.05 0.30 0.04 R1 February -0.93 1.90 1.033 2.21 0.04 0.02 1.1 February <td>April</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>1.40</td>	April							1.40
Jule	May							1.37
July 1.137 1.80 1.216 1.773 0.40 0.002 1.4 August -1.355 1.90 1.216 1.773 0.40 0.002 1.4 September -1.42 1.88 1.1.57 1.91 0.94 0.001 1.4 October -1.144 1.87 1.314 0.204 0.32 0.01 1.3 November -1.08 2.04 1.238 1.63 0.27 (s) 1.4 November -1.129 2.19 1.251 1.02 0.28 0.02 1.4 December -1.1780 2.255 14.542 1.854 2.92 0.017 17. July -1.1780 2.255 14.542 1.854 2.92 0.017 17. July -1.111 2.08 1.168 2.18 0.44 0.02 1.4 April -1.20 2.07 1.221 2.05 0.30 0.04 8.1 April -1.20 2.07 1.221 2.05 0.33 0.03 1.4 April -1.867 1.92 1.295 1.92 0.37 0.33 1.4 July -1.34 2.15 1.434 1.88 0.47 (s) 4.1 August -1.57 8.210 1.368 1.97 0.53 0.02 8.1 August -1.57 8.210 1.368 1.97 0.53 0.02 8.1 November -1.145 2.21 1.238 1.22 0.35 0.01 8.1 December -1.145 2.21 1.238 1.22 0.35 0.01 8.1 November -1.145 2.21 1.238 1.22 0.35 0.01 8.1 December -1.168 8.233 1.306 0.91 0.35 0.02 8.1 Total -1.689 8.2.518 15.133 2.128 4.59 0.04 6.03 April -1.77 8.189 1.236 0.09 6.035 0.00 8.1 April -1.777 8.189 1.236 0.09 6.035 0.00 8.1 April -1.786 8.219 1.357 1.40 6.046 0.01 8.1 April -1.796 2.07 1.243 1.596 1.069 6.036 0.00 1.1 April -1.796 1.240 1.366 1.069 6.000 0.000 1.1 April -1.796 1.240 1.366 1.069 6.000 0.000 1.1 April -1.796 1.240 1.	June	214						
August -135 190 1.216 1.773 0.60 0.002 1.75 September -142 188 1.157 1.91 0.034 0.001 1.25 September -144 187 1.314 2.04 0.032 0.01 1.25 November -1.08 2.04 1.238 1.63 0.27 (s) 1.25 November -1.29 2.19 1.251 1.02 0.28 0.02 1.27 Total -1.780 2.255 14.542 1.854 2.22 0.07 17.77 994 January -111	July	157	.186	1.334				
September .142	•	135	.190	1.216	.173			1.48
October -144 187 1.314 204 .032 .001 1.3 November -108 2.04 1.238 163 .027 (s) 1.1 December -129 .219 1.251 .102 .028 .002 1.7 Total -1.780 2.255 14.542 1.854 2.92 .017 17. 994 January -111 8.235 1.077 .205 .030 .004 R1. February 093 .190 1.033 .221 .041 .001 R1. March 141 .208 1.168 .218 .044 .002 1. April 120 .207 1.221 .205 .033 .003 1. May 126 .202 1.307 .201 .032 .002 1. June 187 .192 1.295 .192 .037 .003 1. June 187 .		- 142	.188	1.157	.191	.034	001	1.42
November -108 -204 1.238 163 .027 (s) 1.5	· .			1.314	.204	.032	.001	1.59
November 1.129 2.19 1.251 1.102 .028 .002 1.7					.163	.027	(s)	1.52
December 1.780 2.255 14.542 1.854 .292 .017 .17.								1.47
## Page 1								17.18
September -150	lotal	-1.700	2.233	14.042				_
February - 093 190 1.033 221 .041 -001 1.001 March - 141 .208 1.168 .218 .044 .002 1.20 April - 120 .207 1.221 .205 .033 .003 1.20 May - 126 .202 1.307 .201 .032 .002 1.34 June - 187 .192 1.295 .192 .037 .003 1.31 July - 134 .215 1.434 .188 .047 (s) .81 July - 134 .215 1.434 .188 .047 (s) .81 July - 134 .215 1.434 .188 .047 (s) .81 July - 150 8.210 1.368 .197 .053 .002 .81 September - 170 .200 1.394 .159 .040 .003 .81 October - 150 8.2	004 January	111	^R .235	1.077	.205	.030		R 1.44
March141			.190	1.033	.221	.041	001	^R 1.39
April	.				.218	.044	.002	1.49
May						.033	.003	1.54
May -1.187 .192 1.295 .192 .037 .003 1. July -1.134 .215 1.434 .188 .047 (s) R.1. August -1.57 R.210 1.368 .197 .053 .002 R.1. September -1.70 .200 1.394 .159 .040 .003 R.1. September -1.150 R.214 1.292 .130 .032 .005 R.1. November -1.455 .211 1.238 .122 .035 .001 R.1. December -1.164 R.233 1.306 .091 .035 .002 R.1. Total							.002	1.61
June								1.53
July -1.57 R.210 1.368 1.197 .053 .002 R.1 August -1.57 R.210 1.368 1.197 .053 .002 R.1 September -1.70 .200 1.394 .159 .040 .003 R.1 October -1.50 R.214 1.292 .130 .032 .005 R.1 November -1.45 .211 1.238 .122 .035 .001 R.1 December -1.54 R.233 1.306 .091 .035 .002 R.1 Total -1.689 R.2518 15.133 2.128 .459 .024 R.18 995 January 150 R.243 1.179 .094 E.028 .004 R.1 February 140 .219 1.078 .122 E.027 .002 R.1 March 166 R.241 1.355 .119 E.031 .003 1. April	June							R 1.75
August -157 H. 210 1.368 .197 .053 .002 R. 1 September -170 .200 1.394 .159 .040 .003 R. 1 October -150 R. 214 1.292 .130 .032 .005 R. 1 November -145 .211 1.238 .122 .035 .001 R. 1 December -154 R. 233 1.306 .091 .035 .002 R. 1 Total -1.689 R. 2518 15.133 2.128 .459 .024 R. 18 995 January -150 R. 243 1.179 .094 E. 028 .004 R. 18 995 January -150 R. 243 1.179 .094 E. 028 .004 R. 18 995 January -150 R. 243 1.179 .094 E. 028 .004 R. 18 995 January -150 R. 243 1.179 .094 E. 028 .004 R. 18	July	-,134						R 1.73
September 170 200 1.394 .159 .040 .003 n.1 October 150 R.214 1.292 130 .032 .005 R.1 November 145 211 1.238 .122 .035 001 R.1 December 154 R.233 1.306 .091 .035 .002 R.1 Total -1.689 R.2518 15.133 2.128 .459 .024 R.18 995 January 150 R.243 1.179 .094 E.028 .004 R.18 995 January 140 .219 1.078 .122 E.027 .002 R.1 February 140 .219 1.078 .122 E.027 .002 R.1 March 166 R.241 1.355 .119 E.031 .003 1. April 177 R.189 1.236 .089 E.035 .001 R.1 May		157	^H .210					
October -150 R 214 1.292 130 .032 .005 N1. November -145 .211 1.238 .122 .035 .001 R1. December -154 R 233 1.306 .091 .035 .002 R1. Total -1.689 R 2518 15.133 2.128 .459 .024 R 18. 995 January 150 R .243 1.179 .094 E .028 .004 R 18. February 140 .219 1.078 .122 E .027 .002 R 1. March 166 R .241 1.355 .119 E .031 .003 1. April 177 R .189 1.236 .089 E .035 .001 R 1. May 199 .209 1.344 .093 E .032 .004 1 Jule 195 R .206 1.403 .129 E .034 .001 1 July		170		1.394				
November .145 .211 1.238 .122 .035 .001 n.1 December .154 R.233 1.306 .091 .035 .002 R.1 Total -1.689 R.2518 15.133 2.128 .459 .024 R.18 995 January 150 R.243 1.179 .094 E.028 .004 R.1 February 140 .219 1.078 .122 E.027 .002 R.1 March 166 R.241 1.355 .119 E.031 .003 1. April 177 R.189 1.236 .089 E.035 .001 R.1 May 199 .209 1.344 .093 E.032 .004 1 June 195 R.206 1.403 .129 E.034 .001 1 July 160 R.215 1.322 .129 E.039 .002 1 August 185 <td>_ ' .</td> <td></td> <td>^R.214</td> <td>1.292</td> <td>.130</td> <td></td> <td></td> <td>R 1.52</td>	_ ' .		^R .214	1.292	.130			R 1.52
November			.211		.122	.035	001	R 1.46
Total -1.689 R 2.518 15.133 2.128 .459 .024 **18. 995 January 150 R .243 1 .179 .094 E .028 .004 R 1. February 140 .219 1 .078 .122 E .027 .002 R 1. March 166 R .241 1 .355 .119 E .031 .003 1. April 177 R .189 1 .236 .089 E .035 .001 R 1. May 199 .209 1 .344 .093 E .032 .004 1. June 195 R .206 1 .403 .129 E .034 .001 1 July 160 R .215 1 .322 .129 E .039 .002 1 August 185 R .219 1 .357 .140 E .046 .001 R 1. September 196 .207 1 .423 .153 E .032 .002 1			R 233			.035	.002	_ ^R 1.51
995 January150			R 2.518				.024	R 18.57
995 January -140 219 1.078 .122 E.027 .002 R1. February -140 .219 1.078 .122 E.027 .002 R1. March -166 R.241 1.355 .119 E.031 .003 1. April -177 R.189 1.236 .089 E.035 .001 R1. May -199 .209 1.344 .093 E.032 .004 1. June -195 R.206 1.403 .129 E.034 .001 1. July -160 R.215 1.322 .129 E.039 .002 1. August -185 R.219 1.357 .140 E.046 .001 R1. September -196 .207 1.423 .153 E.032 .002 1. 9-Month Total -1.566 1.946 11.696 1.069 E.304 .020 13						c		
February -140 219 1.078 .122 027 .002 .003 .003 .003 .003 .003 .003 .003 .003 .003 .003 .003 .003 .003 .003 .004 .003 .004 .003 .004 .003 .004 .003 .004 .003 .004	995 January	150				= .028 = .027		ⁿ 1.39
March 166 R. 241 1.355 .119 E. 031 .003 1. April 177 R. 189 1.236 .089 E. 035 .001 R.1 May 199 .209 1.344 .093 E. 032 .004 1. June 195 R. 206 1.403 .129 E. 034 .001 1. July 160 R. 215 1.322 .129 E. 039 .002 1. August 185 R. 219 1.357 .140 E. 046 .001 R.1 September 196 .207 1.423 .153 E. 032 .002 1 9-Month Total -1.566 1.946 11.696 1.069 E. 304 .020 13 994 9-Month Total -1.240 1.860 11.298 1.785 .357 .017 14	*	140	219			027		
April 177 H.189 1.236 .089 035 .001 M.1 May 199 .209 1.344 .093 E.032 .004 1. June 195 R.206 1.403 .129 E.034 .001 1. July 160 R.215 1.322 .129 E.039 .002 1. August 185 R.219 1.357 .140 E.046 .001 R.1 September 196 .207 1.423 .153 E.032 .002 1. 9-Month Total -1.566 1.946 11.696 1.069 E.304 .020 13 994 9-Month Total -1.240 1.860 11.298 1.785 .357 .017 14			^R .241	1.355		<u>=</u> .031		1.58
May 199 .209 1.344 .093 E .032 .004 1. June 195 R .206 1.403 .129 E .034 .001 1. July 160 R .215 1.322 .129 E .039 .002 1. August 185 R .219 1.357 .140 E .046 .001 R 1. September 196 .207 1.423 .153 E .032 .002 1. 9-Month Total -1.566 1.946 11.696 1.069 E .304 .020 13. 994 9-Month Total -1.240 1.860 11.298 1.785 .357 .017 14.			^R .189	1.236	.089	ੂ .035		^R 1.37
June 195 R. 206 1.403 .129 E. 034 .001 1. July 160 R. 215 1.322 .129 E. 039 .002 1. August 185 R. 219 1.357 .140 E. 046 .001 R. September 196 .207 1.423 .153 E. 032 .002 1. 9-Month Total -1.566 1.946 11.696 1.069 E. 304 .020 13. 994 9-Month Total -1.240 1.860 11.298 1.785 .357 .017 14.			.209		.093	E.032	.004	1.48
July 160 R.215 1.322 .129 E.039 .002 1. August 185 R.219 1.357 .140 E.046 .001 R.1 September 196 .207 1.423 .153 E.032 .002 1 9-Month Total -1.566 1.946 11.696 1.069 E.304 .020 13 994 9-Month Total -1.240 1.860 11.298 1.785 .357 .017 14			R 206			E.034	.001	1.57
August			R 215			E 039		1.54
Adgust -196 .207 1.423 .153 E.032 .002 1.596 1.002 1.	•		.210			E DAG		R 1.57
9-Month Total						E 022		1.62
994 9-Month Total1.240 1.860 11.298 1.785 .357 .017 14.						.U32 E 004		13.46
1994 9-MONTH TOTAL	9-Month Total	-1.566	1.946	11.696	1.069	304	.020	13.40
994 9-MONIN TOTAL	AAAA 11	4 0 4 0	4 060	11 202	1 795	357	.017	14.07
993 9-Month Total1.399 1.645 10.738 1.384 .206 .014 12	••••				1.785	.206	.014	12.58

a Crude oil, lease condensate, and imports of crude oil for the Strategic

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.

Petroleum Reserve.

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

blending components.

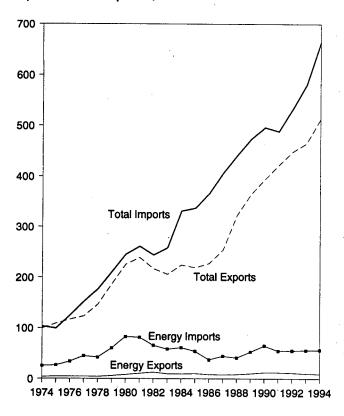
^c Assumed to be hydroelectricity and estimated at the average input heat rate for fossil-fuel steam-electric power plant generation, which has ranged from 10.2 thousand Btu to 10.5 thousand Btu per kilowatthour since 1973. Actual heat rates applied in converting kilowatthours to Btu are listed by year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

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

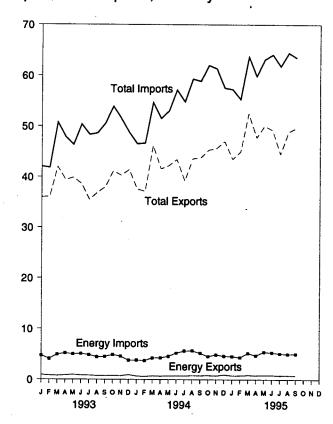
Sources: • Coal: Tables 6.1 and A5-A7. • Natural Gas: Tables 4.2 and A4. • Crude Oil and Petroleum Products: Tables 3.1b and A2. • Electricity: Section 2, "Energy Consumption Notes and Sources," Note 8, and Table A8. • Coal Coke: Section 2, "Energy Consumption Notes and Sources," Note 9, and Table A7.

Figure 1.5 Merchandise Trade Value (Billion Dollars)

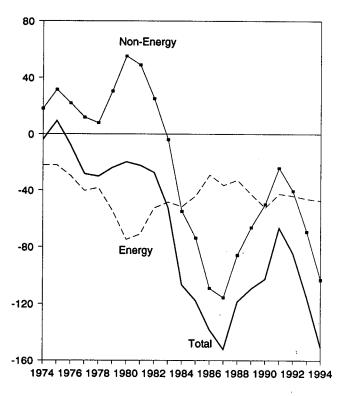
Imports and Exports, 1974-1994



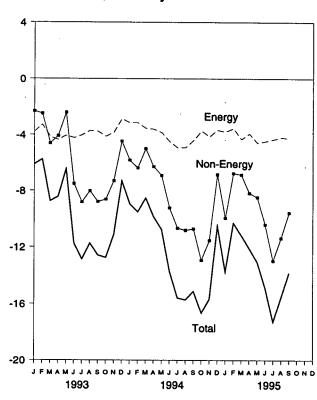
Imports and Exports, Monthly



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)

		Petroleur	n '		Energy		Non-	To	Total Merchandise ,		
	Exports	Imports	Balance	Exports	Imports	Balance	Energy Balance	Exports	Imports	Balance	
					05.454	00.040	10 100	00 427	103,321	-3,884	
974 Total	792	24,668	-23,876	3,444	25,454	-22,010	18,126	99,437 108,856	99,305	9,551	
975 Total	907	25,197	-24,289	4,470	26,476	-22,006	31,557		124,614	-7,820	
76 Total	998	32,226	-31,228	4,226	33,996	-29,770	21,950	116,794		-28,353	
977 Total	1,276	42,368	-41,093	4,184	44,537	-40,354	12,001	123,182	151,534		
978 Total	1,561	39,526	-37,965	3,881	42,096	-38,215	8,010	145,847	176,052	-30,205	
979 Total	1,914	56,715	-54,801	5,621	59,998	-54,377	30,455	186,363	210,285	-23,922	
980 Total	2,833	78,637	-75,803	7,982	82,924	-74,942	55,246	225,566	245,262	-19,696	
981 Total	3,696	76,659	-72,963	10,279	81,360	-71,081	48,814	238,715	260,982	-22,267	
982 Total	5,947	60,458	-54,511	12,729	65,409	-52,680	25,170	216,442	243,952	-27,510	
983 Total	4,557	53,217	-48,659	9,500	57,952	-48,452	-3,957	205,639	258,048	-52,409	
	4,470	56,924	-52,454	9,311	60,980	-51,669	-55.033	223,976	330,678	-106,703	
984 Total	4,707	50,475	-45,768	9,971	53,917	-43,946	-73,765	218,815	336,526	-117,712	
985 Total	3,640	•	-31,503	8,115	37,310	-29,195	-109,084	227,159	365,438	-138,279	
986 Total		35,142		•	44,220	-36,506	-115,613	254,122	406,241	-152,119	
987 Total	3,922	42,285	-38,363	7,713		-32,806	-85,720	322,426	440,952	-118,526	
988 Total	3,693	38,787	-35,094	8,235	41,042	•	•		473,211	-109,399	
989 Total	5,021	49,704	-44,683	9,869	52,779	-42,910	-66,490	363,812	•	•	
990 Total	6,901	61,583	-54,682	12,233	64,661	-52,428	-50,068	393,592	496,088	-102,496	
991 Total	6,954	51,350	-44,396	12,081	54,629	-42,548	-24,175	421,730	488,453	-66,723	
992 Total	6,412	51,217	-44,805	11,254	55,256	-44,002	-40,500	448,164	532,665	-84,501	
002 January	601	4,282	-3,681	923	4,711	-3,788	-2,313	35,958	42,058	-6,10	
993 January	477	3,718	-3,241	807	4,075	-3,268	-2,478	36,070	41.817	-5,746	
February			-4,028	753	4,904	-4,151	-4,596	41,999	50,745	-8,74	
March	470	4,498				-4,350	-4,081	39,421	47,851	-8,43	
April	590	4,814	-4,225	844	5,194	-4,051	-2,410	39,870	46,331	-6,46	
May	641	4,619	-3,978	939	4,990			38,624	50,362	-11,73	
June	443	4,714	-4,272	843	5,069	-4,226	-7,513	•	48,317	-12,85	
July	514	4,464	-3,950	819	4,845	-4,026	-8,826	35,465		-11,73	
August	453	4,000	-3,547	714	4,426	-3,712	-8,022	36,876	48,611		
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	-12,74	
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	-7,30	
Total	6,215	51,046	-44,831	9,756	55,900	-46,144	-69,425	465,091	580,659	-115,56	
1994 January	450	3,272	-2,822	674	3,815	-3,141	-5,813	37,561	46,514	-8,95	
February	381	3,243	-2,862	594	3,735	-3,141	-6,387	37,126	46,654	-9,52	
March	440	3,695	-3,255	710	4,249	-3,539	-4,985	46,139	54,663	-8,52	
April	426	3,790	-3,364	659	4,263	-3,604	-6,281	41,587	51,472	-9,88	
May		4,115	-3,632	717	4,562	-3,845	-6,927	42,215	52,987	-10,77	
June	413	4,794	-4,381	736	5,213	-4,477	-9,237	43,425	57,139	-13,71	
		5,168	-4,718	718	5,629	-4,911	-10,678	39,218	54,807	-15,58	
July		5,225	-4,726	793	5,691	-4,898	-10,817	43,589	59,304	-15,71	
August		4,773	-4,301	792	5,185	-4,393	-10,721	43,766	58,880	-15,11	
September					4,543	-3,734	-12,923	45,314	61,970	-16,65	
October		4,153	-3,623	809		•	-11,534	45,674	61,334	-15,66	
November	478	4,475	-3,997	764	4,890	-4,126			57,531	-10,51	
December		4,135	-3,498	944	4,615	-3,671	-6,847	47,013		-150,62	
Total	5,659	50,835	-45,176	8,911	56,391	-47,480	-103,149	512,626	663,256	-150,62	
1995 January	488	4,129	-3,641	783	4,568	-3,785	-9,967	43,496	57,249	-13,75	
February	528	3,909	-3,381	798	4,345	-3,547	-6,761	45,010	55,318	-10,30	
March		4,712	-4,159	879	5,188	-4,309	-6,867	52,503	63,679	-11,17	
April		4,337	-3,839	814	4,732	-3,918	-8,170	47,761	59,848	-12,08	
May		5,060	-4,520	886	5,453	-4,567	-8,470	50,099	63,136	-13,03	
June		4,957	-4,444	863	5,322	-4,459	-10,427	49,210	64,096	-14,88	
		4,724	-4,248	794	5,116	-4,322	-12,959	44,495	61,776	-17,28	
July			-4,119	816	5,003	-4,187	R -11,368	R 48,888	R 64,443	R -15,55	
August		4,588	-4,220	806	5,041	-4,235	-9,584	49,661	63,479	-13,81	
September 9-Month Total		4,661 41,075	-4,220 -36,573	7,440	44,768	-37,328	-84,573	431,123	553,024	-121,90	
•				•			-71 0/10	374,626	482,420	-107,79	
1994 9-Month Total		38,075	-34,061	6,393	42,342	-35,949 -35,330	-71,846 -49.040		426,617	-84,38	
1993 9-Month Total	. 4,612	39,166	-34,554	7,353	42,693	-35,339	-49,040	342,237	720,017	-04,30	

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

An update was not available in time for inclusion in this issue of the Monthly Energy Review.

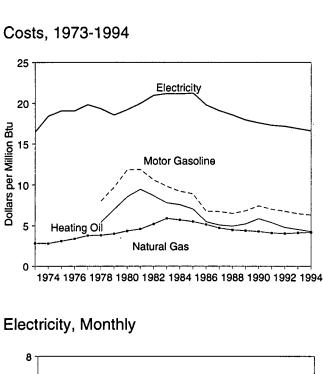
U.S. customs territory, which comprises the 50 States, the District of

Columbia, Puerto Rico, and the Virgin Islands.

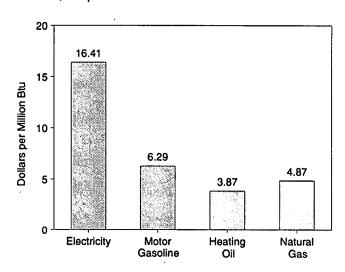
Sources:

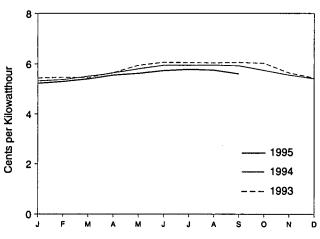
- U.S. Department of Commerce, Bureau of the Census, Foreign Trade Division. For details, see "Sources for Table 1.6" at the end of this section.

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

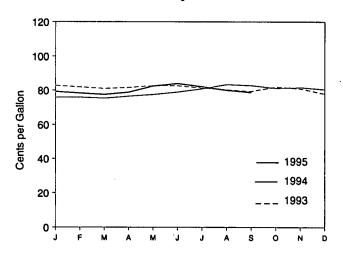




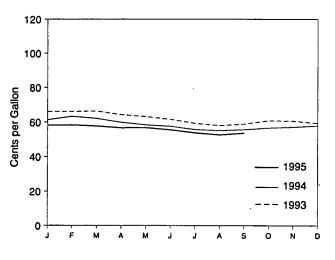




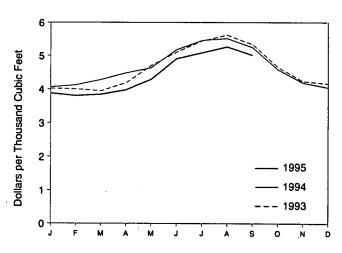
Motor Gasoline, Monthly



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		asoline ypes)	Residential Heating Oil			lential al Gas	Residential Electricity	
	Index 1982-1984=100	Cents per Gallon	Dollars per Million Btu	Cents per Gallon	Dollars per Million Btu	Cents per Thousand Cubic Feet	Dollars per Million Btu	Cents per Kilowatthour	Dollars pe Million Btu
973 Average	44.4	NA	NA	NA	NA	290.5	2.85	5.6	16.50
	49.3	NA NA	NA NA	NA	NA	290.1	2.83	6.3	18.43
974 Average 975 Average	53.8	NA NA	NA NA	NA	NA	317.8	3.12	6.5	19.07
976 Average	56.9	NA NA	NA	NA NA	NA	348.0		. 6.5	19.06
977 Average	60.6	NA NA	NA	NA	NA	387.8	3.81	6.8	19.83
978 Average	65.2	100.0	8.00	75.2	5.42	392.6	3.86	6.6	19.33
979 Average	72.6	121.5	9.71	97.0	6.99	410.5	4.03	6.3	18.57
980 Average	82.4	148.2	11.85	118.2	8.52	446.6	4.36	6.6	19.21
981 Average	90.9	148.8	11.90	131.4	9.47	471.9	4.60	6.8	19.99
982 Average	96.5	132.7	10.61	120.2	8.67	535.8	5.22	7.2	20.96
983 Average	99.6	123.0	9.83	108.2	7.80	608.4	5.90	7.2	21.19
984 Average	103.9	115.3	9.22	105.0	7.57	589.0	5.72	7.2	21.16
985 Average	107.6	111.2	8.89	97.9	7.06	568.8	5.52	7.2	21.25
986 Average	109.6	84.9	6.79	76.3	5.50	531.9	5.17	6.8	19.79
987 Average	113.6	84.2	6.74	70.7	5.10	487.7	4.73	6.5	19.09
988 Average	118.3	81.4	6.51	68.7	4.96	462.4	4.49	6.3	18.58
989 Average	124.0	85.5	6.83	72.6	5.23	454.8	4.41	6.1	17.96
990 Average	130.7	93.1	7.44	81.3	5.86	443.8	4.31	6.01	17.60
991 Average	136.2	87.8	7.02	74.8	5.39	427.3	4.14	5.91	17.32
992 Average	140.3	84.8	6.78	66.6	4.80	419.8	4.07	5.87	17.19
993 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	R 544.3	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	R 416.3	R 4.05	5.43	15.92
Average	144.5	81.2	6.49	63.0	4.55	426.3	4.15	5.77	16.92
994 January	146.2	75.9	6.06	61.3	4.42	R 405.6	R 3.94	5.31	15.56
February	146.7	75.9	6.07	63.3	4.57	^R 411.7	R 4.00	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	59.8	4.31	R 447.8	R 4.35	5.64	16.54
May	147.5	77.5	6.20	58.4	4.21	463.7	4.51	5.80	16.99
June	148.0	78.9	6.30	57.6	4.15	517.6 B 545.0	5.03	5.94	17.41
July	148.4	80.8	6.46	55.7	4.02	^R 545.8 ^R 551.7	5.30 ^R 5.36	5.94	17.42 17.45
August	149.0	83.4	6.67	55.1	3.97	R 524.8		5.95	17.45
September	149.4	82.8	6.62	55.7	4.02 4.09	R 458.9	5.10 R 4.46	5.92 5.74	16.82
October	149.5	81.1	6.48	56.7		R 418.8	R 4.40	5.55	16.27
November	149.7	81.6	6.53	57.2 59.0	4.13	R 404.8	R 3.93		15.82
Average	149.7 148.2	80.4 79.2	6.43 6.33	58.0 59.6	4.18 4.30	432.5	4.21	5.40 5.67	16.63
995 January	150.3	79.2	6.33	58.2	4.19	R 387.9	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	384.4	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
May	152.2	82.5	6.60	56.8	4.09	R 429.0	R 4.17	5.62	16.46
June	152.5	84.0	6.72	55.5	4.00	R 490.5	R 4.77	5.73	16.80
July		82.1	6.56	53.8	3.88	R 508.2	R 4.94	5.78	16.93
August	152.9	79.9	6.39	R 52.7	^R 3.80	R 526.5	5.12	5.75	16.85
September		78.7	6.29	53.7	3.87	501.3	4.87	5.60	16.41

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

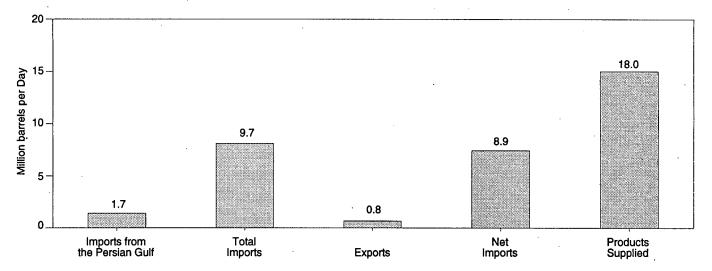
R=Revised data. NA=Not available.

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.

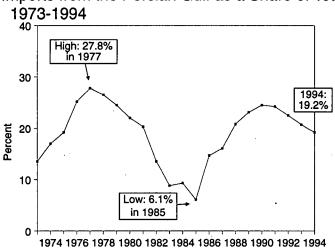
Sources: • Annual Data: Annual prices in Tables 9.4 (All Types), 9.8c, 9.11, and 9.9 (Monthly Series), adjusted by the CPI. • Monthly Data: Monthly prices in Tables 9.4 (All Types), 9.8c, 9.11, and 9.9 (Monthly Series), adjusted by the CPI. • CPI: 1973-1993—Economic Report of the President, February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

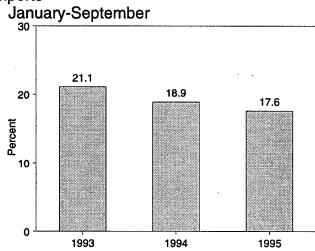
Figure 1.7 Overview of U.S. Petroleum Trade (Quadrillion Btu)

Overview, September 1995

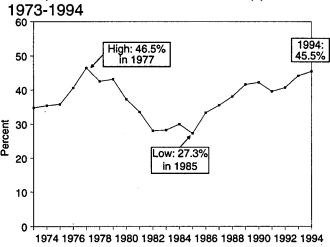


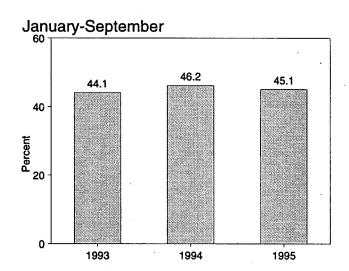
Imports from the Persian Gulf as a Share of Total Imports





Net Imports as Share of Product Supplied





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

Table 1.8 Overview of U.S. Petroleum Trade

	from the	l		ĺ				I	the Persian Gulf
<u> </u>	Persian Gulf ^a	Total Imports	Exports	Net Imports	Products Supplied	Imports from the Persian Guif ^a	Total imports	Net Imports	as a Share of Total Imports
		Thousand Barrels per Day Percent							
973 Average	848	6,256	231	6,025	17,308	4.9	36.1	34.8	13.6
974 Average	1,039	6,112	221	5,892	16,653	6.2	36.7	35.4	17.0
975 Average	1,165	6,056	209	5,846	16,322	7.1	37.1	35.8	19.2
976 Average	1,840	7,313	223	7,090	17,461	10.5	41.9	40.6	25.2
977 Average	2,448	8,807	243	8,565	18,431	13.3	47.8	46.5	27.8
978 Average	2,219	8,363	362	8,002	18,847	11.8	44.4	42.5	26.5
979 Average	2,069	8,456	471	7,985	18,513	11.2	45.7	43.1	24.5
980 Average	1,519	6,909	544	6,365	17,056	8.9	40.5	37.3	22.0
981 Average	1,219	5,996	595	5,401	16,058	7.6	37.3	33.6	20.3
982 Average	696	5,113	815	4,298	15,296	4.5	33.4	28.1	13.6
983 Average	442	5,051	739	4,312	15,231	2.9	33.2	28.3	8.8
-	506	5,437	722	4,715	15,726	3.2	34.6	30.0	9.3
984 Average	311	5,067	781	4,286	15,726	2.0	32.2	27.3	6.1
985 Average	912	6,224	785	5,439	16,281	5.6	38.2	33.4	14.7
986 Average987 Average	1,077	6,678	764	5,914	16,665	6.5	40.1	35.5	16.1
	1,541	7,402	815	6,587	17,283	8.9	42.8	38.1	20.8
988 Average	1,861	8,061	859	7,202	17,325	10.7	46.5	41.6	23.1
989 Average	•		857	7,161	16,988	11.6	47.2	42.2	24.5
990 Average	1,966	8,018			16,714	11.0	45.6	39.6	24.2
991 Average992 Average	1,845 1,778	7,627 7,888	1,001 950	6,626 6,938	17,033	10.4	46.3	40.7	22.5
993 January	1,831	8,004	1,135	6,869	16,173	11.3	49.5	42.5	22.9
February	1.877	7,948	1,033	6,915	17,334	10.8	45.9	39.9	23.6
March	1,811	8,285	970	7,315	17,575	10.3	47.1	41.6	21.9
April	1,940	8,768	1,067	7,701	16,781	11.6	52.3	45.9	22.1
May	1,805	8,663	1,082	7,581	16,508	10.9	52.5	45.9	20.8
June	1,841	8,805	900	7,905	17,096	10.8	51.5	46.2	20.9
July	1,671	9,219	1,001	8,218	17,357	9.6	53.1	47.3	18.1
August	1,619	8,429	829	7,600	17,332	9.3	48.6	43.9	19.2
September	1,774	8,531	902	7,629	17,650	10.1	48.3	43.2	20.8
October	1.644	9,197	881	8,316	17,323	9.5	53.1	48.0	17.9
November	1,767	8,903	980	7,923	17,780	9.9	50.1	44.6	19.9
December	1,814	8,645	1,250	7,394	17,953	10.1	48.2	41.2	21.0
Average	1,782	8,620	1,003	7,618	17,237	10.3	50.0	44.2	20.7
994 January	1,630	7,993	927	7,066	18,072	9.0	44.2	39.1	20.4
February	1,493	8,539	882	7,657	18,337	8.1	46.6	41.8	17.5
March	1,617	8,574	936	7,638	17,313	9.3	49.5	44.1	18.9
April	1,851	8,968	868	8,100	17,489	10.6	51.3	46.3	20.6
May	1,800	9,213	929	8,284	17,181	10.5	53.6	48.2	19.5
June	1,650	9,305	867	8,438	17,815	9.3	52.2	47.4	17.7
July	1,812	9,779	877	8,902	17,485	10.4	55.9	50.9	18.5
August	1,669	9,510	913	8,597	18,117	9.2	52.5	47.5	17.5
September	1,887	9,693	891	8,802	17,490	10.8	55.4	50.3	19.5
October	1,804	8,788	997	7,791	17,719	10.2	49.6	44.0	20.5
November	1,726	8,707	1,000	7,707	17,315	10.0	50.3	44.5	19.8
December	1,781	8,863	1,208	7,655	18,319	9.7	48.4	41.8	20.1
Average	1,728	8,996	942	8,054	17,718	9.8	50.8	45.5	19.2
995 January	1,459	7,955	978	6,977	17,167	8.5	46.3	40.6	18.3
February	1,550	8,358	1,062	7,296	18,355	8.4	45.5	39.8	18.5
March	1,788	9,020	948	8,073	17,403	10.3	51.8	46.4	19.8
April	1,547	8,486	998	7,488	17,102	9.0	49.6	43.8	18.2
May	1,490	8,736	876	7,860	17,241	8.6	50.7	45.6	17.1
June	1,558	9,585	919	8,666	18,149	8.6	52.8	47.8	16.3
July	1,460	8,845	894	7,950	17,113	8.5	51.7	46.5	16.5
August	1,530	9,024	821	8,203	17,993	8.5	50.2	45.6	17.0
September	1,680	9,726	805	8,921	18,011	9.3	54.0	49.5	17.3
9-Month Average	1,562	8,861	921	7,940	17,605	8.9	50.3	45.1	17.6
1994 9-Month Average 1993 9-Month Average	1,714 1,795	9,067 8,521	899 991	8,167 7,530	17,694 17,086	9.7 10.5	51.2 49.9	46.2 44.1	18.9 21.1

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

due to independent rounding. • U.S. geographic coverage is the 50 States and the District of Columbia. U.S. exports include shipments to U.S. territories, and imports include receipts from U.S. territories.

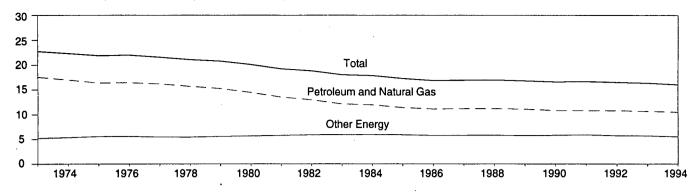
An update was not available in time for inclusion in this issue of the Monthly Energy Review.

Notes: • Readers of Table 1.8 may be interested in a feature article, "Measuring Dependence on Imported Oil," that was published in the August 1995 Monthly Energy Review. • Petroleum is crude oil, lease condensate, unfinished oils, petroleum products, natural gas plant liquids, and nonhydrocarbon compounds blended into finished petroleum products. • Beginning in October 1977, petroleum imported for the Strategic Petroleum Reserves is included. • Annual averages may not equal average of months

Sources: • Column 1: Table 3.3b. • Columns 2 - 4: Table 3.1b. • Column 5: Table 3.1a. • Column 6: Column 1 divided by column 5 times 100. • Column 7: Column 2 divided by column 5 times 100. • Column 8: Column 4 divided by column 5 times 100. • Column 9: Column 1 divided by column 2 times 100.

Figure 1.8 Energy Consumption per Dollar of Gross Domestic Product

(Thousand Btu per 1987 Dollar)



Source: Table 1.8.

Table 1.9 Energy Consumption per Dollar of Gross Domestic Product

(Seasonally Adjusted at Annual Rates)

	Ene	ergy Consumption	n		Energy Cons	umption per Doll	ar of GDP
	Petroleum and Natural Gas	Other Energy	Total ^a	Gross Domestic Product (GDP)	Petroleum and Natural Gas	Other Energy	Total
		Quadrillion Btu		Billion 1987 Dollars	Thousa	nd Btu per 1987 D	ollar
				1 100. 00			
973 Year	57.352	16.930	74.282	3,268.6	17.55	5.18	22.73
74 Year	55.187	17.356	72.543	3,248.1	16.99	5.34	22.33
75 Year	52.678	17.867	70.546	3,221.7	16.35	5.55	21.90
76 Year	55.520	18.842	74.362	3,380.8	16.42	5.57	22.00
77 Year	57.053	19.236	76.288	3,533.3	16.15	5.44	21.59
78 Year	57.966	20.123	78.089	3,703.5	15.65	5.43	21.09
79 Year	57.789	21,108	78.898	3,796.8	15.22	5.56	20.78
80 Year	54.596	21.359	75.955	3,776.3	14.46	5.66	20.11
81 Year	51.859	22.131	73.990	3,776.3	13.49	5.76	19.25
82 Year		22.131	70.848	3,760.3	12.96		
	48.736 47.411	23.114	70.524		12.96	5.88	18.84
83 Year				3,906.6		5.92	18.05
84 Year	49.558	24.586	74.144	4,148.5	11.95	5.93	17.87
85 Year	48.756	25.225	73.981	4,279.8	11.39	5.89	17.29
86 Year	48.904	25.393	74.297	4,404.5	11.10	5.77	16.87
87 Year	50.609	26.285	76.894	4,539.9	11.15	5.79	16.94
88 Year	52.774	27.443	80.218	4,718.6	11.18	5.82	17.00
89 Year	53.595	27.731	81.325	4,838.0	11.08	5.73	16.81
90 Year	52.849	28.416	81.265	4,897.3	10.79	5.80	16.59
91 Year	52.452	28.665	81.116	4,867.6	10.78	5.89	16.66
92 Year	53.657	28.487	82.144	4,979.3	10.78	5.72	16.50
93 1 st Quarter	^R 55.300	R 29.275	^R 84.575	5,075.3	^R 10.90	^R 5.77	R 16.66
2 nd Quarter	^R 53.653	^R 29.581	^R 83.235	5,105.4	^R 10.51	^R 5.79	R 16.30
3 rd Quarter	^R 54.487	^R 29.094	^R 83.581	5,139.4	^R 10.60	^R 5.66	R 16.26
4th Quarter	^R 55.231	^R 28.835	^R 84.066	5,218.0	^R 10.58	^R 5.53	R 16.1
Year	^R 54.667	29.195	^R 83.862	5,134.5	10.65	5.69	^R 16.33
94 1 st Quarter	^R 57.846	^R 29.905	^R 87.752	5,261.1	^R 11.00	^R 5.68	^R 16.68
2 nd Quarter	^R 55.871	R 30.025	^R 85.896	5,314.1	^R 10.51	^R 5.65	^R 16.16
3 rd Quarter	^R 55.709	^R 29.239	^R 84.948	5,367.0	10.38	^R 5.45	R 15.83
4th Quarter	^R 54.889	R 29.126	^R 84.016	5,433.8	10.10	5.36	15.46
Year	R 56.070	R 29.571	R 85.641	5,344.0	R 10.49	5.53	R 16.03
95 1 st Quarter	R 56.636	^R 29.968	R 86.604	5,470.1	10.35	_ 5.48	15.83
2 nd Quarter	^R 57.405	^R 30.506	· R87.911	5,487.8	^R 10.46	^R 5.56	16.02
3 rd Quarter	57.061	30.963	88.024	5,544.6	10.29	5.58	15.88

⁸ 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.

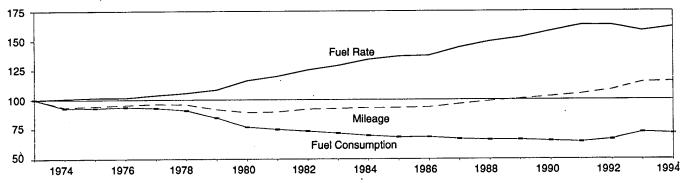
components due to independent rounding. • Geographic coverage is the 50 States and the District of Columbia.

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

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, October 27, 1995, Table 2.

Figure 1.9 Passenger Car Efficiency

(Index, 1973 = 100)



Source: Table 1.9.

Table 1.10 Passenger Car Efficiency

· <u>L</u>	Mileage		Fuel Cor	sumption	Fuel Rate		
	Miles per Car	Index 1973=100.0	Gallons per Car	Index 1973=100.0	Miles per Gallon	Index 1973=100.0	
973	10,256	100.0	771	100.0	13.30	100.0	
	9,606	93.7	716	92.9	13.42	100.9	
974 975	9,690	94.5	716	92.9	13.52	101.7	
	9,785	95.4	723	93.8	13.53	101.7	
976 977	9,879	96.3	716	92.9	13.80	103.8	
978	9,835	95.9	701	90.9	14.04	105.6	
	9,403	91.7	653	84.7	14.41	108.3	
979 980	9,141	89.1	591	76.7	15.46	116.2	
	9,186	89.6	576	74.7	15.94	119.8	
981 982	9,428	91.9	566	73.4	16.65	125.2	
983	9,475	92.4	553	71.7	17.14	128.9	
984	9,558	93.2	536	69.5	17.83	134.1	
985	9,560	93.2	525	68.1	18.20	136.8	
986	9,608	93.7	526	68.2	18.27	137.4	
987	9,878	96.3	514	66.7	19.20	144.4	
988	10,121	98.7	509	66.0	19.87	149.4	
989	10,332	100.7	509	66.0	20.31	152.7	
	10,548	102.8	502	65.1	21.02	158.0	
990	10,757	104.9	496	64.3	21.69	163.1	
991	11,100	108.2	512	66.4	21.68	163.0	
992	11,760	114.7	559	72.5	21.04	158.2	
993 994ª	11,839	115.4	551	71.5	21.48	161.5	

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

	,	November	1 through N	ovember 30	Cumulative July 1 through November 30					
Census				Percent	Change]			Percent	Change
Divisions	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	720	612	812	12.8	32.7	1,329	1,274	1,417	6.6	11.2
Middle Atlantic New Jersey, New York, Pennsylvania	647	527	751	16.1	42.5	1,120	1,030	1,145	2.2	11.2
East North Central Illinois, Indiana, Michigan, Ohio, Wisconsin	731	602	913	24.9	51.7	1,259	1,129	1,457	15.7	29.1
West North Central Iowa, Kansas, Minnesota, Missouri, Nebraska, North Dakota, South Dakota	798	688	923	15.7	34.2	1,349	1,198	1,523	12.9	27.1
South Atlantic Delaware, Florida, Georgia, Maryland and the District of Columbia, North Carolina, South Carolina, Virginia,										·
West Virginia East South Central Alabama, Kentucky, Mississippi, Tennessee	335 432	258 325	441 576	31.6	70.9	513 661	447 553	604 822	17.7	35.1 48.6
West South Central Arkansas, Louisiana, Oklahoma, Texas	272	208	293	7.7	40.9	354	309	397	12.1	28.5
Mountain Arizona, Colorado, Idaho, Montana, Nevada, New Mexico, Utah, Wyoming	665	749	548	-17.6	-26.8	1,195	1,240	1,110	-7.1	-10.5
Pacific ^b California, Oregon, Washington	385	510	287	-25.5	-43.7	663	802	589	-11.2	-26.6
U.S. Average ^b	528	. 471	598	13.3	27.0	888	839	957	7.8	14.1

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

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

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

Sources: See end of section.

b Excludes Alaska and Hawaii.

Table 1.12 Cooling Degree-Days by Census Division

		November 1	through No	ovember 30		Cumulative January 1 through November 30					
Census		nal ^a 1994 1		Percent	Change				Percent	Change	
Divisions	Normala		1995	Normal to 1995	1994 to 1995	Normala	1994	1995	Normal to 1995	1994 to 1995	
New England Connecticut, Maine, Massachusetts, New Hampshire,											
Rhode Island, Vermont	0	0	0	·(°)	(°)	420	545	540	28.6	-0.9	
Middle Atlantic New Jersey, New York, Pennsylvania	0	o	0	(°)	(°)	675	777	842	24.7	8.4	
East North Central Illinois, Indiana, Michigan, Ohio,	_					706	700	942	28.0	30.3	
Wisconsin	0	. 0	0	(°)	(°)	736	723	942	28.0	30.3	
West North Central Iowa, Kansas, Minnesota, Missouri, Nebraska, North Dakota, South Dakota	0	1	0	(°)	(°)	981	897	1,022	4.2	13.9	
South Atlantic Delaware, Florida, Georgia, Maryland and the District of Columbia, North Carolina,											
South Carolina, Virginia, West Virginia	49	68	39	(°)	(°)	1,895	1,983	2,076	9.6	4.7	
East South Central Alabama, Kentucky, Mississippi, Tennessee	6	5	1	(°)	(°)	1,561	1,452	1,664	6.6	14.6	
West South Central Arkansas, Louisiana, Oklahoma, Texas	33	, 35	12	(°)	(°)	2,449	2,449	2,406	-1.8	-1.8	
Mountain Arizona, Colorado, Idaho, Montana, Nevada, New Mexico, Utah, Wyoming	4	0	0	(°)	(°)	1,173	1,319	1,134	₇ 3.3	-14.0	
Pacific ^b California, Oregon, Washington	4	0	0	(°)	(°)	693	719	629	-9.2	-12.5	
U.S. Average ^b		16	8	(°)	(°)	1,185	1,220	1,277	7.8	4.7	

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

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

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

Sources: See end of section.

b Excludes Alaska and Hawaii.

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

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 along-side ship (f.a.s.) basis.

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

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

Sources for Table 1.6

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

Petroleum Exports

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

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

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

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

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

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

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

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

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Section 2. Energy Consumption

U.S. total energy consumption in September 1995 was 6.8 quadrillion Btu. Petroleum products accounted for 43 percent¹ of the energy consumed in September 1995, while coal accounted for 24 percent, and natural gas accounted for 21 percent.

Residential and commercial sector consumption was 2.3 quadrillion Btu in September 1995, up 7 percent from the September 1994 level. The sector accounted for 33 percent of September 1995 total consumption, up 1 percentage point from its 32-percent share in September 1994.

Industrial sector consumption was 2.6 quadrillion Btu in September 1995, down 1 percent from the September 1994 level. The industrial sector accounted for 38 percent of September 1995 total consumption, down 1 percentage point from its 39-percent share as in September 1994.

Transportation sector consumption of energy was 2.0 quadrillion Btu in September 1995, up 3 percent from the September 1994 level. The sector accounted for 29 percent of September 1995 total consumption, about the same share as in September 1994.

Electric utility consumption of energy totaled 2.6 quadrillion Btu in September 1995, up 3 percent from the September 1994 level. Coal contributed 54 percent of the energy consumed by electric utilities in September 1995, while nuclear electric power contributed 23 percent; natural gas 12 percent; hydroelectric 9 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 September 1995 (Quadrillion Btu)

		End-Us					
Energy Source	Residential and Commercial	Industrial	Transportation	Totala	Electric Utilities	Total	
Coal	0.022	0.201 .763	(^b)	0.222 1.098	1.419 .323	1.640 1.421	
Vatural Gas ^c Petroleum Products ^d	.287 .174	.763 .750	1.927	2.851	.051	2.902	
uclear Electric Power	.1/4	./50	- 1.027		.595	.595	
ydroelectric Power ^e	_	.002	-	.002	.225	.228	
eothermal	-	-	_	_	.008	.008	
et Imports of Coal Coke	_	.002	-	.002	1 -	.002	
ther ^f	_	_	-	-	.002	.002	
Primary Consumption		1.718	1.974	4.175	2.622	6.797	
lectricity		.293	.001	.907	-	-	
Net Consumption	1.095	2.011	1.975	5.081	- 1	-	
ectrical System Energy Losses	1.158	.555	.002	1.716	-	-	
Total Consumption9	2.253	2.567	1.977	6.797	-	-	

^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.

⁶ Includes net imports of electricity.

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

⁹ 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.

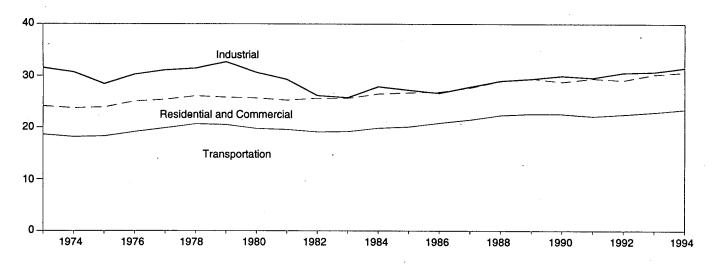
Notes: • Totals may not equal sum of components due to independent rounding.
• Geographic coverage is the 50 States and the District of

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

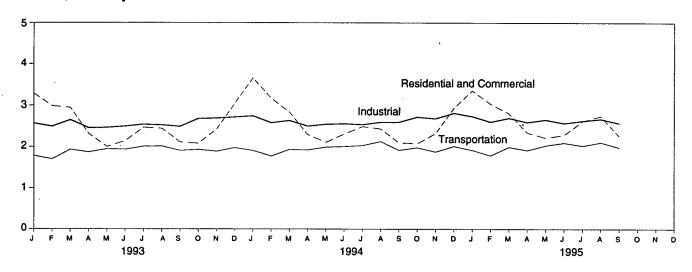
¹Percentage changes are based on numbers in the following tables.

Figure 2.1 Energy Consumption by End-Use Sector

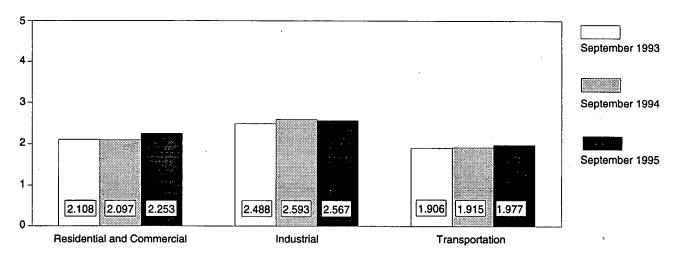
Overview, 1973-1994



Overview, Monthly



Overview, September



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

Table 2.2 Energy Consumption by End-Use Sector

•	Residential a	nd Commercial	Indu	strial	Transp	ortation		
	Net	Total	Net	Total	Net	Total	Net	Totala
	45.366	24.143	25,917	31.528	18.584	18.605	60.274	74.282
1973 Total	15.766	24.143 23.725	24.994	30.694	18.095	18.117	58.341	72.543
1974 Total	15.246		22.737	28.402	18.219	18.244	56.157	70.546
1975 Total	15.200	23.899	24.038	30.236	19.076	19.101	59.119	74.362
1976 Total	15.997	25.018		31.077	19.794	19.819	60.223	76.288
1977 Total	15.828	25.384	24.593	31.392	20.589	20.611	61.251	78.089
1978 Total	16.023	26.084	24.637		20.447	20.472	61.836	78.898
1979 Total	15.709	25.808	25.679	32.616	19.669	19.695	58.597	75.955
1980 Total	15.075	25.655	23.854	30.606	19.480	19.507	56.556	73.990
1981 Total	14.541	25.241	22.533	29.240	19.043	19.069	53.697	70.848
1982 Total	14.629	25.629	20.020	26.145	19.109	19.135	52.907	70.524
1983 Total	14.395	25.627	19.401	25.759		19.801	55.923	74.144
1984 Total	14.964	26.474	21.184	27.867	19.773	20.067	55.391	73.981
1985 Total	14.839	26.704	20.520	27.214	20.036		55.676	74.297
1986 Total	14.791	26.852	20.101	26.630	20.781	20.812		76.894
1987 Total	15.146	27.623	21.116	27.826	21.419	21.448	57.678 60.366	80.218
1988 Total	16.004	28.925	22.085	28.986	22.274	22.305		81.325
1989 Total	16.261	29.404	22.272	29.353	22.530	22.561	61.070	
1990 Total	15.568	28.786	22.841	29.936	22.504	22.535	60.921	81.265 81.116
1991 Total	15.986	29.424	22.549	29.570	22.090	22.120	60.626	
1992 Total	16.090	29.100	23.498	30.577	22.432	22.461	62.025	82.144
1993 January	2.081	^R 3.285	R 2.006	R 2.567	1.785	1.787	^R 5.870	^R 7.639 ^R 7.174
February	1.946	2.986	^R 1.964	R 2.489	1.700	1.702	^R 5.608 ^R 5.869	R 7.174
March	1.859	2.947	^R 2.084	^R 2.649	1.928	1.931		R 6.635
April	1.380	2.315	^R 1.915	R 2.455	1.866	1.868	^R 5.158	
May	1.012	2.000	^R 1.857	^R 2.463	1.943	1.945	R 4.809	R 6.405
June	.982	2.140	^R 1.854	R 2.493	1.933	1.935	R 4.770	R 6.568
July	1.058	2.466	^R 1.892	^R 2.537	2.003	2.006	R 4.959	R 7.014
August	1.058	^R 2.441	^R 1.886	R 2.523	2.008	2.011	R 4.957	R 6.980
September	1.013	2.108	R 1.949	^R 2.488	1.903	1.906	R 4.866	R 6.502
October	1.078	2.079	^R 2.106	^R 2.678	1.928	1.930	^R 5.110	^R 6.686
November	1.398	2.422	^R 2.104	^R 2.691	1.884	1.886	R 5.385	R 6.998
December	^R 1.871	R 3.044	R 2.123	R 2.717	1.974	1.976	5.966	7.737
Total	^R 16.732	^R 30.229	^R 23.743	^R 30.753	22.856	22.883	^R 63.326	R 83.862
4004 January	R 2.354	R 3.657	R 2.168	R 2.744	R 1.902	^R 1.905	^R 6.425	^R 8.306
1994 January	R 2.095	R 3.163	R 2.068	R 2.578	^R 1.771	R 1.773	^R 5.932	^R 7.512
February		R 2.837	R 2.060	R 2.633	^R 1.930	R 1.932	^R 5.738	^R 7.400
March	D	R 2.291	R 1.941	R 2.497	R 1.920	R 1.922	^R 5.178	^R 6.709
April	D	R 2.106	R 1.923	R 2.541	R 1.988	R 1.990	R 4.977	^R 6.636
May	D	R 2.306	R 1.900	R 2.555	R 2.002	R 2.004	^R 4.941	^A 6.869
June	0	R 2.486	^R 1.908	^R 2.533	^R 2.025	R 2.027	^R 5.026	^R 7.050
July	D	R 2.432	1.943	R 2.593	R 2.124	R 2.126	R 5.156	^R 7.155
August	D	R 2.097	2.026	R 2.593	R 1.912	^R 1.915	^R 4.936	R 6.605
September		R 2.073	R 2.130	R 2.719	^R 1.978	R 1.980	R 5.160	R 6.772
October	D	R 2.319	R 2.089	R 2.681	R 1.872	^R 1.875	R 5.256	R 6.872
November		**2.319 **2.931	R 2.220	R 2.814	R 2.008	· 82.010	^R 5.996	R 7.754
December		R 30.698	R 24.374	R 31.482	R 23.433	R 23.461	R 64.720	R 85.641
	9	^R 3.351	R 2.156	2.737	R 1.915	^R 1.917	^R 6.192	R 8.004
1995 January	0	R 3.034	R 2.070	R 2.599	^R 1.784	R 1.786	^R 5.825	ⁿ 7.416
February	, "1.9/3 B4 704	R 2.804	R 2.107	R 2.694	R 1.989	R 1.991	R 5.814	^R 7.486
March			R 2.020	8 2.592	R 1.912	R 1.914	^R 5.296	6.844
April		2.341 Bo 010	^R 2.016	R 2.653	^R 2.025	R 2.027	R 5.173	R 6.891
May	D	R 2.212		R 2.569	R 2.092	R 2.094	R 5.092	R 6.946
June		2.282	R 1.931	R 2.624	R 2.018	R 2.021	R 5.104	R 7.261
July		R 2.614	1.959		R 2.101	R 2.104	R 5.282	R 7.516
August		R 2.738	R 1.994	R 2.670	1.975	1.977	5.081	6.797
September		2.253	2.011 18.264	2.567 23.704	1.975 17.811	17.832	48.859	65.162
9-Month Total	. 12.787	23.629	10.204					
1994 9-Month Total		23.374	17.935	23.268	17.574	17.595	48.308	64.243
1993 9-Month Total		22.687	17.407	22.664	17.070	17.091	46.866	62.441

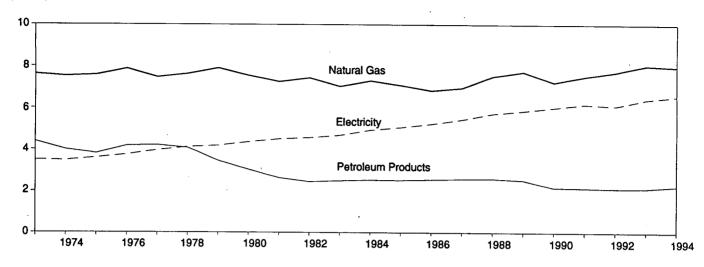
^a Due to a lack of consistent historical data, some renewable energy sources are not included. For example, in 1992, 3.0 quadrillion Btu of renewable energy consumed by U.S. electric utilities to generate electricity for distribution is included, but an estimated 3.0 quadrillion Btu of renewable energy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

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.

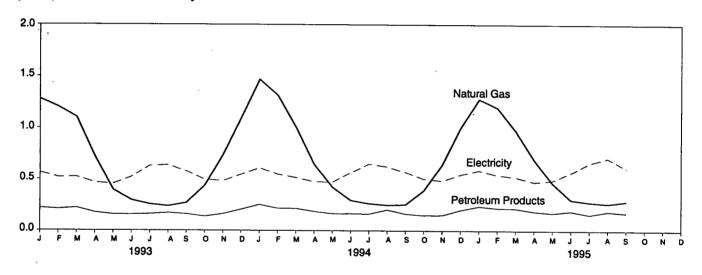
Additional Notes and Sources: See end of section.

Figure 2.2 Residential and Commercial Energy Consumption

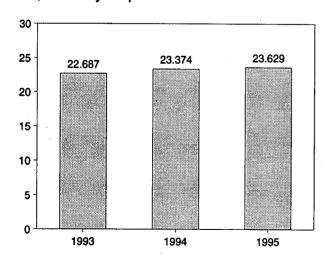
By Major Sources, 1973-1994



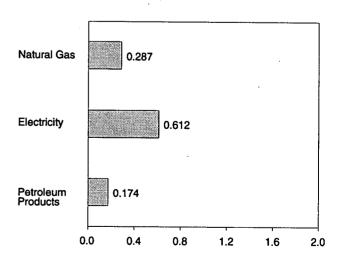
By Major Sources, Monthly



Total, January-September



By Major Sources, September 1995



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

Table 2.3 Residential and Commercial Energy Consumption

	Coal	Natural Gas ^a	Petroleum Products ^b	Primary Consumption	Electricity	Net Consumption	Electrical System Energy Losses	Total Consumption ^c
			4.004	12.270	3.495	15.766	8.377	24.143
1973 Total	0.254	7.626	4.391 3.996	11.771	3.475	15.246	8.480	23.725
1974 Total	.257	7.518	3.805	11.595	3.604	15.200	8.700	23.899
975 Total	.209	7.581	3.805 4.181	12.250	3.747	15.997	9.021	25.018
1976 Total	.203	7.866	4.206	11.873	3.955	15.828	9.556	25.384
1977 Total	.205	7.461		11.908	4.116	16.023	10.061	26.084
1978 Total	.214	7.624	4.070	11.525	4.184	15.709	10.100	25.808
979 Total	.187	7.891	3.448		4.355	15.075	10.580	25.655
1980 Total	.145	7.540	3.035	10.721	4.497	14.541	10.700	25.241
1981 Total	.167	7.243	2.634	10.043	4.566	14.629	11.000	25.629
982 Total	.187	7.427	2.449	10.063	4.680	14.395	11.232	25.627
983 Total	.192	7.024	2.498	9.715	4.928	14.964	11.510	26.474
984 Total	.209	7.292	2.535	10.036		14.839	11.865	26.704
1985 Total	.176	7.079	2.522	9.777	5.061	14.791	12.061	26.852
1986 Total	.176	6.825	2.555	9.556	5.235		12.477	27.623
1987 Total	.162	6.954	2.587	9.703	5.443	15.146	12.920	28.925
988 Total	.168	7.513	2.600	10.280	5.724	16.004	13.143	29.404
989 Total	.146	7.731	2.525	10.402	5.859	16.261		28.786
990 Total	.156	7.225	2.173	9.553	6.015	15.568	13.218	
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	R 3.285
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	R 2.441
September	.007	.269	.161	.436	.577	1.013	1.095	2.108
October	.009	.435	.138	^R .582	.495	1.078	1.002	2.079
November	.015	.738	.163	.916	.483	_ 1.398	1.024	2.422
December		1.098	.205	R 1.325	.546	R 1.871	1.174	ຼ ^ຄ 3.044
Total	.143	R 8.037	2.136	^R 10.316	6.416	R 16.732	13.497	R 30.229
1994 January	.020	R 1.470	.253	^R 1.743	.611	^R 2.354	^R 1.303	R 3.657
February	^R .015	^R 1.315	.216	^R 1.547	.548	R 2.095	^R 1.068	^R 3.163
March		⁸ 1.008	.215	^R 1.235	.515	R 1.749	^R 1.087	^R 2.837
April		^R .647	.186	^R .844	.475	^R 1.319	R .972	R 2.291
May	.008	R .422	.166	^R .596	.472	^R 1.068	^R 1.038	R 2.106
June		R .295	.167	R.471	.565	^R 1.036	1.270	R 2.306
July		R .264	.164	^R .438	.652	R 1.089	^R 1.396	R 2.486
August		^R .250	.203	R 462	.624	^R 1.086	^R 1.346	R 2.432
September		R .255	.165	R .426	.570	^R .997	R 1.100	R 2.097
October		R .391	.151	. R .550	.503	^R 1.053	^R 1.021	^R 2.073
November	0	^R .645	.153	^R .811	.486	^R 1.297	R 1.022	^R 2.319
December	D	R 1.005	.201	R 1.224	.546	^R 1.770	^R 1.161	_ ^R 2.931
Total		R 7.967	2.239	^R 10.346	6.567	R 16.912	R 13.786	R 30.698
1995 January	.015	1.281	.238	^R 1.535	.588	R 2.123	^R 1.228	^R 3.351
February	D	R 1.199	.220	R 1.432	.542	^H 1.973	^R 1.060	R 3.034
March		R .974	.216	^R 1.200	.521	^R 1.721	R 1.083	R 2.804
	0	R.694	.188	R .892	.474	^R 1.367	R .974	2.341
April May		R .463	.174	R .645	.489	R 1.134	^R 1.078	R 2.212
		P .302	.191	R.500	.567	^R 1.068	R 1.214	2,282
June	D	B .279	.159	R.462	.662	R 1.124	R 1.489	R 2.614
July		R .265	.188	R .474	.709	R 1.183	^R 1.555	R 2.738
August			.174	.484	.612	1.095	1.158	2.253
September 9-Month Total		.287 5.745	1.749	7.622	5.165	12.787	10.842	23.629
				7 764	5.032	12.793	10.581	23.374
1994 9-Month Total 1993 9-Month Total		5.926 5.766	1.735 1.633	7.761 7.496	4.892	12.793	10.299	22.687

sectors (primarily the residential sector) is not included.

R=Revised data.

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

Additional Notes and Sources: See end of section.

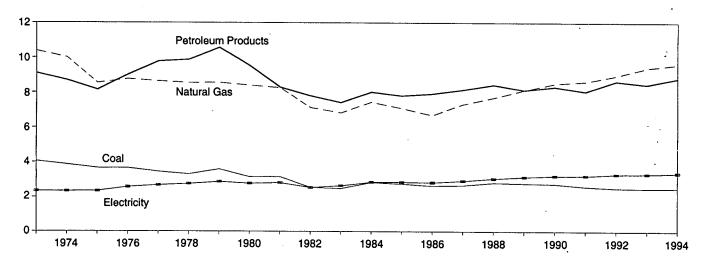
 $^{^{\}rm a}$ Includes supplemental gaseous fuels. $^{\rm b}$ Products obtained from the processing of crude oil (including lease

condensate), natural gas, and other hydrocarbon compounds.

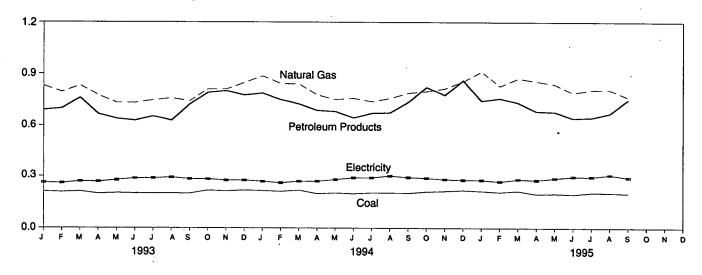
^c Due to a lack of consistent historical data, some renewable energy sources are not included. For example, in 1992, an estimated 0.7 quadrillion Btu of renewable energy consumed by the U.S. residential and commercial

Figure 2.3 Industrial Energy Consumption

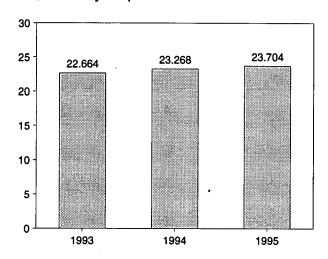
By Major Sources, 1973-1994



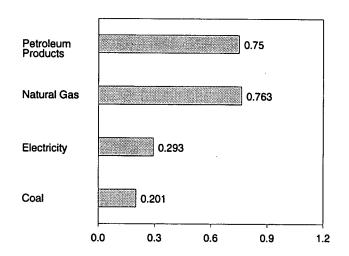
By Major Sources, Monthly



Total, January-September



By Major Sources, September 1995



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

Table 2.4 Industrial Energy Consumption

		Natural	Petroleum	Hydro- electric	Net Imports of Coal	Primary		Net	Electrical System Energy	Total
	Coal	Gasa	Products ^b	Power	Coke	Consumption	Electricity	Consumption	Losses	Consumption
973 Total	4.057	10.388	9.104	0.035	-0.007	23.576	2.341	25.917 24.994	5.611 5.700	31.528 30.694
974 Total	3.870	10.004	8.694	.033	.056	22.657	2.337	24.994 22.737	5.665	28.402
975 Total	3.667	8.532	8.146	.032	.014	20.391	2.346 2.573	24.038	6.198	30.236
976 Total	3.661	8.762	9.010	.033	(8)	21.465	2.573	24.593	6.484	31.077
977 Total	3.454	8.635	9.774	.033	.015	21.911	2.761	24.637	6.755	31.392
978 Total	3.314	8.539	9.867	.032	.125	21.876	2.761	25.679	6.936	32.616
979 Total	3.593	8.549	10.568	.034	.063	22.807 21.073	2.873 2.781	23.854	6.752	30.606
980 Total	3.155	8.395	9.525	.033	035	19.715	2.701	22.533	6.707	29.240
981 Total	3.157	8.257	8.285	.033	016	17.479	2.542	20.020	6.125	26.145
982 Total	2.552	7.121	7.794	.033	022	16.753	2.648	19.401	6.359	25.759
983 Total	2.490	6.826	7.420	.033	016 011	18.325	2.859	21.184	6.683	27.867
984 Total	2.842	7.448	8.014	.033		17.665	2.855	20.520	6.694	27.214
985 Total	2.760	7.080	7.805	.033	013 017	17.267	2.834	20.101	6.529	26.630
986 Total	2.640	6.690	7.920	.033		18.188	2.928	21.116	6.710	27.826
987 Total	2.673	7.323	8.150	.033 .033	.009 .040	19.026	3.059	22.085	6.901	28.986
988 Total	2.828	7.696	8.430 8.133	.033	.030	19.113	3.158	22.272	7.082	29.353
989 Total	2.787	8.131		.033	.005	19.615	3.226	22.841	7.095	29.936
990 Total	2.756	8.502 8.619	8.319 8.057	.033	.009	19.319	3.230	22.549	7.021	29.570
991 Total 992 Total	2.601 2.515	8.967	8.638	.033	.027	20.180	3.319	23.498	7.079	30.577
993 January	.213	R .832	.690	.003	.004	R 1.742	264	R 2.006	.562	R 2.567
February	.209	R.794	.699	.003	(s)	^R 1.703	.261	^R 1.964	.524	^R 2.489
March	.213	R .833	.760	.003	.003	^R 1.812	.271	R 2.084	.566	R 2.649
April	.200	R .775	.666	.003	.002	^R 1.646	.269	^R 1.915	.540	R 2.455
May	.204	^R .731	.638	.003	.002	^R 1.578	.278	R 1.857	.606	H 2.463
June	.202	^R .731	.628	.003	.003	R 1.566	.288	R 1.854	.639	R 2.493
July	.202	R .746	.652	.003	(s)	^R 1.603	.289	R 1.892	.645	R 2.537
August	.202	^R .758	.628	.002	.002	^R 1.592	.294	R 1.886	.637	R 2.523
September	.201	^R .741	.722	.002	001	R 1.665	.284	^R 1.949	.539	H 2.488
October	.218	R.811	.790	.002	.001	^H 1.823	.283	R 2.106	.572	R 2.678
November	.214	R.811	.800	.002	(s)	^R 1.827	.277	R2.104	.587	^R 2.691 ^R 2.717
December	.219	R .848	.776	.002	.002	R 1.846	.277	R 2.123	.595	R 30.753
Total	2.496	R 9.410	8.453	.032	.017	^R 20.409	3.334	R 23.743	7.010	
994 January	.216	R .887	.787	.003	.004	R 1.897	.270	R 2.168	^R .576 ^R .510	^R 2.744 ^R 2.578
February	.212	R .843	.749	.003	001	R 1.806	.262	^R 2.068 ^R 2.060	.573	R 2.633
March	.219	R .841	.724	.003	.002	R 1.789	.271	R 1.941	R .556	R 2.497
April	.200	R .777	,687	.003	.003	R 1.670	.271	R 1.923	.619	R 2.541
May	.204	R .751	.681	.003	.002	^R 1.642 ^R 1.608	.281 .292	R 1.900	.656	R 2.555
June	.200	R .758	.644	.003	.003		.292	R 1.908	R .625	R 2.533
July	.205	R .738	.671	.003	(s)	^R 1.616 ^R 1.641	.302	1.943	R .650	^R 2.593
August	.205	R .758	.674	.002	.002	R 1.731	.302	2.026	.568	R 2.593
September	.203	^R .788 ^R .798	.735 .823	.002 .002	.003	R 1.840	.294	R 2.130	.589	R 2.719
October	.211	P.815		.002	001	R 1.807	.282	R 2.089	.592	R 2.681
November	.214 .219	R.856	.777 .862	.002	.002	R 1.941	.279	R 2.220	.594	R 2.814
Total	2.510	^R 9.609	8.813	.032	.024	R 20.988	3.386	R 24.374	^R 7.108	R 31.482
995 January	.214	^R .914	.743	.003	.004	^R 1.878	.278	^R 2.156	.581	2.737
February	.208	R .829	.758	.003	.002	^R 1.799	.270	R 2.070	.529	^R 2.599
March	.215	R .873	.732	.003	.003	^R 1.825	.282	^R 2.107	.587	^R 2.694
April	.198	H.857	.682	.003	.001	R 1.742	.278	^R 2.020	.572	R 2.592
May	.200	R .839	.679	.003	.004	^R 1.726	.289	^R 2.016	.638	R 2.653
June	.196	H.790	.642	.003	.001	R 1.633	.298	^R 1.931	638	R 2.569
July	R .206	H .807	.646	.003	.002	^R 1.663	.296	1.959	R.665	R 2.624
August		R .807	.670	.002	.001	^R 1.686	.308	^R 1.994	.676	R 2.670
September	.201	.763	.750	.002	.002	1.718	.293	2.011	.555	2.567
9-Month Total	1.845	7.480	6.301	.026	.020	15.671	2.593	18.264	5.439	23.704
994 9-Month Total	1.865	7.141	6.351	.026	.017	15.399	2.535	17.935	5.333	23.268
1993 9-Month Total	1.845	6.940	6.084	.026	.014	14.909	2.498	17.407	5.257	22.664

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.

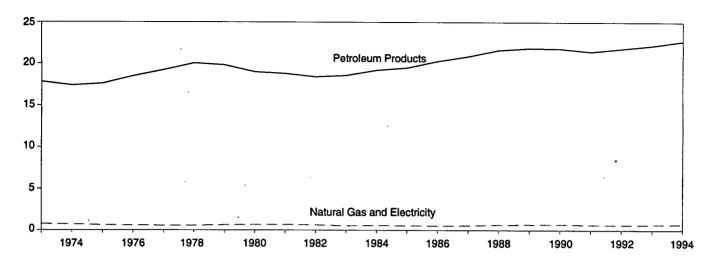
R=Revised data. (s)=Less than +0.5 trillion Btu and greater than -0.5 trillion Btu.

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

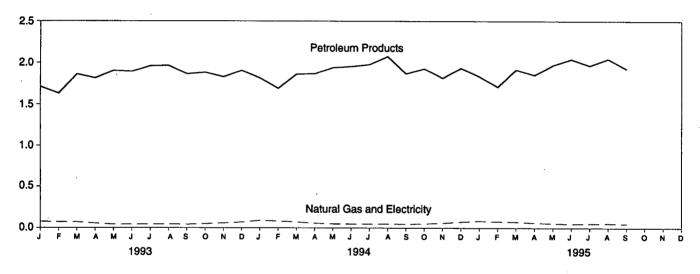
Additional Notes and Sources: See end of section.

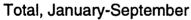
Figure 2.4 Transportation Energy Consumption

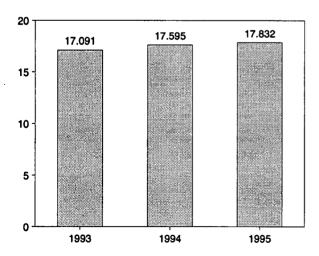
By Major Sources, 1973-1994



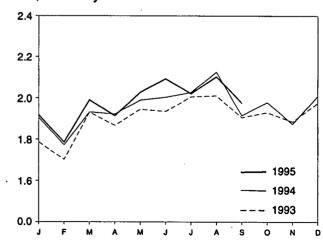
By Major Sources, Monthly







Total, Monthly



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

Table 2.5 Transportation Energy Consumption

	Coal	Natural Gas ^a	Petroleum Products ^b	Primary Consumption	Electricity	Net Consumption	Electrical System Energy Losses	Total Consumption ^c
				· · · · · · · · · · · · · · · · · · ·	<u>. </u>			
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		.539	20.041	20.580	.009	20.589	.022	20.611 20.472
1979 Total	(d)	.612	19.825	20.436	.010	20.447	.025	19.695
1980 Total	(a)	.650	19.008	19.658	.011	19.669	.026	19.507
1981 Total	(ď)	.658	18.811	19.469	.011	19.480	.026 .026	19.069
1982 Total	(d)	.612	18.420	19.032	.011	19.043	.026	19.135
1983 Total	(d)	.505	18.593	19.098	.011	19.109 19.773	.028	19.801
1984 Total		.545	19.216	19.761	.012		.030	20.067
1985 Total	(þ)	.519	19.504	20.024	.013	20.036 20.781	.030	20.812
1986 Total	(d)	.499	20.269	20.768	.013		.029	21.448
1987 Total	(d)	.535	20.871	21.406	.013	21.419 22.274	.029	22.305
1988 Total	(a)	.632	21.629	22.260	.014	22.274 22.530	.031	22.561
1989 Total	(d)	.649	21.868	22.517	.014 .014	22.530 22.504	.031	22.535
1990 Total	(d)	.680	21.810	22.490	.014	22.090	.030	22.120
1991 Total		.620	21.456	22.076	.014	22.432	.029	22.461
1992 Total	(ď)	.606	21.812	22.418	.014	22.432	.020	22.401
4002 January	/d\	.074	1.710	1.784	.001	1.785	.002	1.787
1993 January	} d (.070	1.629	1.699	.001	1.700	.002	1.702
February March	} d {	.069	1.859	1.927	.001	1.928	.002	1.931
April	} a{	.053	1.812	1.865	.001	1.866	.002	1.868
May		.040	1.902	1.942	.001	1.943	.002	1.945
June	: A :	.040	1.891	1.931	.001	1.933	.002	1.935
July		.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		.040	1.862	1.902	.001	1.903	.002	1.906
October	(a)	.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	^R 1.973	.001	1.974	.002	1.976
Total	: 4:	.642	22.201	22.842	.013	22.856	.028	22.883
	(d)	Р	4.040	R 1.901	.001	^R 1.902	.002	^R 1.905
1994 January	` \a'	R .088	1.813	R 1.770	.001	R 1.771	.002	R 1.773
February	, (4)		1.690	R 1.929	.001	R 1.930	.002	^R 1.932
March	, , , , ,	R .070 R .056	1.859	R 1.919	.001	R 1.920	.002	R 1.922
April	' \a!		1.864	R 1.987	.001	R 1.988	.002	R 1.990
May	' \a!	^H .047 ^R .047	1.940 1.954	R 2.001	.001	R 2.002	.003	R 2.004
June	' \a!	R .046	1.977	R 2.024	.001	R 2.025	.003	R 2.027
July	, , , ,	R.047	1.977 2.075	R 2.123	.001	R 2.124	.003	R 2.126
August	· \a!	R .045	1.866	R 1.911	.001	R 1.912	.002	^R 1.915
September	· \a!	R _{.049}	1.928	R 1.977	.001	R 1.978	.002	R 1.980
October	, (4)	R .058	1.813	R 1.871	.001	R 1.872	.002	^R 1.875
November December	. ()	R .072	1.935	R 2.007	.001	R 2.008	.002	^R 2.010
Total	· \a/	R .705	22.714	R 23.420	.013	R 23.433	.028	R 23.461
Utal	. ()							_
1995 January	. (^d)	R.082	1.832	R 1.913	.001	^R 1.915	.002	R 1.917
February	/ d \	^R .075	1.708	^R 1.783	.001	^R 1.784	.002	^R 1.786
March	` }d(R .072	1.916	^R 1.988	.001	R 1.989	.002	R 1.991
April	/ 0 \	R .061	1.850	^R 1.911	.001	^R 1.912	.002	R 1.914
May	(4)	R .054	1.970	R 2.024	.001	^R 2.025	.002	R 2.027
June	` }d(R 048	2.043	^R 2.091	.001	R 2.092	.002	R 2.094
July	/ d \	R .051	1.966	^R 2.017	.001	R 2.018	.003	R 2.021
August	(0)	R .053	2.047	^R 2.100	.001	^R 2.101	.003	R 2.104
September	. (d)	.047	1.927	1.974	.001	1.975	.002	1.977
9-Month Total		.542	17.258	17.801	.010	17.811	.021	17.832
			47.000	47 564	010	17 E7A	.021	17.595
1994 9-Month Total 1993 9-Month Total	3 4 5	.526 .471	17.038 16.589	17.564 17.060	.010 .010	17.574 17.070	.021	17.091

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.

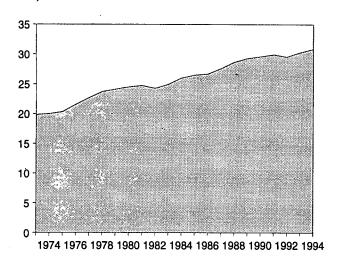
R=Revised data. (s)=Less than 0.5 trillion Btu.

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

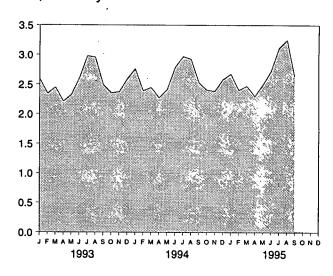
Additional Notes and Sources: See end of section.

Figure 2.5 Energy Input at Electric Utilities

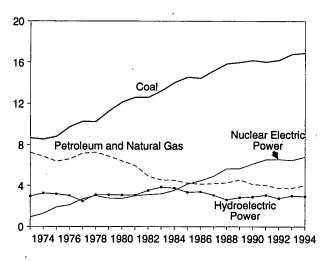
Total, 1973-1994



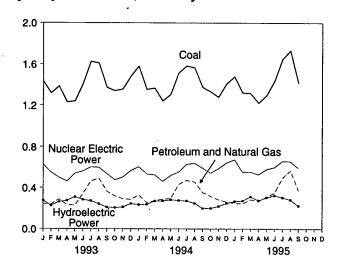
Total, Monthly



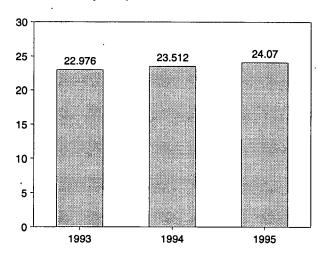
By Major Sources, 1973-1994



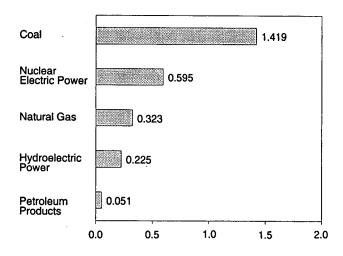
By Major Sources, Monthly



Total, January-September



By Major Sources, September 1995



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

Table 2.6 Energy Input at Electric Utilities

		Natural	Petroleum	Nuclear Electric	Hydro- electric	Geothermal Energy	Other ^d	Total
	Coal	Gas ^a	Products ^b	Power	Powerc	Ellergy	Other	10101
	8.658	3.748	3.515	0.910	2.975	0.043	0.003	19.852
73 Total	8.534	3.519	3.365	1.272	3.276	.053	.003	20.022
74 Total		3.240	3.166	1.900	3.187	.070	.002	20.350
75 Total	8.786	3,152	3.477	2.111	3.032	.078	.003	21.574
76 Total	9.720		3.901	2.702	2.482	.077	.005	22.713
77 Total	10.262	3.284		3.024	3.110	.064	.003	23.724
78 Total	10.238	3.297	3.987		3.107	.084	.005	24.128
79 Total	11.260	3.613	3.283	2.776		,110	.005	24.50
80 Total	12.123	3.810	2.634	2.739	3.085		.003	24.760
81 Total	12.583	3.768	2.202	3.008	3.072	.123		24.270
82 Total	12.582	3.342	1.568	3.131	3.539	.105	.003	
983 Total	13.213	2.998	1.544	3.203	3.866	.129	.004	24.95
84 Total	14.020	3.220	1.286	3.553	3.767	.165	.009	26.020
	14.542	3.160	1.090	4.149	3.365	.198	.015	26.519
985 Total	14.444	2.691	1.452	4.471	3.413	.219	.012	26.70
986 Total		2.935	1.257	4.906	3.084	.229	.016	27.60
987 Total	15.173			5.661	2.630	.217	.017	28.64
988 Total	15.850	2.709	1.563	5.677	2.848	.197	.020	29.28
989 Total	15.988	2.871	1.685			.181	.021	29.59
990 Total	16.189	2.882	1.250	6.161	2.914	.170	.021	29.91
991 Total	16.028	2.856	1.178	6.579	3.083		.022	29.54
992 Total	16.211	2.826	.951	6.607	2.760	.170	.022	25.54
003 January	1.432	.168	.077	.631	.275	.014	.002	2.59
993 January	1.317	.165	.074	.548	.226	.013	.002	2.34
February		.198	.090	.498	.263	.014	.002	2.45
March	1.384		.055	.461	.275	.014	.002	2.21
April	1.230	.178		.538	.310	.012	.001	2.32
May	1.239	.171	.056		.284	.012	.001	2.60
June	1.406	.260	.083	.562		.012	.001	2.97
July	1.625	.341	.121	.604	.272		.002	2.95
August	1.609	.365	.126	.600	.242	.014		2.49
September	1.372	.264	.102	.534	.210	.013	.002	
October	1.340	.240	.080	.475	.205	.013	.002	2.35
November	1.356	.213	.079	.501	.211	.013	.002	2.37
December	1.480	.178	.108	.567	.245	.013	.002	2.59
Total	16.790	2.741	1.052	6.519	3.017	.158	.021	30.29
	B 4 570	174	.155	.607	.234	.013	.002	R 2.76
994 January	R 1.579	.174			.238	.012	.002	R 2.39
February	^R 1.353	.152	.103	.532		.012	.002	R 2.44
March	^R 1.366	.190	.084	.523 '	.271		.002	R 2.27
April	R 1.241	.208	.081	.461	.272	.012		R 2.41
May	^R 1.304	.221	.074	.518	.283	.012	.002	
June	R 1.512	.326	.106	.553	.277	.011	.002	R 2.78
July	R 1.581	.370	.100	.632	.272	.012	.002	R 2.96
•	R 1.565	.391	.064	.642	.249	.013	.002	R 2.92
August	R 1.374	.302	.053	.594	.199	.012	.002	R 2.53
September	R 1.332	.270	.048	.542	.200	.012	.002	R 2.40
October	R 4 070		.047	.590	.219	.012	.002	R 2.38
November	R 1.279	.236		.646	.250	.012	.002	R 2.58
December Total	R 1.409 R 16.895	.212 3.053	.052 .968	6.841	2.964	.145	.020	R 30.88
[Via]						200	001	R 2.67
1995 January	^R 1.477	.203	.046	.677	.267	.009	.001	R 2.4
February	R 1.322	.172	.075	.554	.274	.006	.001	R 2.4
March	^R 1.316	.251	.034	.554	.313	.007	.001	R 0 0
April	R 1.222	.234	.036	.527	.276	.006	.002	R 2.3
May	R 1.295	.263	.047	.581	.305	.005	.001	R 2.49
June	R 1.434	.303	.048	.602	.326	.006	.001	R 2.72
	R 1.648	.414	.079	.663	.306	.006	.002	R 3.1
July			.091	.659	.283	.011	.002	R 3.2
August	R 1.730	.477		.595	.225	.008	.002	2.6
September	1.419	.323	.051 .506	5.411	2.57 5	.064	.012	24.0
9-Month Total	12.862	2.640	.500	3.411	2.0.0			
1994 9-Month Total	12.875	2.334	.821	5.063	2.296	.109	.015	23.5
	12.614	2.110	.785	4.977	2.356	.119	.015	22.9

R=Revised data.

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

Additional Notes and Sources: See end of section.

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.

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.
 - 1980-1994: EIA, Natural Gas Annual.
 - 1995: 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 imports² averaged 8.5 million barrels per day in October 1995, 13 percent lower than the previous month's rate and 4 percent³ lower than the October 1994 rate.

In October 1995, 17.9 million barrels per day of petroleum products were supplied for domestic use, 1 percent higher than the October 1994 rate. Motor gasoline accounted for 44 percent of the total; distillate fuel oil, 18 percent; and residual fuel oil, 5 percent.

Motor gasoline supplied during October 1995 averaged 7.9 million barrels per day, 1 percent higher than the previous month's rate and 4 percent higher than the October 1994 rate. Total motor gasoline stocks were 196 million barrels at the end of October 1995, 3 million barrels below the stock level in the previous month and 5 million barrels below the stock level 1 year earlier.

Distillate fuel oil supplied during October 1995 averaged 3.3 million barrels per day, slightly higher than the previous month's rate and 7 percent higher than the October 1994 rate. Distillate fuel oil ending stocks for October 1995 were 130 million barrels, 2 million barrels below the stock level in the previous month and 16 million barrels below the level 1 year earlier.

Residual fuel oil supplied in October 1995 averaged 0.8 million barrels per day, 2 percent lower than the previous month's rate and 4 percent lower than the October 1994 rate. Residual fuel oil stocks measured 39 million barrels at the end of October 1995, 1 million barrels below the stock level in the previous month and 4 million barrels below the stock level 1 year earlier.

An update to Section 3 was not available in time for inclusion in this issue of the Monthly Energy Review.

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 July 1995.

²Total import data include imports into the Strategic Petroleum Reserve.

³Percentage 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 Productio	n <u>.</u>	Stock	Change ^a		Ending Stocksb
	Total Domestic ^c	Crude Oil	Natural Gas Plant Liquids	Crude Oil ^d	Petroleum Products	Petroleum Products Supplied	Crude Oli ^d and Petroleum Products
			Thousand Ba	rrels 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	⁶ 1,074
975 Average	10,045	8,375	1,633	⁶ 17	^e 15	16,322	1,133
976 Average	9,774	8,132	¹ 1,604	39	-96	17,461	1,112
977 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 0.507	1,584	148	25	18,513	1,341
1980 Average	10,214	8,597 9,572	1,573	98 ⁶ 290	42 ^e -130	17,056	⁶ 1,392
1981 Average	10,230 10,252	8,572 8,649	1,609 1,550	136	-283	16,058 15,296	1,484 ⁶ 1,430
1982 Average	10,299	8,688	1,559	⁶ 214	e-234	15,231	1,454
1984 Average	10,554	8.879	1,630	199	81	15,726	1,556
1985 Average	10,636	8,971	1,609	50	-153	15,726	1,519
1986 Average	10,289	8,680	1,551	78	124	16,281	1,593
1987 Average	10,008	8,349	1,595	128	-87	16,665	1,607
1988 Average	9,818	8,140	1,625	1	-29	17,283	1,597
1989 Average	9,219	7,613	1,546	86	-129	17,325	1,581
1990 Average	8,994	7,355	1,559	-35	142	16,988	1,621
1991 Average	9,168	7,417	1,659	-42	32	16,714	1,617
1992 Average	8,996	7,171	1,697	-1	-68	17,033	⁶ 1,592
1993 January	⁹ 9,254	6,961	1,737	295	^e 560	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	573 407	17,096 17,057	1,667
July	8,657	6,688 6.759	1,741	-505	497 299	17,357	1,682
August	8,720 8,652	6,758 6,712	1,747 1,732	-505 -439	299 86	17,332 17,650	1,676 1,665
September 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 October	8,670 8,683	6,609	1,792	227 255	579 607	17,490	1,684
November	8,758	6,658 6,628	1,748 1,815	255 102	-607 380	17,719	1,673
December	8,842	6,760	1,807	-292	-813	17,315 18,319	1,687 1,653
Average	8,645	6,662	1,727	18	-2	17,718	1,653
1995 January	E 8.664	E 6.596	1,773	-279	-117	17,167	1,641
February	E 8.832	E 6.703	1,774	-48	-1,315	18,355	1,603
March	E 8,625	E 6,606	1,773	344	-484	17,403	1,599
April	E 8.680	^E 6,561	1,789	-101	123	17,102	1,600
May	E 8,663	E 6,572	1,785	-111	494	17,241	1,611
June	E 8,568	E 6,540	1,740	-135	39	18,149	1,609
July	E 8,500	E 6,449	1,751	-415	885	17,113	1,623
August	E 8,511	E 6,462	1,730	-247	-71 Page	17,993	1,613
September	RE 8,444	RE 6,380	R 1,773	R-62	R 222	R 18,011	R 1,618
October	E 8,491	PE 6,441	E 1,742	E 100 E -96	^E -656 ^E -7 8	E 17,868	E 1,605
10-Month Average	E 8,596	PE 6,530	E 1,763	96	78	^E 17,632	E 1,605
1994 10-Month Average	8,614	6,655	1,710	41	43	17,697	1,673
1993 10-Month Average	8,852	6,839	1,758	78	238	· 17,110	1,688

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

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, November 1995, Table S1.

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.

See Note 4 at end of section.

See Note 6 at end of section. 9 Beginning in 1993, includes fuel ethanol blended into finished motor

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

		Imports			Exports		
	Total	Crude . Oil ^a	Petroleum Products	Total	Crude Oll	Petroleum Products	Net Imports ^t
			The	ousand Barrels p	er Day		
73 Average	6,256	3,244	3,012	231	2	229	6,025
74 Average	6,112	3,477	2,635	221	3	218	5,892
75 Average	6,056	4,105	1,951	209	6	204	5,846
76 Average	7,313	5,287	2,026	223	8	215	7,090
977 Average	8,807	6,615	2,193	243	50	193	8,565
978 Average	8,363	6,356	2,008	362	158	204	8,002
979 Average	8,456	6,519	1,937	^C 471	235	^c 236	^c 7,985
80 Average	6,909	5,263	1,646	544	287	258	6,365
981 Average	5,996	4,396	1,599	595	228	367	5,401
82 Average	5,113	3,488	1,625	815	236	579	4,298
983 Average	5,051	3,329	1,722	739	164	575	4,312
984 Average	5,437	3,426	2,011	722	181	541 577	4,715
985 Average	5,067	3,201	1,866	781	204	577	4,286
186 Average	6,224	4,178	2,045	785 764	154	631 613	5,439 5,914
987 Average	6,678	4,674	2,004	764	151 155	661	6,587
988 Average	7,402	5,107	2,295	815 859	142	717	7,202
989 Average	8,061	5,843 5,804	2,217	857	109	748	7,161
990 Average	8,018	5,894 5,700	2,123	1.001	116	885	6,626
991 Average	7,627	5,782	1,844	950	89	861	6,938
992 Average	7,888	6,083	1,805				
993 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
Average	8,645 8,620	6,838 6,787	1,807 1,833	1,250 1, 003	63 98	1,188 904	7,394 7,618
994 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
995 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 7,070	1,612	948	68	880	8,073
April	8,486	7,073	1,413	998	155	842	7,488
May	8,736 0.505	7,354 7,057	1,382	876 010	73 101	803	7,860
June	9,585	7,957 7,955	1,629	919 804	101	818 702	8,666 7,950
July	8,845 9.024	7,265 7,415	1,579 1,609	894 821	103 61	792 759	7,950
August	9,024 R 9,726	7,415 R _. 8,041	1,609 P 1,685	821 8805	P 75	759 R 731	8,203 R 8,921
September	E 8,453	E7,003	E 1,451	E 805	E 88	E718	E 7,648
October 10-Month Average	E 8,819	E7,261	E 1,558	E 909	E 93	E 816	E 7,910
994 10-Month Average	9,038	7,053	1,985	909	96	813	8,129
	8,590	6,761	1,829	980	· 105	875	7,610

^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

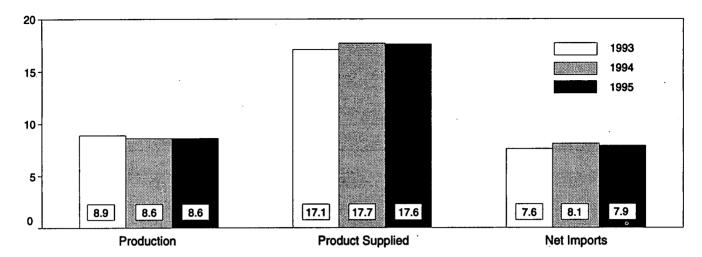
of components due to independent rounding. • Geographic coverage is the 50 States and the District of Columbia.

Sources: • 1973-1980: Energy Information Administration (EIA), Petroleum Supply Monthly, February 1993, Table S1. • 1981 forward: EIA, Petroleum Supply Monthly, November 1995, Table S1.

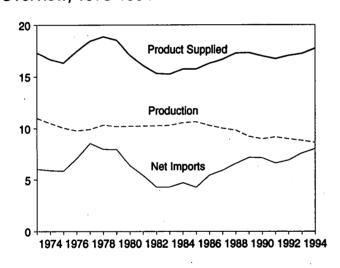
Figure 3.1 Petroleum Overview

(Million Barrels per Day)

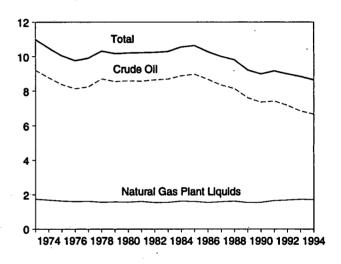
Overview, January-October



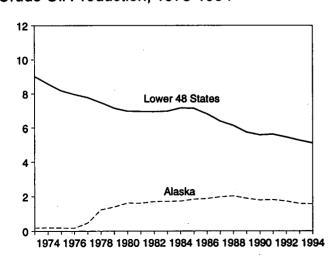
Overview, 1973-1994



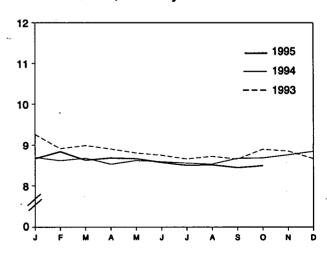
Production, 1973-1994



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.

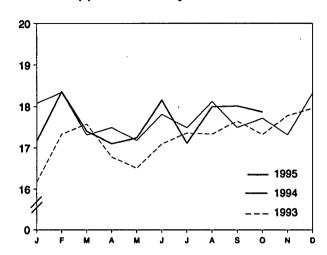
Figure 3.1 Petroleum Overview (Continued)

(Million Barrels per Day, Except as Noted)

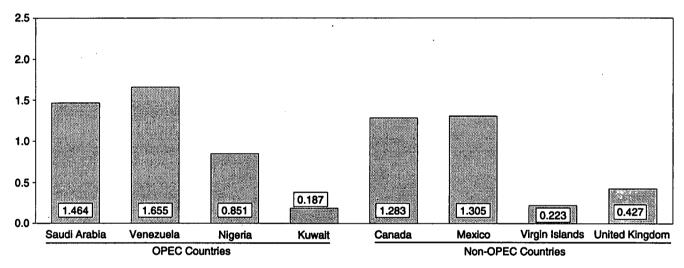
Product Supplied, 1973-1994

Total 10 Motor Gasoline Distillate Fuel 1974 1976 1978 1980 1982 1984 1986 1988 1990 1992 1994

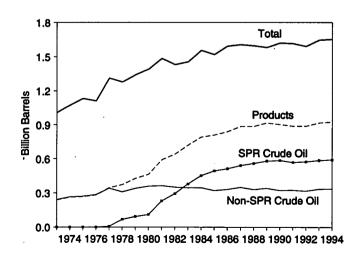
Product Supplied, Monthly



Imports from Selected Countries, October 1995

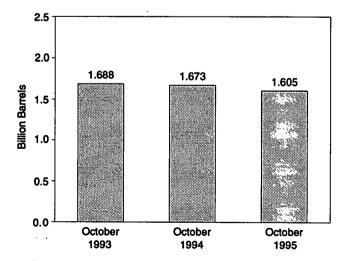


Stocks, End of Year, 1973-1994



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

Total Stocks, End of Month



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

Table 3.2a Crude Oil Supply and Disposition: Supply

<u> </u>				Supply			
	Field Pro	oduction		Imports		Unaccounted-	Crude Oi
	Total Domestic	Alaskan	Total	SPRa	Other	for Crude Oilb	Used Directly ⁰
-	Domesuc	Alaskan		ousand Barrels per	<u> </u>		
	0.000	100	3,244	_	3,244	3	-19
973 Average 974 Average	9,208 8,774	198 193	3,477	_	3,477	-25	-15
975 Average	8,375	191	4,105	_	4,105	17	-17
976 Average	8,132	173	5,287	_	5,287	77	^d -19
77 Average	8,245	464	6,615	. 21	6,594	-6	14
78 Average	8,707	1,229	6,356	^d 161	6,195	-57	d-15
79 Average	8,552	1,401	6,519	67	6,452	-11	d-14
980 Average	8,597	1,617	5,263	44	5,219	34	d -14
981 Average	8,572	1,609	4,396	256	4,141	83	-58
982 Average	8,649	1,696	3,488	165	3,323	71	-59
983 Average	8,688	1,714	3,329	234	3,096	114	_
984 Average	8,879	1,722	3,426	197	3,229	185	_
85 Average	8,971	1,825	3,201	118	3,083	145	-
986 Average	8,680	1,867	4,178	48	4,130	. 139	_
987 Average	8,349	1,962	4,674	73	4,601	145	-
88 Average	8,140	2,017	5,107	51	5,055	196	_
989 Average	7,613	1,874	5,843	56	5,787	200	_
990 Average	7,355	1,773	5,894	27	5,867	258 195	_
991 Average	7,417 7,171	1,798 1,714	5,782 6,083	0 10	5,782 6,073	258	_
992 Average	7,171	•	ŕ		•		
993 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	293 236	_
July	6,688	1,441	7,289	0	7,289	236	
August	6,758	1,528	6,641	34	6,641 6.547	224	
September	6,712	1,471	6,581	0	7,181	109	_
October	6,839	1,610	7,181 e 007	ŏ	6.997	106	_
November	6,912	1,670 1,671	6,997 6,838	ŏ	6,838	-98	_
Average	6,858 6,847	1,582	6,787	15	6,772	168	-
_	•		5,945	0	5,945	734	_
994 January	6,817 6,770	1,658 1,597	6,313	ŏ	6,313	77	_
February	6,770 6,746	1,583	6,372	99·	6,273	242	_
March	6,746	1,503	6,955	31	6,925	302	_
April	6,612 6,688	1,578	7,198	0	7,198	260	_
May	6,611	1,517	7,358	17	7,341	393	_
June July	6,501	1,495	7,857	Ö	7,857	226	_
August	6,544	1,500	7,488	Ŏ	7,488	409	_
	6,609	1,514	7,868	Ō	7,868	54	_
October	6,658	1,604	7,136	Ó	7,136	136	-
November	6,628	1,518	7,034	Ō	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	-
995 January	E 6,596	E 1,575	6,503	<u>o</u>	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	E 6,572	E 1,518	7,354	0	7,354	343	-
June	E 6,540	E 1,484	7,957	0	7,957	42	-
July	E 6,449	E 1,401	7,265	0	7,265	360	-
August	E 6,462	E 1,432	7,415	0	7,415 Books	189 R (s)	_
September	RE 6,380	RE 1,377	R 8,041	E 0	R 8,041	н (s) E 425	-
October	PE 6,441 PE 6,530	PE 1,478 PE 1,487	^E 7,003 ^E 7,261	€0	^E 7,003 ^E 7,261	E 201	_
10-Month Average	- 6,530	- 1,407			ŕ		-
994 10-Month Average	6,655	1,555	7,053	15 10	7,038 6 743	286 202	-
993 10-Month Average	6,839	1,564	6,761	18	6,743	202	_

^a Strategic Petroleum Reserve.

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

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

Petroleum Supply Monthly, November 1995, Table S2.

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.

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

			Disp	osition			. E	nding Stock	8 ⁸
	Crude	Stock	Change ^b	Refinery		Product			Other
	Losses	SPRC	Other	Inputs	Exports	Supplied ^d	Total	SPRC	Primary
			Thousand I	Barrels per Day				Million Barrel	s
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
979 Average	16	67	81	14,648	235	_	430	91	, 339
980 Average	⁸ 14	45	, 52	13,481	287	-	1 466	108	1358
981 Average	5	336	f-46	12,470	228	_	594	230	363
982 Average	3	174	-38	11,774	236	_	⁹ 644	294	g 350
983 Average	2	234	9-20	11,685	164	66	723	379	344
984 Average	2	195	. 4	12,044	181	64	796	451	345
985 Average		117	-67	12,002	204	60	814	493	321
986 Average	(8)	50	28	12,716	154	49	843	512	331
987 Average	(8)	80	49	12,854	151	34	890	541	349
988 Average	(8)	52	-51	13,246	155	40	890	560	330
989 Average	(8)	56	30	13,401	142	28	921	580	341
990 Average	(8)	16	-51	13,409	109	24	908	586	323
991 Average	(8)	-47	5	13,301	116	18	893	569	325
1992 Average	(8)	17	. -18	13,411	89	13	893	575	318
993 January	(s)	19	276	12,938	129	10	902	575	327
February	(s)	18	201	12,865	166	10	908	576	332
March	`ó	58	154	13,200	139	11	915	578	337
April	(s)	136	387	13,538	73	9	930	582	349
May	ò'	13	134	13,829	112	10	935	582	353
June	Ŏ	21	-20	14,129	150	8	935	583	352
July	Ŏ	19	-13	14,136	62	9	935	583	352
August	Ŏ	24	-529	13,844	55	8	920	584	335
September	(s)	52	-491	13,841	107	8	906	586	321
October	`ó	19	309	13,729	62	10	917	586	330
November	Ö	18	233	13,686	67	10	924	587	337
December	ŏ	9	-62	13,571	63	16	922	587	335
Average	(8)	34	47	13,613	98	10	922	587	335
994 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	`ó	(s)	-253	14,272	118	9	923	591	332
June	(s)	16	-120	14,351	107	7	920	592	328
July	`ó	(s)	148	14,344	84	8	924	592	333
August	Ō	(s)	-129	14,491	72	7	920	592	329
September	0	`ó	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	(8)	13	5	13,866	99	9	929	592	337
995 January	o	(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	Ö	(s)	-101	13,816	155	7 .	926	592	335
May	0	(s)	-110	14,299	73	7	923	592	331
June	(s)	(s)	-135	14,568	101	5	919	592	327
July	(8)	(s)	-415	14,380	103	7	906	592	314
August	(s) ^R (s) ^E 0	(s)	-247	14,245	_ 61	6	898	592	_ 307
September	H (8)		^R -62	^R 14,402	R 75	_6	R 897	_ 592	^R 305
October	_EO	(s) = (s)	E 100	E 13,674	E 88	Ę7	E 896	E 592	E 305
10-Month Average	E (8)	E (8)	^E -96	E 13,987	E 93	E 7	^E 896	^E 592	E 305
994 10-Month Average	(8)	15	26	13,847	96	9	935	592	343

^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.

Strategic Petroleum Reserve.
 Beginning in January 1983, crude oil used directly as fuel is shown as product supplied.

See Note 6 at end of section.

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

⁹ See Note 4 at end of section.

R=Revised 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, November 1995, Table S2.

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

L.				Persiar	n Gulf ^a			
,	Bal	ırain	1	ran	ti	raq	Ku	waitb
	Total	Crude Oil	Total	Crude Oil	Total	Crude Oil	Total	Crude Oil
1973 Average	11	0	223	216	4	4	47	42
1974 Average	12	0	469	463	0	0	5	5
1975 Average	16	0	280	278	2	2	16	4
1976 Average	3	0	298	298	26	26	5	1
1977 Average	10	0	535	530	74	74	48	42
1978 Average	3	0	555	554	62	62	6	5
1979 Average	1	0	304	297	88	88	8	5
1980 Average	(8)	0	9	8	28	28	27	27
1981 Average	ìí	0	0	0	(8)	0	0	0
1982 Average	1	0	35	35	3	3	5	2
1983 Average	2	0	48	48	10	10	14	7
1984 Average	1	0	10	10	12	12	36	24
1985 Average	4	Ó	27	27	46	46	21	4
1986 Average	ž	ŏ	19	19	81	81	68	28
1987 Average	ō	ŏ	98	98	83	82	84	70
1988 Average	ž	ŏ	c (s)	c (s)	345	343	92	80
1989 Average	ō	ŏ	Ϋ́	`ó	449	441	157	155
1990 Average	ĭ	ŏ	ŏ	ŏ	518	514	86	79
1991 Average	2	Ŏ	32	32	0	0	6	6
1992 Average	ō	Ö	Ō	0	Ō	Ö	51	39
1993 January	0	0	0	0	Ō	0	144	129
February	0	. 0	0	0	0	0	251	229
March	9	0	0	0	0	0	316	300
April	0	0	0	0	0	0	279	279
May	0	0	0	0	0	0	222	222
June	0	0	0	0	0	0	235	235
July	0	0	0	. 0	0	0	368	362
August	0	0	0	0	0	0	467	451
September	0	0	0	0	0	. 0	445	431
October	0	0	0	0	0	0	530	526
November	0	0	0	0	0	0	486	470
December	0	0	0	0	0	0	484	484.
Average	1	0	0	0	0	0	353	344
1994 January	0	0	0	0	0	0	309 423	309 423
February	0	0	0	0	0	0	423 476	423 476
March	8	0	0	0	Ö	0		238
April	0	0	0	0	ŏ	0	261 , 362	362
May	0	0	-		•	-		
June	0	0	0	0	0	0	255 245	255 345
July	0	0	0	0	•	0	345 306	345 306
August	0	0	0	0	0	0	306 361	306 361
September	0	0	0	0	-	•		
October	0	0	0	0	0	0	165	148
November	0	0	0	0	0 -	0	249	240
Average	0 1	0 0	0 0	0 0	0 0	0 0	240 312	227 307
_	0	0	0	. 0	0	0	130	120
1995 January	11	ŏ	ŏ	. 0	Ö	ŏ	346	324
February	0	ŏ	ŏ	Ö	ŏ	ŏ	252	252
March	0	Ö	Ö	Ö	ŏ	Ö	171	164
April May	0	ŏ	Ö	Ö	ŏ	ŏ	208	204
	0	ŏ	ŏ	ŏ	ŏ	ŏ	260	259
June	0	ŏ	0	0	. 0	ŏ	195	195
July	0	0	0	0	0	Ö	180	175
August	0	0	Ö	0	0	ŏ	187	175
September 9-Month Average	1	0	0	0	0	0	213.	207
1994 9-Month Average	1	0	0	0	0	0	344	342
1993 9-Month Average	i	ŏ	ŏ	ŏ	· ŏ	ŏ	303	294

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.

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

⁽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: • Bahrain: Energy Information Administration (EIA), Form EIA-814, "Monthly Imports Report." • All Other Data: 1973-1980—EIA, Petroleum Supply Monthly, February 1993, Table S3. 1981 forward—EIA, Petroleum Supply Monthly, November 1995, Table S3.

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

				Persiar	Gulf ^a			
·	Q	atar	Saudi	Arabia ^b	United Ar	ab Emirates	To	otal ⁸
	Total	Crude Oil	Total	Crude Oil	Total	Crude Oil	Total	Crude Oil
973 Average	7	7	486	462	71	71	848	802
974 Average	17	17	461	438	74	69	1,039	992
975 Average	18	18	715	701	117	117	1,165	1,121
976 Average	24	24	1,230	1,222	254	. 254	1,840	1,825
977 Average	67	67	1,380	1,373	335	333	2,448	2,418
978 Average	64	64	1,144	1,142	385	385	2,219	2,212
979 Average	31	31	1,356	1,347	281	281	2,069	2,049
980 Average	22	22	1,261	1,250	172	172	1,519	1,508
981 Average	7	7	1,129	1,112	81	77	1,219	1,196
982 Average	7	7	552	530	92	81	696	659
	(8)	Ò	337	321	30	18	442	405
983 Average	5	4	325	309	117	90	506	450
984 Average	7	ŏ	168	132	45	35	311	244
985 Average	(8)	12	685	618	44	38	912	796
986 Average	13	0	751	642	61	56	1.077	949
87 Average	0	0		911	29	23	1,541	1,357
988 Average	0	-	1,073		29 28	23 21	1,861	1,734
989 Average	2	2	1,224	1,116		9		1,801
990 Average	4	4	1,339	1,195	17	-	1,966	•
991 Average	0	0	1,802	1,703	3	2	1,845	1,743
992 Average	1	. 0	1,720	1,597	6	0 .	1,778	1,636
993 January	0	0	1,688	1,571	0	0	1,831	1,700
February	0	0	1,626	1,480	0	0	1,877	1,709
March	6	0	1,479	1,349	0	0	1,811	1,649
April	0	0	1,644	1,515	17	17	1,940	1,811
May	ō	Ó	1,524	1,361	59	59	1,805	1,642
June	Ŏ	Ō	1,540	1.413	66	66	1,841	1,714
	ŏ	Ŏ	1.283	1,171	. 19	0	1,671	1,533
July	ŏ	ŏ	1,151	1.036	. 0	Ŏ	1,619	1,487
August	ŏ	ŏ	1,329	1,181	Ö	ŏ	1,774	1,612
September	0	ŏ	1,115	969	ŏ	ŏ	1,644	1,494
October	-	-	•		1	ŏ	1,767	1,621
November	0	0	1,281	1,152	ò	ŏ	1,814	1,689
December	0 1	0	1,330 1,414	1,205 1,282	14	12	1,782	1,637
Average	•		-	·			·	
994 January	0	0 0	1,320	1,175 1,023	0	0	1,630 1,493	1,484 1,446
February	0		1,071		ŏ	ŏ	1,617	1,531
March	0	0	1,132	1,055	4	. 0	1,851	1,666
April	0	0	1,586	1,428	0	. 0		1,757
May	0	0	1,438	1,394	-		1,800	•
June	0	0	1,395	1,277	0	0	1,650	1,533
July	0	0	1,414	1,310	53	53	1,812	1,708
August	0	0	1,363	1,271	0	0	1,669	1,577
September		Ō	1,486	1,364	40	40	1,887	1,766
October	0	0	1,601	1,500	38	23	1,804	1,671
November	0	0	1,477	1,357	0	0	1,726	1,597
December	0	0	1,526	1,388	15	15	1,781	1,631
Average	0	0	1,402	1,297	13	11	1,728	1,615
995 January	0	0	1,309	1,251	20	20	1,459	1,391
February	ŏ	Ŏ	1,181	1,134	13	13	1,550	1,471
March	ŏ	ŏ	1,535	1,410	0	Ō	1,788	1,662
April	ŏ	ŏ	1,375	1,321	ŏ	ō	1,547	1,485
May	ŏ	ŏ	1,281	1,237	Ŏ	Ŏ	1,490	1,441
. •	ŏ	ŏ	1,287	1,221	12	ĭ	1,558	1,481
June	0	ŏ	1,265	1,165	0	ò	1,460	1,360
July	-	ŏ			10	10	1,530	1,430
August	0	_	1,340	1,245		0		
September	0	0	1,464	1,357	29	-	1,680	1,539
9-Month Average	0	0	1,339	1,261	9	5	1,562	1,473
994 9-Month Average	· 0	0	1,358	1,257	11	10	1,714	1,609
1993 9-Month Average	1	0	1,472	1,340	18	16	1,795	1,650

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 caude oil produced by OPEC.

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, November 1995, Table S3.

that were refined from crude oil produced by OPEC.

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

⁽s)=Less than 500 barrels per day.

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

					Other	OPECa		·		
	Al	gerla .	Ecu	_{lador} b	Ga	ibon	Inde	onesia	L	ibya
·	Total	Crude Oil	Total	Crude Oil	Total	Crude Oil	Totai	Crude Oil	Total	Crude Oil
1973 Average	136	120	48	- 47	0	0	213	200	164	133
1974 Average	190	180	42	42	23	23	300	284	4	4
1975 Average	282	264	57	57	27	27	390	379	232	223
1976 Average	432	408	51	51 55	28	. 26	539	537	453	444
1977 Average	559 649	544 634	57 54	55 38	42 41	35 38	541 573	507 533	723 654	704 638
1978 Average1979 Average	636	608	42	30	42	30 42	420	380	658	642
1980 Average	488	456	27	17	26	25	348	314	554	548
1981 Average	311	261	48	38	35	35	366	318	319	317
1982 Average	170	90	42	32	40	40	. 248	226	26	23
1983 Average	240	176	61	56	59	59	338	315	0	0
1984 Average	323	194	55	47	58	57	343	304	1	0
1985 Average	187	84	67	56	52	51	314	292	4	0
1986 Average	271	78	77	64	26	25	318	297	0	0
1987 Average	295	115	29	23	35	35	285	262	0	. 0
1988 Average		58	47	33	16	15	205	186	0	0
1989 Average	269	60 63	89	80	50	49	183	158	0	0
1990 Average 1991 Average	280 253	44	49 63	38 53	64 84	64 84	114 111	98 102	0	0
1992 Average	196	24	65	62	124	123	78	70	0,	Ö
								•••	•	•
1993 January	153	28	(b)	(b)	90	89	37	37	0	Ō
February	256	0	(b)	(b)	88	88	52	51	0	. 0
March	· 185	7	(^D)	(₽)	126	123	, 67	64	0	0
April	258	26	(b)	(b)	127	127	76	76	0	0
May	228	3	(b)	(b)	169	169	.82	82	0	0
June	169	32	(6)	(5)	107	107	97	67	0	0
July	246	6	(5)	(5)	168	166	55	55	0	0
August	241 192	28 0	\ <u>b</u> {	\ <u>b</u> {	152 211	152 211	95 51	80 40	0	0
September October	317	80	\b\	}b{	242	242	131	82	Ö	. 0
November	222	52	}b{	}b{	143	136	74	34	ŏ	ŏ
December	169	25	įbί	}b{	191	191	156	114	ŏ	ŏ
Average	220	24	(b)	(b)	152	151	81	65	ŏ	Ŏ
1994 January	224	. 8	(b)	(b)	144	144	140	81	0	0
February	226	20	}b∫	}b{	212	208	103	59	ŏ	ŏ
March	278	Ŏ	(þ)	(b)	91	91	112	50	ŏ.	. ŏ
April	245	30	(b)	(b)	288	288	88	88	0	Ó
May	261	0	(P)	(P)	187	187	94	76	0	0
June	178	2	(B)	(E)	223	223	155	155	0	0
July	301	38	(6)	(6)	216	216	178	178	0	0
August	282	39	(b).	· (B)	142	142	119	112	0	0
September October	237 217	20 38	\ <u>b</u> \	}Б̃{ .	194 235	194 235	61 96	61 89	0	. 0
November	203	20	\b\	}b{	255 254	255 254	90 71	56	0	. 0
December	259	39	(b)	}b{	154	154	113	95	-0	0
Average	243	21	(b)	(b)	194	194	111	92	ŏ	Ŏ
1995 January	168	0	(b)	(b)	224	224	38	38	0	0
February	358	64	}b{	}b{	186	186	129	87	0	0
March	196	19	(b)	(b)	159	159	51	29	ŏ	ŏ
April	251	31	(Þ)	(b)	163	163	95	87	ŏ	ŏ
May	163	36	(þ)	(þ)	206	206	65	36	Ŏ	· 0
June	277	39	(b)	(b)	357	357	96	51	. 0	0
July	257	11	(b)	(b)	296	296	104	96	0	0
August	298	65	(b)	(b)	246	246	122	95	0	0
September	250	. 20	(b)	(B)	216	216	94	66	0	0
9-Month Average	245	31	(~)	(~)	228	228	88	65	0	0
1994 9-Month Average	249	17	(b)	(b)	188	187	117	96	0	0
1993 9-Month Average	214	14	įbί	įbί	138	137	68	61	Ŏ	ŏ

^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."

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, November 1995, Table S3.

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

1								
	Niç	jeria .	Vend	zuela	. т	otai		otal ECb
	Total	Crude Oil	Total	Crude Oil	Total	Crude Oll	Total	Crude Oil
973 Average	459	448	1,135	344	2,156	1,293	2,993	2,095
974 Average	713	697	979	319	2,253	1,549	3,280	2,540
	762	746	702	395	2,452	2,091	3,601	3,211
975 Average	1,025	1,014	700	241	3,229	2,721	5,066	4,545
976 Average	1,143	1,130	690	250	3,754	3,225	6,193	5,643
977 Average	919	910	646	181	3,536	2,972	5,751	5,184
978 Average	1.080	1,069	690	293	3,569	3,063	5,637	5,112
979 Average	857	841	481	156	2,781	2,356	4,300	3,864
980 Average	620	611	406	147	2,106	1,726	3,323	2,922
981 Average	514	510	412	155	1.451	1,075	2,148	1,734
982 Average		301	422	164	1,422	1,072	1,862	1,477
983 Average	302			253	1,544	1,062	2,049	1,512
984 Average	216	207	548	253 306		1,069	1,830	1,312
985 Average	293	280	605		1,522	1,317	2,837	2,113
986 Average	440	437	793	416	1,926			2,400
987 Average	535	529	804	488	1,983	1,451	3,060	
988 Average	618	607	794	439	1,981	1,339	3,520	2,696
989 Average	815	800	873	495	2,279	1,642	4,140	3,376
90 Average	800	784	1,025	666	2,332	1,713	4,296	3,514
91 Average	703	683	1,035	668	2,249	1,634	4,092	3,377
92 Average	681	665	1,170	826	2,313	1,770	4,092	3,406
993 January	729	729	1,397	1,038	2,407	1,920	4,238	3,620
February	927	913	1,296	925	2,619	1,976	4,496	3,685
March	928	892	1,173	835	2,480	1,921	4,282	3,570
April	892 `	871	1,314	1,023	2,667	2,122	4,608	3,934
May	760	741	1.264	992	2,504	1,988	4,309	3,630
June	848	827	1,292	999	2,512	2,032	4,353	3,746
	893	888	1,384	1,068	2,746	2.183	4,417	3,715
July	562	549	1.383	1,135	2.432	1,943	4,051	3,431
August	514	496	1,273	1,050	2,240	1,796	4,014	3,408
September	603	593	1,276	993	2,568	1,989	4,213	3,484
October		612	1,322	1,108	2,397	1,942	4,165	3,563
November	636			952	2,345	1,851	4,159	3,540
Average	598 740	569 722	1,230 1,300	1,010	2,343 2,493	1,972	4,273	3,609
				•	2.030	1,408	3,660	2,892
994 January	310	274	1,211	901				3,237
February	576	557	1,224	946	2,341	1,790	3,834	3,237
March	441	402	1,261	932	2,182	1,474	3,790	
April	631	621	1,303	1,035	2,556	2,062	4,408	3,728
May	732	730	1,334	1,022	2,608	2,014	4,409	3,771
June	842	837	1,469	1,088	2,868	2,305	4,518	3,838
July	703	694	1,296	1,029	2,694	2,154	4,506	3,861
August	1,037	1,010	1,255	982	2,834	2,284	4,503	3,861
September	578	578	1,428	1,106	2,498	1,959	4,386	3,725
October	569	559	1,385	1,101	2,501	2,022	4,304	3,693
November	485	478	1,432	1,084	2,445	1,891	4,171	3,488
December	739	739	1,405	1,183	2,671	2,210	4,451	3,840
Average	637	624	1,334	1,034	2,520	1,965	4,247	3,580
95 January	583	575	1,355	1,059	2,369	1,897	3,828	3,288
February	463	463	1,439	1,083	2,575	1,883	4,114	3,354
March	687	676	1,499	1,209	2,591	2,092	4,379	3,754
April	467	458	1,374	1,100	2,350	1,840	3,897	3,324
	603	592	1,498	1,193	2,535	2,064	4,025	3,505
May		696	1,479	1,209	2,905	2,352	4,463	3,833
June	696					2,332 2,276	4,363	3,636
July	711	711	1,536	1,162	2,903			3,460
August	482	463	1,447	1,162	2,596	2,030	4,126	
September	851	841	1,655	1,288	3,067	2,431	4,747	3,970
9-Month Average	617	609	1,476	1,163	2,654	2,097	4,215	3,570
994 9-Month Average	650	634	1,309	1,004	2,513	1,939	4,226	3,548
993 9-Month Average	782	766	1,309	1,008	2,511	1,987	4,305	3,637

⁸ 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 stilled from and each property of the Caribbean and Caribbea

are accounted for under "Other Non-OPEC" on Table 3.3h.

that were refined from crude oil produced by OPEC.

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

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, November 1995, Table S3.

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

						Non-O	PECª					
,	Ar	ngola	Au	stralia		hama ands	E	razil	Ci	anada		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	(8)	0
1974 Average	49	48	1	0	164	0	2	Ō	1,070	791	``0	Ŏ
1975 Average	75	71	5	0	152	0	5	0	846	600	0	0
1976 Average	12	. <u>7</u>	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 39	5 6	0	160	0	0	0	467	248	0	0
1979 Average	43 42	39 37	1	ŏ	147 78	0	1 3	0 1	538 455	271	13	13
1981 Average	49	45	5	ŏ	76 74	0	23	14	455 447	199 164	(8) 18	0
1982 Average	44	42	5	(s)	65	ŏ	23 47	19	482	214	40	8
1983 Average	78	71	4	(0)	125	ŏ	41	2	547	274	34	6
1984 Average	90	85	38	25	88	ŏ	60	(s) T	630	341	46	15
1985 Average	110	104	37	21	40	Ö	61	``0	770	468	59-	36
1986 Average	112	102	41	30	37	Ö	50	Ō	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 Average1992 Average	254 336	254 336	26 19	21 17	35 36	0	22 20	0	1,033 1,069	743 797	91 90	87 84
1993 January	354	354	(e)	0	18	0	3	0		770	60	60
February	348	348	(s) O	Ŏ	26	0	22	0	1,052 1,095	778 782	60 44	60 44
March	408	408	ŏ	ŏ	38	ŏ	27	ŏ	1,033	770	79	73
April	344	344	ŏ	ŏ	16	ŏ	56	ŏ	1,052	783	0	,3
May	299	299	13	13	8	ŏ	41	ŏ	1,128	874	40	40
June	209	209	34	34	7	Ō	19	Ö	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 Average	379 336	379 336	53 19	53 18	30 28	0	10 33	0	1,255 1,181	964 900	61 51	61 50
1994 January	338	338	12	. 0	28	. 0	11	0	1,242	905	81	78
February	295	282	.0	ŏ	79	ŏ	12	ŏ	1,374	994	44	44
March	291	265	11	11	52	Ŏ	10	ŏ	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	358 455	347	13	13	20	0	38	0	1,357	1,059	64	64
September October	455 286	448 286	35 22	35 22	17 15	0	21 18	0	1,300	1,031	63	63
November	328	328	22	22	8	ŏ	0	Ö	1,238	982 988	18 70	18 70
December	402	380	6	0	6	ŏ	8	8	1,251 1,388	1,054	79 40	79 40
Average	331	322	17	16	29	ŏ	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	Ó	0	0	1,310	965	21	21
March	427	416	0	. 0	7	Ō	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
June	371	358	10	10	0	0	0	0	1,418	1,169	26	26
July	295 367	287 355	42 0	42 0	0	0	8 9	0	1,269	1,028	80	80
August September	367 444	355 444	0	0	8	0	9 27	0	1,348	1,062 993	40	40 73
9-Month Average	373	363	17	17	3	Ŏ	5	Ö	1,283 1,314	1,032	73 51	73 5 1
1994 9-Month Average	329	319	. 18	16	36	0	38	0	1,265	975	72	70
1993 9-Month Average	323	323	14	13	25	ŏ	34	ŏ	1,146	876	47	46

^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.

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

⁽s)=Less than 500 barrels per day.

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

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

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

						Non-OP	EC ⁸					
	Col	lombia	Ecu	_{lador} b	ı	taly	Ma	ılaysia	M	exico	Neth	nerlands
	Total	Crude Oil	Total	Crude Oil	Total	Crude Oil	Total	Crude Oil	Total	Crude Oil	Total	Crude Oll
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 87	70 87	19	0
1976 Average	21	6	-	-	39 51	0	18 66	16 55	179	177	31	4
1977 Average	17	0	-	-	38	0	42	37	318	316	5	2
1978 Average	20	0		=	30	ŏ	66	52	439	437	23	7
1979 Average	18 4	0		Ξ	4	ŏ	70	61	533	507	2	(8)
1980 Average	ī	ŏ	_	-	11	ŏ	36	33	522	469	30	(8)
1981 Average	5	. 0	_	_	18	(8)	20	18	685	645	35	(8)
1983 Average	10	Ö	_	_	18	(8)	4	3	826	766	65	. 3
1984 Average	8	0	_	-	45	(8)	1	0	748	659	65	3
1985 Average	23	0	-	-	60	(s)	3		816	715	58	0
1986 Average	87	57	-	-	76	0	12	11	699	621	54 60	0
1987 Average	148	115	-	-	54	1	13	12	655 747	602	60 61	Ü
1988 Average	134	106	-	-	65	5	19	19	747 767	674 716	49	0
1989 Average	172	136	-	-	34 58	3 2	39 41	39 40	767 755	689	45 55	ŏ
1990 Average	182	140	-	-	47	3	24	24	807	759	29	ŏ
1991 Average	163	123 102	-	_	55	ŏ	10	10	830	787	26	ŏ
1992 Average	126	102	_	_	-	•						
1009 January	188	167	76	70	56	0	0	0	858	820	11	0
1993 January	148	137	14	14	34	Ō	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 17	0
August	131	101	121	121	50	0	14	14	862 929	809 867	22	0
September	224	170	49	49	32	0	28 14	28 10	1.013	951	20	ŏ
October	192	182	146	135 106	40 30	Ö	0	0	1,116	1.041	(s)	ŏ
November	164 134	143 85	115 84	84	0	ŏ	28	28	909	837	6	Ŏ
Average	171	141	81	78	31	ŏ	11	10	919	863	10	Ō
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	
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 38	0
June	112	101	72	72	12 35	0	10 36	10 36	1,040 926	974 889	35	0
July	127	127	144 115	144 115	52 52	0	13	36 7	894	852	33	-
August	181 144	181 144	63	63	34	Ö	9	ó	1,043	963	34	ŏ
September October	215	215	110	110	21	ŏ	ő	ŏ	940	881	18	-
November	134	134	97	97	17	ŏ	ŏ	ŏ	1,037	981	1	0
December	124	124	96	96	9	Ŏ	6	Ô	963	944	4	_
Average	161	146	91	91	22	0	10	6	984	939	32	0
1995 January	191	181	130	130	4	Q	21	21	942		0	
February	158	148	107	107	1	0	0		919		17	
March	257	238	104	104	8	0	0		1,006		29 3	
April		193	146	146	13	0	7 0		993 1,118		3 24	
May	171	153	128	128 149	0 13	. 0	7		1,138		37	
June	243 223	220 223	149 87	149 87	4	. 0	ó		1,188		ő	-
July August		311	116	104	ŏ	ŏ	ŏ		1,185		21	
September	252	236	61	61	ŏ	ŏ	14		1,305		0	
9-Month Average		212	114	113	5	Ŏ	5		1,089		14	0
1994 9-Month Average	162	141	88	88	25	o	13		985		41	
1993 9-Month Average		143	69	67	34	0	10	9	887	836	13	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.

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

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

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

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

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

						Non-	OPECa					
		erlands ntilles	N	orway	Pue	rto Rico	Ru	_{issia} b	s	Spain		inidad 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	231 225	0	75 144	75	92 88	0	1	0	4	0	190	123
1980 Average	197	0	119	144 114		0	1	0	1	0	176	115
1981 Average1982 Average	175	Ö	102	102	62 50	0	5 1	(8) O	1 3	(s)	133	102
1983 Average	189	ŏ	66	65	40	ő	+	•	2	(8)	112 96	92
1984 Average	188	ŏ	114	112	42	0	13	(8) (8)	11	(8) O	96 94	83 87
1985 Average	40	ŏ	32	31	28	ŏ	8	(s) (s)	29	1	113	98
1986 Average	25	ŏ	60	53	21	ŏ	18	(8)	53	ò	125	93
1987 Average	29	ŏ	80	70	21	ŏ	11	(0)	55	ŏ	106	75
1988 Average	36	ŏ	67	62	22	ŏ	29	ŏ	68	ŏ	97	71
1989 Average	42	Ō	138	127	32	ō	48	Ŏ	67	ŏ	94	73
1990 Average	31	0	102	96	32	Ŏ	45	Ĭ	47	ŏ	96	76
1991 Average	81	0	82	74	27	0	29	1	33	Ŏ	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	Ö	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	Ō	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	Q	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	Ō	76	56
May	70	0	159	159	21	0	32	32	53	0	68	58
June	69 121	0	176	158	42	0	133	133	50	0	106	79
July	114	0	276 206	257 198	43 23	0	· 82	82	25	0	69	55
August September	95	Ö	347	336	17	0	. 21 6	15 0	38	0	85	55
October	77	ŏ	310	300	20	ŏ	30	30	56 35	0	64 79	56 65
November	96	ŏ	214	195	6	ŏ	0	0	22	ŏ	79 59	55
December	43	ŏ	125	123	10	ŏ	ŏ	ŏ	26	0	74	74
Average	98	Ŏ	202	190	22	ŏ	30	27	37	ŏ	77	62
1995 January	75	0	200	170	6	0	0	0	7	0	91	91
February	58	0	194	164	7	Ó	Õ	Õ	9	Ŏ	60	60
March	68	0	241	209	13	0	0	0	16	Ō	70	70
April	0	0	315	291	9	Ó	0	Ö	16	7	55	55
May	86	0	292	292	19	0	12	0	25	0	61	53
June	50	0	370	370	16	0	15	0	27	0	78	74
July	65	0	263	256	17	0	41	32	10	0	73	54
August	62	0	279	264	26	0	136	98	17	0	74	53
September	33	0	364	359	12	0	50	32	19	O.	73	55
9-Month Average	55	0	280	264	14	0	28	18	16	1	71	63
1994 9-Month Average 1993 9-Month Average	107 73	0	197 147	184 144	25 31	0	37 43	33 31	40 38	0	80 72	61 54

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.

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.

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, November 1995, Table S3.

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

1973 Average		0 0 0 (a) 13 97 169 197 173 369 441	Virgin Total 329 391 406 422 466 428 431 388	Crude Oli 0 0 0 0 0 0 0	Total 153 122 120 203	Crude Oii	Total 3,263 2,832 2,454	Crude Oil	Total 6,258 6,112	crude Oil 3,244 3,477
1974 Average	15 8 14 31 126 180 202 176 375 456 382	0 0 (a) 13 97 169 197 173 369	329 391 406 422 466 428 431	0 0 0 0 0	153 122 120 203	36 30 14	3,263 2,832	1,149 937	6,256 6,112	3,244
1974 Average	8 14 31 126 180 202 176 375 456 382	0 (e) 13 97 169 197 173 369	391 406 422 466 428 431	0 0 0 0	122 120 203	30 14	2,832	937	6,112	•
1974 Average	8 14 31 126 180 202 176 375 456 382	0 (e) 13 97 169 197 173 369	391 406 422 466 428 431	0 0 0	120 203	14				3.477
975 Average 976 Average 977 Average 978 Average 980 Average 981 Average	14 31 126 180 202 176 375 456 382	(8) 13 97 169 197 173 369	406 422 466 428 431	0	203		2,454			
976 Average 977 Average 1978 Average 1979 Average 1980 Average	31 126 180 202 176 375 456 382	13 97 169 197 173 369	466 428 431	0		464	_,	893	6,056	4,105
1977 Average 1978 Average 1979 Average 1980 Average 1981 Average	126 180 202 176 375 456 382	97 169 197 173 369	428 431	Ŏ		101	2,247	742	7,313	5,287
1978 Average 1979 Average 1980 Average 1981 Average	180 202 176 375 456 382	197 173 369	431	-	287	157	2,614	971	8,807	6,615
1979 Average 1980 Average 1981 Average	202 176 375 456 382	197 173 369			239	146	2,612	1,172	8,363	6,356
1980 Average	375 456 382	369	388	. 0	269	192	2,819	1,407	8,456	6,519
1981 Average	456 382			0	219	162	2,609	1,399	6,909	5,263
	382	441	327	0	236	163	2,672	1,474	5,996	4,396
			316	0	306	174	2,968	1,754	5,113	3,488
1983 Average		365	282	0	378	215	3,189	1,853	5,051	3,329
1984 Average		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
1002 January	229	201	252	0	325	104	°3,766	°2,672	8,004	6,292
1993 January	173	127*	244	Ŏ	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	Ŏ	472	243	4,161	2,995	8,768	6,928
	522	495	279	Ŏ	363	152	4,353	3,179	8,663	6,809
May June	458	408	290	Ŏ.	581	405	4,452	3,455	8,805	7,201
July	292	247	202	Ŏ	600	299	4,801	3,574	9,219	7,289
August	343	323	256	Ō	556	356	4,378	3,210	8,429	6,641
September	286	217	184	Ō	552	251	4,517	3,173	8,531	6,581
October	353	338	236	Ō	453	233	4,984	3,698	9,197	7,181
November	351	340	330	Ó	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
June	520	418	268	0	368	253	5,123	4,123	9,585	7,957
July	137	97	240	0	441	277	4,482	3,630	8,845	7,265
August	288	249	264	0	336	261	4,898	3,954	9,024	7,415
September	427	386	223	Ō	312	180	4,979	4,072	9,726	8,041
9-Month Average	396	352	264	0	304	183	4,645	3,720	8,861	7,290
1994 9-Month Average 1993 9-Month Average	468 340	408 296	329 244	0	487 453	250 239	4,841 4,216	3,496 3,077	9,067 8,521	7,043 6,713

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.

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, November 1995, Table S3.

that were refined from crude oil produced by OPEC.

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

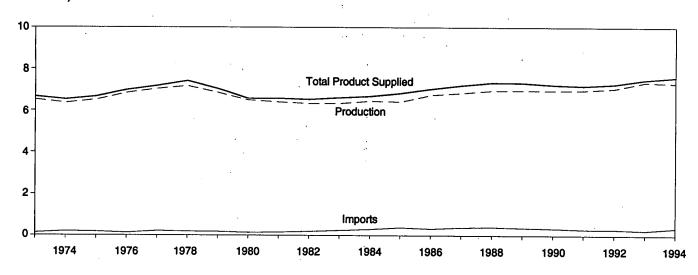
^c As of January 1993, includes petroleum imported from Ecuador, which withdrew from OPEC on December 31, 1992.

⁽s)=Less than 500 barrels per day.

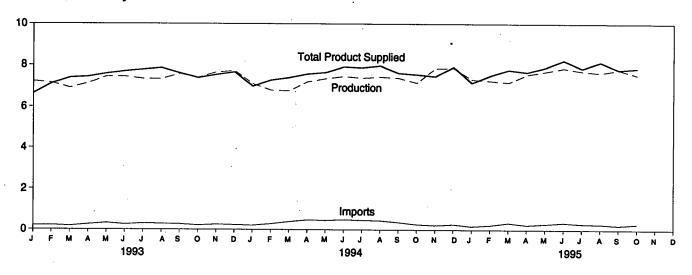
Figure 3.2 Finished Motor Gasoline

(Million Barrels per Day, Except as Noted)

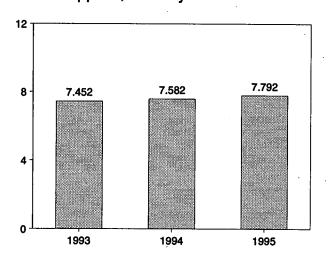
Overview, 1973-1994



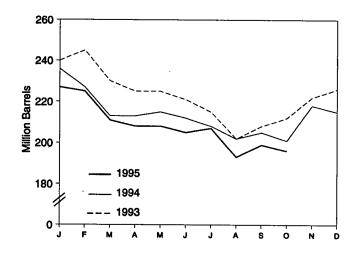
Overview, Monthly



Product Supplied, January-October



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

1	Sup	ply	 	Disposition			Gasoline Stocks ^a	Oxygenates
	Total Production	Imports ^b	Stock Change ^{b,c}	Exports	Product Supplied	Totald	Finished	Ending Stocks ^a
		Thou	usand Barrels per	Day				
	6,535	134	-9	4	6,674	209	NA	NA
73 Average	•	204	24	2	6,537	⁶ 218	NA	NA
74 Average	6,360	184	e28	2	6,675	235	NA	NA
75 Average	6,520	131	-10	. 3	6,978	231	NA	NA
76 Average	6,841		72	2	7,177	258	NA	NA
77 Average	7,033	217	-54	ī	7,412	238	NA	NA
78 Average	7,169	190	-9 - -2	(s)	7,034	237	NA	NA
79 Average	6,852	181	-2 66	1	6,579	⁰ 261	NA	NA
180 Average,	6,506	140		ż	6,588	253	203	NA
81 Average ^f	6,405	157	e-28			⁶ 235	e194	NA
82 Average	6,338	197	-25	20	6,539	222	186	NA
83 Average	6,340	247	⁶ -45	10	6,622	243	205	NA
84 Average	6,453	299	54	6	6,693			NA NA
085 Average	6,419	381	-41	10	6,831	223	190	
86 Average	6,752	326	11	33	7,034	233	194	NA
987 Average	6,841	384	-15	35	7,206	226	189	NA
	6,956	405	3	22	7,336	228	190	NA
988 Average	6,963	369	-35	39	7,328	213	177	NA
89 Average	6,959	342	10	55	7,235	- 220	181	NA
990 Average	6,975	297	3	82	7.188	219	182	NA
991 Average	7,058	294	-11	96	7,268	216	178	NA
993 January	97,228	204	652	142	⁹ 6,639	240	198	h ₁₅
February	7,144	216	149	99	7,112	245	202	14
	6,904	177	-417	109	7,389	230	189	15
March	7,126	253	-168	111	7,435	225	184	15
April	7,446	323	93	90	7,585	225	187	17
May	7,440 7,442	251	-88	81	7,700	221	184	18
June	•	300	-240	92	7,785	215	177	20
July	7,337	283	-323	77	7,864	202	167	21
August	7,335		148	85	7,607	208	171	19
September	7,573	267		80	7,382	212	176	18
October	7,394	210	142	126	7,533	222	183	16
November	7,652	252	245		7,661	226	187	13
December	7,725	231	132	162	7,476	226	187	13
Average	7,360	247	26	105	7,470			
994 January	7,097	206 281	227 -281	97 77	6,980 7,275	236 227	194 186	11 11
February	6,790 6,760	382	-341	88	7,395	213	176	13
March	6,760		26	73	7,564	213	176	15
April	7,195	467		73 64	7,644	215	179	16
May		446	85 70	88	7,922	212	177	18
June	7,455	483	-72 107			208	173	22
July		455	-127	78 70	7,884 7,975	202	168	24
August	7,432	439	-172	70	7,975	202 205	169	25
September	7,385	360	55	74	7,615		162	23
October	7,151	263	-244	110	7,548	201	177	20
November	7,849	219	496	108	7,464	218		17
December	7,867	265	-23	231	7,924	215	176	17
Average		356	-31	97	7,601	215	176	17
995 January		174	235	100	7,157	227 225	183 180	16 16
February	7,250	223	-116	84	7,505		168	15
March	7,171	336	-380	107	7,780	211		15
April		235	-26	139	7,670	208	167	
May		286	18	67	7,898	208	168	18
June		347	-121	91	8,243	205	164	14
July		290	68	86	7,854	207	166	15
August		276	-343	103	8,151	_ 193	ຼ 155	16
	0	R219	R 122	^R 94	^R 7,788	^R 199	^R 159	15
September		E 282	E-144	E 95	E 7,859	E 196	^E 156	N/
October 10-Month Average		E 267	E-69	E 97	E 7,792	E 196	E 156	N/
994 10-Month Average		379	-83	82	7,582	201	162	23
774 IUSNILIIII AVBIAUG	,202	0.0	-7	97	7,452	212	176	10

a Stocks are totals as of end of period.

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

^b From 1981 forward, blending components are excluded.

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

Indicates an increase.

d Includes motor gasoline blending components and gasohol, but excludes oxygenates, which are reported separately.

See Note 4 at end of section.

¹ See Note 2 at end of section.

⁹ Beginning in 1993, motor gasoline production and product supplied include blending of fuel ethanol and an adjustment to correct for the

section.

h See Note 1 at end of section.

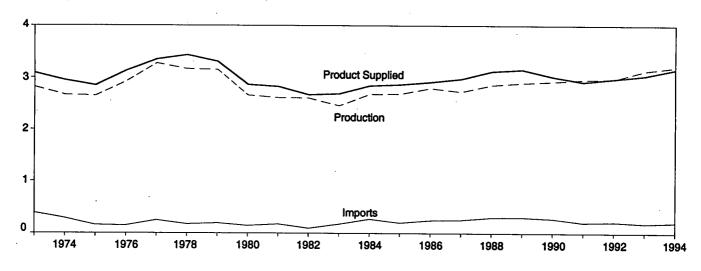
NA=Not ave R=Revised data. NA=Not available. E=Estimate. (s)=Less than 500 barrels per day.

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, November 1995, Table S4.

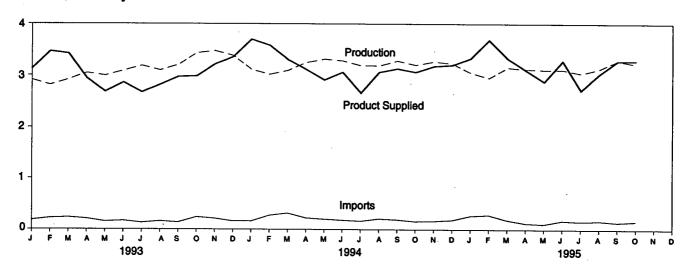
Figure 3.3 Distillate Fuel

(Million Barrels per Day, Except as Noted)

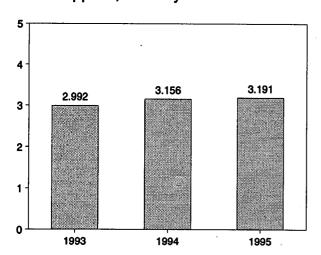
Overview, 1973-1994



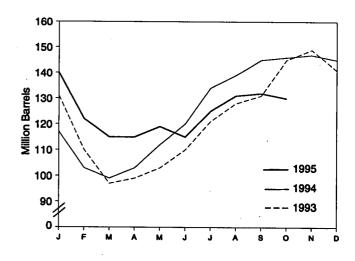
Overview, Monthly



Product Supplied, January-October



Stocks, End of Month



Source: Table 3.5.

Table 3.5 Distillate Fuel Oil Supply and Disposition

		Supply			Disposition			Ending Stock	(8 ⁸
								Sulfur	Content
	Total	 	Crude Oil Used	Stock		Product		0.05 Percent	Greater Than
ļ	Production	Imports	Directly ^b	Changec	Exports	Supplied ^b	Total	or Less ^d	0.05 Percent
			Thousand Ba	rrels per Day			l	Million Barre	18
973 Average	2,822	392	2 .	115	9	3,092	196 f 200	NA NA	NA NA
974 Average	2,669	289	2	^e 10 ^{e,f} −41	2 1	2,948 2,851	209	NA NA	NA NA
975 Average	2,654	155	2	-71	i	3,133	186	NA NA	ÑÃ
976 Average	2,924	146	1	-62 176	i	3,352	250	NA	NA
977 Average	3,278	250	1	-93	3	3,432	216	NA	NA
978 Average	3,167	173	- 1	-93 34	3	3,311	229	NA	NA
979 Average	3,153	193 142	i	-64	3	2,866	1 205	NA	NA
980 Average	2,662		10	1-38	5	2,829	192	NA	NA
981 Average ^g	2,613	173	10	-35	74	2,671	f 179	NA	NA
982 Average	2,606	93		1-124	64	2,690	140	NA	NA
983 Average	2,456	174	-	57	51	2,845	161	NA	NA
984 Average	2,681	272	-		67	2,868	144	ŇÁ	NA
985 Average	2,687	200	_	-48 31	100	2,000 2,914	155	NA NA	NA NA
986 Average	2,798	247	_		66	2,914 2,976	134	NA NA	NA NA
987 Average	2,731	255	-	-56	69	3,122	124	NA.	NA NA
988 Average	2,859	302	-	-30 40			106	NA NA	NA NA
989 Average	2,899	306	-	-49 -70	97	3,157	132	NA NA	NA NA
990 Average	2,925	278	-	73	109	3,021	132 144	NA NA	NA NA
991 Average	2,962	205	-	31	215	2,921		NA NA	NA NA
992 Average	2,974	216	-	-8	219	2,979	141		
993 January	2,914	182	_	-318	287	3,128	131	⁹ 15	⁹ 115
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	0.400	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
994 January	3,114	161	_	-754	332	3,698	117	55	62
February	0.040	276	_	-521	235	3,581	103	49	54
March	_'	318	_	-113	220	3,307	99	51	49
April	3,249	226	_	106	252	3,116	103	57	46
Арін Мау	_'	202	_	318	289	2,912	112	61	51
June		182	_	237	168	3,062	120	62	58
	n'	164	-	472	220	2,663	134	69	65
July		211	_	142	193	3,063	139	67	71
August		193	_	205	140	3,133	145	66	78
September	_'	159	_	40	256	3,066	146	67	79
October	3,203 3,270	166	_	45	211	3,180	147	70	77
November		187	-	-68	284	3,203	145	73	73
Average		203	-	12	234	3,162	145	73	73
<u>-</u>		270	_	-152	141	3,335	140	69	71
1995 January		287	_	-660	212	3,689	122	63	59
February		188	_	-208	216	3,336	115	59	56
March		125	_	-30	172	3,108	115	61	53
April		108	_	135	202	2,883	119	62	56
May		176	_	-132	137	3,284	115.	59	56
June		157	Ξ	332	148	2,718	125	61	64
July			_	186	84	3,031	131	. 61	70
August	3,130	171 8440		R 28	R ₁₁₆	R 3,286	132	R 63	68
September		R 142	-	E-70	E 167	E 3,287	E 130	<u> </u>	€ 68
October 10-Month Average		E 162 E 178	-	E-51	E 159	E 3,191	E 130	€ 61	E 68
•								67	79
1994 10-Month Average		20 9 184	-	17 16	231 249	3,156 2,992	146 145	55	90
1993 10-Month Average	. 3,072	104		10	240	2,002	170	•	• •

a Stocks are totals as of end of period.

59

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

reported as clude oil product supplied of Table 3.25 failed that as distinct fuel oil product supplied.

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

By weight.
See Note 6 at end of section.

¹ See Note 4 at end of section.

⁹ See Note 3 at end of section.

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

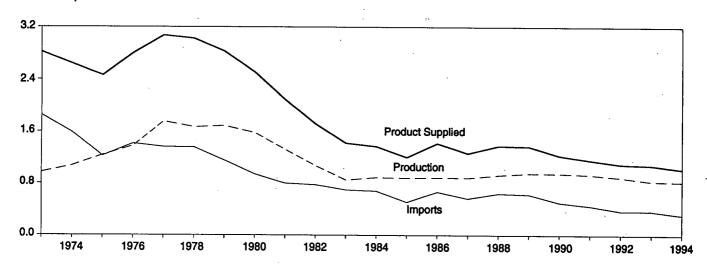
Notes: • Totals may not equal sum of components due to independent rounding. • Geographic coverage is the 50 States and the District of Columbia.

Sources: • 1973-1980: Energy Information Administration (EIA), Petroleum Supply Monthly, February 1993, Table S5. • 1981 forward: EIA, Petroleum Supply Monthly, November 1995, Table S5.

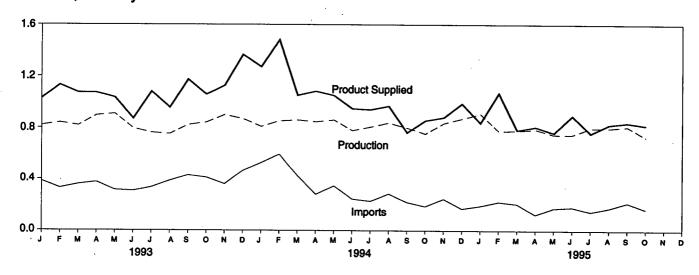
Figure 3.4 Residual Fuel

(Million Barrels per Day, Except as Noted)

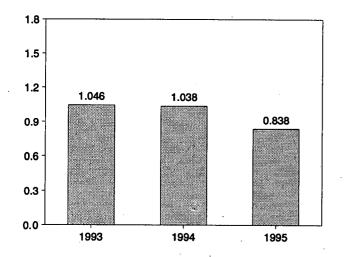
Overview, 1973-1994



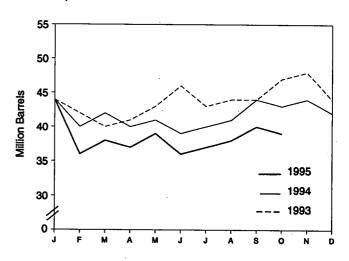
Overview, Monthly



Product Supplied, January-October



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		1
	Total Production	Imports	Crude Oil Used Directly ^a	Stock Change ^b	Exports	Product Supplied ^a	Ending Stocks ^c
j			Thousand Ba	rrels per Day			Million Barrel
072 Averes	971	1,853	17	-5	23	2,822	53
973 Average	1,070	1,587	13	17	14	2,639	d 60
974 Average	1,235	1,223	15	d .2	15	2,462	74
975 Average	1,377	1,413	17	-5	12	2,801	72
	1,754	1,359	13	48	6	3,071	90
977 Average	1,667	1,355	13	1	13	3,023	90
78 Average	1,687	1,151	12	15	9	2,826	.96
979 Average	1,580	939	12	-10	33	2,508	d 92
980 Average	1,321	800	48	d -37	118	2,088	. 78
981 Average ^e	1,070	776	48	-32	209	1,716	d 66
982 Average	852	699		d -55	185	1,421	49
983 Average	891	681	_	12	190	1,369	53
984 Average	882	510	_	- 7	197	1,202	50
985 Average		669	_	-8	147	1,418	47
986 Average	889	565	_	(8)	186	1,264	47
987 Average	885	644		(*). -8	200	1,378	45
988 Average	926		<u>-</u>	-2	215	1,370	44
989 Average	954	629	-	13	211	1,229	49
990 Average	950	504	-		226	1,158	50
991 Average	934	453	-	4	193	1,094	43
992 Average	892	375	-	-20	193	1,084	40
993 January	820	385	-	44	133	1,028	44 42
February	840	332	-	-74	113	1,132	40
March	818	360	-	-47	152	1,073	
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
994 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
	838	287	_	37	120	968	41
August	800	222	_	117	141	764	44
September	755	190	_	-45	134	856	43
	835	248	_	19	182	881	44
November	871	173	_	-58	115	988	42
Average	826	314	<u>-</u> ·	-6	125	1,021	42
v	909	194	_	60	203	839	44
1995 January	776	225	_	-275	208	1,069	36
February	776 778	209	_	50	154	783	38
March			<u>-</u>	-23	129	. 808	37
April	789 740	126 177	_	-23 48	115	762	39
May	749 740	177	-	-82	120	894	36
June	749	184	-	-02 25	164	759	37
July	798	149	-			759 825	38
August	799	177	-	28 . ^R 64	122 R 124	R 840	R 40
September	R 810	R 219	-	"64 E ₋₁₂	E 92	E 820	E 39
October	E 731	E 169	-		- 92 F 442		E 39
10-Month Average	E 789	E 182	=	E-9	E 143	E 838	- 39
1994 10-Month Average	820	334	-	-4	120	1,038	43.
1993 10-Month Average	825	365		14	130	1,046	47

^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.

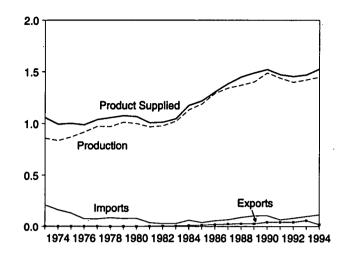
R=Revised data. - =Not applicable. E=Estimate. (s)=Less than +500 barrels per day and greater than -500 barrels per day.

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, November 1995, Table S6.

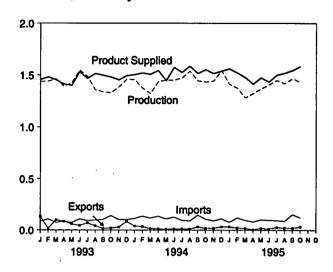
Figure 3.5 Jet Fuel

(Million Barrels per Day, Except as Noted)

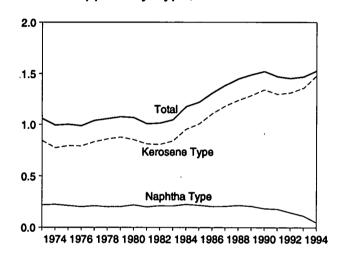
Overview, 1973-1994



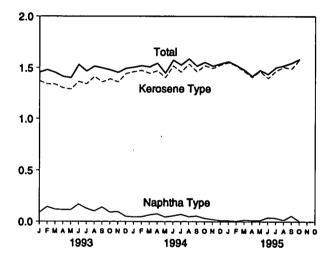
Overview, Monthly



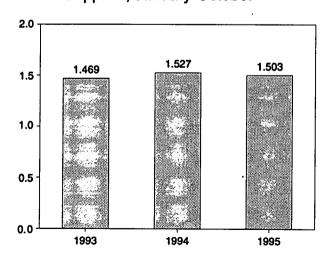
Product Supplied by Type, 1973-1994



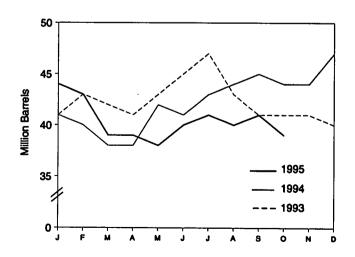
Product Supplied by Type, Monthly



Product Supplied, January-October



Stocks, End of Month



Source: Table 3.7.

Table 3.7 Jet Fuel Supply and Disposition

		Supply			Dis	position			
Ţ	Pr	oduction				Prod	uct Supplied	Endli	ng Stocks ^a
<u> </u>	Total	Kerosene Type	Imports	Stock Change ^b	Exports	Total	Kerosene Type	Total	Kerosene Type
			Thous	and Barrels p	er Day			Milli	on Barrels
973 Average	859	679	212	8	4	1,059	842	29	23
974 Average	836	641	163	2	3	993	771	^C 29	c 24
975 Average	871	691	133	¢ 2	2	1,001	791	30	25
976 Average	918	731	76	5	2	987	789	32	26
977 Average	973	787	75	7	2	1,039	831	35	28 28
978 Average	970	791	86	-2	1	1,057	858	34 39	26 33
979 Average	1,012	835	78	13	1	1,076	876 851	c 42	° 36
980 Average	999	811	80	.10 °-4	1 2	1,068 1,007	809	41	34
981 Average	968	775	38	•	6	1,007	804	¢ 37	c 31
982 Average	978	778	29	-12 ° (s)	6	1,015	839	39	32 .
983 Average	1,022	817	29 62	9	9	1,175	953	42	35
984 Average	1,132	919	39	-4	13	1,218	1.005	40	34
985 Average	1,189	983	57	25	18	1,307	1,105	50	43
986 Average	1,293	1,097 1,138	67	(8)	24	1,385	1,181	50	42
987 Average	1,343 1,370	1,164	90	-17	28	1,449	1,236	44	38
988 Average	1,403	1,197	106	.: -8	27	1,489	1,284	41	34
989 Average	1,488	1,311	108	31	43	1,522	1,340	52	46
990 Average	1,438	1,274	67	-9	43	1,471	1,296	49	44
1991 Average 1992 Average	1,399	1,254	82	-16	43	1,454	1,310	43	39
993 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 37
April	1,391	1,265	88	-23	88	1,413	1,299	41 43	38
May	1,427	1,302	75	42	60	1,401	1,288 1,362	45 45	41
June	1,547	1,407	111	83	45	1,530 1,466	1,338	47	43
July	1,485	1,359	94	42	71	1,514	1,413	43	40
August	1,358	1,257	100 106	-98 -69	42 16	1,497	1,357	41	38
September	1,338	1,241 1,242	143	-27	20	1,479	1,389	41	37
October	1,329	1,301	105	-2,	29	1,453	1,357	41	38
November	1,386 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 40
May	1,451	1,403	112	108	9	1,446	1,402	42	40 40
June	1,451	1,400	130	-2	11	1,573	1,518	41 43	40 41
July	1,472	1,422	98	34	11	1,526	1,456 1,536	44	42
August	1,538	1,498	91	33	10 31	1,585 1,515	1,461	45	44
September	1,444	1,419	149	47 -27	18	1,515	1,520	44	43
October	1,434	1,409	110 93	-27 (s)	19	1,532	1,494	44	43
November	1,442	1,433 1,533	114	(s) 86	33	1,538	1,526	47	46
Average	1,543 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 37
May	1,368	1,356	104	-21	18	1,474	1,463	38	37 39
June	1,408	1,395	99	62	11	1,434	1,395	40 41	39 40
July	1,449	1,435	97	19	27	1,500	1,465	41 40	40 39
August	1,419	1,411	90 B455	-32 ^R 56	21 R 20	1,519 R 1,545	1,505 ^R 1,489	8 41	R 41
September	R 1,466	^R 1,460	R 155	E-57	E31	E 1,582	E 1,577	E 39	€38
October 10-Month Average	E 1,432 E 1,394	E 1,426 E 1,384	E 124 E 105	E-25	E 20	E 1,503	E 1,482	E 39	E 38
1994 10-Month Average	1,438	1,395	120	12	19	1,527	1,474	44	43
1993 10-Month Average	1,421	1,303	99	-8	60	1,469	1,349	41	37

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,

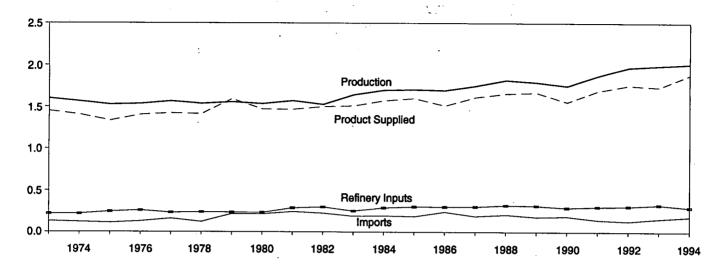
Petroleum Supply Monthly, November 1995, Table S7.

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

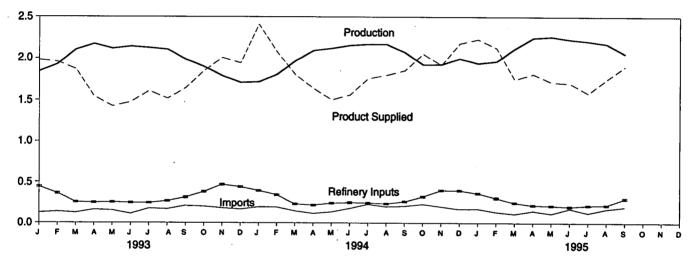
Figure 3.6 Liquefied Petroleum Gases

(Million Barrels per Day, Except as Noted)

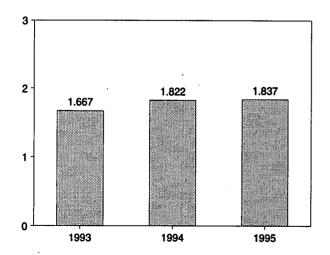
Overview, 1973-1994



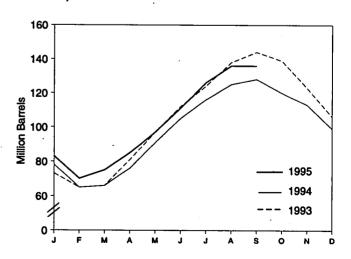
Overview, Monthly



Product Supplied, January-September



Stocks, End of Month



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

Source: Table 3.8.

Table 3.8 Liquefied Petroleum Gases Supply and Disposition

	Sup	ply	1	Dispo	sition		1
	Total Production	Imports	Stock Change ^a	Refinery Inputs	Exports	Product Supplied	Ending Stocks ^b
			Thousand Ba	arrels per Day			Million Barrels
		400	35	220	27	1,449	99
973 Average	1,600	132	35 38	220	25	1,406	° 113
974 Average	1,565	123	° 35	246	26	1,333	125
975 Average	1,527	112			25	1,404	116
76 Average	1,535	130	-24	260	18	1,422	136
77 Average	1,566	161	55	233		1,413	° 132
978 Average	1,537	123	-12	239	20	•	111
79 Average	1,556	217	° -70	236	15	1,592	¢ 120
80 Average	1,535	216	27	233	21	1,469	
981 Average	1,571	244	^C 18	28 9	42	1,466	135
_ _	d 1,527	226	-111	300	65	1,499	° 94
982 Average	1,642	190	¢-4	253	73	1,509	° 101
983 Average		195	°-19	291	48	1,572	101
984 Average	1,697	187	-75	304	62	1,599	74
985 Average	1,704		. 80	302	42	1,512	103
986 Average	1,695	242	-15	304	38	1,612	97
987 Average	1,748	190		321	49	1,656	97
988 Average	1,817	209	1		35	1,668	80
989 Average	1,791	. 181	-47	315	40	1,556	98
990 Average	1,749	188	48	293			92
991 Average	1,871	147	-15	304	41	1,689	89
992 Average	1,972	131	-10	309	49	1,755	05
993 January	1,845	126	-492	444	39	1,980	73
February	1,929	138	-309	363	55	1,958	65
	2,103	124	53	256	47	1,871	66
March	2,103 2,172	161	472	250	69	1,542	81
April		153	540	254	50	1,425	97
May	2,116	111	489	247	41	1,476	112
June	2,141		391	246	54	1,609	124
July	2,125	175		269	45	1,517	138
August	2,105	168	442	312	35	1,644	144
September	1,984	210	204		21	1,851	139
October	1,899	200	-154	381	21	2,007	123
November	1,789	181	-527	469			106
December	1,710	166	-545	440	40	1,942	106
Average	1,993	160	49	327	43	1,734	100
994 January	1,717	194	-923	396	28	2,410	78
	1,807	192	-463	343	44	2,075	65
February	1,969	146	42	232	37	1,804	66
March	2,093	116	323	218	29	1,639	76
April		135	478	243	32	1,503	91
May	2,120		480	251	41	1,562	105
June	2,156	178	353	246	40	1,759	116
July	2,169	229		236	37	1,799	125
August	2,170	198	296		56	1,854	128
September	2,073	206	104	264		2,054	120
October	1,926	230	-259	322	40		113
November	1,927	199	-228	401	35	1,919	
December	1,998	169	-452	399	41	2,179	99
Average	2,012	183	-19	296	38	1,880	99
100E lonuani	1,941	172	-542	363	64	2,228	83
1995 January	1,964	134	-456	306	122	2,125	70
February		111	175	248	57	1,747	75
March	2,117	147	323	216	43	1,812	85
April	2,246		386	211	62	1,716	97
May		115			55	1,701	111
June	2,227	174	447	198		1,583	126
July	2,205	123	489	213	41		136
August	A 4=4	169	322	217	57	1,747	
September		195	17	300	29	1,903	136
9-Month Average		149	134	252	58	1,837	136
1994 9-Month Average	2,032	177	80	269	38	1,822	128
1774 Y-MUILLI AVUIDUU	2,052	,		293	48	1,667	144

^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.

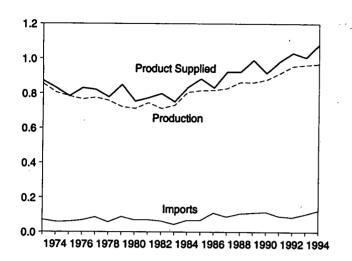
• 1981 forward: EIA,

Petroleum Supply Monthly, November 1995, Table S9.

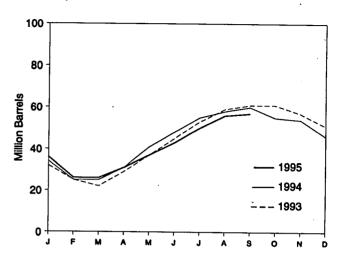
Figure 3.7 Propane and Propylene

(Million Barrels per Day, Except as Noted)

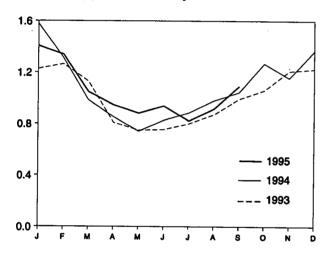
Overview, 1973-1994



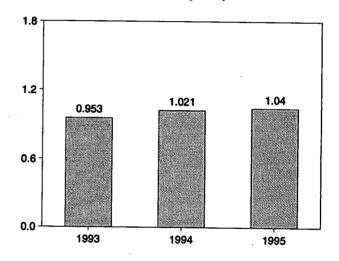
Stocks, End of Month



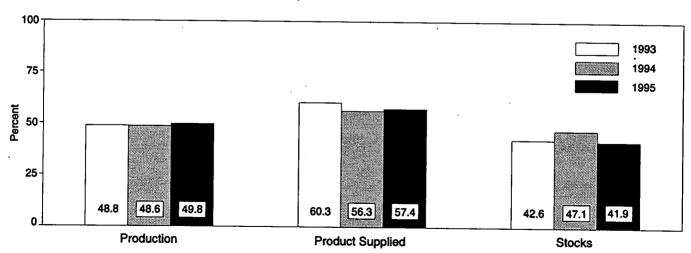
Product Supplied, Monthly



Product Supplied, January-September



Share of Liquefied Petroleum Gases, September



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)

	Total oduction 854 805 783 766 775 758 721 711 745 711 730 806 816 817 828 863 862 878 915 956 968 964 966 980	71 59 60 68 86 57 88 69 70 63 44 67 67 110 88 106 111 115 91 85	30 111 36 -22 21 15 -61 4 -18 -59 -24 -7 -50 64 -41 7 -52 48 -3 -24 -212 -255 -109	Refinery Inputs arrels per Day 8 9 11 12 10 13 14 12 5 4 4 4 8 8 8 11 (8) (6) (8)	Exports 15 14 13 13 10 9 8 10 18 31 43 30 48 28 24 31 24 28 28 33	872 830 783 830 821 778 849 754 773 798 751 833 863 831 924 923 990 917 982 1,032	65 69 82 74 81 88 65 64 65 76 64 65 76 64 65 76 64 65 76 63 83 94 63 84 84 85 83 94 83 94 84 84 84 85 85 86 86 86 86 86 86 86 86 86 86 86 86 86
974 Average	805 783 766 775 758 721 711 745 711 730 806 816 817 828 863 862 878 915 956	59 60 68 86 57 88 69 70 63 44 67 110 88 106 111 115 91 85	30 111 36 -22 21 15 -61 4 -18 -59 -24 -7 -50 64 -41 7 -52 48 -3 -24 -212 -255 -109	8 9 11 12 10 13 14 12 5 4 4 4 3 4 8 8 8 11 (8) (8)	14 13 13 10 9 8 10 18 31 43 30 48 28 24 31 24 28 28 33	830 783 830 821 778 849 754 773 798 751 833 883 831 924 923 990 917 982	65 69 82 74 81 87 64 65 76 64 48 58 39 63 48 50 32 49
974 Average 975 Average 976 Average 977 Average 977 Average 978 Average 980 Average 981 Average 982 Average 983 Average 984 Average 985 Average 986 Average 987 Average 987 Average 988 Average 989 Average 990 Average 991 Average 992 Average 992 Average 993 January February March April May June July August September October November December Average 1994 January February March April May June June July August September October November December Average 1994 January February March April May June June July August September October November December Average 1994 January February March April May June July August	805 783 766 775 758 721 711 745 711 730 806 816 817 828 863 862 878 915 956	59 60 68 86 57 88 69 70 63 44 67 110 88 106 111 115 91 85	11 36 -22 21 15 -61 4 -59 -24 -7 -50 64 -41 7 -52 48 -3 -24 -212 -255 -109	9 11 12 10 13 14 12 5 4 4 4 3 4 8 8 11 (8) (8)	14 13 10 9 8 10 18 31 43 30 48 28 24 31 24 28 28	830 783 830 821 778 849 754 773 798 751 833 883 831 924 923 990 917 982	69 82 74 81 64 65 76 54 58 58 39 63 48 50 32 49
974 Average 975 Average 976 Average 977 Average 977 Average 9878 Average 989 Average 980 Average 981 Average 982 Average 984 Average 985 Average 986 Average 987 Average 987 Average 988 Average 989 Average 999 Average 991 Average 992 Average 992 Average 993 January February March April May June July August September October November December Average 1994 January February March April May June July August September October November December Average 1994 January February March April May June July August September October November December Average 1994 January February March April May June July August	805 783 766 775 758 721 711 745 711 730 806 816 817 828 863 862 878 915 956	59 60 68 86 57 88 69 70 63 44 67 110 88 106 111 115 91 85	11 36 -22 21 15 -61 4 -59 -24 -7 -50 64 -41 7 -52 48 -3 -24 -212 -255 -109	9 11 12 10 13 14 12 5 4 4 4 3 4 8 8 11 (8) (8)	14 13 10 9 8 10 18 31 43 30 48 28 24 31 24 28 28	830 783 830 821 778 849 754 773 798 751 833 883 831 924 923 990 917 982	69 82 74 81 87 64 65 76 54 58 58 39 63 48 50 32 49
975 Average 876 Average 977 Average 978 Average 980 Average 981 Average 981 Average 982 Average 984 Average 985 Average 986 Average 987 Average 987 Average 988 Average 989 Average 999 Average 999 Average 991 Average 992 Average 992 Average 993 January February March April May June July August September October November December Average 1994 January February March April May June July August September October November December Average 1994 January February March April May June July August Average	783 766 775 758 721 711 745 711 730 806 816 817 828 863 862 878 915 956	60 68 86 86 57 88 69 70 63 44 67 67 110 88 106 111 115 91 85	36 -22 21 15 ° -61 4 ° 18 -59 ° -24 ° 7 -50 64 -41 7 -52 48 -3 -24 -212 -255 -109	11 12 10 13 14 12 5 4 4 3 4 8 8 11 (8) (8)	13 13 10 9 8 10 18 31 43 30 48 28 24 31 24 28 28 33	783 830 821 778 849 754 773 798 751 833 883 831 924 923 990 917 982	82 74 81 64 65 76 54 58 39 63 48 50 32 49
975 Average 976 Average 977 Average 977 Average 978 Average 980 Average 981 Average 982 Average 984 Average 985 Average 986 Average 987 Average 987 Average 988 Average 989 Average 999 Average 999 Average 991 Average 992 Average 992 Average 993 January February March April May June July August September October November December Average 1994 January February March Average 1995 January September October November December Average 1994 January February March Average	766 775 758 721 711 745 711 730 806 816 817 828 863 862 878 915 956	68 86 57 88 69 70 63 44 67 110 88 106 111 115 91 85	-22 21 15 -61 4 -18 -59 -24 -7 -50 64 -41 7 -52 48 -3 -24 -212 -255 -109	12 10 13 14 12 5 4 4 3 4 8 8 11 (8) (8)	13 10 9 8 10 18 31 43 30 48 28 24 31 24 28 28	830 821 778 849 754 773 798 751 833 883 831 924 923 990 917 982	74 81 64 65 76 54 63 39 63 48 50 32 49
976 Average 977 Average 978 Average 978 Average 980 Average 981 Average 982 Average 983 Average 985 Average 986 Average 987 Average 987 Average 988 Average 989 Average 999 Average 991 Average 991 Average 992 Average 992 Average 993 January February March April May June July August September October November December Average 1994 January February March April May June July August September October November December Average 1994 January February March April May June July August September Average	775 758 721 711 745 711 730 806 816 817 828 863 862 878 915 956	86 57 88 69 70 63 44 67 110 88 106 111 115 91 85	21 15 °-61 4 °18 -59 °-24 °7 -50 64 -41 7 -52 48 -3 -24 -212 -255 -109	10 13 14 12 5 4 4 4 3 4 8 8 11 (8) (9)	10 9 8 10 18 31 43 30 48 28 24 31 24 28 28 28	821 778 849 754 773 798 751 833 883 831 924 923 990 917 982 1,032	81 c 87 64 c 65 76 c 54 c 48 58 39 63 48 50 32 49 48
977 Average 978 Average 979 Av	758 721 711 745 711 730 806 816 817 828 863 862 878 915 956	57 88 69 70 63 44 67 110 88 106 111 115 91 85	15 -61 4 -18 -59 -24 -7 -50 64 -41 7 -52 48 -3 -24 -212 -255 -109	13 14 12 5 4 4 4 3 4 8 8 11 (8) (8)	9 8 10 18 31 43 30 48 28 24 31 24 28 28 33	778 849 754 773 798 751 833 883 831 924 923 990 917 982 1,032	c 87 64 c 65 76 c 54 c 48 58 39 63 48 50 32 49
978 Average	758 721 711 745 711 730 806 816 817 828 863 862 878 915 956	88 69 70 63 44 67 67 110 88 106 111 115 91 85	c -61 4 c 18 -59 c -24 c 7 -50 64 -41 7 -52 48 -3 -24 -212 -255 -109	14 12 5 4 4 4 3 4 8 8 11 (8) (8)	8 10 18 31 43 30 48 28 24 31 24 28 28	849 754 773 798 751 833 883 831 924 923 990 917 982 1,032	64 c 65 76 c 54 c 48 58 39 63 48 50 32 49
979 Average 980 Average 981 Average 982 Average 983 Average 984 Average 985 Average 986 Average 987 Average 989 Average 989 Average 990 Average 991 Average 992 Average 992 Average 993 January February March April May June July August September October November December Average 1994 January February March April May June July August September October November December Average 1994 January February March April May June July August Average 1994 January February March April May June July August August	721 711 745 711 730 806 816 817 828 863 862 878 915 956	69 70 63 44 67 67 110 88 106 111 115 91 85	4 ° 18 -59 ° -24 ° 7 -50 64 -41 7 -52 48 -3 -24 -212 -255 -109	12 5 4 4 3 4 8 11 (8) (s)	10 18 31 43 30 48 28 24 31 24 32 28 28	754 773 798 751 833 883 831 924 923 990 917 982 1,032	c 65 76 c 54 c 48 58 39 63 48 50 32 49
980 Average 981 Average 982 Average 983 Average 984 Average 985 Average 986 Average 987 Average 989 Average 999 Average 991 Average 992 Average 992 Average 993 January February March April May June July August September October November December Average 1994 January February March April May June July August September October November December Average 1994 January February March April May June July August September October November December Average	711 745 711 730 806 816 817 828 863 862 878 915 956	70 63 44 67 67 110 88 106 111 115 91 85	c 18 -59 -24 -7 -50 64 -41 7 -52 48 -3 -24 -212 -255 -109	5 4 4 3 4 8 8 11 (8) (8)	18 31 43 30 48 28 24 31 24 28 28 33	773 798 751 833 883 831 924 923 990 917 982	76 ° 54 ° 48 58 39 63 48 50 32 49 48
981 Average 982 Average 983 Average 984 Average 985 Average 986 Average 987 Average 989 Average 990 Average 991 Average 992 Average 992 Average 993 January February March April May June July August September October November December Average 1994 January February March April May June July August September October November December Average	745 711 730 806 816 817 828 863 862 878 915 956 968 964 966 980	70 63 44 67 67 110 88 106 111 115 91 85	-59 c-24 c7 -50 64 -41 7 -52 48 -3 -24 -212 -255 -109	4 4 3 4 8 8 11 (8) (6)	31 43 30 48 28 24 31 24 28 28	798 751 833 883 831 924 923 990 917 982 1,032	c 54 c 48 58 39 63 48 50 32 49
982 Average	711 730 806 816 817 828 863 862 878 915 956	63 44 67 67 110 88 106 111 115 91 85	c -24 c 7 -50 64 -41 7 -52 48 -3 -24 -212 -255 -109	4 4 3 4 8 8 11 (8) (s)	43 30 48 28 24 31 24 28 28 33	751 833 883 831 924 923 990 917 982 1,032	^c 48 58 39 63 48 50 32 49
983 Average	730 806 816 817 828 863 862 878 915 956 968 964 966 980	44 67 67 110 88 106 111 115 91 85 79 82 85	c -24 c 7 -50 64 -41 7 -52 48 -3 -24 -212 -255 -109	4 4 3 4 8 8 11 (8) (s)	30 48 28 24 31 24 28 28	833 883 831 924 923 990 917 982 1,032	58 39 63 48 50 32 49 48
984 Average	806 816 817 828 863 862 878 915 956 968 964 966 980	67 67 110 88 106 111 115 91 85 79 82 85	-7 -50 64 -41 7 -52 48 -3 -24 -212 -255	4 3 4 8 8 11 (8) (8)	30 48 28 24 31 24 28 28	833 883 831 924 923 990 917 982 1,032	39 63 48 50 32 49 48
985 Average	816 817 828 863 862 878 915 956 968 964 966 980	67 110 88 106 111 115 91 85 79 82 82	-50 64 -41 7 -52 48 -3 -24 -212 -255	3 4 8 8 11 (8) (s) (s)	48 28 24 31 24 28 28 28 33	883 831 924 923 990 917 982 1,032	63 48 50 32 49 48
986 Average	817 828 863 862 878 915 956 968 964 966 980	110 88 106 111 115 91 85 79 82 82	64 -41 7 -52 48 -3 -24 -212 -255 -109	4 8 8 111 (8) (8) (8)	28 24 31 24 28 28 33	831 924 923 990 917 982 1,032	63 48 50 32 49 48
986 Average	828 863 862 878 915 956 968 964 966 980	88 106 111 115 91 85 79 82 82	-41 7 -52 48 -3 -24 -212 -255 -109	8 8 11 (8) (8) (5)	24 31 24 28 28 33	924 923 990 917 982 1,032	48 50 32 49 48
987 Average	863 862 878 915 956 968 964 966 980	106 111 115 91 85 79 82 85	7 -52 48 -3 -24 -212 -255 -109	8 11 (8) (9) (9)	31 24 28 28 33	923 990 917 982 1,032	50 32 49 48
988 Average	862 878 915 956 968 964 966 980	111 115 91 85 79 82 85	-52 48 -3 -24 -212 -255 -109	11 (8) (8) (8) (8)	24 28 28 33	990 917 982 1,032	32 49 48
989 Average	978 915 956 968 964 966 980	115 91 85 79 82 85	48 -3 -24 -212 -255 -109	(8) (8) (8)	28 28 33	917 982 1,032	49 48
1990 Average	915 956 968 964 966 980	91 85 79 82 85	-3 -24 -212 -255 -109	(s) (s)	28 33	982 1,032	48
1991 Average	915 956 968 964 966 980	85 79 82 85	-24 -212 -255 -109	(s) 1	33	1,032	
1992 Average	956 968 964 966 980	85 79 82 85	-212 -255 -109	1		·	39
February	964 966 980	82 85	-255 -109		31	1,227	
February March April May June July August September October November December Average 1994 January February March April May June June June April Aday August August August	966 980	85	-109	(s)			32
March	966 980				37	1,264	. 25
April	980			(s)	32	1,129	22
May		100	238	(s)	40	809	29
June		96	266	`o	30	750	37
July	951		265	ŏ	23	754	45
August	967	75		ŏ	26	800	53
September	963	118	256		27	871	59
October	960	116	178	0		992	61
October	969	132	92	0	17		61
November	954	107	-11	Ō	13	1,059	-
December	963	138	-126	0	17	1,209	57
Average February March April June July Austantia	953	102	-195	0	25	1,225	51
February March April June July August	963	103	34	(8)	26	1,006	51
February March April May June July August	889	141	-566	o	19	1,577	34
March	905	128	-308	0	30	1,311	25
April	939	87	13	0	29	984	25
May June July August	978	83	188	Ō	20	852	31
June July August	976	90	306	Ŏ	20	741	41
July August		117	247	ŏ	20	827	48
August	978		221	ŏ	22	885	55
	977	151		ŏ	28	980	58
September	980	135	107	0	20	1,044	60
	1,008	133	77	-			55
October	954	164	-175	0	24	1,269	54
November	1,002	137	-43	0	27	1,155	54 46
December	1,034	127	-233	0	29	1,366	
Average	969	124	-13	0	24	1,082	46
1995 January	1,002	108	-350	ō	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	`ŏ	31	946	31
	1,042	73	204	Ŏ	29	882	37
May		114	187	ŏ	27	938	43
June	1,038		235	Ö	27	822	50
July	1,011	73			24	916	56
August	1,009	107	176	0			57
September	1,023	145	51	0	25	1,092	
9-Month Average	1,017	101	39	(8)	39	1,040	57
1994 9-Month Average	-	118	34 82	. 0 (s)	23 29	1,021 953	60 61

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.

(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, November 1995, Table S8.

See Note 4 at end of section.

Table 3.10 Other Petroleum Products Supply and Disposition

	Sur	ply		Dispo	sition		
	Total Production	Imports	Stock Change ^a	Refinery Inputs	Exports	Products Supplied	Ending Stocks ^b
			Thousand Ba	arrels per Day		*	Million Barre
1973 Average	2,833	290	1	750	400		
974 Average	2,722	269	25	750 665	162	2,211	179
975 Average	2,547	144	c_6	537	172 158	2,129	^C 188
976 Average	2,725	129	(8)	524		2,001	188
977 Average	2,939	130	20	524 514	172	2,158	188
978 Average	3,076	80	-12	492	164	2,371	195
979 Average	3,141	116	24	352	165 208	2,511	191
980 Average	2,957	130	15	310		2,673	200
981 Average	2,771	188	°-42	723	197	2,566	^c 205
982 Average	2,475	305	-68	723 787	197	2,081	241
983 Average	2,437	382	°-6		205	d 1,857	^c 216
984 Average	2,500	503	°-32	712	236	1,877	^c 217
985 Average	2,532	550	22	791	236	2,007	198
986 Average	2,704	504		886	227	1,947	206
987 Average	2,704 2,737	543	-15	888	291	2,045	201
988 Average	2,737 2,773	543 645	-1 00	829	264	2,187	200
ORO Averege			22	799	294	2,303	208
989 Average	2,771	627	12	797	305	2,285	213
990 Average	2,842	705	-32	887	289	2,402	201
991 Average	2,826	675	18	936	277	2,269	208
992 Average	2,928	707	-3	906	263	2,470	^c 207
993 January	⁶ 3,147	726	^c 739	929	⁸ 271	⁰ 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	2,733 2,654	
September	3,067	800	-268	1,104	282	•	236
October	3,195	810	-114	1,189	369	2,749	228
November	3,080	795	-222	1,355		2,561	224
December	2,816	678	-376		309	2,433	217
Average	3,035	770	-2	1,403 1,081	349 300	2,117 2,426	206 206
994 January	2,712	838	511	E0E	050		
February	2,790	743	277	585 612	256	2,198	222
March	2,777	810	52	613 934	248	2,394	229
April	2,914	783	-126		361	2,241	231
May	3,078	763 773	-126 -64	1,016	272	2,534	227
June	3,131	773 726		1,009	288	2,617	225
July	3,158	726 746	-103	887	331	2,742	222
August	3,093	746 797	80 46	759	361	2,704	225
September	3,088		-46 50	803	411	2,721	223
		695 700	50 70	745	388	2,600	225
October	3,067	700 740	-72 47	902	300	2,636	223
November	3,001	749	47	1,013	344	2,347	224
December Average	2,852 2,973	762 76 1	-298 24	1,049 86 1	386 329	2,478 2,518	215 215
995 January							
	2,819	563	383	634	324	2,041	227
February	2,914 2,707	802 660	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
June	3,099	649	-135	893	403	2,588	224
July	3,276	763	-48	1,069	326	2,692	223
August	3,246	727	-233	1,119	372	2,714	216
September	3,216	756	-64	1,045	348	2,643	214
9-Month Average	3,019	690	-7	906	346	2,463	214
94 9-Month Average	2,972	769	69	818	325	2,528	225
93 9-Month Average	3,036	773	77	1,002	286	2,445	228

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

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

Sources: • 1973-1980: Energy Information Administration (EIA), Petroleum Supply Monthly, February 1993, Table S9. • 1981 forward: EIA, Petroleum Supply Monthly, November 1995, Table S10.

b Stocks are totals as of end of period.

See Note 4 at end of section.

d See Note 6 at end of section.

⁶ Beginning in 1993, other petroleum products production, exports, and products supplied include an adjustment to oxygenates and motor gasoline blending components.

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

Petroleum Notes

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

Section 4. Natural Gas

Total dry natural gas production in the United States during October 1995 was an estimated 1.5 trillion cubic feet, slightly lower than production during the previous October.

Consumption of natural and supplemental gas in October 1995 was 1.5 trillion cubic feet, 5 percent⁴ above the level in October 1994.

Deliveries to residential consumers in September 1995 (latest date for which data are available) were 136 billion cubic feet, 5 percent above the previous September's deliveries. Deliveries to residential consumers during the first 3 quarters of 1995 were 3.4 trillion cubic feet, 6 percent less than residential deliveries during the first 3 quarters of 1994. Total deliveries to industrial customers during September 1995 were 642 billion cubic feet, 5 percent lower than the previous September's level. Deliveries to industrial consumers during the first

3 quarters of 1995 were 6.3 trillion cubic feet, 5 percent higher than industrial deliveries during the first 3 quarters of 1994.

Imports of natural gas in October 1995 were 220 billion cubic feet, 1 percent lower than imports in the previous October.

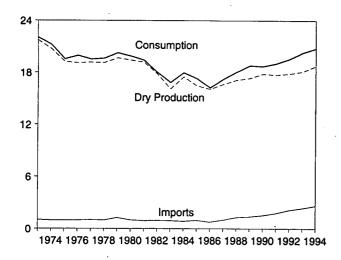
Stocks of working gas⁵ in underground natural gas storage reservoirs at the end of October 1995 totaled 3.0 trillion cubic feet, 3 percent below the level of stocks available 1 year earlier. Net injections into storage during October 1995 were 192 billion cubic feet, 13 percent higher than the amount of net injections during the previous October.

⁴Percentage changes are based on unrounded data.

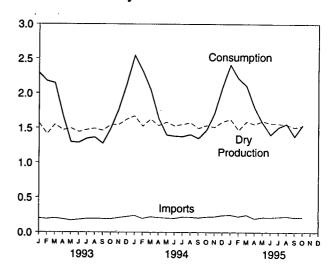
⁵Gas available for withdrawal.

Figure 4.1 Natural Gas

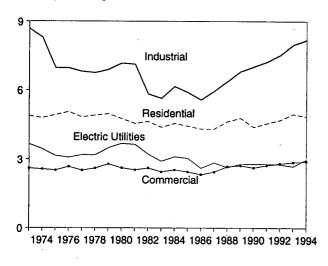
Overview, 1973-1994



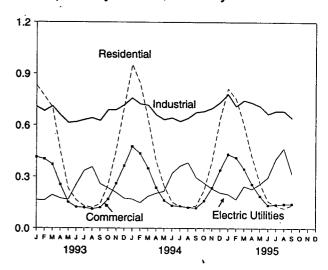
Overview, Monthly



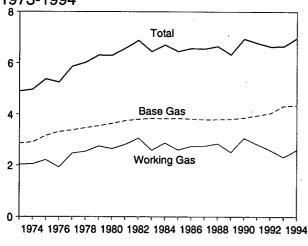
Consumption by Sector, 1973-1994



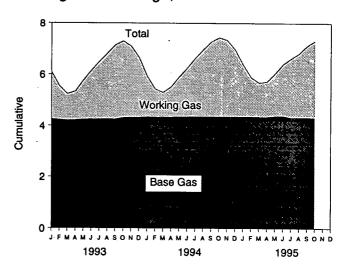
Consumption by Sector, Monthly



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

	Gross Withdrawals ^a	Repressuring ^b	Nonhydro- carbon Gases Removed ^c	Vented and Flared ^d	Marketed Production (Wet) ^e	Extraction Loss ^f	Total Dry Gas Production
	Withdrawais	Repressuring	Hemoved	110.00	(,		
973 Total	24,067	1,171	NA	248	^h 22,648	917	^h 21,731
974 Total	22,850	1,080	NA	169	^h 21,601	887	ի 20,713
975 Total	21,104	861	NA	134	^h 20,109	872	^h 19,236
976 Total	20,944	859	NA	132	^h 19,952	854	^h 19,098
977 Total	21,097	935	NA NA	137	^h 20.025	863	^h 19,163
	21,309	1,181	NA.	153	^h 19,974	852	^h 19,122
978 Total	21,883	1,245	NA NA	167	^h 20,471	808	^h 19,663
979 Total	•	1,365	199	125	20,180	777	19,403
980 Total	21,870	•	222	98	19,956	775	19,181
981 Total	21,587	1,312			18,582	762	17,820
982 Total	20,272	1,388	208	93	•	790	16,094
983 Total	18,659	1,458	222	95	16,884		
984 Total	20,267	1,630	224	108	18,304	838	17,466
985 Total	19,607	1,915	326	95	17,270	816	16,454
986 Total	19,131	1,838	337	98	16,859	800	16,059
987 Total	20,140	2,208	376	124	17,433	812	16,621
988 Total	20,999	2,478	460	143	17,918	816	17,103
989 Total	21,074	2,475	362	142	18,095	785	17,311
990 Total	21,523	2,489	289	150	18,594	784	17,810
991 Total	21,750	2,772	276	170	18,532	835	17,698
992 Total	22,132	2,973	280	168	18,712	872	17,840
992 10tal	22,132	2,070			,		•
000 Innuant	1,965	R 264	35	R 19	^R 1,648	77	^R 1,571
993 January	R 1,768	R 236	31	R 19	R 1,481	69	R 1,412
February		R 264	35	R 18	R 1,626	76	R 1,550
March	1,943			R 19	R 1,542	70 72	R 1,470
April	1,843	R 248	33	R ₂₀	R 1,568	72	R 1,495
May	1,879	R 256	35	20 Bas	" 1,500 B 4 545		R 1,444
June	1,795	R 230	27	R 22	R 1,515	71 R ₇₂	R 1,444
July	^R 1,850	R 247	36	^R 20	R 1,548		"1,4/5 B4 400
August	1,871	R 252	37	^R 16	R 1,566	73	R 1,493
September	1,832	^R 244	、 35	<u>P</u> 18	^R 1,536	. 72	R 1,464
October	R 1,950	^R 274	36	^R 19	^R 1,621	R 76	^R 1,545
November	^R 1,966	^R 287	36	R 17	^R 1,625	76	R 1,549
December	R 2,063	R 301	37	^R 19	^R 1,706	80	^R 1,627
Total	R 22,726	^R 3,103	414	R 227	^R 18,982	886	^R 18,095
994 January	^R 2,134	^R 326	^R 36	R 19	^R 1,752	79	^R 1,673
February	R 1,958	R 309	R 33	R 19	^R 1,597	R 72	^R 1,525
March	^R 2,058	R 297	^R 36	R 19	^R 1,707	R 77	^R 1,630
	R 1,919	P 259	^R 35	R 18	R 1,607	R 73	^R 1,534
April	^R 1,982	^R 268	34	R 18	R 1,662	R 75	R 1,587
May	R 1,901	^R 248	R 29	R 20	R 1,604	R 73	1,531
June	"1,901 B 1 007	Ro40	R 33	R 20	R 1,626	R 74	R 1,553
July	R 1,927	R 248	R 34	R 19	B 4 050	R 75	R 1,533
August	^R 1,977	R 273	''34 P = =		R 1,652	975	1,3// R 4 400
September	R 1,888	R 266	R 35	R 20	R 1,567	8 71	R 1,496
October	^R 1,957	R ₂₉₀	R 37	R 19	R 1,611	^R 73	R 1,538
November	^R 1.898	R 260 .	^R 35	^R 19	^R 1,584	R 72	R 1,512
December	^R 2.010	^R 288	^R 37	R 19	_ ^R 1,666	_ ^R 75	_ ^R 1,591
Total	R 23,609	^R 3,333	R 412	R 228	R 19,635	R 889	^R 18,747
995 January	R 2,079	328	32	10	R 1,710	80	R 1,630
February	^R 1,876	300	28	9	^R 1.539	72	H 1.468
March	R 2,025	313	30	R 10	^H 1.672	R 78	R 1.594
April	R 1,976	R 302	30	R 10	R 1,633	R 76	H 1.557
	^R 2,031	313	31	R 10	^R 1.678	R 78	^R 1,600
May	R 1,981	293	29	R 14	R 1,646	R 77	^R 1.569
June	R 1,973	289	30	14	R 1,640	^R 76	R 1,563
July	1,973 B 1,000	R 296			R 1,624	R 76	R 1,549
August	R 1,962		29	12 R 13	1,024 E 4 500	E 74	E 1,509
September	^R 1,907	R 283	_ 28	"13 F 13	E 1,583	E 75	- 1,509 E 1 501
October	E 1,936	E 288	E 29	E 13	E 1,606	- /5 F=04	E 1,531
10-Month Total	E 19,746	E 3,004	E 296	E 115	E 16,331	E 761	E 15,570
994 10-Month Total	19,701	2,785	340	191	16,385	741	15,644
1993 10-Month Total	18,697	2,516	341	190	15,650	731	14,919

^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.

See Note 1 at end of section.
 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.

9 "Gross Withdrawals" minus "Repressuring," "Nonhydrocarbon Gases
Removed," and "Vented and Flared." See Note 2 at end of section.

1 See Note 3 at end of section.

^{9 &}quot;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: • 1973-1988: Energy Information Administration (EIA), Natural Gas Annual 1994, Table 99. • 1989 forward: EIA, Natural Gas Monthly, December 1995, Table 1.

Table 4.2 Natural Gas Supply and Disposition

		,	Supply]		Dispositio	n
	Total	Withdrawals	Supplemental		Delegaine	Total	Additions		
	Dry Gas Production	from Storage ^a	Gaseous Fuels ^b	Imports	Balancing Item ^b	Supply/ Dispositiond	to Storage ^a	Exportsc	Consumption ^b
1973 Total	^e 21,731	1,533	NA NA	1,033	-196	04 101	4 074	77	00.040
1974 Total	e 20,713	1,701	NA NA	959	-196 -289	24,101 23,084	1,974 1,784	77 77	22,049
1975 Total	⁶ 19,236	1,760	NA NA	953	-209 -235	23,064 21,714	2,104	77 73	21,223 19,538
1976 Total	⁶ 19,098	1,921	NA NA	964	-216	21,767	1,756	65	19,946
1977 Total	⁶ 19,163	1,750	NA 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	¹ -703	18,712	1,822	55	16,835
1984 Total	17,466	2,098	110	843	¹ -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	^R 1,571	^R 644	13	200	^R -95	R 2,333	^R 25	17	^R 2,291
February	^H 1.412	^R 620	11	191	R -38	R 2.196	^R 10	12	R 2.174
March	^R 1,550	^R _405	12	204	R 57	^R 2,228	R 67	16	R 2.145
April	^R 1,470	R 90	10	189	^R 148	^R 1.907	R 212	11	^R 1.683
May	^R 1,495	R 17	7	171	R 111	R 1,801	R 488	11	^R 1.301
June	R 1,444	R 23	9	182	R 81	^R 1,740	R 437	11	R 1,292
July	R 1,475	R 22	8	195	R 72	R 1,772	R410	13	R 1,350
August	R 1,493	R 33	8	197	R 32	R 1,763	R 385	11	^R 1,368
September	R 1,464	R 13 R 90	8	194	R 14	R 1,692	R 403	10	R 1,279
October	R 1,545	R312	10	192	^R -75 ^R -209	R 1,762	R 261	9	R 1,492
November December	^R 1,549 ^R 1,627	R 530	11 13	210 225	R -208	^R 1,873 ^R 2,186	R 94 R 42	10	R 1,770
Total	R 18,095	2,799	119	2,350	R-111	R 23,253	2,835	10 140	2,134 R 20,278
1994 January	^R 1.673	R 841	R 13	241	^R -182	^R 2,586	R 29	11	^R 2,546
February	R 1,525	R 598	R 11	199	R 48	^R 2,381	R 44	13	P 2,324
March	^R 1,630	R 243	R 10	223	R 65	^R 2,170	R 100	19	^R 2,051
April	R 1.534	R 61	Rg	212	R 130	^R 1,945	R 294	9	R 1,642
May	^R 1,587	^R 17	R 8	206	R 38	^R 1.857	R 447	8	R 1,402
June	1.531	R 30	^R 8	201	R 26	^R 1.796	^R 397	13	^R 1,386
July	^R 1,553	R 19	8 A	221	R 19	^R 1,820	R 429	11	^R 1.380
August	R 1.577	R 22	^R 8	219	^R -16	^R 1.810	R 388	14	^H 1.408
September	^R 1,496	P 14	R 8	210	_ ^R 1	^R 1,729	^R 360	14	^R 1.354
October	^R 1,538	R 47	Rg	222	^R -105	^R 1,710	R 229	13	^H 1.468
November	R 1,512	R 204	. ^R 9	226	^R -127	R 1,825	R 100	19	^R 1,706
December	R 1,591	R 465	R 11	245	161	^R 2,152	R 49	18	2,085
Total	R 18,747	R 2,562	^R 111	2,624	^R -264	R 23,780	^R 2,865	162	^H 20,754
1995 January	^R 1,630	620	14	251	R ₋₄₈	^R 2,466	. 41	14	R 2,412
February	^R 1,468	543	12	228	^R 18	R 2,268	42	13	R _{2,213}
March	R 1,594	314	12	250	R 54	R 2,225	101	15	H 2.109
April	R 1,557	121	9	199	R 91	R 1,978	168	14	R 1,796
May	R 1,600	31	10	217	R 82	R 1,939	351	13	R 1,575
June	R 1,569	37	10	217	R-21	R 1,812	391	16	R 1,405
July	^R 1,563 ^R 1,549	51	10	222 R 230	R 20 R -17	R 1,867	344	13	R 1,511
August	1,549 E 1,509	83 27	10	^N 230 ^R 216	''-1/ B 40	R 1,854	278	16	R 1,560
September	E 1,509	27 65	9		R-42	R 1,719	323	14	R 1,382
October 10-Month Total	E 15,570	65 1,892	10 106	220 2,250	-15 120	1,811 19,939	257 2,294	12 140	1,542 17,505
1994 10-Month Total				•			•		16,962
INNA ILEMONTO IOTAL	15,644	1,893	90	2,153	24	19,803	2,717	125	1K UE7

^a Data for 1980-1993 include underground storage and liquefied natural gas storage. All other data include underground storage only. Computation gas storage. All other data include underground storage only. Computate 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.

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.

Table 4.3 Natural Gas Trade by Country

		lm	ports			Ехр	orts	
	Canada ^a	Algeria ^b	Otherc	Total	Canadaa	Mexico ^a	Japan ^b	Total
973 Total	1,028	3	2	1,033	15	14	48	77
974 Total	959	ŏ	(8)	959	13	- 13	50	77
	948 ·	5	0	953	10	9	53	73
975 Total		10	.0	964	8	ž	50	65
976 Total	954		2			Ä	52	56
977 Total	997	11		1,011	(8)	7	48	53
978 Total	881	84	0	966	(8)	4		
79 Total	1,001	253	0	1,253	(8)	4	51	56
80 Total	797	86	102	985	(8)	4	45	49
81 Total	762	37	105	904	(8)	3	56	59
82 Total	783	55	95	933	(8)	2	50	52
983 Total	712	131	75	918	(8)	2	. 53	55
984 Total	755	36	52	843	(s)	2	53	55
985 Total	926	24	0	950	(8)	2	53	55
	749	0	ž	750	9	2	50	61
986 Total	993	ŏ	ō	993	3	2	49	54
987 Total		-	ŏ		20	2	52	74
988 Total	1,276	17	-	1,294		17	52 51	107
989 Total	1,339	42	0	1,382	. 38			
990 Total	1,448	84	0	1,532	17	16	53	86
991 Total	1,710	64	0	1,773	15	60	54	129
992 Total	2,094	43	0	2,138	68	96	53	216
993 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	Ö	171	3	4	4	11
	175	8	ŏ	182	3	4	· 3	11
June		_	Ö		4	4	5	13
July	187	8	_	195	•	3	5	
August	192	5	Ō	197	3	-		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
994 January	229	10	2	241	4	. 2	5	11
February	193	5	1	199	8	1	4	13
March	213	8	2	223	12	1	6	19
April	204	8	ō	212	4	1	4	9
	199	5	ž	206	ġ	ż	4	8
May		5	ī	201	6	1	6	13
June	194	5			3	2	6	11
July	213	8	0	221	-		_	
August	219	0	0	219	1	7	6	14
September	207	3	o o	210	2	7	6	14
October	222	0	0	222	. 2	6	6	13
November	226	0	. 0	226	4	9	6	19
December	245	0	0	245	4	6	7	18
Total	2,566	51	7	2,624	53	47	63	162
995 January	248	3	(s)	251	3	6	6	14
February	225	3	Õ	228	2	6	6	13
	247	3	(s)	250	. 3	7	. 6	15
March		ő	(5)	199	3	6	. 6	14
April	199				2	7	4	13
May	215	3	0	217			6	
June	217	0	0	217	3	8		16
July	222	0	0	222	3	5	6	13
August	R 227	3	0	R 230	3	6	8	16
September	^R 216	0	0	^R 216	3	6	6	14
October	220	0	0	220	3	6	4	12
10-Month Total	2,237	13	Ō	2,250	25	61	54	140
994 10-Month Total	2,095	51	7	2,153	44	31	50	125
	_,	67	ò		39	37	45	120

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

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

As liquefied natural gas.
Cother imports are from Mexico, except for 1986, when they came from Indonesia.

Sources: • 1973-1988: Energy Information Administration (EIA), Form FPC-14, "Annual Report for Importers and Exporters of Natural Gas." • 1989 forward: EIA, Natural Gas Monthly, December 1995, Tables 5 and 6.

Table 4.4 Natural Gas Consumption by End-Use Sector

				Deliv	ered to Consum	ers	F	
	Lease and Plant Fuel	Pipeline Fuel ^a	Residential	Commercial ^b	Industrial	Electric Utilities	Total	Total Consumption
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
983 Total	978	490	4,381	2,433	5,643	2,911	15,367	16,835
984 Total	1,077	529	4,555	2,524	6,154	3,111	16,345	17,951
985 Total	966	504	4,433	2,432	5,901	3,044	15,811	17,281
986 Total	923	485	4,314	2,318	5,579	2,602	14,814	16,221
987 Total	1,149	519	4,315	2,430	5,953	2,844	15,542	17,211
988 Total	1,096	614	4,630	2,670	6,383	2,636	16,320	18,030
989 Total	1,070	629	4,781	2,718	6,816	2,787	17,102	18,801
990 Total	1,236	660	4,391	2,623	7,018	2,787	16,820	18,716
991 Total	1,129	601	4,556	2,729	7.231	2,789	17,305	19,035
992 Total	1,171	588	4,690	2,803	7,527	2,766	17,786	19,544
993 January	^R _101	72	831	R415	^R 707	164	^R 2,118	^R 2,291
February	^R 91	68	768	403	681	162	^R 2,014	^R 2,174
March	R 100	67	703	371	710	194	_ 1,978	R 2,145
April	^R 95	52	450	254	^R 658	174	^R 1,536	^R 1,683
May	^R 97	39	232	152	614	167	^R 1,165	R 1,301
June	^R 93	39	164	123	618	255	_ 1,160	^H 1,292
July	^R 95	41	130	119	631	334	^R 1,213	^R 1,350
August	97	42	120	111	_ 641	357	^R 1,229	^R 1,368
September	95	39	142	120	^R 626	258	_ 1,146	^R 1,279
October	^R 100	45	R 254	169	R 688	235	^R 1,346	^R 1,492
November	R 101	55	457	_ 260	R 688	208	^R 1,614	^R 1,770
December	R 106	66	_ 705	_ ^R 363	_ ^R 718	174	1,961	_ 2,134
Total	R 1,172	624	^R 4,956	^R 2,862	^R 7,981	2,682	^R 18,482	^R 20,278
994 January	^R 104	R 85	R 953	R 476	^R 758	170	R 2,357	R 2,546
February	_ 96	R 78	R 842	R 436	R 724	149	^R 2,151	R 2,324
March	^R 101	R 68	^R 631	R 349	^R 716	186	R 1,882	R 2,051
April	R 95	R 54	R 392	R 237	R 660	204	R 1,493	R 1,642
May	R 98	R 46	R 247	^R 163	^R 632	216	^R 1,258	R 1,402
June	R 94	R 45	^R 154	R 132	R 642	319	^R 1,247	R 1,386
July	R 95	R 45	R 127	R 129	R 622	362	1,240	^R 1,380
August	R 97	R 46	R 122	R 121	^R 640	382	^R 1,264	R 1,408
September	R 93	R 44	R 130	R 118	R 674	296	1,217	R 1,354
October	R 96	R 48	R 221	R 160	R 680	264	R 1,324	R 1,468
November	R 93	R 56	R 391	R 236	R 698	231	R 1,557	^R 1,706
December	R 99	_R 69	R 638	R 338	R 733	208	R 1,917	2,085
Total	R 1,161	R 685	R 4,848	R 2,895	^R 8,178	2,987	^R 18,908	R 20,754
1995 January	R _{_107}	^R 80	^R 813	R 432	^R 781	199	2,225	R 2,412
February	_ ^R 96	^R 73	R 752	R 413	R710	169	^R 2,043	^R 2.213
March	^R 105	^R 70	^R 601	R 345	R 744	245	^R 1,935	R 2.109
April	R 102	^R 59	R 418	R 256	^R 731	229	^R 1,634	^R 1,796
May	^R 105	R 52	R 262	R 188	R710	258	^R 1,418	^R 1,575
June	^R 103	R 46	^R 159	R 135	R 665	297	1,256	^R 1,405
July	^R 103	^R 50	^R 133	^R 139	^R 682	405	^R 1,358	^R 1,511
August	^R 102	R 52	116	^R 142	^R 682	467	^R 1,407	^R 1,560
September	99	46	136	143	642	316	1,238	1,382
9-Month Total	922	527	3,390	2,194	6,347	2,583	14,514	15,963
1994 9-Month Total	873	511	3,598	2,161	6,067	. 2,284	14,110	15,494
1993 9-Month Total	865	458	3,540	2,069	5,886	2,065	13,560	14,883

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

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: • 1973-1988: Energy Information Administration (EIA), Natural Gas Annual 1994, Table 101. • 1989 forward: EIA, Natural Gas Monthly, December 1995, Table 3.

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.

Table 4.5 Natural Gas in Underground Storage

(Volumes in Billion Cubic Feet)

	υ	Natural Gas In nderground Storag End of Period	θ,	Change In W from Sam Previou	e Period		Storage Activity	
	Base Gas	Working Gas	Totala	Volume	Percent	Injections ^b	Withdrawalsb	Net ^c
1973 Total	2,864	2,034	4.898	305	17.6	1,974	1,533	442
974 Total	2,912	2,050	4,962	16	.8	1,784	1,701	84
975 Total	3,162	2,212	5,374	162	7.9	2,104	1,760	344
	3,323	1,926	5,250	-286	-12.9	1,756	1,921	-165
976 Total		•		549	28.5	•	1,750	557
977 Total	3,391	2,475	5,866			2,307		120
978 Total	3,473	2,547	6,020	72	2.9	2,278	2,158	
979 Total	3,553	2,753	6,306	207	8.1	2,295	2,047	248
980 Total	3,642	2,655	6,297	-99	-3.6	1,896	1,910	-14
981 Total	3,752	2,817	6,569	162	6.1	2,180	1,887	293
982 Total	3,808	3,071	6,879	255	9.0	2,399	2,094	306
983 Total	3,847	2,595	6,442	-476	-15.5	1,700	2,142	-442
984 Total	3,830	2,876	6,706	281	10.8	2,252	2,064	188
985 Total	3,842	2,607	6,448	-270	-9.4	2,128	2,359	-231
986 Total	3,819	2,749	6,567	142	5.5	1,952	1,812	140
987 Total	3,792	2,756	6,548	7	.3	1,887	1,881	6
988 Total	3,800	2,850	6,650	94	3.4	2,174	2,244	-69
989 Total	3,812	2,513	6,325	-337	-11.8	2,491	2,804	-313
990 Total	3,868	3,068	6,936	555	22.1	2,433	1,934	499
	3,954	2,824	6,778	-244	-8.0	2,608	2,689	-80
991 Total 992 Total	4,044	2,597	6,641	-227	-8.0	2,555	2,724	-168
993 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
	4,257	1,895	6,151	-258	-12.0	410	36	374
June		2,240	6,497	-219	-8.9	385	35	350
July	4,256					364	45	319
August	4,263	2,554	6,817	-207	-7.5 5.0			
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
994 January	4,348	1,579	5,927	-247	-13.5	R 35	R 792	R -758
February	4,337	1,091	5,428	-212	-16.3	R 50	R 567	R-517
March	4,343	958	5,301	<u>-</u> -71	-6.9	R 106	^R 240	R-13
April	4,345	1,172	5,517	^R 51	4.6	^R 286	68	R 218
May	4,352	1,554	5,906	33	2.2	R 427	_ 25	R 400
June	4,352	1,896	6,248	2	.1	^R 381	R 37	R 344
July	4,355	2,273	6,629	33	1.5	R 410	R 26	R 384
August	4,355	2,607	^R 6,961	R 52	2.1	^R 373	, R30	R 343
September	4,353	2,912	^R 7,266	28	1.0	^R 345	21	R 324
October	4,354	3,075	7,429	97	3.3	R 224	R ₅₄	P 176
November	4,353	2,978	7,331	R 215	7.8	R 105	R 204	R -99
December	4,360	2,606	6,966	284	12.2	54	R 443	R-389
Total	4,360	2,606	6,966	284	12.2	R 2,796	R 2,508	R 28
995 January	4,356	2,032	6,388	453	28.7	41	620	-579
February	4,359	1,531	5,890	440	40.4	42	543	-50
March	4,353	1,323	5,676	366	38.2	101	314	-214
April	4,351	1,371	5,723	199	17.0	168	121	4
					6.8	351	31	320
May	4,384	1,661	6,045	106				
June	4,390	2,011	6,401	114	6.0	391	37	353
July	4,323	2,301	6,624	27	1.2	344	51	29
August	4,322	2,499	6,821	-108	-4.1	278	83	19
September	4,323	2,790	7,113	-122	-4.2	323	27	29
October	4,319	2,992	7,311	-83	-2.7	257	65	192

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

ending stocks. See Note 8 at end of section.

R=Revised data.

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

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

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 es-

timated 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, propaneair, 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:

1001, 1	vas.		
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

1973-1988

Total Dry Gas Production: Energy Information Administration (EIA), Natural Gas Annual 1994, Table 99. Withdrawals from Storage, 1973-1975 and 1980-1986: EIA, Natural Gas Annual 1994, Table 100. Withdrawals from Storage, 1976-1979: EIA, Natural Gas Production and Consumption 1979, Table 1. Supplemental Gaseous Fuels: EIA, Natural Gas Annual 1994, Volume 2, Table 12. Imports, Additions to Storage, Exports, and Consumption: EIA, Natural Gas Annual 1994, Table 100. Total Supply/Disposition: Sum of disposition items. Balancing Item: Total supply/disposition minus all other supply items.

1989 forward

EIA, Natural Gas Monthly, December 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: EIA, Natural Gas Annual 1992, Volume 2, Table 11.

1993 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.

1979-1988: EIA, Form EIA-191, "Underground Gas Storage Report," and FERC, Form FERC-8, "Underground Gas Storage Report."

1989 forward: EIA, Natural Gas Monthly, December 1995, Table 13.

•			

Section 5. Oil and Gas Resource Development

The November 1995 rotary rig count of 772 was 1 percent more than the count in the previous month but 8 percent lower than the count in November 1994. Of the total number of rigs in operation, 668 were onshore and 104 were offshore. The number of onshore rigs was down 8 percent from the number in November 1994, and the number of offshore rigs was down 2 percent.

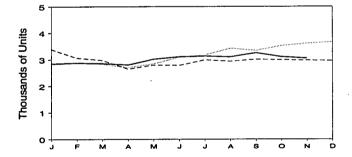
Total footage drilled in November 1995 was 8.33 million feet, down 13 percent from footage drilled in October 1995 and down 22 percent from that drilled in November 1994.

The estimated number of exploratory and development oil and gas wells drilled during November 1995 was 984, 22 percent lower than the number drilled in October 1995 and 27 percent lower than the number drilled in November 1994. The estimated number of oil wells drilled was 456, and the estimated number of gas wells was 528, 20 percent lower and 32 percent lower, respectively, than their November 1994 levels. The estimated number of dry holes drilled in November 1995 was 262, down 22 percent from the number drilled in October 1995 and 40 percent lower than the number drilled in November 1994.

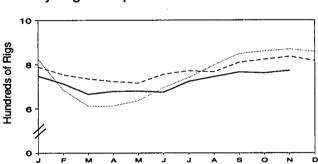
Seismic activity statistics are not available for this month. The Society of Exploration Geophysics, source of these data, is reorganizing its survey effort. An alternative source of seismic crew data is the World Geophysical Report by Petroleum Information Corporation.

Figure 5.1 Oil and Gas Resource Development Indicators

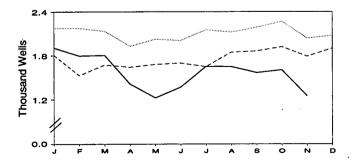
Active Well Servicing Units



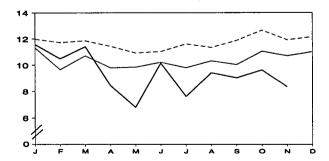
Rotary Rigs in Operation



Wells Drilled



Footage Drilled



Sources: Tables 5.1 and 5.2.

1995 1994

.... 1993

Table 5.1 Oil and Gas Drilling Activity Measurements

		ews Engaged smic Explora			Rotary R	ligs in Ope	rationa			,
				Ву	Site	Ву Т	уре		Total Footage	Active Well Servicing
	Offshore	Onshore	Total	Offshore	Onshore	Oii	Gas	Totalb	Drilledc	Unitsd
	Me	onthly Avera	ge		Wee	ekly Avera	ge		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	493 637	530	231 256	2,678	NA NA	NA NA	2,909	312,303	4,089
1981 Average	44 57	531	681 588	243	3,714 2,862	NA NA	NA NA	3,970 3,105	408,842 378,437	4,850 4,248
1982 Average	47	426	473	199	2,033	NA	NA NA	2,232	318,585	3,732
1983 Average 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		64 65	79	73	564	323	294 327	637	10,915	2,848
June	17	65 65	82 80	83	612 656	350 368	360	695 741	11,020	3,087
July	15 16	66	80 82	85 87	710	397	390	741 797	11,601 11,332	3,178 3,423
August	18	66	84	89	759	418	421	848	11,864	3,341
September October	15	66	81	93	767	441	411	860	12,647	3,519
November	17	65	82	99	769	453	408	868	R 11,905	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 140,387	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		65 60	.87	104	612	320	382	716	9,839	2,798
June	20	69	89 87	113	643	331	408	756	10,206	2,785
July	23	64 NA	87 NA	107	664 671	341	415	771. 766	9,790 10.311	2,992
August		NA NA	NA NA	95 97	671 712	320 325	433 471	766 809	10,311 10,026	2,941 3,010
September October	NA NA	NA NA	NA NA	99	712	325 342	467	822	11,036	2,991
November	NA NA	NA NA	NA NA	106	723 729	361	460	835	R 10,697	2,977
December	NA NA	NA	NA NA	107	709	354	447	816	11,002	2,964
Average	NA	NA	NA	102	673	335	427	775	R 124,368	2,961
1995 January	NA	NA	NA	106	642	325	411	748	11,567	2,855
February	NA	NA	NA	100	613	326	375	713	10,482	2,877
March	NA	NA	NA	90	575	322	331	665	11,394	2,862
April		NA	NA	91	587	328	336	678	8,437	2,806
May		NA	NA	100	579	325	335	679	^R 6,783	3,020
June		NA	NA	96	578	301	352	674	10,141	3,107
July		- NA	NA	104	619	301	399	723	7,598	3,133
August		NA .	NA	103	642	327	399	745	9,400	3,103
September		NA	NA	103	662	333	413	765	9,021	3,255
October		NA NA	NA	105	656	332	414	761 770	9,608	3,105 E 2 050
November 11-Month Average	NA NA	NA NA	NA NA	104 100	668 619	330 322	430 380	772 719	8,331 102,762	E 3,050 E 3,016
	•• •		•						•	
1994 11-Month Average	NA	NA	NA	101	669	333	424	771	113,366	2,960

^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.

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.

Sum of oil, gas, and miscellaneous other rigs, which is not shown.

Values shown are totals.

See Glossary.

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

Table 5.2 Oil and Gas Wells Drilled

(Number of Wells)

		Explo	ratory		Development				Total			
	Oil	Gas	Dry	Total	Oil	Gas	Dry	Total	Oil	Gas	Dry	Total
973 Total	654	1,079	6,038	7,771	9,597	5,896	4,428	19,921	10,251	6,975	10,466	27,692
974 Total	870	1,205	6,894	8,969	12,794	5,965	5,311	24,070	13,664	7,170	12,205	33,039
975 Total	991	1,263	7,207	9,461	15,988	6,907	6,529	29,424	16,979	8,170	13,736	38,88
976 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
977 Total	1,183	1,562	7,402	10,147	17,517	10,557	7,634	35,708	18,700	12,119	15,036	45,85
978 Total	1,191	1,792	8,054	11,037	17,874	12,613	8,537	39,024	19,065	14,405	16,591	50,06
	1,335	1,920	7,478	10,733	19,368	13,250	8,560	41,178	20,703	15,170	16,038	51,91
979 Total		2,094	9,035	12,910	30,497	15,129	11,302	56,928	32,278	17,223	20,337	69,83
980 Total	1,781		12.297			17,374	14,987	72,537	42,843	19,907	27,284	90,03
981 Total	2,667	2,533		17,497	40,176			68,484	39,142	18,944	26,382	84,46
982 Total	2,470	2,168	11,346	15,984	36,672	16,776	15,036		•	•	,	76,09
983 Total	2,113	1,660	10,271	14,044	35,086	12,896	14,065	62,047	37,199	14,556	24,336	•
984 Total	2,335	1,599	11,482	15,416	40,250	15,413	14,315	69,978	42,585	17,012	25,797	85,39
985 Total	1,879	1,282	9,445	12,606	33,142	12,970	11,763	57,875	35,021	14,252	21,208	70,48
986 Total	988	733	5,511	7,232	17,713	7,402	7,255	32,370	18,701	8,135	12,766	39,60
987 Total	859	673	5,179	6,711	15,327	7,084	6,302	28,713	16,186	7,757	11,481	35,42
988 Total	792	663	4,766	6,221	12,530	7,575	5,476	25,581	13,322	8,238	10,242	31,80
989 Total	580	654	4,001	5,235	9,759	8,571	4,490	22,820	10,339	9,225	8,491	28,05
990 Total	628	641	3,855	5,124	11,522	10,064	4,757	26,343	12,150	10,705	8,612	31,46
991 Total	573	534	3,393	4,500	11,335	8,918	4,521	24,774	11,908	9.452	7,914	29,27
992 Total	505	R 411	2,656	R 3,572	8,518	R 7,680	R 3,976	R 20,174	9,023	^R 8,091	^R 6,632	R 23,74
993 January	47	41	162	250	662	973	290	1,925	709	1,014	452	2,17
February	33	48	177	258	615	971	330	1,916	648	1,019	507	2,17
March	28	35	184	247	677	963	248	1,888	705	998	432	2,13
April	51	30	218	299	615	676	338	1,629	666	706	556	1,92
May	44	43	175	262	636	705	421	1,762	680	748	596	2,02
	R 47	35	225	R 307	R 657	689	352	R 1,698	704	724	577	2,00
June		35	264	336	716	611	490	1,817	753	646	754	2,15
July	37	R 44		R 311		R 694	346	R 1,809	799	738	583	2,12
August	30		237		769							
September	39	38	231	308	736	745	397	1,878	775	783	628	2,18
October	46	56	210	312	777	824	353	1,954	823	880 ^R 757	563 R 535	2,26 R 2,03
November	38	R 47	212	R 297	705	R710	R 323	R 1,738	743			
December	42	_ 43	218	_ 303	695	746	327	1,768	737	789	545	2,07
Total	R 482	R 495	2,513	^R 3,490	^R 8,260	^R 9,307	R 4,215	R 21,782	8,742	^R 9,802	R 6,728	R 25,27
994 January	51	51	196	298	616	647	243	1,506	667 552	698 644	439 332	1,80 1,52
February	28	38	123	189	524	606	209	1,339				
March	32	62	154	248	517	666	242	1,425	549	728	396	1,6
April	54	ຼ52	161	267	489	644	242	1,375	543	696	403	1,64
May	45	R 45	177	^R 267	436	^R 653	325	R 1,414	481	698	502	1,6
June	53	51	215	319	458	664	257	1,379	511	715	472	1,6
July	53	75	177	305	435	667	242	1,344	488	742	419	1,6
August	48	55	201	304	567	695	279	1,541	615	750	480	1,8
September	50	46	197	293	517	781	270	1,568	567	827	467	1,8
October	48	61	182	291	564	777	286	1.627	612	838	468	1.9
November	64	77	200	341	507	R 703	238	R 1,448	571	R 780	438	R 1,7
December	77	116	217	410	553	675	260	1,488	630	791	477	1,8
Total	603	R 729	2,200	R 3,532	6,183	R 8,178	3,093	R 17,454	6,786	R 8,907	5,293	R 20,9
995 January	85	105	223	413	551	721	219	1,491	636	826	442	1,9
February	79	82	177	338	537	641	280	1,458	616	723	457	1,7
March	56	60	160	276	598	726	204	1,528	654	786	364	1,8
April	61	R 54	154	R 269	499	R 436	208	^R 1.143	560	490	362	1,4
May	51	39	122	212	R 448	R 384	R 178	R 1,010	R 499	R 423	R 300	R 1,2
June	69	74	117	260	503	450	155	1,108	572	524	272	1,3
	68	R41	216	R 325	536	R 511	280	R 1,327	604	552	496	1,6
July		64	182	309	560	544	236	1,340	623	608	418	1,6
August	63										353	
September	62	44	147	253	558	549	206	1,313	620	593		1,5
October	59	55	131	245	560	595	203	1,358	619	650	334	1,6
November	55 708	54 672	113 1,742	222 3,122	401 5,751	474 6,031	149 2,318	1,024 14,100	456 6,459	528 6,703	262 4,060	1,2 17,2
			•						•			
994 11-Month Total	526 440	613 452	1,983 2,295	3,122 3,187	5,630 7,565	7,503 8,561 ⁻	2,833 3,888	15,966 20,014	6,156 8,005	8,116 9,013	4,816 6,183	19,0 23,2

District of Columbia.

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

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

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 and Gas Wells Drilled (Table 5.2) from 1990 through March 1995 was published in the June 1995

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 October 1995 totaled 88 million short tons, 3 percent higher⁶ than the rate in October 1994.

Electric utility coal consumption in September 1995 totaled 69 million short tons, 3 percent higher than the consumption level in September 1994. During the first 3 quarters of 1995, coal consumption at electric utilities was 622 million short tons, slightly lower than the 623 million short tons consumed during the first 3 quarters of 1994.

Electric utility coal stocks were 123 million short tons at the end of September 1995, up 10 percent from the 112 million short tons at the end of September 1994.

Coal exports in September 1995 totaled 8 million short tons, 12 percent higher than exports in September 1994. Coal exports for the first 9 months of 1995 totaled 64 million short tons, 23 percent higher than exports during the first 9 months of 1995.

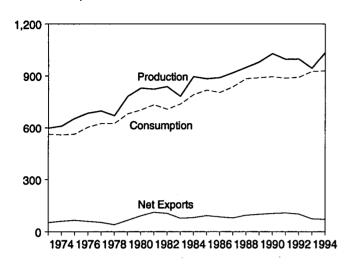
Coal imports in September 1995 totaled 613 thousand short tons, 17 percent lower than imports in September 1994. Coal imports for January through September 1995 totaled 5,131 thousand short tons, 10 percent lower than the 5,731 thousand short tons of coal imported during the first 9 months of 1994.

⁶Percentage changes are based on unrounded data.

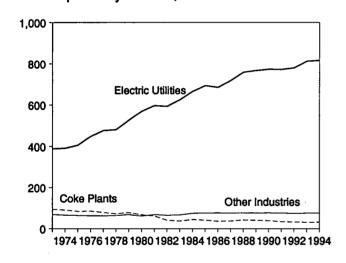
Figure 6.1 Coal

(Million Short Tons)

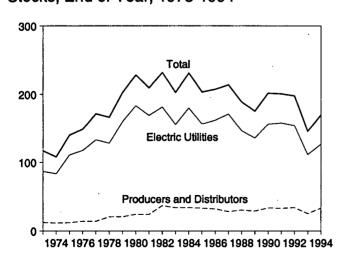
Overview, 1973-1994



Consumption by Sector, 1973-1994

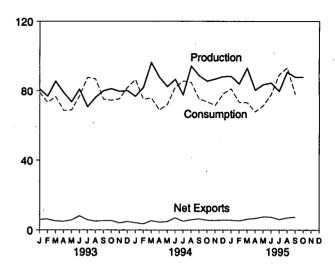


Stocks, End of Year, 1973-1994

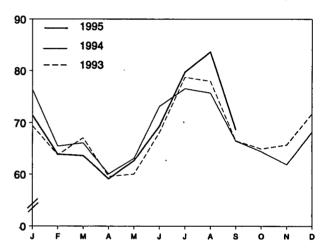


Note: Because vertical scales differ, graphs should not be compared. Sources: Tables 6.1, 6.2, and 6.3.

Overview, Monthly



Consumption by Electric Utilities, Monthly



Stocks at Electric Utilities, End of Month

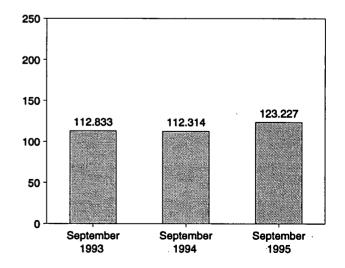


Table 6.1 Coal Overview

(Thousand Short Tons)

	Production	Consumption	Imports ^a	Exports	Stocks ^b	
			407	E0 E07	116,865	
73 Total	598,568	562,584	127	53,587		
74 Total	610,023	558,402	2,080	60,661	107,957	
75 Total	654,641	562,640	940	66,309	140,158	
	684,913	603,790	1,203	60,021	148,659	
6 Total		625,291	1,647	54,312	171,323	
7 Total	697,205			40,714	166,246	
8 Total	670,164	625,225	2,953		202,472	
9 Total	781,134	680,524	2,059	66,042		
0 Total	829,700	702,730	1,194	91,742	228,407	
1 Total	823,775	732,627	1,043	112,541	209,423	
2 Total	838,112	706,911	742	106,277	232,038	
	782,091	736,672	1,271	77,772	202,584	
3 Total			1,286	81,483	231,300	
4 Total	895,921	791,296	•		203,367	
5 Total	883,638	818,049	1,952	92,680		
6 Total	890,315	804,231	2,212	85,518	207,319	
7 Total	918,762	836,941	1,747	79,607	213,780	
8 Total	950,265	883,642	2,134	95,023	188,831	
		889,699	2,851	100,815	175,087	
9 Total	980,729			105,804	201,629	
0 Total	1,029,076	895,480	2,699			
1 Total	995,984	887,621	3,390	108,969	200,682	
2 Total	997,545	892,421	3,803	102,516	197,685	
3 January	80,982	79,116	344	6,506	195,037	
	76,919	73,372	454	6,715	192,442	
February		76,677	415	5,648	191,072	
March	85,516 70,074		281	5,268	194,213	
April	79,074	68,719			195,654	
May	73,728	68,998	298	6,060	• •	
June	80,948	77,102	514	8,619	189,669	
July	70,798	87,695	643	6,573	168,179	
. •	76,277	86,870	747	5,830	152,790	
August		75,306	753	6,120	149,092	
September	80,056		1,054	6,485	150,745	
October	81,232	74,635				
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	
4 January	76,886	86,432	540	4,731	134,972	
	81,895	75,215	753	4,252	136,693	
February		75,949	557	5,894	146,417	
March	96,372		456	4,976	155,498	
April	87,903	69,007		•		
May	82,470	72,092	550	5,326	163,660	
June	86,591	82,046	571	7,637	162,451	
July	77,758	85,644	833	5,882	152,748	
	94,338	84,791	731	6,670	151,381	
August		75,385	740	7,152	154,180	
September	88,757			6,110	158,738	
October	85,538	73,799	434			
November	86,756	71,556	601	6,098	165,592	
December	88,240	78,285	819	6,630	169,358	
Total	1,033,504	930,201	7,584	71,359	169,358	
5 January	88,333	81,185	530	6,184	170,609	
·	83,891	73,378	486	5,774	177,765	
February			780	7,029	185,796	
March	93,038	73,241				
April	80,386	67,956	525	7,212	193,465	
May	83,587	71,423	517	8,036	198,177	
June	84,523	77,959	567	7,935	193,930	
July	79,759	R 89,385	566	6,632	R 174,627	
		^R 93,221	547	7,530	R 163,887	
August	90,826				E 166,945	
September	87,937	€ 78,072	613	8,012		
October	87,932	NA	NA	NA	NA	
10-Month Total	860,212	NA	NA	NA	NA.	
94 10-Month Total	858,508	780,360	6,165	58,631	158,738	

a Includes Puerto Rico.

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 1994 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.

Table 6.2 Coal Consumption by End-Use Sector

(Thousand Short Tons)

		In	dustrial			
	Residential and Commercial	Coke Plants	Other Industrial Including	Electric	* -4-1	
<u> </u>	Commercial	Plants	Transportation	Utilities	Total	
1072 Tetal	44 447	04 404	00.454	000.040	500 504	
1973 Total	11,117 11,417	94,101 90,191	68,154	389,212	562,584	
1975 Total	9,410	•	64,983	391,811	558,402	
1976 Total	8,916	83,598 84.704	63,670	405,962	562,640	
1977 Total	8,954	84,704 77,739	61,799	448,371 477,126	603,790	
1978 Total	9,511	71,394	61,472		625,291	
1979 Total			63,085 67,747	481,235	625,225	
1980 Total	8,388 6,452	77,368 66,657	67,717	527,051 550,074	680,524	
1981 Total	7,421	•	60,347 67,305	569,274 506,707	702,730	
		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 70,745	625,211	736,672	
1984 Total	9,130 7,770	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		
June	418	2,588	5,925 5,978	68,118	68,998 77,100	
July	424	2,678	5,876	78,717	77,102	
August	382	2,664	5,892	•	87,695 96,970	
September	288	2,618	5,907	77,932	86,870 ·	
October	386	2,660	6,647	66,493	75,306	
November	649	2,447	6,697	64,941 65 677	74,635 75,471	
December	921	2,587	6,757	65,677 71,717	75,471	
Total	6,221	31,323	74,892	813,508	81,981 925,944	
	-,	- 1,5-2	, ,,,,,	0.10,000		
1994 January	854	2,619	6,598	76,362	86,432	
February	669	2,481	6,610	65,455	75,215	
March	493	2,654	6,703	66,098	75,949	
April	455	2,632	5,880	60,040	69,007	
May	334	2,742	5,931	63,084	72,092	
June	398	2,591	5,928	73,130	82,046	
July	456	2,673	6,027	76,489	85,644	
August	392	2,659	6,057	75,682	84,791	
September	288	2,613	6,039	66,445	75,385	
October	337	2,643	6,371	64,447	73,799	
November	541	2,666	6,473	61,877	71,556	
December	796	2,767	6,562	68,161	78,285	
Total	6,013	31,740	75,179	817,270	930,201	
995 January	638	2,758	6 350	71 401	04.405	
February	572	2,756 2,549	6,358 6 317	71,431 63,040	81,185	
March	428	2,833	6,317 6 331	63,940 63,650	73,378	
April	449	2,769	6,321 5,629	63,659 50 110	73,241 67,056	
May	291	2,820	5,629 5,656	59,110 62,656	67,956 71,400	
June	292	2,702	5,623		71,423	
July	969	R 2,802		69,342	77,959 ^R 89,385	
August	864	R 2,788	5,926 5 011	79,688	8 oo oo4	
September		E 2,631	5,911 _ ^E 5,910	83,658 69,634	R 93,221	
9-Month Total	E 5,410	E 24,652	E 53,651	68,624 622,108	^E 78,072 ^E 705,822	
	V,71V	27,032	50 ₁ 00 I	VZZ, 1U0	- / U3,522	
1994 9-Month Total	4,339	23,664	55,774	622,785	706,561	
1993 9-Month Total	4,266	23,629	54,790	611,173	693,857	

R=Revised data. E=Estimate.

rounding. \bullet Geographic coverage is the 50 States and the District of Columbia.

Notes: • For sector-specific reporting and estimating information, see Note 2 at end of section. • Data through 1994 are final. Subsequent data are preliminary. • Totals may not equal sum of components due to independent

Table 6.3 Coal Stocks, End of Period

(Thousand Short Tons)

		Cons	umer		Producers	Totala	
	Coke Plants	Other Industrial	Electric Utilities	Totala	and Distributors		
	6,998	10,370	86,967	104.335	12,530	116,865	
973 Year		6,605	83,509	96,323	11,634	107,957	
974 Year	6,209		110,724	128,050	12,108	140,158	
975 Year	8,797	8,529		134,438	14,221	148,659	
976 Year	9,902	7,100	117,436	157,098	14,225	171,323	
977 Year	12,816	11,063	133,219		20,695	166,246	
978 Year	8,278	9,048	128,225	145,551		202,472	
979 Year	10,155	11,777	159,714	181,646	20,826	228,407	
980 Year	9,067	11,951	183,010	204,028	24,379		
981 Year	6,475	9,906	168,893	185,274	24,149	209,423	
982 Year	4,642	9,479	181,132	195,254	36,784	232,038	
983 Year	4,346	8,710	155,598	168,654	33,931	202,584	
	6,166	11,317	179,727	197,211	34,090	231,300	
984 Year	3,420	10,438	156,376	170,234	33,133	203,367	
985 Year	•	10,429	161,806	175,226	32,093	207,319	
986 Year	2,992		170,797	185,459	28,321	213,780	
987 Year	3,884	10,777		158,413	30,418	188,831	
988 Year	3,137	8,768	146,507	146,087	29,000	175,087	
989 Year	2,864	7,363	135,860		33,418	201,629	
1990 Year	3,329	8,716	156,166	168,210		200,682	
1991 Year	2,773	7,061	157,876	167,711	32,971		
992 Year	2,597	6,965	154,130	163,692	33,993	197,685	
993 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	
	2,879	5,911	148,178	156,968	37,245	194,213	
April	2,949	5,990	150,678	159,618	36.036	195,654	
May		6,070	145,753	154,842	34,827	189,669	
June	3,020		126,815	135,900	32,279	168,179	
July	2,858	6,227		123,058	29,731	152,790	
August	2,697	6,383	113,978		27,183	149,092	
September	2,536	6,540	112,833	121,909	26,550	150,745	
October	2,491	6,599	115,105	124,195		151,116	
November	2,446	6,657	116,095	125,199	25,917		
December	2,401	6,716	111,341	120,458	25,284	145,742	
1994 January	2,345	6,097	98,294	106,736	28,236	134,972	
February	2,289	5,478	97,739	105,506	31,188	136,693	
March	2,232	4,859	105,186	112,278	34,139	146,417	
·	2,408	5,087	113,324	120,819	34,679	155,498	
April	2,583	5,315	120,543	128,442	35,218	163,660	
May		5,543	118,391	126,694	35,758	162,451	
June	2,759	5,343 5,764	109,419	117,925	34,823	152,748	
July	2,741		,	117,492	33,889	151,381	
August	2,724	5,985	108,783		32,955	154,180	
September	2,706	6,206	112,314	121,225		158,738	
October	2,690	6,332	116,673	125,695	33,043	165,592	
November	2,673	6,459	123,328	132,461	33,131		
December	2,657	6,585	126,897	136,139	33,219	169,358	
1995 January	2,678	6,198	125,475	134,350	36,259	170,609	
February	2,698	5,810	129,957	138,465	39,300	177,765	
March	2,719	5,422	135,315	143,456	42,340	185,796	
April	2,687	5,486	143,033	151,206	42,259	193,465	
	2,656	5,549	147,794	155,999	42,178	198,177	
May		5,612	143,596	151,833	42,097	193,930	
June	2,624 B o 575			R 139,627	35,000	R 174,627	
July	R 2,575	6,742	130,311	R 128.887	35,000	R 163,887	
August	^R 2,525	6,154 ^E 6,385	120,208 123,227	E 131,945	E 35,000	E 166,945	
	E 2,333						

 $^{^{\}rm a}$ 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 1994 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.

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, October, and November. The estimates are revised quarterly as collected data become available from the data sources. Sector-specific information follows.
 - Residential and Commercial—Prior to 1980, monthly consumption estimates for the residential and commercial sector were derived by using reported data to modify baseline figures developed by the Bureau of Mines. From 1980-1987,

- monthly estimates were derived by proportioning reported quarterly data by using the ratios of monthly-to-quarterly consumption data in 1979. the last year in which monthly data were reported on Form EIA-2. During 1981 and 1982, the estimates were also modified to reflect air temperature degree-days. Quarterly consumption data were taken directly from reported data and were defined as distribution to the residential and commercial sector as reported by coal producers and distributors on Form EIA-6. Beginning in January 1988, monthly residential and commercial consumption estimates are derived from reported quarterly data by using monthly national average population weighted heating/cooling degree-days obtained from the National Oceanic and Atmospheric Administration. The monthly ratios are the monthly national sum of heating and cooling degree-days as a proportion of the quarterly national sum. Quarterly consumption data are taken directly from reported data.
- 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 enduse 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, October, 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—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 September 1995, electric utilities generated 246 billion kilowatthours of electricity, 3 percent⁷ more than in September 1994. Coal-fired generation totaled 135 billion kilowatthours, 2 percent above the September 1994 level. Nuclear generation totaled 56 billion kilowatthours, slightly above the level 1 year earlier. Hydroelectric generation totaled 19 billion kilowatthours, 22 percent higher than the September 1994 level. Natural gas-fired generation was 30 billion kilowatthours, 6 percent higher than the September 1994 level. Petroleum-fired generation totaled 5 billion kilowatthours, 4 percent below the level 1 year earlier.

During the first 9 months of 1995, electric utilities generated 2,268 billion kilowatthours of electricity, 2 percent more than during the first 9 months of 1994. Coal-fired generation totaled 1,241 billion kilowatthours, slightly lower than the level 1 year earlier. Nuclear generation totaled 507 billion kilowatthours, 7 percent above the level 1 year earlier. Natural gas-fired generation was 248 billion kilowatthours, 12 percent higher than the first 9 months of 1994 level. Hydroelectric generation totaled 221 billion kilowatthours, 17 percent higher than the first 9 months of 1994 level. Petroleum-fired generation totaled 47 billion kilowatthours, 39 percent below the level 1 year earlier.

Sales of electricity to all ultimate consumers in the United States in September 1995 were 266 billion kilowatthours, 5 percent higher than sales during September 1994. Sales to residential consumers during September 1995 were 94 billion kilowatthours, 11 percent higher than the level of sales during the previous year. Sales to industrial consumers totaled 86 billion kilowatthours in September 1995, slightly below the level 1 year earlier. Commercial sales were 77 billion kilowatthours, 3 percent higher than the level of commercial sales during the previous year. In September 1995, other sales totaled 9 billion kilowatthours, 8 percent higher than the September 1994 level.

During the first 3 quarters of 1995, sales of electricity to all ultimate consumers in the United States were 2,277 billion kilowatthours, 3 percent higher than sales during the

first 3 quarters of 1994. Sales to residential consumers during the first 9 months of 1995 were 799 billion kilowatthours, 3 percent higher than the level of sales during the previous year. Sales to industrial consumers totaled 760 billion kilowatthours during the first 9 months of 1995, 2 percent above the level 1 year earlier. Commercial sales were 645 billion kilowatthours, 3 percent higher than the level of commercial sales during the first 9 months of 1994. During the first 3 quarters of 1995, other sales totaled 73 billion kilowatthours, 2 percent higher than the level 1 year earlier.

Electric utility consumption of coal during September 1995 was 69 million short tons, 3 percent above consumption in September 1994. Petroleum consumption (excluding petroleum coke) during September 1995 was 8 million barrels, 4 percent below the level of consumption in September 1994. During September 1995, electric utilities consumed 316 billion cubic feet of natural gas, 7 percent above the September 1994 consumption level.

During the first 9 months of 1995, electric utility consumption of coal was 622 million short tons, slightly below consumption during the first 9 months of 1994. Petroleum consumption (excluding petroleum coke) during September 1995 was 79 million barrels, 39 percent below the first 9 months of 1994. During the first 9 months of 1995, electric utilities consumed 2,584 billion cubic feet of natural gas, 13 percent above the first 9 months of 1994 consumption level.

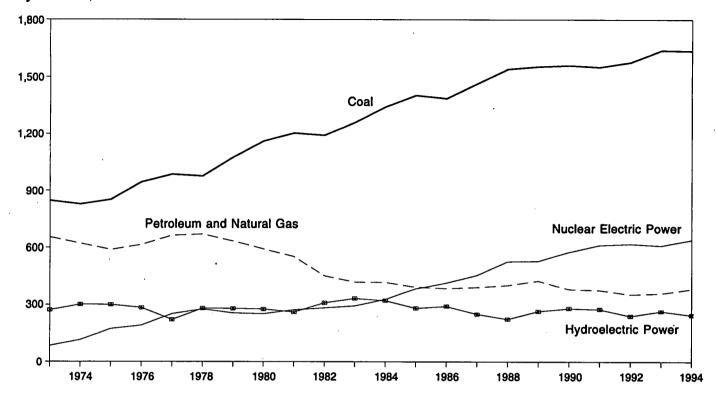
On September 30, 1995, electric utility stocks of all types of coal totaled 123 million short tons, 10 percent above the level on September 30, 1994. Stocks of petroleum (excluding petroleum coke) on September 30, 1995, totaled 53 million barrels, 16 percent below the level on September 30, 1994.

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

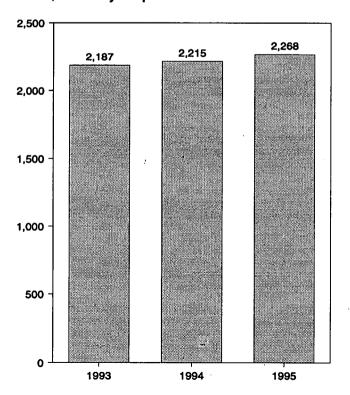
Figure 7.1 Electric Utility Net Generation of Electricity

(Billion Kilowatthours)

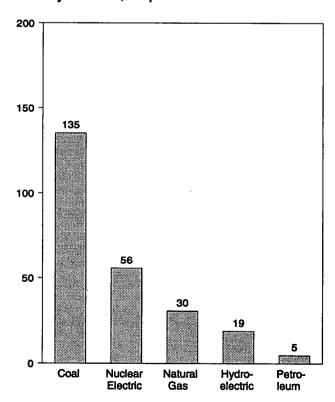
By Source, 1973-1994



Total, January-September



Total by Source, September 1995



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

Electric Utility Net Generation of Electricity Table 7.1

(Million Kilowatthours)

	Coal	Natural Gas ^a	Petroleum ^b	Nuclear Electric Power	Hydro- Electric Power	Geothermal Energy	Other	Total
					070.000	4.000	000	4 000 740
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
984 Total	1,341,681	297,394	119,808	327,634	321,150	7,741	898	2,416,304
985 Total	1,402,128	291,946	100,202	383,691	281,149	9,325	1,399	2,469,841
986 Total	1,385,831	248,508	136,585	414,038	290,844	10,308	1,195	2,487,310
		•	118,493	455,270	249,695	10,775	1,491	2,572,127
1987 Total	1,463,781	272,621	148,900	526,973	222,940	10,300	1,684	2,704,250
988 Total	1,540,653	252,801		529,355 .	265,063	9,342	1,968	2,784,304
1989 Total	1,553,661	266,598	158,318	•	265,063 279,926	9,342 8,581	2,070	2,808,151
1990 Total	1,559,606	264,089	117,017	576,862		•		
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
	156,197	34,263	11,975	56,209	19,667	653	167	279,132
August	134,001	24,978	9,759	49,989	17,073	630	173	236,603
September	130,926	22,912	7,659	44,434	16,899	625	174	223,629
October		20,535	7,039 7,479	46,862	17,898	618	174	225,855
November	132,288		•	•	21,125	637	178	246,412
Total	143,824 1,639,151	17,242 258,915	10,299 99,539	53,108 610,291	265,063	7,571	1,994	2,882,525
TOTAL	1,000,101		00,000	V.0,201	200,000	.,	.,	•
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	274,845
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
					00.000	440		050 005
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
May	126,013	24,656	4,390	54,387	26,570	255	104	236,375
June	138,090	28,368	4,422	56,381	28,395	281	129	256,066
July	158,378	38,410	7,321	62,037	25,942	305	157	292,550
August	166,630	44,330	8,296	61,661	22,999	524	165	304,605
September	135,241	30,479	4,850	55,690	18,805	367	149	245,580
9-Month Total	1,241,446	247,930	46,870	506,556	220,902	3,044	1,203	2,267,952
1004 0 84				470 004	400 540	g 000		0.045.000
1994 9-Month Total 1993 9-Month Total	1,246,696 1,232,113	222,057 198,226	77,176 74,103	473,961 465,886	188,548 209,141	5,206 5,691	1,445 1,468	2,215,089 2,186,628

systems.

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

 $^{^{\}rm a}$ includes supplemental gaseous fuel. $^{\rm b}$ includes fuel oil nos. 1, 2, 4, 5, and 6, crude oil, kerosene, and petroleum

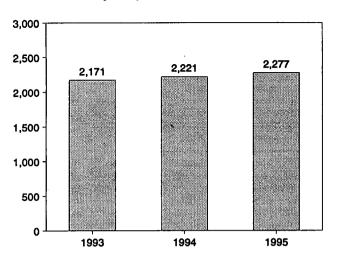
coke.

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

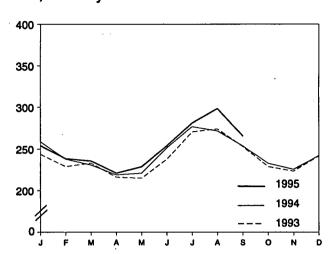
Figure 7.2 Electric Utility Retail Sales of Electricity

(Billion Kilowatthours)

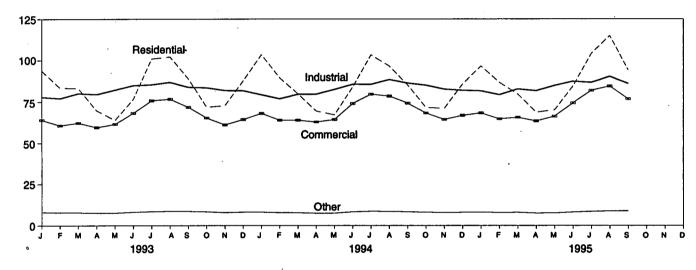
Total, January-September



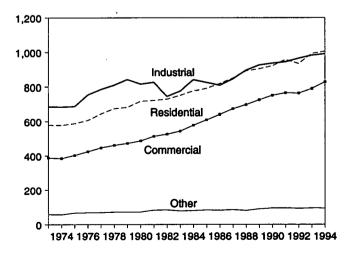
Total, Monthly



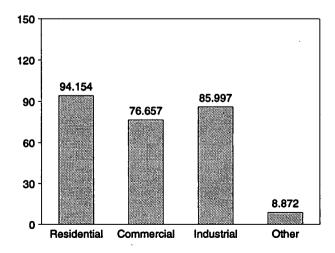
By Sector, Monthly



By Sector, 1973-1994



By Sector, September 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)

	Reside	ential	Comn	nercial	Indu	strial	Oth	er ^e	То	tal
Ī	Monthly Series ^b	Annual Series								
1050 T-1-1	F70 004		388,266	NA	686,085	NA.	59,326	NA	1,712,909	NA
1973 Total	579,231	NA NA	384,826	NA NA	684,875	NA NA	58,039	NA	1,705,924	NA
974 Total	578,184	NA NA	403,049	NA	687,680	NA	68,222	NA	1,747,091	NA
975 Total	588,140 606,452	NA	425,094	NA NA	754,069	NA	69,631	NA	1,855,246	NA
976 Total	645,239	NA NA	446,514	NA	786,037	NA	70,571	NA	1,948,361	NA
977 Total	674,466	NA NA	461,163	NA	809,078	NA	73,215	NA	2,017,922	NA
979 Total	682,819	NA NA	473,307	NA	841,903	NA	73,070	NA	2,071,099	NA
980 Total	717,495	NA NA	488,155	NA	815,067	NA	73,732	NA	2,094,449	NA
981 Total	722,265	NA NA	514,338	NA	825,743	NA	84,756	NA	2,147,103	NA
982 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	2,285,790
985 Total	790,977	793,934	608,968	605,989	824,523	836,772	85,075	87,279	2,309,543	2,323,97
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	2,712,55
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	2,763,369
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	<u> -</u> :	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	2,861,46
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	· <u></u>	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	-
May	69,975	_	66,185		84,791	_	7,554	-	228,506	-
June	84,288	_	74,221	_	87,333	_	8,124	-	253,967	-
July	104,131	_	81,832	_	86,685	_	8,503	_	281,151	_
August	114,935	_	84,412	_	90,257	_	8,765	_	298,369	_
September	94,154	_	76,657	_	85,997	_	8,872	_	265,680	_
9-Month Total	798,803	_	644,773	-	759,983	-	73,093	-	2,276,651	-
4004 0 Hamb Tat-1			£20 270	_	743,106		71,665	_	2,220,802	_
1994 9-Month Total	777,754	-	628,278	_		_	71,865	_	2,171,309	_
1993 9-Month Total	762,306		599,765	_	737,298	-	11,040	-	A, 171,008	_

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.

NA=Not available.

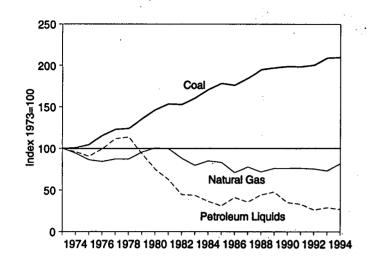
Notes:

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

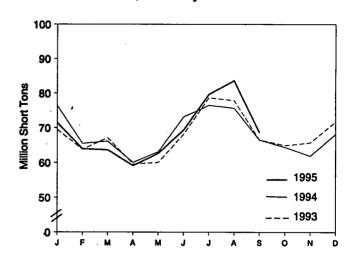
Geographic coverage is the 50 States and the District of Columbia.

Figure 7.3 Electric Utility Consumption and Stocks of Fossil Fuels

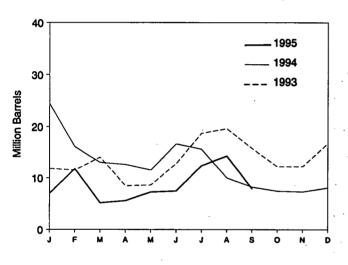
Fuels Consumed, 1973-1994



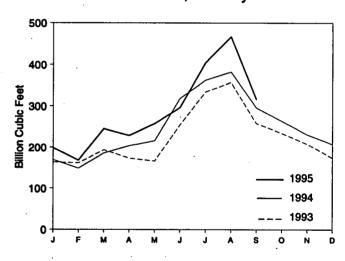
Coal Consumed, Monthly



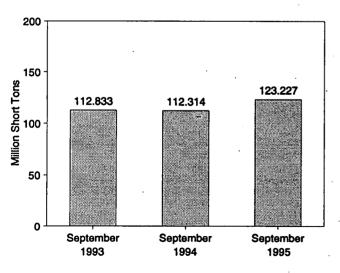
Petroleum Liquids Consumed, Monthly



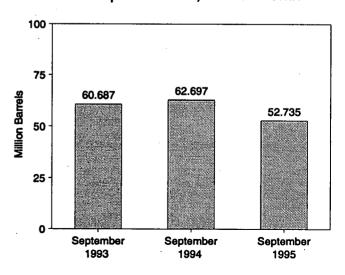
Natural Gas Consumed, Monthly



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

		Co	at				Petro	leum			_ _
					By T of Petro		By Pr Mover				
	Anthra- cite	Bituminous Coal	Lignite	Total	Heavy Oil ^a	Light Oil ^b	Steam Plants	GT/IC°	Total Liquids	Petroleum Coke	Natural . Gas ^d
		Thousand S	Short Tons			Th	ousand Barr	els		Thousand Short Tons	Million Cubic Feet
	4.440	070 075	10 704	389,212	NA NA	NA	513,190	47,058	560,248	507	3,660,172
1973 Total 1974 Total	1,443 1,498	376,975 378,643	10,794 11,670	391,811	NA	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	98 398	3,191,200 3,188,363
1978 Total	1,064	448,763	31,407	481,235	NA NA	NA NA	588,319 492,606	47,520 30,691	635,839 523,297	268	3,490,523
1979 Total	1,046 951	488,129 526,680	37,876 41,642	527,051 569,274	391,163	29,051	401,863	18,351	420,214	179	3,681,595
1980 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	348 409	2,844,051 2,635,613
1988 Total	1,063	681,048	76,260	758,372 766,888	229,327 241,960	18,769 25,491	235,817 250,315	12,279 17,136	248,096 267,451	517	2,787,012
1989 Total 1990 Total	1,049 1,031	688,504 694,317	77,335 78,201	773,549	181,231	14,823	187,531	8,523	196,054	819	2,787,332
1990 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 98	166,840 254,823
June	80	61,090	6,948	68,118	11,756	1,033 1,817	12,249 17,406	540 1,306	12,789 18,713	125	334,101
July	73 67	71,134 70,241	7,511 7,624	78,717 77,932	16,896 18,044	1,566	18,509	1,101	19,610	112	357,027
August 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		59,696	6,303	66,098	12,026	1,014	12,532	509	13,040	93	185,924
April		54,246	5,706	60,040	11,585	1,041	12,043	583 670	12,626 11,510	71 . 59	203,934 216,022
May	89 87	56,482 66,162	6,513 6,881	63,084 73,130	10,346 14,775	1,164 1,871	10,839 15,369	1,278	16,646	71	318,528
June	98	69,428	6,964	76,489	14,062	1,530	14,576	1,016	15,592	76	362,444
July 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		870	7,759	456	8,216	62	295,956
October		58,011	6,330	64,447	6,634	811	7,057	387	7,444	62	263,958
November		55,542	6,245	61,877	6,432	863	6,910	385	7,294	59	231,242
December		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		64,253	7,103	71,431	5,955	1,057	6,380	632	7,012	64 61	198,657
February		58,129	5,729	63,940	10,457	1,316	10,883 4,730	890 452	11,773 5,183	61 52	168,710 245,166
March		57,885 53,889	5,692 5,144	63,659 59,110	4,276 4,673	907 918	5,111	480	5,591	38	228,820
April May		53,669 57,068	5,502	62,656	6,121	1,133	6,648	607	7,254	59	257,592
June		62,422	6,849	69,342	6,262	1,194	6,828	628	7,456	68	296,692
July		72,082	7,539	79,688	10,507	1,884	10,949	1,441	12,390	57	404,725
August		76,043	7,536	83,658	11,446	2,853	11,934	2,365	14,299	80	466,821
September		61,631	6,906	68,624	6,964	903	7,355	512	7,867	66	316,096
9-Month Total		563,402	58,000	622,108	66,661	12,165	70,819	8,008	78,826	542	2,583,278
1994 9-Month Total	827	562,465	59,494	622,785	114,572	13,617	119,417	8,772	128,189	697	2,284,061
1993 9-Month Total	714	549,709	60,750	611,173	110,936	10,358	115,146	6,147	121,294	887	2,065,063

Heavy oil includes fuel oil nos, 4, 5, and 6, and residual fuel oils.
 Light oil includes fuel oil nos. 1 and 2, kerosene, and jet fuel.
 GT/IC = Gas turbine and internal combustion plants.
 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.

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

,		Co	al	,			Petro	leum		
	,				By 1 of Peti	Type roleum		rime r Type		
	Anthracite	Bituminous Coal	Lignite	Total	Heavy Oil ^a	Light Oil ^b	Steam Plants	GT/IC°	Total Liquids	Petroleun Coke
·		Thousand	Short Tons		·	Т	housand Barre	is		Thousand Short Tons
973 Total	1,066	84,941	961	86,967	NA	NA	79,121	10,095	89,216	312
974 Total	930 982	81,712	867	83,509	NA	NA	97,718	15,199	112,917	35
975 Total	1,000	107,927 114,130	1,815 2,306	110,724 117,436	NA NA	NA NA	108,825 106,993	16,432 14,703	125,257 121,696	31 32
977 Total	2,321	128,210	2,688	133,219	NA NA	NA	124,750	19,281	144,031	44
978 Total	2,178	123,020	3,027	128,225	NA .	NA	102,402	16,386	118,788	198
979 Total	3,274	152,981	3,459	159,714	NA	NA	111,121	20,301	131,422	183
980 Total	4,741	174,154	4,115	183,010	105,351	30,023	117,227	18,147	135,374	52
981 Total	5,537	158,258	5,098	168,893	102,042	26,094	112,380	15,756	128,136	42
982 Total	6,080	170,480	4,573	181,132	95,515 70,572	23,369	105,287	13,597	118,884	41
983 Total 984 Total	6,507 6,710	145,250 167,118	3,841 5,899	155,598 179,727	70,573 68,503	18,801 19,116	78,285 76,836	11,090 10,784	89,375 87,619	55 50
985 Total	7,189	142,144	7,043	156,376	57,304	16,386	64,704	8,985	73,689	49
986 Total	7,099	148,665	6,042	161,806	56,841	16,269	64,258	8,853	73,111	40
987 Total	6,940	156,670	7,187	170,797	55,069	15,759	61,705	9,123	70,827	51
988 Total	6,561	133,434	6,512	146,507	54,187	15,099	60,311	8,974	69,285	86
989 Total	6,403	122,967	6,490	135,860	47,446	13,824	53,309	7,962	61,270	105
990 Total	6,499	142,650	7,016	156,166	67,030	16,471	73,306	10,195	83,501	94
991 Total	6,513 6,215	145,367 142,156	5,996 5,759	157,876 154,130	58,636 56,135	16,357 15,714	65,032 62,374	9,961 9,475	74,993 71,849	70 67
	-,	,,,,,,	٠,.٠٠	,	33,.33	,	02,0	5,110	,0.10	.
993 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 5,802	132,183	5,758	143,978	45,313 47,358	14,914	51,528 50,475	8,698	60,227	66
April May	5,802 5,773	136;199 138,668	6,177 6,238	148,178 150,678	47,356 50.422	14,856 14,669	53,475 56,495	8,736 8,596	62,211 65,091	77 82
June	5,766	133,977	6,009	145,753	49,294	14,009	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
994 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 5,300	100,161	7,803	113,324	44,221	14,937	50,528	8,630	59,158	103
May June	5,309 5,275	107,716 105,668	7,518 7,449	120,543 118,391	46,104 44,719	15,170 15,541	52,623 51,361	8,651 8,898	61,274 60,259	78 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
995 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
May	4,656	136,770	6,369	147,794	38,280	15,560	44,284	9,556	53,840	173
June	4,634 4,608	132,778	6,184 5.712	143,596	39,810 37,561	15,793	45,749	9,854	55,603	144
July August	4,608 4,591	119,991 110,183	5,712 5,435	130,311 120,208	37,561 37,122	15,613 15,454	43,824 43,440	9,351 9,135	53,175 52,576	117 98
September	4,551	113,604	5,073	123,227	37,397	15,338	43,538	9,135	52,735	90

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

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.

b Light oil includes fuel oil nos. 1 and 2, kerosene, and jet fuel.

GT/IC = Gas turbine and internal combustion plants.

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, December 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, December 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 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, December 1995, Table 29.

Section 8. Nuclear Energy

In September 1995, U.S. nuclear generating units produced a total of 56 net terawatthours (billion kilowatthours) of electricity, slightly more than in September 1994. Nuclear units generated at an average capacity factor of 78.0 percent, the same as in September 1994. Nuclear power supplied 22.7 percent of the total electric utility-generated electricity in September 1995, compared with 23.4 percent in September 1994.

Nuclear generation, the share of electricity, and the average capacity factor were higher in the first 9 months of 1995, compared with the first 9 months of 1994. Specifically, nuclear generation for the first 9 months of 1995 was 7 percent higher, compared with the first 9 months of 1994. The average nuclear share of electricity for the first 9 months of 1995 was 22.3 percent compared with 21.4 percent for the same period in 1994. During the same period, the average capacity factor for the U.S. nuclear units was 78.0 percent in 1995 and 73.0 percent in 1994.

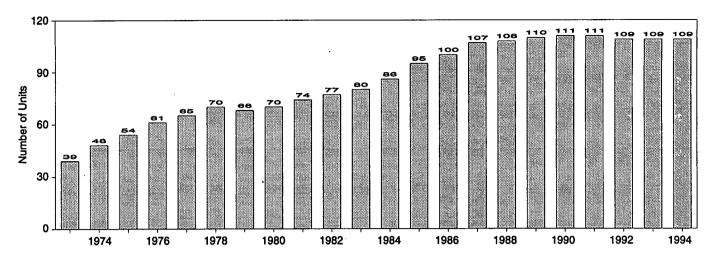
No low- or full power licenses for nuclear power plants were issued by the Nuclear Regulatory Commission during September 1995.

On September 30, 1995, there were 109 operable nuclear generating units in the United States, with a collective net summer capability of 99.1 million kilowatts of electricity. Of the 109 operable units, 13 units generated at less than 25 percent of capacity because of maintenance, refueling, or repair outage, and 8 of the 13 units generated no electricity during the month including two operable units, Browns Ferry 1 and 3, that have been shut down since March 1985.

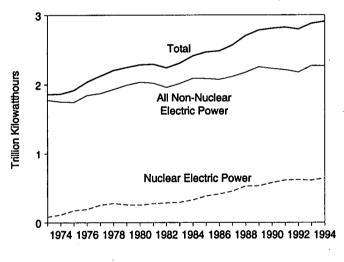
As of September 30, 1995, there were 116 domestic nuclear generating units in all stages of construction and operation. Seven units possess construction permits, although construction for 6 of the 7 units was canceled or halted. The aggregate net design capacity of the 109 operable units was 101.1 million 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.

Nuclear Power Plant Operations Figure 8.1

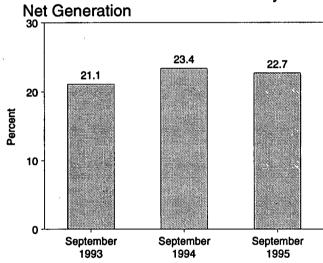
Operable Units, End of Year, 1973-1994



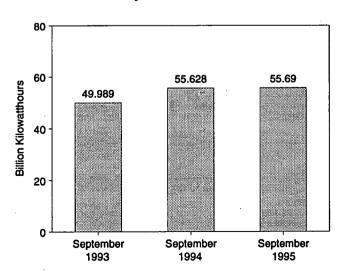
Net Generation of Electricity, 1973-1994



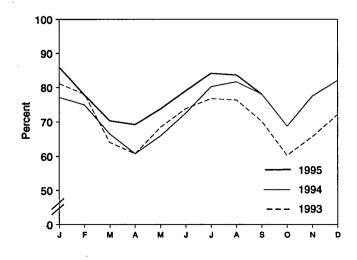
Nuclear Portion of Domestic Electricity



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
	earear	39 48	83,479 113,976	4.5 6.1	22.683 31.867	53.5 47.8
	987	54	172,505	9.0	37.267	55.9
	er	61	191,104	9.4	43.822	54.7
1977 Ye	ear	65	250,883	11.8	46.303	63.3
	ar	70	276,403	12.5	50.824	64.5
	ear	68	255,155	11.4	49.747	58.4
	er	70 74	251,116 272,674	11.0 11.9	51.810 56.042	56.3 58.2
	ear	77	272,674 282,773	12.6	60.035	56.2 56.6
)ar	80	293,677	12.7	63.009	54.4
	oar	86	327,634	13.6	69.652	56.3
)ar	95	383,691	15.5	79.397	58.0
	ar	100	414,038	16.6	85.241	56.9
	er	107	455,270	17.7	93.583	57.4 60.5
	9ar	108 110	526,973 529,355	19.5 19.0	94.695 98.161	63.5 62.2
	987	111	529,355 576,862	20.5	99.624	66.0
	oar	iii	612,565	21.7	99.589	70.2
	oar	109	618,776	22.1	98.985	70.9
	nuary	108	59,076	24.0	97.881	81.1
	ebruary	108 108	51,319 46,606	22.8 19.8	97.881 97.881	78.0 64.0
	oril	109	43,199	20.4	99.031	60.7
	av	109	50.367	22.6	99.031	68.4
Ju	ne	109	52,620	21.1	99.031	73.8
	ly	109	56,502	20.0	99.031	76.7
	gust	109	56,209	20.1	99.031	76.3
	eptember	109	49,989	21.1	99.031	70.1
	ovember	109 109	44,434 46,862	19.9 20.7	99.094 99.094	60.2 65.7
	cember	109	53,108	21.6	99.041	72.1
	oar	109	610,291	21.2	99.041	70.5
1004 10		109	EC 047	21.7	99.041	77 4
	nuary	109	56,847 49,821	21.7 22.1	99.041	77.1 74.9
	arch	109	48,969	21.1	99.041	66.5
	nil	109	43,192	20.1	99.041	60.7
	ay	109	48,525	21.3	99.041	65.9
- 1	ne	109	51,751	19.6	99.041	72.5
	ly	109	59,123	21.3	99.041	80.2
	igust	109	60,104	21.9	99.041	81.6
	eptember	109 109	55,628 50,703	23.4 22.2	99.041 99.041	78.0 68.7
	ovember	109	55,280	24.6	99.041	77.5
	ecember	109	60,497	24.9	99.148	82.0
	ar	109	640,440	22.0	99.148	73.8
00° I-		400	00.040	05.0	00.440	0.50
	nuary	109 109	63,342 51,858	25.0 22.7	99.148 99.148	85.9 77.8
	arch	109	51,880	22.2	99.148	77.8 70.3
	oril	109	49,321	22.7	99.148	69.2
	ay	109	54,387	23.0	99.148	73.7
Ju	ne	109	56,381	22.0	99.148	79.0
	ly	109	62,037	21.2	99.148	84.1
	igust	109	61,661	20.2	99.148	83.6
	ptember Month Total	109 109	55,690 506,556	22.7 22.3	99.148 99.148	78.0 78.0
. 0-1		100	000,000	22.4	66.140	10.0
	Month Total	109	473,961	21.4	99.041	73.0
993 9-1	Month Total	109	465,886	21.3	99.031	72.1

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.

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.

Table 8.2 Nuclear Generating Units, End of Period

		ensed peration		ruction mits				Total Design
	Operable ^a	. In Startup ^b	Granted	Pending	On Order	Announced	Total	Capacity
	•			Number of Units	·			Million Kilowatts
				50	49	9	208	198
973 Year	39	2 5	57 62	52 75	30	6	226	223
974 Year	48	2	69	69	30 14	5	213	212
975 Year	54	1	71	63	16	2	214	211
76 Year	61 67	2	71 78	49	13	2	209	203
77 Year	65 70	ő	88	32	5	ō	195	191
78 Year	68	Ö	90	24	3	ŏ	185	180
79 Year	. 70	ĭ	82	12	3	ŏ	168	162
980 Year	74	i	76	11	2	ŏ	163	157
981 Year		2	60	3	2	ŏ	144	134
982 Year	77	3	53	ŏ	2	ŏ	138	129
983 Year	80 86		38	ŏ	2	0	132	123
984 Year			30	ŏ	2	ŏ	130	121
985 Year	95	. 3	30 19	ŏ	2	Ö	128	119
986 Year	100	4	19 14	0	2	. 0	127	119
987 Year	107	-		Ö	ő	ŏ	123	115
988 Year	108	3	12	0	ŏ	ŏ	121	113
989 Year	110	1	10	ŏ	ŏ	ŏ	119	111
990 Year	111	0	8	-	•	0		
91 Year	111	0	8	0	0	•	119	111
992 Year	109	0	8	0	0	0	117	111
93 January	108	0	8	0	0	٠0	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	Ô	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
94 January	109	. 0	7	0	0	0	116	110
February	109	Ŏ	7	Ō	Ō	0	116	110
March	109	ŏ	7	·ŏ	ŏ	ŏ	116	110
April	109	ŏ	7	ŏ	Ö	Ŏ	116	110
May	109	ŏ	7	Ŏ	Ŏ	· Ō	116	110
June	109	ŏ	7	ŏ	Ŏ	ō	116	110
July	109	·ŏ	7	ŏ	ŏ	Ö	116	110
August	109	ŏ	7	ŏ	ŏ	Ŏ	116	110
September	109	ŏ	7	ŏ	Ŏ	Ŏ	116	110
October	109	Ö	7	Ō	Ō	0	116	110
November	109	Ō	7	Ó	0	. 0	116	110
December	109	Ō	7	0	0	0	116	110
995 January	. 109	0	7	0	0	Ó	116	110
February	109	ŏ	7	ŏ	ŏ	ŏ	116	110
March	109	ŏ	7	ŏ	ŏ	ŏ	116	110
April	109	ŏ	7	ŏ	ŏ	Ö	116	110
May	109	ŏ.	7	ŏ	ŏ	ŏ	116	110
June	109	0	7	ŏ	Ö.	ŏ	116	110
July	109	Ŏ	7	ŏ	Ŏ	ŏ	116	110
August	109	ŏ	7	ŏ	ŏ	ŏ	116	110
riuguai	.03	~	. •			-		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-September 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 September 1979; LaCrosse (51 MW), retired in May 1987; Fort Saint Vrain (217 MW), retired in September 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 Generator 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 Administration (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 \$14.49 per barrel in September 1995, 6 percent higher than the level in September 1994. The refiner acquisition cost of imported crude oil in September 1995 was \$16.70 per barrel, 5 percent above the September 1994 level. The average cost of domestic crude oil in September 1995 was \$17.13, 4 percent higher than the September 1994 average.

Motor Gasoline. The national city average retail price of unleaded regular gasoline at all types of stations was \$1.13 per gallon in October 1995, 2 percent lower than the price in October 1994. The price of unleaded premium gasoline averaged \$1.32 per gallon in October 1995, 2 percent lower than the price in October 1994.

Residual Fuel Oil. The average price, excluding taxes, of residual fuel oil sold to end users in September 1995 was 35 cents per gallon, the same as the previous month's price but 2 percent above the September 1994 average. The average resale price, excluding taxes, of residual fuel oil in September 1995 was 34 cents per gallon, 2 percent higher than the previous month's average and 12 percent higher than the price 1 year earlier.

Aviation Fuel. The average price, excluding taxes, of aviation gasoline sold to end users in September 1995 was \$1.01 per gallon, 2 percent higher than the previous month's price and slightly higher than the September 1994 price. The average price, excluding taxes, of kerosene-type jet fuel sold to end users in September 1995 was 56 cents per gallon, 4 percent higher than the previous month's price and 3 percent more than the September 1994 average price.

No. 2 Distillate Fuel Oil. The September 1995 national average price, excluding taxes, of heating oil sold to residential customers was 82 cents per gallon, 2 percent higher than the previous month's price but 1 percent lower than the price 1 year earlier. The average price of No. 2 fuel oil sold to all end users was 56 cents per gallon in September 1995, 5 percent higher than the August 1995 price and 3 percent higher than the September 1994 price.

Electricity. The average price of electricity sold to all ultimate consumers in the United States in September 1995

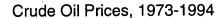
was 7.09 cents per kilowatthour, 2 percent lower than the September 1994 mean price. The price of electricity sold to residential consumers in September 1995 averaged 8.58 cents per kilowatthour, 3 percent lower than the September 1994 price. The price of electricity sold to commercial consumers averaged 7.85 cents per kilowatthour in September 1995, 4 percent less than the September 1994 price. The price of electricity sold to other consumers was 6.69 cents per kilowatthour, 7 percent below the September 1994 price. The price of electricity sold to industrial users in September 1995 averaged 4.82 cents per kilowatthour, 1 percent lower than the price 1 year earlier.

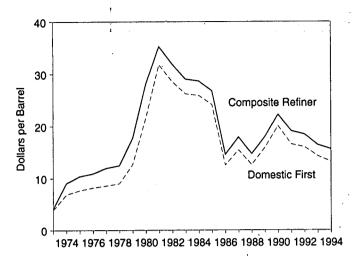
Beginning with January 1986, new series of national average price estimates were based on a statistically derived sample of both publicly and privately owned electric utilities. Previously, average price estimates were derived from selected privately owned electric utilities and were not national averages.

Natural Gas. The estimated average wellhead price of natural gas for September 1995 was \$1.53 per thousand cubic feet, 12 percent below the September 1994 price.

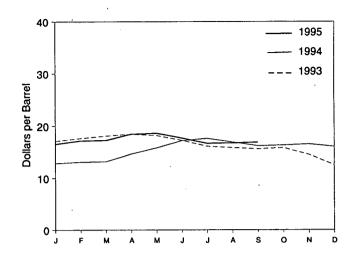
The average price of natural gas delivered to electric utility plants was \$1.90 per thousand cubic feet in August 1995 (latest date for which data are available) 16 percent below the August 1994 price. The average price of natural gas used by residential consumers in September 1995 was \$8.04 per thousand cubic feet, 2 percent lower than the September 1994 price. The average price of natural gas used by commercial consumers in September 1995 was \$4.92 per thousand cubic feet, 7 percent lower than the September 1994 price. The average price of natural gas used by industrial consumers in September 1995 was \$2.35 per thousand cubic feet, 15 percent below the September 1994 price.

Figure 9.1 Petroleum Prices

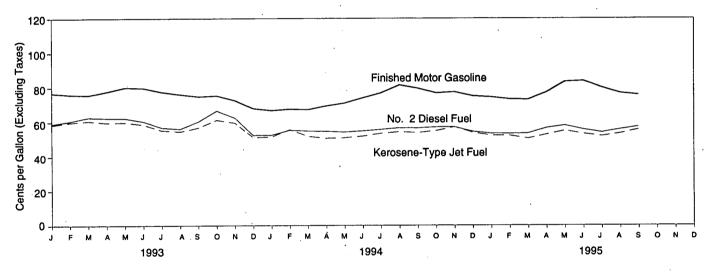




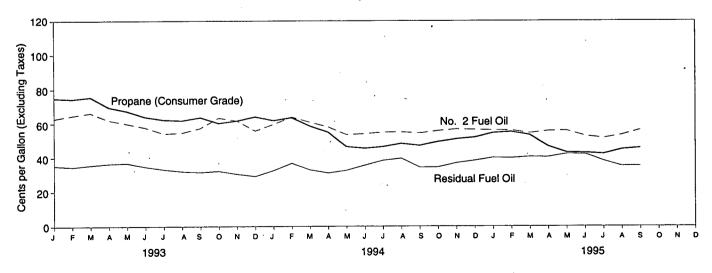
Composite Refiner Acquisition Cost, Monthly



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)

				R	Refiner Acquisition Costa				
	Domestic First Purchase Price ^b	F.O.B. Cost of Imports ^c	Landed Cost of Imports ^d	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			
977 Average	8.57	13.24	14.36	9.55	14.53	11.96			
978 Average	9.00	13.29	14.35	10.61					
979 Average	12.64	20.07			14.57	12.46			
	21.59	32.37	21.45	14.27	21.67	17.72			
980 Average	31.77		33.67	24.23	33.89	28.07			
981 Average		35.15	36.47	34.33	37.05	35.24			
982 Average	28.52	32.02	33.18	31.22	33.55	31.87			
983 Average	26.19	27.81	28.93	28.87	29.30	28.99			
984 Average	25.88	27.60	28.54	28.53	28.88	28.63			
985 Average	24.09	25.84	26.67	26.66	26.99	26.75			
986 Average	12.51	12.52	13.49	14.82	14.00	14.55			
987 Average	15.40	16.69	17.65	17.76	18.13	17.90			
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			
992 Average	15.99	16.77	17.75	18.63	18.20	18.43			
993 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			
994 January	10.49	12.07	12.74	12.73	12.93	12.83			
February	10.71	12.05	12.71	13.24	12.90	13.07			
March	10.94	12.38	13.00	13.14	13.18	13.16			
April	12.31	13.55	14.30	14.74	14.54	14.64			
May	14.02	14.67	15.62	15.86	15.74	15.80			
June	14.93	15.44	16.51	17.38	17.04	17.21			
July	15.34	16.10	17.15	17.74	17.52	17.62			
August	14.50	14.94	16.07	17.22	16.66	16.92			
September	13.62	14.32	15.47	16.46	15.91	16.18			
October	13.84	14.74	15.66	16.35					
November	14.14	14.88	15.98	16.63	16.27 16.46	16.31			
December	13.43	14.46	15.61	16.22	16.46 15.78	16.54			
Average	13.19	14.18	15.18	15.67	15.51	16.03 15.59			
95 January	14.00	15.08	16.23	16.52	16.56	16 54			
February	14.69	15.63	16.73	17.16		16.54			
March	14.68	15.88	17.04		17.21	17.18			
April	15.84	17.28	18.26	17.31	17.22	17.27			
May	15.85			18.20	18.73	18.44			
June	15.02	17.30 15.91	18.18	18.68	18.51	18.60			
July	14.01	15.91	17.07 ^R 15.94	17.94	17.44	17.69			
August	R 14.13	14.82 ^R 15.04	10.84 8 4 6 4 0	16.85 B40.00	16.50	16.68			
September			R 16.10	R 16.96	R 16.54	R 16.75			
OBDIGITIOR!	14.49	15.20	16.38	17.13	16.70	16.91			

See Note 4 at end of section.

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.

See Note 1 at end of section.

See Note 2 at end of section.

d See Note 3 at end of section.

Based on October, November, and December data only.

R=Revised data. E=Estimate.

Notes: • Values for Domestic First Purchase Price and Refiner Acquisition

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
70 Ad	7.23	5.67	4,24	NA	7.81	3.25	NA .	5.39	4.84	4.06	5.43
73 Averaged	13.23	11.99	10.85	ŵ	12.44	10.17	NA	10.71	10.02	10.96	11.33
74 Average	11.93	12.55	10.81	11.44	11.82	10.87	NA	11.04	10.86	11.18	11.34
75 Average	13.05	12.76	11.61	12.22	13.08	11.62	w	11.39	11.92	12.06	12.23
76 Average		13.57	12.68	13.42	14.44	12.38	14.11	12.63	13.19	13.13	13.29
77 Average	14.35		12.65	13.24	14.05	12.70	13.82	12.38	13.35	13.28	13.3
78 Average	14.12	13.61		20.27	21.69	17.28	21.70	16.90	21.10	19.27	19.8
79 Average	20.53	19.03	22.93			28.17	34.36	24.81	34.34	31.57	32.2
80 Average	36.67	32.17	NA	31.06	35.93			28.95	36.69	34.79	35.1
81 Average	39.08	35.62	(⁸)	33.01	38.31	32.60	36.06		31.96	33.84	33.4
82 Average	34.20	35.11	30.97	28.08	35.13	33.73	33.42	23.74			28.4
83 Average	30.09	29.92	28.39	25.20	29.81	27.53	29.91	21.48	27.96	28.28	
84 Average	28.34	29.13	27.42	26.39	29.51	27.67	28.87	24.23	27.79	27.79	27.7
85 Average	26.89	27.12	W	25.33	28.04	22.04 ,	27.64	23.64	26.12	24.34	25.6
86 Average	13.62	13.19	W	11.84	14.35	11.36	13.84	10.92	13.32	11.59	12.2
87 Average	16.79	17.40	· w	16.36	18.47	15.12	18.28	15.08	17.11	15.80	16.4
88 Average	W	13.81	(^e)	12.18	15.16	12.16	14.80	12.96	13.45	12.57	13.4
	w	17.01	/ei	15.96	18.31	16.29	17.89	16.09	17.12	16.72	17.0
89 Average	w	21.29	(⊕)	19.26	22.46	20.36	23.43	19.55	19.88	18.84	20.4
90 Average	w	18.69	15.58	15.37	20.29	14.62	20.81	14.91	17.79	15.59	16.9
91 Average 92 Average	W	17.06	(⁸)	15.26	19.98	15.85	19.61	14.39	17.65	16.50	16.8
00 lanuari	(°)	w	(0)	14.14	17.95	15.55	18.29	12.99	15.19	15.63	15.6
93 January	(0)	w	(°)	14.64	19.06	16.13	18.13	13.68	16.51	16.36	16.4
February	w	w	(0)	15.16	19.33	16.34	18.51	14,22	16.84	16.73	16.9
March			(e)	15.16	19.33	15.23	18.36	14.52	16.76	15.46	16.4
April	(°)	W	(0)			13.62	18.29	13.89	16.63	14.09	16.
May	(°)	19.14	(°)	15.15	18.90		17.03	12.44	15.86	14.20	14.9
June	(°)	W		14.04	18.00	W				13.67	14.
July	W	16.48	(°)	13.09	17.46	W	16.07	11.96	14.97		14.
August	(°)	17.74	(°)	13.20	17.42	W	16.73	12.56	14.68	14.13	
September	W	W	(e)	13.50	16.73	W	16.06	12.72	14.23	12.72	14.
October	W	W	(°)	13.74	17.02	11.16	16.31	11.87	14.88	12.94	13.7
November	W	W	(°)	12.27	15.80	11.15	15.29	9.97	13.85	12.19	12.4
December	w	W	(⁸)	11.19	14.21	W	14.19	9.34	، 11.86	11.47	11.4
Average	w	17.13	(°)	13.74	17.79	13.77	16.64	12.46	15.17	14.25	14.
94 January	w	w	(°)	11.26	15.02	10.29	w	10.93	12.16	10.73	12.
February	(^e)	14.46	(a)	11.44	14.00	12.81	W	10.35	12.16	12.19	11.
March	· `w′	W	(a)	11.68	14.27	14.19	13.68	11.09	12.36	13.70	12.
April	w	13.52	įa;	12.88	15.65	14.91	W	11.81	13.73	14.53	13.
May	(^e)	15.26	}a {	13.67	16.77	15.59	15.77	12.80	15.23	15.72	14.
	`w′	15.91	ζa Ś	15.02	17.32	14.83	16.53	13.21	16.11	15.21	15.
June	w	17.56	ζa (15.70	18.02	W	17.29	14.28	. 16.71	14.76	15.
July	w	W.30	}a{	14.57	16.69	14.14	16.70	12.31	15.95	14.09	14.
August	(⁸)	w	(a)	13.51	16.35	14.80	15.41	12.09	15.44	14.82	13.
September	(e)	w	(a)	14.42	17.01	14.22	16.42	12.90	15.29	14.20	14.
October			(a)		17.13	W	17.01	11.93	15.82	w	14.
November	(°)	W	(a)	15.19		W		12.38	15.14	14.65	13.
December Average	W W	W 15.57	(°)	14.74 13.68	16.18 16.32	14.12	15.75 15.66	12.21	14.68	14.05	14.
•			• •					10.61	15.57	w	14.
95 January	(°)	W	(°)	14.98	17.13	W	W	12.61		vv 15.88	15.
February	(°)	W	(0)	15.79	17.43	W	16.84	13.02	16.41		
March	(°)	W	(°)	15.74	17.19	W	w	14.23	16.62	W	15.
April	`w′	W	(e)	17.16	18.96	W	W	15.97	17.51	17.33	17.
May	W	W	(°)	17.20	18.66	w	18.42	15.76	17.96	16.69	16.
June	(^e)	17.71	(°)	16.07	17.66	14.90	w	13.80	16.63	14.84	15.
July	ìe;	W	įθį	14.77	15.97	W	W	_ 13.33	R 15.54	W	14.
August	`w′	ŵ	(e)	R 14.54	R 16.48	W	^R 16.23	^R 13.73	^R 15.67	15.13	A 14.
	**	w	(e)	15.30	16.94	ŵ	16.47	13.34	16.01	14.96	14.

^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,

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

October 1973-September 1977: Federal Energy Sources: 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 Energy Information Administration (EIA), Form

Marketing Monthly, December 1995, Table 24.

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."

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

Table 9.3 Landed Costs of Crude Oil Imports from Selected Countries

(Dollars per Barrel)

		1			1	1						
	Algeria	Canada	Indonesia	Iran ^a	Mexico	Nigeria	Saudi Arabia	United Kingdom	Venezuela	Other Countries	Arab OPEC ^b	Total OPEC°
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	(°)	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	(°)	16.35	19.19	17.34	18.74	16.78	18.08	17.41	17.78
1990 Average	W	20.48	22.50	(°)	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	(°)	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	(°)	14.98	19.92	17.30	19.28	14.60	18.17	17.30	17.44
March	`w´	16.48	W	/ 0 \	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	(0)	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	(°)	13.44	18.31	14.95	17.51	12.92	16.45	14.98	15.32
August	(^e)	14.94	19.28	(6)	13.66	18.10	15.04	17.56	13.32	16.04	15.09	15.23
September	W	14.56	W	(°)	13.83	17.65	14.31	16.95	13.46	15.53	14.34	14.85
October	W	15.14	w	(°)	14.11	17.98	14.13	16.67	12.70	15.68	14.34	14.70
November	W	14.28	W	(°)	12.63	16.72	13.03	16.57	10.81	14.74	13.15	13.34
December	. W	12.44	15.72	(°)	11.39	15.09	11.74	15.14	10.14	12.82	11.67	12.05
Average	17.34	15.27	18.55	(°)	14.11	18.73	15.40	17.92	13.39	16.44	15.28	15.68
1994 January	W	12.13	W	(°)	11.61	15.76	11.66	14.98	11.78	13.52	11.86	12.94
February	(°)	12.05	16.17	(a)	11.73	14.68	12.32	15.40	11.12	13.60	12.24	12.59
March	`w'	11.92	W	(a)	11.97	15.13	13.31	14.67	11.87	13.33	12.85	13.05
April	W	13.43	15.08	(a)	13.23	16.46	14.30	15.31	12.72	15.09	14.21	14.47
May	(°)	15.25	16.42	(a)	14.10	17.36	15.81	16.33	13.53	16.48	15.72	15.62
June	W	16.45	17.00	(a)	15.44	18.21	16.60	17.40	14.15	17.18	16.58	16.48
July	W	17.53	18.41	(a)	16.17	18.74	16.81	17.96	15.02	17.73	16.86	16.88
August	W	16.51	19.96	(a)	14.97	17.78	15.68	17.41	13.24	16.92	15.72	15.69
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	15.41	17.06	13.85	16.28	15.34	15.51
November	W	16.06	W	(a)	15.61	18.04	15.85	17.19	13.03	16.97	15.84	15.63
December	W	15.41	16.99	(a)	15.56	17.24	15.56	16.84	13.50	16.45	15.56	15.34
Average	W	14.83	16.91	(°)	14.09	17.21	15.11	16.64	13.12	15.95	15.02	15.08
1995 January	w	16.03	w	(0)	15.52	17.64	16.66	17.35	13.66	16.94	16.65	16.14
February	W	16.74	W	(e)	16.23	18.24	17.11	17.70	14.01	17.57	17.03	16.49
March	W	16.88	18.78	(8)	16.34	18.13	17.41	18.00	15.29	17.78	17.33	16.86
April	W	18.27	W	(°)	17.56	19.82	18.45	18.53	16.95	18.55	18.41	18.34
May	W (B)	18.44	W	(8)	17.69	19.45	17.71	19.16	16.68	18.86	17.70	17.90
June	(°)	17.28	18.98	(°)	16.58	18.74	16.39 B 4 5 70	18.71	14.85	17.96 B 40.70	16.41	16.62
July	W	16.33 Bacos	17.27	(°)	15.28 B 15.40	17.29	R 15.73	17.44 B 47.00	14.21	R 16.72	R 15.74	R 15.69
August	W	R 16.35	17.47	(*)	R 15.12	^R 17.39	R 16.19	R 17.28	R 14.68	16.67	R 16.15	R 16.04
September	W	16.37	W	(°)	15.79	17.83	16.39	17.48	14.37	17.16	16.42	16.25

a Beginning with February 1994, data for Iran are no longer reported in the

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, December 1995, Table 25.

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

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

	Leaded Regular	Unleaded Regular	Unleaded Premium	All Types ^a
		AIA.	NA	NA
73 Average	38.8 .	, NA		NA NA
74 Average	53.2	NA	NA NA	
75 Average	56.7	NA	NA NA	NA NA
76 Average	59.0	61.4	NA NA	NA
77 Average	62.2	65.6	NA	NA
78 Average	62.6	67.0	NA	65.2
79 Average	85.7	90.3	NA	88.2
80 Average	119.1	124.5	, NA	122.1
81 Average ^b	131.1	137.8	[©] 147.0	135.3
82 Average	122.2	129.6	141.5	128.1
83 Average	115.7	· 124.1	138.3	122.5
984 Average	112.9	121.2	136.6	119.8
	111.5	120.2	134.0	119.6
985 Average	85.7	92.7	108.5	93.1
86 Average		94.8	109.3	95.7
87 Average	89.7		110.7	96.3
)88 Average	89.9	94.6		
89 Average	99.8	102.1	119.7	106.0
90 Average	114.9	116.4	134.9	121.7
91 Average	NA	114.0	132.1	119.6
992 Average	NA	112.7	131.6	119.0
93 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
	NA NA	113.0	132.1	119.4
June		110.9	130.5	. 117.4
July	NA NA		129.4	116.3
August	NA .	109.7	128.2	115.1
September	NA	108.5		
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
994 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 NA	108.0	127.4	114.3
	NA NA	110.6	130.0	116.7
June	NA NA	113.6	132.7	119.9
July		118.2	136.7	124.3
August	NA NA		136.4	123.7
September	NA .	117.7	. +	121.2
October	NA	115.2	134.5	
November	NA	116.3	135.4	122.2
December	NA	114.3	133.7	120.3
Average	NA	111.2	130.5	117.4
995 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
•	NA NA	122.6	141.1	128.1
June	NA NA	119.5	138.4	125.2
July			135.2	122.2
August	NA NA	• 116.4		120.6
September	NA	114.8	133.2	
October	NA	112.7	131.5	118.5

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

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.

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.

Table 9.5 Refiner Prices of Residual Fuel Oil

	Residual Sulfur Cor Than or Equa	itent Less	Sulfur	I Fuel Oil Content en 1 Percent	Ave	rage
	Sales for Resale	Sales to End Users	Sales for Resale	Sales to End Users	Sales for Resale	Sales to End Users
978 Average	29.3	31.4	24.5	27.5	26.3	29.8
979 Average	45.0	46.8	36.6	38.9	39.9	43.6
380 Average	60.8	67.5	47.9	52.3	52.8	60.7
981 Average	74.8	82.9	62.2	67.3	66.3	75.6
982 Average	69.5	74.7	57.2	61.1	61.2	67.6
983 Average	64.3	69.5	59.1	61.1	60.9	65.1
984 Average	68.5	72.0	63.9	65.9	65.4	68.7
985 Average	61.0	64.4	56.0	58.2	57.7	61.0
986 Average	32.8	37.2	28.9	31.7	30.5	34.3
987 Average	41.2	44.7	36.2	39.6	38.5	42.3
988 Average	33.3	37.2	27.1	30.0	30.0	33.4
989 Average	40.7	43.6	33.1	34.4	36.0	38.5
990 Average	47.2	50.5	37.2	40.0	41.3	44.4
991 Average	36.4	40.2	29.2	30.6	31.4	34.0
992 Average	35.1	38.9	28.6	31.2	30.8	33.6
993 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
994 January	33.6	39.1	22.8	27.8	28.3	32.5
February	39.3	44.8	25.7	31.3	33.8	36.8
March	30.0	39.9	24.3	29.5	27.4	32.9
April	29.4	35.2	25.8	29.5	27.5	31.1
May	31.7	35.9	27.5	31.1	29.5	32.6
June	35.8	38.6	31.1	34.2	33.5	35.6
July	37.8	41.2	34.5	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	34.5
November	35.6 36.9	40.0 42.2	32.9	35.7	34.2	36.9
December Average	36.9 34.5	42.2 40.1	32.0 28.7	36.9 33.0	34.1 31.7	38.3 35.2
•			•			
995 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
May	40.4	43.6	37.3	41.7	38.8	42.2
June	39.9	45.1	36.9	41.3	38.7	42.1
July	36.8	42.9	32.5	36.5	35.3	38.2
August	35.2	39.1	^R 30.0	33.7	33.1	^R 35.1
September	36.3	39.0	30.5	34.0	33.8	35.1

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, December 1995, Table 19.

Table 9.6 Refiner Prices of Petroleum Products for Resale

	Finished Motor Gasoline ^a	Finished Aviation Gasoline	Kerosene- Type Jet Fuel	Kerosene	No. 2 Fuel Oll	No. 2 Diesei 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
981 Average	106.4	125.0	101.2	106.6	97.6	97.2	46.6
	97.3	122.8	95.3	101.8	91.4	91.4	42.7
982 Average	88.2	117.8	85.4	89.2	81.5	80.8	48.4
983 Average	83.2	116.5	83.0	91.6	82.1	80.3	45.0
984 Average		113.0	79.4	87.4	77.6	77.2	39.8
985 Average	83.5		49.5	60.6	48.6	45.2	29.0
986 Average	53.1	91.2		59.2	52.7	53.4	25.2
987 Average	58.9	85.9	53.8				24.0
988 Average	57.7	85.0	49.5	54.9	47.3	47.3	
989 Average	65.4	95.0	58.3	66.9	56.5	56.7	24.7
990 Average	78.6	106.3	77.3	83.9	69.7	69.4	38.6
991 Average	69.9	100.1	65.0	72.2	62.2	61.5	34.9
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
	50.3	87.4	51.0	53.6	45.1	46.8	30.9
December				60.4	54.4	57.0	35.1
Average	62.6	96.5	57.7	00.4			
1994 January	52.2	87.1	52.9	65.7 70.5	50.7	49.1 52.8	32.3 34.0
February	54.6	87.8	56.0	73.5	54.2		
March	54.9	87.4	52.5	59.9	49.7	52.9	31.8
April	57.9	89.5	50.9	55.1	48.9	52.3	30.4
May	59.2	91.2	50.6	53.2	49.0	51.7	30.4
June	62.6	93.2	51.5	53.9	49.8	52.3	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	61.4	95.4	54.4	59.1	50.8	55.2	33.5
November	62.2	95.2	56.3	60.7	51.0	55.1	35.0
December	58.0	94.2	53.1	57.4	49.5	51.0	35.7
Average	59.9	93.3	53.4	61.8	50.6	52.9	32.4
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	60.0	93.1	50.1	52.8	48.1	51.2	34.3
	66.5	96.6	52.6	56.0	50.4	54.8	33.0
April	71.8	102.2	54.7	57.7	52.4	55.9	33.2
May			54.7 53.1	57.7 53.2	49.3	52.6	32.6
June	68.2	101.6					
July	62.9	100.1	51.3 B 50.4	52.3 8 5 4 0	48.1	51.4 54.0	32.1
August	62.0	98.9	R 53.1	^R 54.9	51.0	54.2	33.2
September	62.3	98.7	55.2	57.9	52.0	55.7	33.8

^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, December 1995, Table 4.

Table 9.7 Refiner Prices of Petroleum Products to End Users

	Finished Motor Gasoline ^a	Finished Aviation Gasoline	Kerosene- Type Jet Fuel	Kerosene	No. 2 Fuel Oll	No. 2 Diesei Fuel	Propane (Consumer Grade)
<u>· </u>	Gasonio		1 0011 001	1101000110	<u> </u>		
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
980 Average	103.5	108.4	86.8	90.2	78.8	81.8	48.2
981 Average	114.7	130.3	102.4	112.3	91.4	99.5	56.5
982 Average	106.0	131.2	96.3	108.9	90.5	94.2	59.2
983 Average	95.4	125.5	87.8	96.1	91.6	82.6	70.9
984 Average	90.7	123.4	84.2	103.6	91.6	82.3	73.7
985 Average	91.2	120.1	79.6	103.0	84.9	78.9	71.7
986 Average	62.4	101.1	52.9	79.0	56.0	47.8	74.5
987 Average	66.9	90.7	54.3	77.0	58.1	55.1	70.1
_	67.3	89.1	51.3	73.8	54.4	50.0	71.4
988 Average	75.6	99.5	59.2	70.9	58.7	58.5	61.5
1989 Average	88.3	112.0	76.6	92.3	73.4	72.5	74.5
1990 Average	79.7	104.7	65.2	83.8	66.5	64.8	73.0
1991 Average	78.7 78.7	102.7	61.0	78.8	62.7	61.9	64.3
1992 Average	70.7	102.7	01.0	70.0	V2. 1	•	• • • • • • • • • • • • • • • • • • • •
993 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
-							
994 January	66.8	88.6	51.5	79.5	59.5	52.5	61.8
February	67.6	88.4	55.7	84.1	63.9	55.4	63.5
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	51.0	55.2	53.5	54.3	46.4
June	74.1	95.6	51.9	54.5	54.0	54.9	45.5
July	77.0	97.4	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	47.1
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	75.1	99.2	53.9	64.7	56.4	54.5	51.9
Average	73.8	95.7	53.4	66.0	57.2	55.4	53.0
1995 January	74.5	99.6	52.3	67.4	56.1	53.4	54.5
February	74.3 73.3	99.8	52.2	62.7	55.9	53.3	55.1
March	73.1	99.0	50.5	59.4	54.4	53.5	53.3
	73.1 77.3	101.3	50.5 52.8	56.1	55. 6	56.6	46.6
April		105.8	55.0	50.1 51.8	55.8	58.1	43.1
May	83.4			51.8 54.9	52.8	55.7	43.1 42.9
June	83.9	106.4	53.2 51.0	•			42.9 42.2
July	80.0	101.8	51.9 50.4	51.3 8 50.0	51.5 B 50.0	54.0	
August	76.9	99.2	53.4	^R 53.3	R 53.3	55.8	44.9
September	75.8	101.3	55.7	57.3	56.2	57.4	45.7

^a See Note 5 at end of section.

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, December 1995, Table 2.

R=Revised data.

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

	Maine	New Hampshire	Vermont	Massachusetts	Rhode Island	Connecticut	New York	New Jersey	Pennsylvania
i978 Average	48.6	50.3	50.8	48.8	50.7	50.1	50.1	49.6	48.8
979 Average	68.8	72.5	72.5	70.9	72.8	72.0	71.2	71.0	69.8
980 Average	96.3	100.4	101.5	97.8	101.1	98.3	98.2	97.9	96.4
981 Average	120.4	123.7	125.4	121.3	123.8	121.7	123.2	121.5	118.1
982 Average	115.5	117.4	120.1	117.6	120.1	118.3	120.5	117.4	113.7
983 Average	102.8	104.1	112.9	109.1	110.5	109.1	112.1	107.9	105.8
984 Average	103.9	108.4	111.9	111.6	111.4	112.1	115.5	111.0	107.9
985 Average	99.7	102.4	107.7	107.0	106.7	108.0	111.3	105.9	102.3
986 Average	74.4	75.9	86.6	82.1	82.8	89.0	91.1	90.2	81.4
987 Average	74.7	76.5	81.1	80.6	82.5	83.4	85.2	84.3	76.9
	77.7	78.2	82.6	82.1	83.6	85.3	86.3	84.8	76.9 77.8
988 Average									
989 Average	89.4	89.3	90.5	92.6	93.9	92.9	95.8	91.8	85.1
990 Average	98.9	102.8	107.0	108.4	108.6	109.8	112.5	108.7	102.6
991 Average	96.0	91.6	101.9	103.0	99.9	106.2	111.3	104.0	99.7
992 Average	87.1	85.6	92.1	92.5	91.2	94.7	102.8	93.9	89.0
993 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	70.9 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
994 January	83.8	80.4	88.8	88.4	87.3	90.2	97.2	91.7	87.7
	90.4	86.6	92.3	91.3	91.4	90.2 93.8	101.7		
February								94.8	92.5
March	85.9	83.6	91.0	88.3	89.4	92.1	100.3	93.9	90.4
April	80.8	78.2	88.3	86.0	85.1	89.4	96.4	90.7	86.2
May	76.8	75.4	86.7	85.1	83.3	85.4	96.3	85.4	83.7
June	75.6	73.1	84.6	83.7	82.3	86.1	96.8	83.5	80.1
July	75.6	71.8	83.0	82.1	81.6	84.2	93.9	82.9	75.7
August	78.0	72.8	83.8	78.7	84.0	79.7	89.1	85.9	77.9
September	78.5	72.9	83.3	81.1	84.7	80.5	90.8	85.4	79.1
October	77.5	74.0	83.9	83.0	84.4	83.7	92.9	86.8	80.2
November	77.7	73.7	84.3	83.6	85.8	84.0	93.3	88.6	81.4
December	77.5	77.3	85.3	84.2	87.2	86.1	94.6	89.6	82.0
Average	81.8	79.2	87.6	87.0	88.5	89.0	96.6	89.5	85.7
995 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	97.0	NA.	82.3
April	76.7	76.6	84.8	83.3	86.5	85.2	94.8	NA NA	80.9
May	78.7	75.8	84.5	85.4	86.1	86.5	96.0	87.8	81.1
June	78.0	74.5	83.7	84.0	83.2	84.2	95.9	87.4	79.5
	76.0 76.9	74.5 72.9	81.6	80.6		79.4			
July				80.6 R 80.9	81.7 Bos 2		92.9	85.3	75.8
August	76.6	73.1	R 81.7		R 85.3	R 77.4	90.3	R 81.9	75.5
September	76.3	73.8	82.6	81.8	84.4	79.2	91.0	83.3	77.2

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.

Source: EIA, Petroleum Marketing Monthly, December 1995, Table 18.

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

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

	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
981 Average	117.3	127.4	121.4	120.5	115.0	113.2	118.3	118.5	114.9	109.1	118.4
982 Average	111.3	124.5	117.1	117.7	109.3	110.2	113.9	114.3	110.9	107.8	115.1
983 Average	106.0	117.0	110.3	108.7	101.0	101.3	106.4	100.7	100.4	101.2	103.1
984 Average	109.6	118.7	113.5	110.5	102.1	102.1	105.0	103.1	100.1	101.0	104.1
985 Average	104.6	114.3	108.8	106.3	98.0	99.7	102.1	99.1	97.5	98.3	101.9
1986 Average	85.0	93.1	91.4	86.6	74.6	77.7	81.0	74.8	NA	75.6	79.2
987 Average	79.3	91.8	86.6	79.5	76.4	74.7	77.5	75.4	79.8	75.1	74.6
988 Average	80.1	91.6	87.0	80.5	74.2	74.7	77.5	75.4	77.6	73.9	73.5
989 Average	88.2	98.6	93.8	87.0	83.0	81.6	85.3	83.2	80.9	81.1	82.4 101.4
990 Average	105.8	107.8	111.9	110.6	99.1	98.1	100.9	99.3	96.1	94.2	
991 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
993 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 83.6
June	90.6	100.4	94.7	85.7	87.0	86.5	87.2	82.0	81.3	84.0	83.6 82.4
July	86.4	100.2	92.3	84.5	81.0	79.2	83.2	79.1	79.4	84.0 78.6	79.9
August	83.5	96.1	91.3	84.0	80.1	78.6	82.1	76.7 79.3	77.4 81.2	76.6 82.6	79.9 83.1
September	84.6	95.5	92.4	84.9 85.1	80.5	81.4 85.5	85.5 89.9	79.3 82.7	87.2	81.6	87.0
October	87.4	102.1	94.1	84.2	84.3	84.5	86.3	80.2	82.4	82.5	84.8
November	88.3 88.6	100.9 100.5	95.8 94.6	85.5	84.3 84.8	80.9	82.0	77.1	78.6	78.6	80.6
December Average	89.9	100.5	98.1	89.3	85.6	84.0	87.2	81.0	84.4	82.3	83.2
204 Innuan	92.1	102.5	98.8	88.6	86.3	81.3	85.6	79.1	78.8	79.9	80.5
1994 January	91.5	102.5	99.5	88.6	86.3	84.2	88.0	82.0	82.2	81.8	80.6
February	91.2	102.0	96.3	86.6	85.0	82.5	87.7	81.0	78.7	82.4	80.0
March April	89.2	93.7	92.4	83.0	77.8	82.7	87.7	81.2	76.1	81.4	80.3
May	84.4	83.1	86.8	82.2	73.5	83.3	87.3	79.9	73.3	80.8	79.9
June	82.0	W	87.7	79.7	72.4	82.2	86.9	81.5	75.5	79.9	79.7
July	80.5	w	87.8	79.6	72.9	76.8	87.7	80.0	75.3	81.4	79.8
August	82.3	81.9	86.0	80.5	74.8	76.0	84.3	81.6	77.2	79.1	80.8
September	83.1	86.2	87.8	80.4	76.2	79.9	84.2	82.6	76.6	79.8	81.2
October	84.9	95.5	90.0	82.3	79.3	79.8	85.2	81.7	77.6	80.7	81.4
November	86.0	97.7	92.4	84.1	81.4	79.8	85.9	81.2	80.8	80.9	81.2
December	86.1	101.3	94.3	84.8	81.3	81.1	86.1	82.4	80.4	81.2	80.3
Average	89.4	100.0	95.0	85.3	80.9	81.2	86.3	81.2	78.4	81.1	80.6
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	87.6	103.3	94.2	84.0	81.4	80.4	85.7	82.3	76.6	80.4	80.4
April	87.0	100.0	91.3	84.0	80.2	81.9	86.3	82.7	81.5	81.1	80.5
May	85.2	93.3	89.6	83.0	76.2	80.8	86.1	83.9	81.6	81.5	80.5
June	83.2	NA	86.7	82.3	77.3	78.8	83.5	83.7	77.0	81.3	77.3
July	80.0	85.1	_ 83.2	81.2	_ 75.3	76.6	_82.0	_ 82.0	76.6	81.0	76.5
August	82.2	W	^R 82.6	80.8	^R 74.3	^R 72.6	^R 82.1	^R 79.3	72.9	^R 78.5	77.3
September	82.4	86.1	85.6	81.6	76.2	77.2	84.3	81.4	75.6	80.6	79.5

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, December 1995, Table 18.

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

	idaho	Washington	Oregon	Alaska	U.S. Average	
		1	0			
978 Average	43.6	48.6	45.8	53.2	49.0	
1979 Average	62.1	69.7	68.0	68.2	70.4	
980 Average	91.6	100.8	97.3	97.8	97.4	
981 Average	110.4	116.5	111.4	118.0	119.4	
982 Average	110.4	117.6	111.6	117.4	116.0	
983 Average	101.8	109.0	103.6	108.8	107.8	
984 Average	98.5	102.6	99.3	106.9	109.1	
985 Average	97.2	1 <u>01.1</u>	97.1	108.3	105.3	
986 Average	73.8	77.5	70.4	94.9	83.6	
987 Average	68.8	79.5	72.5	86.5	80.3	
988 Average	68.8	78.5	70. 9	86.9	81.3	
989 Average	77.8	87.4	80.2	96.4	90.0	
990 Average	97.4	102.9	97.0	110.1	106.3	
991 Average	95.1	101.6	93.3	105.0	101.9	
992 Average	85.7	94.0	87.6	94.1	93.4	
000 1	05.0	400 5	04.7	05.4	24.0	
993 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	
	81.1	96.6	87.8			
December				91.7	86.6	
Average	86.2	99.9	91.8	96.1	91.1	
994 January	73.2	92.8	86.0	88.8	89.6	
February	73.7	96.3	88.3	88.6	92.9	
March	77.4	97.1	88.4	89.2	91.4	
April	76.2	97.5	88.1	88.6	88.2	
May	76.9	96.2	87.6	90.0	86.1	
June	72.8	93.1	85.1	87.7	85.2	
July	72.6 74.6	NA	82.5	88.2	82.7	
	80.8	NA NA	NA			
August				80.8	82.1	
September	83.1	90.2	87.8	83.4	83.2	
October	85.8	96.2	91.1	85.1	84.7	
November	84.8	99.0	91.6	86.6	85.7	
December	84.6	97.3	89.4	84.7	86.8	
Average	78.9	95.0	88.7	86.5	88.4	
995 January	80.3	95.4	88.5	83.5	87.4	
February	79.7	94.8	87.0	84.0	87.9	
March	80.0	94.5	88.8	84.2	87.4	
April	81.0	NA	90.4	82.8	86.2	
	83.2	NA NA				
May			91.5	82.3	86.4	
June	82.8	NA 24.2	89.9	82.7	84.7	
July	82.9	94.0	NA	81.7	82.0	
August	R 83.5	R 91.2	86.3	^R 81.7	^R 80.6	
September	86.8	94.8	87.4	83.2	82.3	

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.

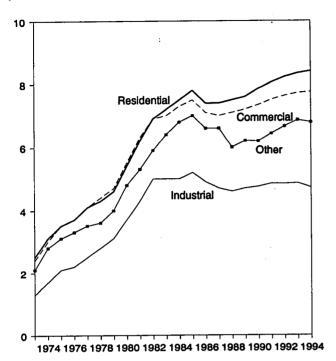
Source: EIA, Petroleum Marketing Monthly, December 1995, Table 18.

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

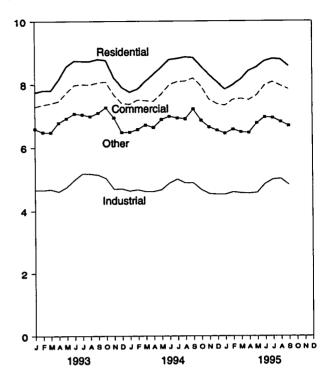
Figure 9.2 Retail Prices of Electricity Sold by Electric Utilities

(Cents per Kilowatthour)

By Sector, 1973-1994



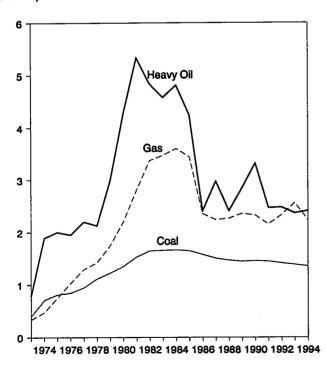
By Sector, Monthly



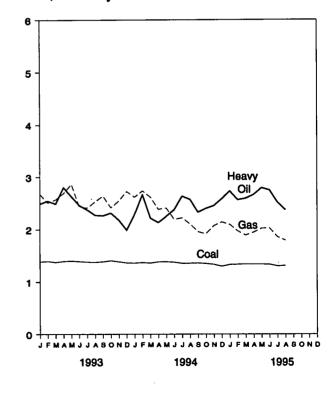
Source: Table 9.9, Monthly Series.

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)

		Resid	ential	Comm	ercial	Indus	trial	Oth	er ^a	Tot	alb
		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 NA
1977 Average		4.1	NA NA	4.1	NA	2.5	NA NA	3.5	NA	3.4	NA NA
1978 Average		4.3	NA NA	4.4	NA NA	2.8	NA	3.6	NA	3. 7 3.7	NA NA
1979 Average		4.6	NA NA	4.7	NA NA	3.1	NA	4.0	NA NA	4.0	NA NA
1980 Average		5.4	NA NA	5.5	NA NA	3.7	NA NA	4.8	NA NA	4.7	NA NA
		6.2	NA NA	6.3	NA NA	4.3	NA NA	5.3	NA NA	5.5	NA NA
1981 Average		6.9	NA NA	6.9	NA NA	5.0	NA NA	5.3 5.9	NA NA		
1982 Average		7.2	NA NA	7.0	NA NA	5.0 5.0	NA NA			6.1	NA
1983 Average								6.4	NA	6.3	NA
1984 Average		7.5 7.9	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	<u> </u>	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	<u>-</u> `	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	<u>-</u>	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	6.79	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	· <u>-</u>	6.67	Ξ
April		8.43	-	7.51	_	4.55	_	6.47	_	6.67	_
May		8.55	_	7.66	_	4.57	_	6.78	_	6.76	_
June		8.74	Ξ	7.97	_	4.85	_	6.96	_	7.12	
July		8.81	_	8.07	_	4.65 4.99	_	6.94			-
		8.79	_	7.96	_		_		-	7.36	-
August			_			5.01		6.82	-	7.36	_
September 9-Month Ave		8.58 8.45	_	7.85 7.74	_	4.82	_	6.69	-	7.09	-
2-Monui Ave	raye	8.45	_	7.74	_	4.72	-	6.69	-	6.95	-
1994 9-Month Ave 1993 9-Month Ave		8.43 8.36	-	7.79 7.72	-	4.77 4.88	<u>-</u>	6.82 6.84	-	6.97 6.95	-

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

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

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.

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

(thoushort	rantity ousand ort tons) 74,842 34,868 31,527 54,858 90,415 90,415 90,415 91,427 92,728 84,111 66,743 86,964	Cost (cents per million Btu) 40.5 70.9 81.4 84.8 94.7 111.6 122.4 135.1 153.2	Quantity (thousand barrels) 512,650 479,166 457,582 495,363 563,685 546,197 479,705	Cost (cents per million Btu) 78.5 189.0 200.5 195.2 219.8	Total Quantity (thousand barrels) 535,859 515,217 510,352	Cost (cents per million Btu) 80.0 191.0	Quantity (million cubic feet)	Cost (cents per million Btu)	Cost (cents per million Btu
(thou short	ousand rt tons) 74,842 84,868 811,527 54,858 90,415 76,169 56,558 93,995 79,374 01,427 92,728 84,111 66,743	40.5 70.9 81.4 84.8 94.7 111.6 122.4 135.1	(thousand barrels) 512,650 479,166 457,582 495,363 563,685 546,197	78.5 189.0 200.5 195.2	(thousand barrels) 535,859 515,217	(cents per million Btu)	(million cubic feet) 3,382,677	(cents per million Btu)	(cents per
974 Year	34,868 31,527 54,858 90,415 76,169 56,558 93,995 79,374 01,427 92,728 84,111 66,743	70.9 81.4 84.8 94.7 111.6 122.4 135.1	479,166 457,582 495,363 563,685 546,197	189.0 200.5 195.2	515,217			33.8	
974 Year	34,868 31,527 54,858 90,415 76,169 56,558 93,995 79,374 01,427 92,728 84,111 66,743	70.9 81.4 84.8 94.7 111.6 122.4 135.1	479,166 457,582 495,363 563,685 546,197	189.0 200.5 195.2	515,217				47.6
975 Year	31,527 54,858 90,415 76,169 56,558 93,995 79,374 01,427 92,728 84,111 66,743	81.4 84.8 94.7 111.6 122.4 135.1	457,582 495,363 563,685 546,197	200.5 195.2			3,225,203	48.2	91.4
976 Year	54,858 90,415 76,169 56,558 93,995 79,374 01,427 92,728 84,111 66,743	84.8 94.7 111.6 122.4 135.1	495,363 563,685 546,197	195.2		202.3	3,034,808	75.2	104.4
977 Year	90,415 76,169 56,558 93,995 79,374 01,427 92,728 84,111 66,743	94.7 111.6 122.4 135.1	563,685 546,197		549,973	199.0	2,962,811	103.4	111.9
978 Year	76,169 56,558 93,995 79,374 01,427 92,728 84,111 66,743	111.6 122.4 135.1	546,197	/ IM.D	635,556	224.9	3,106,403	129.1	129.7
379 Year 556 380 Year 593 381 Year 593 382 Year 601 383 Year 592 384 Year 684 385 Year 686 386 Year 721 388 Year 727 388 Year 721 388 Year 722 389 Year 753 399 Year 765 3991 Year 765 3991 Year 765 3993 January 65 February 55 March 63 June 63 July 53 August 64 November 65 November 66	56,558 93,995 79,374 01,427 92,728 84,111 66,743	122.4 135.1		212.5	616,040	219.1	3,140,654	142.2	141.1
980 Year	93,995 79,374 01,427 92,728 84,111 66,743	135.1	w/ 3./ UU	298.8	515,695	307.2	3,368,976	174.9	163.9
981 Year	79,374 01,427 92,728 84,111 66,743		394,159	426.7	419,140	435.1	3,588,814	219.9	192.8
982 Year	01,427 92,728 84,111 66,743	133.4	327,477	533.4	345,544	542.5	3,573,558	280.5	225.6
983 Year	92,728 84,111 66,743	164.7	228,200	483.2	239,111	492.2	3,161,348	337.6	224.9 220.6
984 Year	84,111 66,743	165.6	211,705	457.8	219,652	462.8	2,732,248	347.4	219.1
985 Year	66,743	166.4	193,832	481.2	202,372	486.3	2,878,808	360.3 344.4	209.4
986 Year		164.8	156,410	424.4	164,947	431.7	2,808,921 2,387,622	235.1	175.0
987 Year		157.9	220,585	240.1	228,522	243.7	2,367,622 2,605,191	224.0	170.6
989 Year	21,298	150.6	187,300	297.6	194,578	301.1 243.9	2,362,721	226.3	164.3
990 Year 786 991 Year 766 992 Year 766 993 January 65 February 55 March 65 April 65 May 66 July 55 August 66 October 66 November 66 Year 766 1994 January 66 March 77 April 66 May 77 June 77 July 67 August 77 September 66 November 77 April 66 November 77 July 66 August 77 September 66 November 79 Year 83	27,775	146.6	230,234	240.5	236,924	289.3	2,472,506	235.5	167.5
991 Year	53,217	144.5	237,668	284.6	246,422 209,350	338.4	2,490,979	232.1	168.9
992 Year 775 993 January 65 February 55 March 63 April 66 April 66 June 66 July 55 August 66 September 66 October 66 November 76 Hebruary 66 March 77 April 66 May 77 June 77 September 66 October 66 November 66 December 77 Year 83	86,627	145.5	202,281	331.9	169,625	254.8	2,630,818	215.3	160.3
993 January 65 February 55 March 65 April 63 April 63 June 63 July 55 August 66 September 66 November 66 Year 766 1994 January 66 March 77 April 66 May 77 June 77 June 77 July 66 August 77 September 66 October 66 November 66 November 77 April 66 May 77 June 77 J	69,923	144.7	163,106	246.5 247.5	144,390	255.1	2,637,678	232.8	159.0
February 55 March 65 April 65 May 66 May 66 July 55 August 66 September 66 November 66 December 76 March 77 April 66 May 77 June 77 July 66 August 77 September 66 October 66 November 66 May 77 June 77 July 66 August 77 September 66 October 66 November 66 November 66 December 77 Year 83	75,963	141.2	138,537	247.5	144,000	200	•		450.0
February 55 March 65 April 65 April 65 May 66 May 66 June 65 July 55 August 66 September 66 November 66 December 76 March 77 April 66 May 77 June 77 September 66 October 66 November 66 December 77 Year 83	65,219	138.5	8,437	248.7	9,027	259.1	159,320	267.3 250.7	156.2 155.6
March 65 April 65 May 62 June 65 July 55 August 61 September 65 October 66 November 66 November 66 Year 76 1994 January 6 March 7 April 66 May 7 June 7 July 6 August 7 September 66 October 6 November 6 December 7 Year 83	59,225	139.3	7,002	254.1	7,421	263.8	153,537	256.7 256.7	156.4
May	63,957	137.5	8,548	248.6	9,022	258.8	185,876 169,838	268.9	159.9
May 66 June 63 July 53 August 64 September 65 October 66 November 66 December 66 Year 76 1994 January 6 February 6 March 7 April 6 May 7 June 7 July 6 August 7 September 6 November 6 December 7 Year 83	63,814	139.3	10,074	280.0	10,534	286.5 269.3	163,917	286.3	161.7
July	62,568	140.0	10,378	262.7	10,803	254.2	244,015	243.2	159.9
August 68 September 66 October 66 November 66 Pecember 76 1994 January 66 February 66 March 77 April 66 May 77 June 77 July 67 September 66 October 66 November 66 December 77 Year 83	63,702	139.0	10,638	. 245.8	11,149	243.3	313,392	240.9	164.5
September 68	59,853	138.0	15,424	237.3 227.0	16,045 15,624	232.2	340,505	252.6	165.1
October 6: November 6: November 6: December 6: Year 76: 1994 January 6: February 6 March 7. April 6 May 7 June 7 July 6 August 7 September 6 October 6 November 6 December 7 Year 83	65,843	137.4	15,099	226.1	15,766	231.0	250,296	263.6	162.8
November 66 December 66 Year 76 1994 January 66 February 66 March 77 April 66 May 77 June 77 July 66 August 77 September 66 October 66 November 66 December 7 Year 83	65,357	138.5	15,324 13,596	231.0	14,005	236.6	226,238	241.3	159.1
December	67,123	140.5 138.4	10,868	218.0	11,420	227.3	201,903	254.0	156.9
Year 76 1994 January 6 February 6 March 7 April 6 May 7 June 7 July 6 August 7 September 6 October 6 November 6 December 7 Year 83	65,938 66,552	136.2	16,331	198.8	17,085	205.5	165,685	272.4	154.9
February 6 March 7 April 6 May 7 June 7 July 6 August 7 September 6 October 6 November 6 December 7 Year 83	769,152	138.5	141,719	236.2	147,902	243.3	2,574,523	256.0	159.5
February 6 March 7 April 6 May 7 June 7 July 6 August 7 September 6 October 6 November 6 December 7 Year 83	62,611	135.9	16,700	228.6	17,781	238.0	160,361	261.5	156.7
March 7. April 6 May 7 June 7 July 6 August 7 September 6 October 6 November 6 December 7 Year 83	64,409	136.8	16,554	266.2	17,543	274.4	142,783	273.5	159.0
April 6 May 7 June 7 July 6 August 7 September 6 October 6 November 6 December 7 Year 83	72,960	135.9	12,796	221.6	13,318	227.7	179,910	261.5	153.1
May 7 June 7 July 6 August 7 September 6 October 6 November 6 December 7 Year 83	67,380	138.1	9,904	213.1	10,400	220.9	199,349	238.2	153.6
June 7 July 6 August 7 September 6 October 6 November 6 December 7 Year 83	71,130	138.3	13,291	224.8	13,892	231.3	211,907	240.6	155.2
July 6 August 7 September 6 October 6 November 6 December 7 Year 83	70,066	137.4	13,461	237.3	14,333	246.1	302,900	219.2	156.4
August	67,619	135.3	14,215	263.2	14,771	267.9	347,984	221.9	158.9 153.8
September 6 October 6 November 6 December 7 Year 83	75,308	135.4	11,135	256.9	11,562	262.1	360,874	210.3 195.7	148.8
October	69,922	135.8	8,495	232.5	8,966	240.2	283,747	195.7 191.6	145.6
December 7 Year 83	69,323	134.8	4,689	239.8	5,187	253.9	252,845 221,118	206.8	146.3
Year 83	68,846	133.3	6,313	245.2	6,852	256.9 268.6	200,126	213.9	143.8
	72,354	129.7	. 7,630	258.1 240.9	8,336 142,940	248.8	2,863,904	223.0	152.6
1995 January6	B31,929	135.5	135,184	240.5	142,040	240.0	_,,,		
	69,981	132.9	5,565	273.1	6,114	282.7	188,389	209.2	145.2 143.6
	65,789	133.4	6,150	256.2	6,535	263.1	163,598	197.0 189.0	144.3
	69,027	133.8	5,040	259.0	5,451	267.6	233,406	194.5	144.
April 6	66,167	133.7	2,849	266.2	3,222	280.4	222,405 247,211	201.9	147.3
May 6	68,501	133.7	5,864	279.2	6,212	286.0 282.4	247,211 281,754	202.6	150.3
June6	64,483	133.3	8,476	274.8	9,083	282.4 257.7	376,164	185.6	146.0
	67,734	130.3	8,367	251.3 227.0	8,838	247.6	424,323	179.1	145.0
	70 040	130.9 132.7	9,284 51,595	237.0 260.3	10,022 55,477	268.8	2,137,249	192.7	145.
8 Months 54	73,242	134.1							488
1994 8 Months 55 1993 8 Months 50	73,242 544,923	136.6 138.6	108,056 85,599	240.2 248.3	113,599 89,625	247.4 255.8	1,906,069 1,730,400	234.0 255.5	155.0 160.

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.

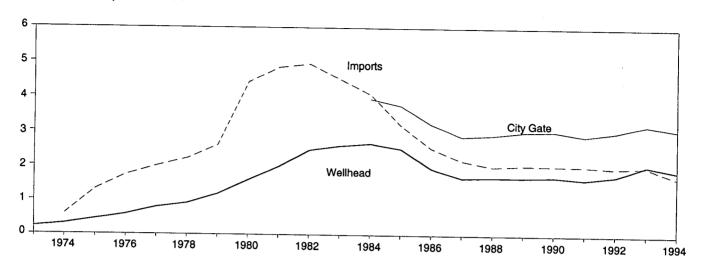
Notes: • See Note 8 at end of section. • Geographic coverage is the 50

States and the District of Columbia.

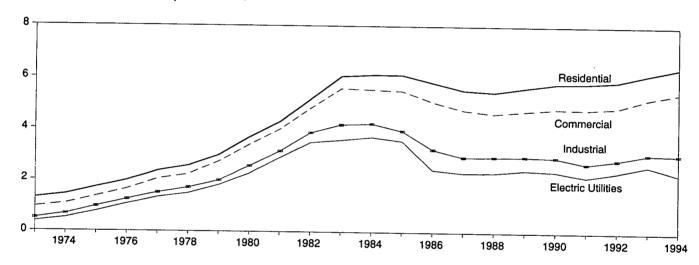
Figure 9.4 Natural Gas Prices

(Dollars per Thousand Cubic Feet)

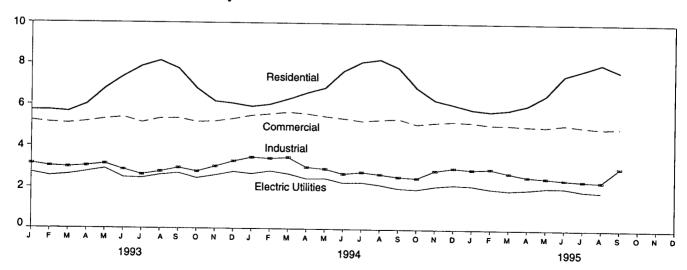
Selected Prices, 1973-1994



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

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

	1	†	Delivered to Consumers ^{a,b}									
	ļ			Com	mercial	Ind	ustrial					
	Wellhead	City Gate	Residential	Price	Share of Total Volume Delivered	Price	Share of Total Volume Delivered	Electric Utilities				
	0.22	NA	1.29	0.94	NA	0.50	NA	0.38				
973 Average	.30	NA NA	1.43	1.07	NA	.67	NA	.51				
74 Average	.44	NA	1.71	1.35	NA	.96	NA	.77				
75 Average	.58	NA	1.98	1.64	NA	1.24	NA	1.06				
76 Average	.79	NA NA	2.35	2.04	NA	1.50	NA	1.32				
77 Average	., 5 .91	NA NA	2.56	2.23	NA	1.70	NA	1.48				
78 Average	1.18	NA	2.98	2.73	NA	1.99	NA	1.81				
79 Average	1.59	NA	3.68	3.39	NA	2.56	NA	2.27				
80 Average	1.98	NA NA	4.29	4.00	NA	3.14	NA	2.89				
81 Average	2.46	NA NA	5.17	4.82	NA	3.87	85.1	3.48				
82 Average	2.59	NA NA	6.06	5.59	NA	4.18	80.7	3.58				
83 Average	2.66	3.95	6.12	5.55	NA	4.22	74.7	3.70				
84 Average		3.75	6.12	5.50	NA	3.95	68.8	3.55				
985 Average	2.51	3.75	5.83	5.08	NA	3.23	59.8	2.43				
986 Average	1.94 1.67	3.22 2.87	5.54	4.77	93.1	2.94	47.4	2.32				
987 Average	1.67 1.69	2.92	5.47	4.63	90.8	2.95	42.6	2.33				
988 Average	1.69	2.92 3.01	5.64	4.74	89.1	2.96	36.9	2.43				
989 Average		3.03	5.80	4.83	86.6	2.93	35.2	2.38				
990 Average	1.71	2.90	5.82	4.81	85.1	2.69	32.7	2.18				
991 Average 992 Average	1.64 1.74	3.01	5.89	4.88	83.2	2.84	30.3	2.36				
	P a aa	0.11	5.73	5.23	86.6	3.15	^R 32.6	2.70				
993 January	R 2.03	3.11	5.73	5.14	86.3	3.02	R 32.9	2.54				
February	R 1.93	2.94	5.73 5.67	5.10	86.4	2.98	R 32.0	2.61				
March	^R 2.00 ^R 2.06	3.06	6.02	5.19	84.9	3.04	^R 30.7	2.75				
April	"2.06 B 2.10	3.24	6.78	5.31	82.2	3.14	^R 29.6	2.90				
May	R 2.18	3.58	7.37	5.40	79.0	2.86	^R 27.4	2.48				
June	R 1.98	3.44	⁷ .37 R 7.86	R 5.15	79.2	2.62	R 28.3	2.45				
July	R 1.99	3.34	7.80 8.13	5.34	78.0	2.76	^R 27.6	2.60				
August	2.04	3.35	7.75	5.35	78.3	2.95	R 27.0	2.69				
September	R 2.09	3.54	6.79	5.18	79.9	2.77	^R 28.1	2.45				
October	R 2.02	3.15	6.17	5.21	83.0	3.02	^R 29.8	2.59				
November	R 2.03	3.15	R 6.07	5.33	85.1	3.28	^R 29.5	2.76				
December	R 2.15	3.27	6.16	5.22	83.9	3.07	R 29.7	2.61				
Average	R 2.04	3.21			R 83.8	R 3.47	R 27.6	2.67				
1994 January	_ 2.00	R 3.04	R 5.93	5.50	R 83.9	R 3.42	R 29.7	2.80				
February	R 1.88	R 3.26	R 6.04	^R 5.58 ^R 5.67	R 83.0	R 3.47	R 28.3	2.6				
March	^R 1.86	3.33	6.30	R 5.60	^R 78.8	R 3.00	R 26.8	2.4				
April	R 1.94	3.15	R 6.60	R 5.47	R 74.1	R 2.92	R 25.5	2.40				
May	R 1.87	^R 3.17	6.84	R 5.37	P 70.0	R 2.69	R 23.3	2.2				
June	R 1.84	R 3.17	7.66 Be 10	R 5.25	R 68.8	R 2.77	R 24.0	2.2				
July	^R 1.80	3.12	^R 8.10 ^R 8.22	R 5.25	^R 71.8	R 2.67	R 23.6	2.10				
August		R 3.15		R 5.36	R 72.2	R 2.55	R 22.2	2.0				
September		2.92	^R 7.84 ^R 6.86	R 5.10	R 74.0	R 2.50	R 23.9	1.9				
October	R 1.81	R 2.80	R 6.27	R 5.10	R 77.9	R 2.86	R 24.1	2.1				
November		R 2.84	**6.27 **6.06	R 5.19	R 82.3	R 2.99	R 25.7	2.1				
December Average	2 4 00	2.86 R 3.07	6.41	R 5.44	R 79.3	3.05	R 25.5	2.2				
<u>-</u>	4.05	2.79	R 5.83	5.20	R 80.6	2.91	R 25.4	2.1				
1995 January		2.79	5.74	R 5.09	R 81.1	^R 2.95	R 24.8	1.9				
February		2.74	5.82	^R 5.08	R 80.4	R 2.75	^R 24.6	1.9				
March		2.74 2.70	6.04	R 5.03	R 76.4	R 2.58	^R 23.6	1.9				
April	4 00	2.70 2.75	R 6.53	R 5.00	R 70.3	2.52	^R 22.1	2.0				
May		2.75	R 7.48	5.11	^R 70.5	2.44	^R 22.9	2.0				
June		R 2.90	R 7.75	R 5.01	R 64.7	R 2.38	^R 21.0	_ 1.9				
July		2.89	R 8.05	R 4.93	R 62.2	R 2.34	^R 20.8	^R 1.8				
August		2.87	7.68	4.96	59.7	3.02	19.5	NA				
September 9-Month Average		2.78	6.19	6.13	75.1	5.09	22.7	NA				
1994 9-Month Average		3.16	6.45	6.45	79.4	5.52	25.5	2.3				
1004 G. MOHITH WARRAGE	2.03	3.21	6.14	6.14	84.2	5.21	29.5	2.6				

a Includes supplemental gaseous fuels.

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.

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

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 Pe-

troleum 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. However, sales to bulk consumers, such as utility, industrial, and commercial accounts previously included in the wholesale category are now counted as made to end users. The end-user category continues to include retail sales through company owned and operated outlets but also includes sales to the bulk consumers such as agriculture, industry, and electric utilities. Additional information may be found in "Estimated Historic Time Series for the EIA-782," a feature article reprinted from the December 1983 [3] Petroleum Marketing Monthly, published by EIA.

- 7. 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-orgreater 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, December 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, December 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, December 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, "Flectric Utility Company Monthly Statement"

"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, December 1995, Table 60.

Annual Series

1973-1993: EIA, Electric Power Monthly, December 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.

1994 forward: EIA, Electric Power Monthly, December 1995. Table 34.

Sources for Table 9.11

1973-1988

Wellhead: Energy Information Administration (EIA), Natural Gas Annual 1994, Table 99.

City Gate, 1987-1988: EIA, Natural Gas Monthly, December 1994, Table 4.

Delivered to Consumers, 1973-1988: EIA, Natural Gas Annual 1994, Table 102.

1989 forward

EIA, Natural Gas Monthly, December 1995, Table 4.

Section 10. International Energy

Crude Oil Production. World crude oil production during September 1995 was 63 million barrels per day, up 0.3 million barrels per day from the level in the previous month. World crude oil production in the first 3 quarters of 1995 averaged 62 million barrels per day, up 2 percent compared with production in the first 3 quarters of 1994.

Organization of Petroleum Exporting Countries (OPEC) production during September 1995 averaged 27 million barrels per day, down 0.2 million barrels per day from the level during the previous month. OPEC production during the first 3 quarters of 1995 averaged 26 million barrels per day, a 2-percent increase from the level of the first 3 quarters of 1994. Production by the Arab members of OPEC in September 1995 averaged 16 million barrels per day, down 0.2 million barrels per day from the August 1995 level. Production by the Arab members of OPEC during the first 3 quarters of 1995 averaged 16 million barrels per day, 2 percent above the level in the first 3 quarters of 1994. During September 1995, production decreased in Saudi Arabia by 110 thousand barrels per day and in Kuwait by 40 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 September 1995 increased in Nigeria by 5 thousand barrels per day and decreased in Iran by 50 thousand barrels per day. Production remained the same in Indonesia and Venezuela.

Among the non-OPEC nations, production during September 1995 increased in the United Kingdom by 250 thousand barrels per day, in the former U.S.S.R. by 60 thousand barrels per day, in both China and Mexico by 30 thousand barrels per day, and in Canada by 25 thousand barrels per day. Production decreased in the United States by 82 thousand barrels per day. Production remained the same in Ecuador.

Petroleum Consumption. In July 1995, consumption in all Organization for Economic Cooperation and Development (OECD) countries was 38.5 million barrels per day, 1 percent lower than the July 1994 rate. The consumption rate was higher than it was 1 year ago in Italy (+11 percent), France (+9 percent), and Germany (slightly higher). The consumption rate was lower in Japan (-8 percent), Canada (-3 percent), the United States (-2 percent), and the United Kingdom (-1 percent), compared with the level 1 year earlier.

Petroleum Stocks. For all OECD countries, petroleum stocks at the end of July 1995 totaled 3.7 billion barrels, 1 percent higher than the ending stock level in July 1994. Stock levels were higher in Italy (+9 percent), Japan (+7 percent), Canada (+5 percent), and France (+1 percent). Stocks were lower in the United Kingdom (-5 percent), Germany (-3 percent), and the United States (-2 percent), compared with levels 1 year earlier.

Nuclear Electricity Generation. Based on Nucleonics Week information for September 1995, all reporting countries with nuclear capacity generated 180.8 gross terawatthours of nuclear-generated electricity.

During the first 8 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. One unit was permanently shutdown: Wuergassen, in Germany during July.

As of September 30, 1995, there were 434 operable nuclear generating units in the world.

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

Table 10.1a World Crude Oil Production: Algeria Through Venezuela

(Thousand Barrels per Day)

			·		,		, 		,			
]					United		,			
•	Algeria	Iraq	Kuwaita	Libya	Qatar	Saudi Arabia ^a	Arab Emirates	Arab OPEC ^b	Indonesia	Iran	Nigeria	Vonozuolo
	Aigona		- Rawak	Libya	- Quitar	Alabia	Limates	OFEC-	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 1,048	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 2,685	1,585	972	293	4,265	1,541	11,783	1,343	2,298	1,341	1,752
1988 Average 1989 Average	1,040	2,897	1,492 1,783	1,175 1,150	346 380	5,086	1,565	13,389	1,342	2,240	1,450	1,903
1990 Average	1,175	2,040	1,765	1,130	406	5,064 6,410	1,860 2,117	14,229	1,409	2,810	1,716	1,907
1991 Average	1,230	305	190	1,483	395	8,115	2,117	14,698 14,104	1,462 1,592	3,088	1,810	2,137
1992 Average	1,214	425	1,058	1,433	423	8,332	2,266	15,151	1,592	3,312 3,429	1,892	2,375
	.,	,	.,	1,.00		0,002	2,200	10,101	1,504	3,425	1,943	2,371
1993 January	1,210	500		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		500	1,775	1,350	406	8,150	2,180	15,561	1,531	3,650	1,995	2,412
July August	1,180 1,180	500 500	1,940 2,045	1,350 1,370	416	8,240	2,161	15,786	1,531	3,800	1,975	2,464
September	1,180	530	2,045	1,370	416 416	8,345	2,161	16,016	1,531	3,500	2,025	2,464
October	1,180	530	2,020	1,370	416	8,270 8,145	2,170 2,170	15,956	1,531	3,650	2,045	2,453
November	1,170	540	2,045	1,370	416	7,995	2,170	15,876 15,706	1,501 1,501	3,700 3,550	2,005	2,474
December	1,170	540	2,050	1,370	416	8.000	2,170	15,716	1,531	3,700	2,025 2,175	2,474 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	0.605	0.000	0.400
February	1,170	545	1,998	1,370	430	8,088	2,230	15,875	1,510 1,510	3,635 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	2,200 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	2,490 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
May	1,180	555	2,050	1,390	485	8,400	2,280	16,340	1,510	3,835	2,080	2,790
June	1,180	555	2,050	1,390	485	8,100	2,280	16,040	1,510	3,585	1,960	2,790
July	. 1,210	555	2,060	1,390	485	8,410	2,280	16,390	1,510	3,535	1,980	2,790
August	1,210	555	2,075	1,390	485	8,425	2,280	16,420	1,510	3,685	2,035	2,790
September	1,210	555	2,035	1,390	485	8,315	2,280	16,270	1,510	3,635	2,040	2,790
9-Mo. Avg	1,190	. 555.	2,060	1,390	481	8,259	2,280	16,214	1,510	3,629	2,002	2,714
1994 9-Mo. Avg	1,170	552	2,030	1,373	447	8,108	2,267	15,947	1,512	3,624	2,047	2,506
1993 9-Mo. Avg	1,195	503	1,814	1,377	420	8,249	2,198	15,756	1,533	3,649	2,047	2,442
						-,	_,	,	.,	-,	-,040	-,

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 September 1995, Neutral Zone production by both Kuwait and Saudi Arabia totaled about 430 thousand barrels per day.

b The Arab members of the Organization of Petroleum Exporting Countries

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.

⁽OPEC) are Algeria, Iraq, Kuwait, Libya, Qatar, Saudi Arabia, and the United

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	Ecuadora	Perslan Gulf Nations ^b	Canada	China	Mexico	United Kingdom	United States	Former U.S.S.R.	Other ^c	Worl
		l				\ <u></u>			,		
73 Average	30,779	209	20,668	1,798	1,090	465	2	9,208	8,324	3,804	55,67
74 Average	30,552	177	21,282	1,551	1,315	571	2	8,774	8,912	3,862	55,71
75 Average	26,994	161	18,934	1,430	1,490	705	12	8,375	9,523	4,139	52,82
• • •		188	21,514	1,314	1,670	831	245	8,132	10,060	4,355	57,34
76 Average	30,549			1,321	1,874	981	768	8,245	10,603	4,616	59,70
77 Average	31,115	183	21,725			1,209	1,082	8,707	11,105	4,782	60,15
78 Average	29,673	202	20,606	1,316	2,082		•		11,384	5,089	62,67
79 Average	30,784	214	21,066	1,500	2,122	1,461	1,568	8,552			59,59
80 Average	26,781	204	17,961	1,435	2,114	1,936	1,622	8,597	11,706	5,204	
81 Average	22,632	211	15,245	1,285	2,012	2,313	1,811	8,572	11,850	5,390	56,07
82 Average	18,934	211	12,156	1,271	2,045	2,748	2,065	8,649	11,912	5,646	53,48
83 Average	17.654	237	11,081	1,356	2,120	2,689	2,291	8,688	11,972	6,248	53,25
84 Average	17,599	258	10,784	1,438	2,296	2,780	2,480	8,879	11,861	6,897	54,48
	16,353	281	9,630	1,471	2,505	2,745	2,530	8,971	11,585	7,540	53,98
85 Average	•	293	11,696	1,474	2,620	2,435	2,539	8,680	11,895	7,850	56,22
86 Average	18,441					2,548	2,406	8,349	12,050	8,242	56,66
87 Average	18,672	174	12,103	1,535	2,690		•	8,140	12,053	8,669	58,73
88 Average	20,483	302	13,457	1,616	2,730	2,512	2,232			9,338	59,86
89 Average	22,279	279	14,837	1,560	2,757	2,520	1,802	7,613	11,715		
90 Average	23,465	285	15,278	1,553	2,774	2,553	1,820	7,355	10,975	9,785	60,56
91 Average	23,569	299	14,741	1,548	2,835	2,680	1,797	7,417	9,992	10,074	60,21
92 Average	24,695	318	16,104	1,598	2,838	2,668	1,825	7,171	8,931	10,169	60,2
93 January	26,213	330	17,066	1,572	2,885	2,605	1,821	6,961	8,249	10,478	61,1
February	26,317	330	17,285	1,612	2,875	2,610	1,931	6,943	8,233	10,618	61,40
March	25,650	330	16,816	1,637	2,885	2,635	1,715	6,974	8,127	10,782	60,73
	25,075	330	16,311	1,607	2,900	2,674	1,701	6,881	8,106	10,750	60,0
April		345	16,509	1,662	2,925	2,673	1,751	6,847	7,926	10,781	60,2
May	25,304			,	2,960	2,675	1,680	6,795	7,826	10,460	59,9
June	25,466	350	16,702	1,727			1,936	6,688	7,530	10,874	60,5
July	25,863	350	17,097	1,712	2,930	2,650				10,748	60,3
August	25,843	350	17,007	1,772	2,855	2,650	1,946	6,758	7,429	•	
September	25,942	350	17,097	1,742	2,895	2,700	1,951	6,712	7,313	10,764	60,3
October	25,863	360	17,047	1,727	2,975	2,700	2,067	6,839	7,308	10,987	60,8
November	25,563	360	16,757	1,677	2,945	2,730	2,202	6,912	7,313	11,179	60,8
December	25,903	360	16,917	1,712	2,898	2,745	2,277	6,858	7,281	11,237	61,2
Average	25,748	346	16,883	1,680	2,911	2,671	1,915	6,847	7,717	10,806	60,6
204 January	25,995	360	17,000	1,669	2,900	2,745	2,280	6,817	6,985	11,114	60,86
994 January		360	16,955	1,722	2,920	2,710	2,280	6,770	6,715	11,270	60,6
February	25,950			1,706	2,920	2,685	2,315	6,746	6,660	11,190	60,6
March	26,025	360	17,060			2,700	2,340	6,612	6,485	11,200	60,1
. April	25,845	365	16,950	1,671	2,940						60,5
May	25,975	365	17,020	1,706	2,940	2,690	2,345	6,688	6,635	11,250	
June	26,095	375	17,150	1,729	2,950	2,675	2,340	6,611	6,650	11,488	60,9
July	25,955	385	17,080	1,801	2,940	2,675	2,275	6,501	6,540	11,445	60,5
August		385	17,110	1,790	2,950	2,675	2,315	6,544	6,520	11,535	60,3
September		400	17,230	1,817	2,910	2,680	2,475	6,609	6,480	11,515	61,0
		395	17,140	1,735	2,950	2,685	2,435	6,658	6,560	11,950	61,5
October		395	17,140	1,778	2,970	2,675	2,485	6,628	6,580	11,960	61,6
November	'			1,778	2,980	2,675	2,605	6,760	6,520	12,094	62,0
Average		395 378	17,310 17,110	1,743	2,939	2,689	2,375	6,662	6,611	11,503	60,9
		400	•	1 702	2,950	2,680	2,520	E 6,596	6,445	12,088	61,5
995 January		400	17,100	1,792				E 6,703	6,655	12,013	62,0
February		400	17,320	1,774	3,000	2,645	2,610	E 0,703			61,4
March	25,880	400	17,010	1,739	3,000	2,670	2,565	E 6,606	6,445	12,124	
April	26,380	400	17,280	1,811	3,000	2,670	2,570	E 6,561	6,550	R 12,230	R 62,1
May		400	17,640	_ 1,754	2,980	2,680	2,305	E 6,572	6,655	R 11,919	R 62,1
June		390	17,090	^R 1,847	2,980	2,700	1,855	^E 6,540	_ 6,650	R 12,135	R 61,3
July		R 385	17,360	^R 1,843	2,980	2,705	2,350	^E 6,449	^R 6,560	^R 12,510	^H 62,3
		R 400	17,540	R 1,805	3,000	2,710	2,405	E 6,462	R 6,610	12,315	R 62,4
August			17,340	1,830	3,030	2,740	2,655	E 6,380	6,670	12,534	62,8
September 9-Mo. Avg		400 3 97	17,340	1,799	2,991	2,689	2,425	E 6,540	6,581	12,209	62,0
•					2,930	2,693	2,329	6,654	6,630	11,334	60,6
994 9-Mo. Avg		373	17,062	1,734			2,323 1 025			10,696	60,5
993 9-Mo. Avg	25,738	341	16,874	1,672	2,901	2,653	1,825	6,839	7,857	10,000	00,5

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

^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.

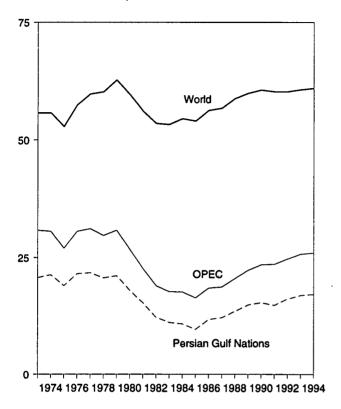
Notes: • Crude oil includes lease condensate but excludes natural gas plant liquids. • Monthly data are often preliminary figures and may not average to the annual totals because of rounding or because updates to the preliminary monthly data are not available. • Data for countries may not sum to World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

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."

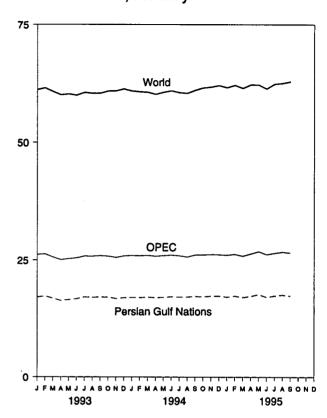
Figure 10.1 Crude Oil Production

(Million Barrels per Day)

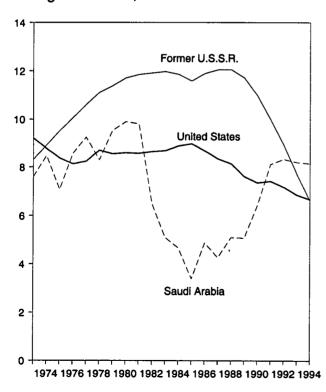
World Production, 1973-1994



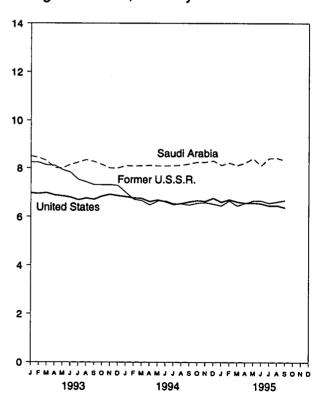
World Production, Monthly



Leading Producers, 1973-1994



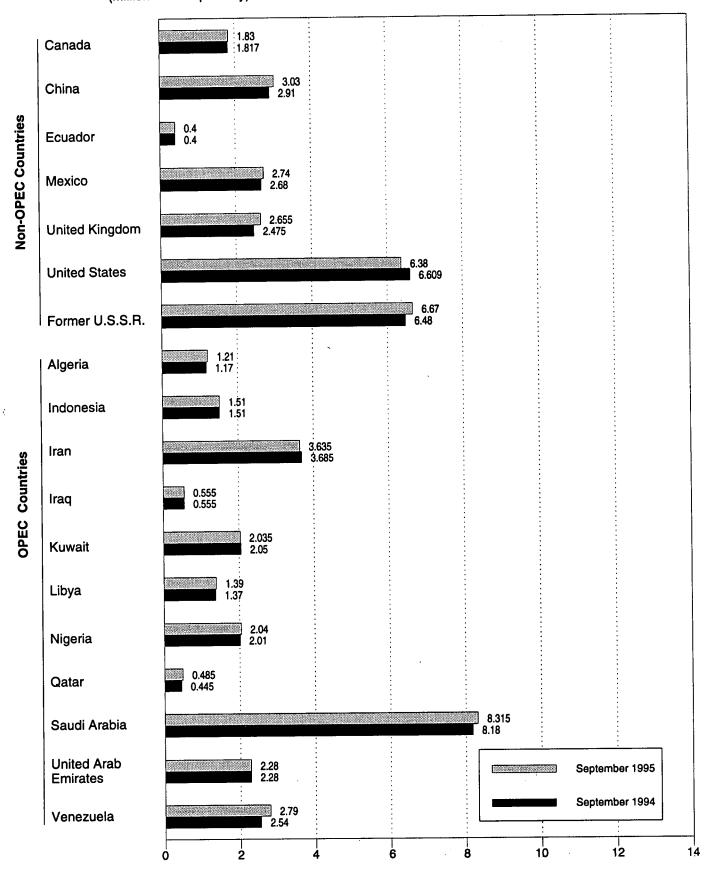
Leading Producers, Monthly



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

Figure 10.2 Crude Oil Production by Selected Country

(Million Barrels per Day)

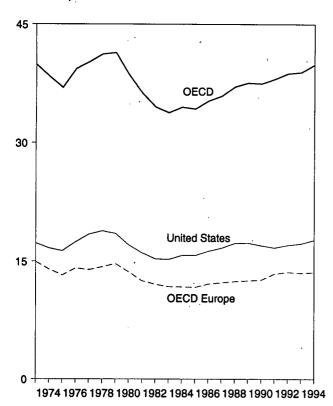


Note: OPEC is the Organization of Petroleum Exporting Countries. Sources: Tables 10.1a and 10.1b.

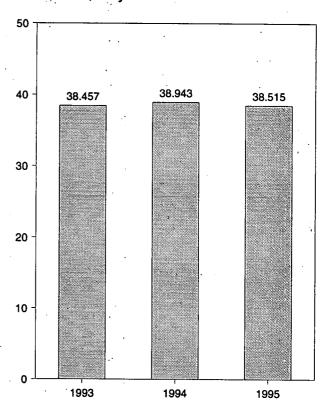
Figure 10.3 Petroleum Consumption in OECD Countries

(Million Barrels per Day)

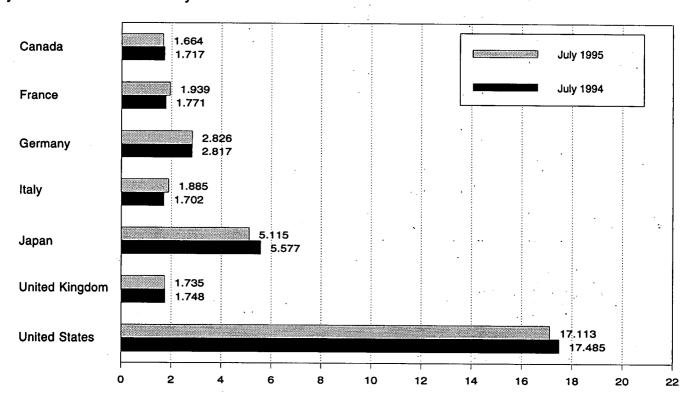
Overview, 1973-1994



OECD Total, July



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	Germanya	Italy	Japan	United Kingdom	United States	OECD Europe ^b	Other OECD ^c	OEC
					1	<u> </u>			1	
73 Average	1,729	2,601	3,055	2,068	4,949	2,341	17,308	14,925	988	39,90
	1,779	2,447	2,748	2,004	4,864	2,210	16,653	13,988	1,095	38,37
74 Average		2,252	2,650	1,855	4,621	1,911	16,322	13,217	1,041	36,98
75 Average	1,779			•	4,837	1,892	17,461	14,124	1,119	39,35
6 Average	1,818	2,420	2,877	1,971				13,916	1,160	40,23
7 Average	1,850	2,294	2,865	1,897	4,880	1,905	18,431			
'8 Average	1,902	2,408	2,927	1,952	4,945	1,938	18,847	14,290	1,204	41,18
'9 Average	1,971	2,463	3,003	2,03 9	5,050	1,971	18,513	14,667	1,178	41,37
0 Average	1,873	2,256	2,707	1,934	4,960	1,725	17,056	13,634	1,072	38,59
1 Average	1,768	2,023	2,449	1,874	4,848	1,590	16,058	12,515	1,080	36,26
	1,578	1,880	2,372	1,781	4,582	1,590	15,296	12,053	1,008	34,51
2 Average	•			1,750	4,395	1,531	15,231	11,765	954	33,79
3 Average	1,448	1,835	2,324					11,736	989	34,50
4 Average	1,472	1,754	2,322	1,646	4,576	1,849	15,726			
5 Average	1,504	1,775	2,338	1,717	4,384	1,634	15,726	11,681	976	34,27
6 Average	1,506	1,772	2,498	1,738	4,439	1,649	16,281	12,102	951	35,27
7 Average	1,548	1,789	2,424	1,855	4,484	1,603	16,665	12,255	959	35,91
8 Average	1,693	1,797	2,422	1,836	4,752	1,697	17,283	12,427	939	37,09
		1,857	2,280	1,930	4,983	1,738	17,325	12,531	998	37,57
9 Average	1,733					1,752	16,988	12,629	1,027	37,47
0 Average	1,690	1,818	2,382	1,872	5,140				•	38,06
1 Average	1,622	1,935	2,828	1,863	5,284	1,801	16,714	13,391	1,056	
2 Average	1,643	1,926	2,843	1,937	5,446	1,803	17,033	13,605	1,041	38,70
3 January	1,592	1,922	2,530	1,835	5,956	1,729	16,173	12,718	958	37,39
February	1,704	2,103	2,895	1,941	6,306	1,878	17,334	13,904	1,121	40,3
March	1,698	1,981	2,929	1,915	6,252	1,888	17,575	13,915	1,156	40,59
	1,596	1,901	2,817	1,681	5,459	1,730	16,781	13,019	1,123	37,97
April				*	4,770	1,676	16,508	11,999	1,147	36,02
May	1,601	1,668	2,587	1,662					•	38,40
June	1,706		3,043	1,709	4,963	1,809	17,096	13,526	1,110	
July	1,681	1,824	2,965	1,773	4,864	1,806	17,357	13,502	1,053	38,4
August	1,730	1,626	2,893	1,691	4,796	1,792	17,332	12,945	1,120	37,92
September	1,715	1,761	3,163	1,894	4,775	1,845	17,650	13,923	1,096	39,19
October	1,708	1,789	2,814	1,885	4,998	1,803	17,323	13,368	1,109	38,50
	1,759	2.045	3,057	2,066	5,502	1,983	17,780	14,535	1,125	40,7
November		1,983	3,123	2,181	6,234	1,846	17,953	14,619	1,290	41,8
December	1,770	1,875	2,900	1,852	5,401	1,815	17,237	13,492	1,117	38,9
Average	1,688	1,070	2,300	1,002	0,401	1,010	·	•	•	•
4 January	1,701	1,840	2,492	1,774	5,913	1,743	18,072	12,771	1,031	39,44 42,0
February	1,795	1,966	2,994	1,907	6,524	1,920	18,337	14,223	1,156	
March	1,701	1,825	3,062	1,891	6,269	1,954	17,313	13,910	1,209	40,4
April	1.590	1,850	2,900	1,816	5,294	1,809	17,489	13,475	1,157	39,0
May	1,658	1,675	2,746	1,674	4,853	1,770	17,181	12,665	1,186	37,5
•	1,690	1,811	3,000	1,683	5,132	1,880	17,815	13,621	1,228	39,4
June		1,771	2,817	1,702	5,577	1,748	17,485	12,980	1,183	38,9
July	1,717			•	5,595	1,747	18,117	13,294	1,137	39,9
August	1,786	1,736	2,905	1,699	•					40,0
September	1,790	1,920	3,041	1,945	5,334	1,862	17,490	14,199	1,187	
October	1,731	1,844	2,884	1,873	5,363	1,853	17,719	13,648	1,084	39,5
November	1,749	1,811	2,914	2,070	5,860	1,954	17,315	14,162	1,268	40,3
December	1,819	1,961	2,820	2,070	6,421	1,818	18,319	14,161	1,250	41,9
Average	1,727	1,833	2,879	1,841	5,674	1,837	17,718	13,584	1,173	39,8
as lenuery	1,671	1,949	2,730	R 1,944	6,075	R 1,754	17,167	R 13,538	R 1,123	R 39,5
95 January	1,857	1,895	2,802	R 2,128	6,787	R 1,953	18,355	R 13,898	R 1,175	R 42,0
February				R 1,993			17,403	R 14,555	R 1,241	R 41,2
March	1,704	2,002	3,188	1,993 B4 007	6,378	1,972		R 10 460	R 1,152	R 38,8
April	^R 1,560	1,843	2,854	R 1,837	^R 5,576	^R 1,788	17,102	R 13,469	1,152 B4	38,8
May	^R 1,715	1,764	2,940	R 1,829	^R 5,030	^R 1,778	17,241	R 13,408	R 1,237	R 38,6
June	^R 1,757	1,850	2,874	^R 1,884	^R 5,004	1,784	18,149	^H 13,678	^R 1,264	^R 39,8
July	1,664	1,939	2,826	1,885	5,115	1,735	17,113	13,447	1,176	38,5
7-Mo. Average	1,702	1,892	2,889	1,927	5,698	1,822	17,491	13,712	1,196	39,7
_	1 602	1 212	2,856	1,777	5,643	1,831	17,661	13,364	1,164	39,5
94 7-Mo. Average	1,692	1,818								38,4
93 7-Mo. Average	1,653	1,901	2,822	1,787	5,502	1,787	16,970	13,216	1,095	30,4

^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

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.

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.

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.

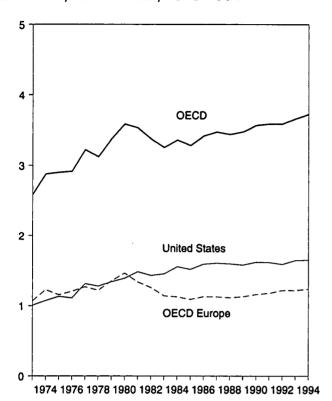
d The Organization for Economic Cooperation and Development (OECD)

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:

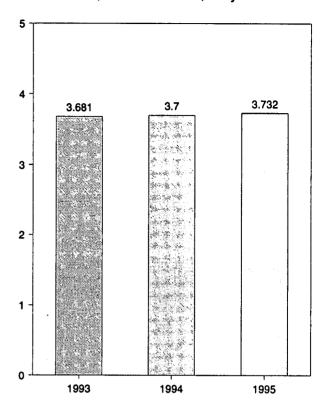
Figure 10.4 Petroleum Stocks in OECD Countries

(Billion Barrels)

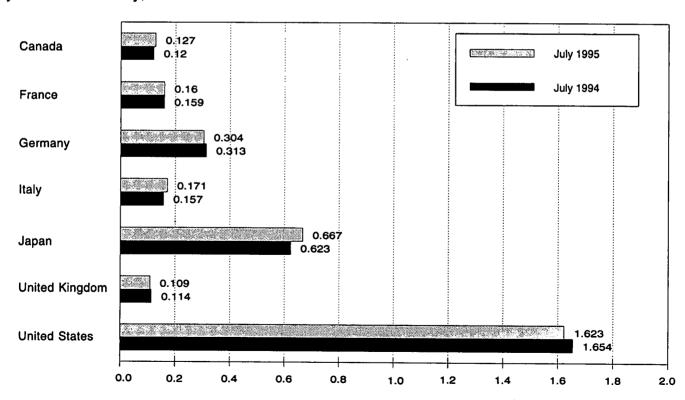
Overview, End of Year, 1973-1994



OECD Stocks, End of Month, July



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
						· · · · · · · · · · · · · · · · · · ·				
973 Year	140	201	181	152	303	156	1,008	1,070	67	2,588
974 Year	145	249	213	167	370	191	1,074	1,227	64	2,880
975 Year	174	225	187	143	375	165	1,133	1,154	67	2,903
976 Year	153	234	208	143	380	165	1,112	1,205	68	2,918
977 Year	167	239	225	161	409	148	1,312	1,268	68	3,224
978 Year	144	201	238	154	413	157	1,278	1,219	68	3,122
979 Year	150	226	272	163	460	169	1,341	1,353	75	3,379
	164	243	319	170	495	168	1,392	1,464	72	3,587
980 Year	161	214	297	167	482	143	1,484	1,337	67	3,531
981 Year					484	125	•	1,258	68	3,376
982 Year	136	193	272	179			1,430		68	3,255
983 Year	121	153	249	149	470	118	1,454	1,142		•
984 Year	128	152	239	159	479	112	1,556	1,130	69	3,362
985 Year	113	139	233	157	494	123	1,519	1,092	66	3,284
986 Year	111	127	252	155	509	124	1,593	1,133	72	3,418
987 Year	126	127	259	169	540	121	1,607	1,130	71	3,474
988 Year	116	140	266	155	538	112	1,597	1,118	71	3,440
989 Year	114	138	271	164	577	118	1,581	1,133	71	3,476
990 Year	121	140	265	172	590	112	1,621	1,163	73	3,568
991 Year	119	153	288	160	606	119	1,617	1,181	65	3,588
992 Year	107	146	310	174	603	113	1,592	1,219	67	3,588
993 January	107	162	318	171	614	119	1,618	1,243	68	3,651
February	102	156	316	166	606	119	1,602	1,229	68	3,607
March	103	154	310	163	593	119	1,590	1,213	66	3,565
	105	154	310	165	584	115	1,617	1,208	73	3.586
April		161	319	170	592	116	1,650	1,220	68	3,635
May	106					118	1,667	1,201	69	3,645
June	107	156	309	166	601			1,200	70	3,681
July	113	155	311	167	616	114	1,682			
August	114	167	314	169	633	116	1,676	1,240	69	3,733
September	111	164	311	161	647	115	1,665	1,229	77	3,730
October	110	166	316	160	652	110	1,688	1,225	78	3,752
November	111	156	309	164	643	115	1,686	1,212	78	3,730
December	105	158	309	163	618	118	1,647	1,221	69	3,661
994 January	104	165	322	166	616	118	1,622	1,248	70	3,660
February	97	159	315	157	610	111	1,586	1,206	68	3,567
March	103	152	306	154	602	109	1,584	1,181	72	3,542
April	108	151	309	158	611	108	1,591	1,185	73	3,567
May	109	155	314	160	627	116	1,612	1,213	71	3,632
June	112	161	308	158	630	112	1,624	1,216	70	3,652
July	120	159	313	157	623	114	1,654	1,227	75	3,700
August	115	164	310	162	632	116	1,659	1,243	74	3,724
	118	159	305	160	646	114	1,684	1,227	73	3,747
September							•	1,229	74	3,749
October	119	163	307	160	655	111	1,673	1,229	72	3,743
November	118	168	309	162	656	112	1,687	.,		
December	119	158	312	164	645	115	1,653	1,240	69	3,726
995 January	121	160	314	167	650	113	1,641	1,242	69	3,723
February	121	164	317	163	631	114	1,603	1,246	64	3,66
March	124	152	305	159	636	105	1,599	1,194	68	3,62
April	119	156	306	159	642	107	1,600	^R 1,197	_ 71	_ 3,62
May	116	153	304	161	652	112	1,611	^R 1,206	^R 72	R 3,65
June	115	166	301	168	657	102	1,609	1,209	71	3,66
July	127	160	304	171	667	109	1,623	1,241	74	3,73

^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.

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

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

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

Kingdom.

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

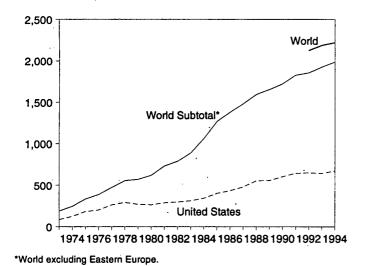
Territories.

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

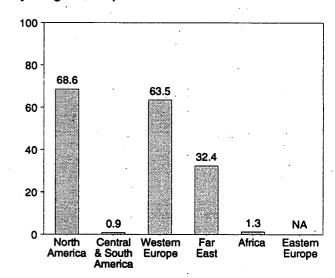
Figure 10.5 Nuclear Electricity Gross Generation

(Billion Kilowatthours)

U.S. and World, 1973-1994

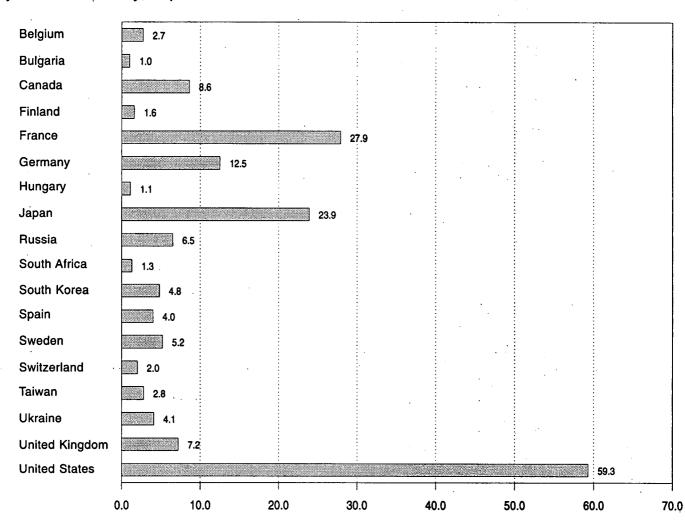


By Region, September 1995



NA = Not available.

By Selected Country, September 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)

1	North America	South America	Western Europe	Far East	Africa	Subtotal	Eastern Europe ^a	World
072 Total	103.1	_	73.9	12.3	_	189.3	NA	NA
973 Total		1.0	83.9	21.4	_	246.0	NA NA	NA NA
974 Total	139.7				_		NA NA	NA NA
75 Total	195.5	2.5	111.7	24.4		334.1		
76 Total	219.8	2.6	126.2	40.3	-	388.9	NA	NA
77 Total	290.8	1.6	148.1	31.5	-	472.0	NA	NA
78 Total	325.4	2.9	166.9	60.6	-	555.9	NA	NA
79 Total	309.0	2.7	184.3	74.7	-	570.7	NA	NA
80 Total	305.8	2.3	214.2	97.4	-	619.8	NA	NA
81 Total	331.8	2.8	293.4	102.9	_	730.9	NA	NA
82 Total	341.2	1.9	321.8	123.6	-	788.5	NA	NA
83 Total	366.6	3.6	377.2	140.1	_	887.5	NA	NA
	397.6	6.6	485.4	167.7	4.2	1,061.5	NA	NA
184 Total							NA NA	
85 Total	465.6	9.1	582.8	202.0	5.9	1,265.4		NA
86 Total	508.8	5.8	631.5	223.6	9.3	1,378.9	NA	NA
87 Total	560.1	6.2	648.3	259.5	6.6	1,480.7	NA	NA
88 Total	639.7	5.5	. €688.1	248.5	11.1	1,592.8	NA	NA
89 Total	640.2	6.6	732.2	263.4	11.7	1,654.1	NA	NA
90 Total	681.3	9.4	738.6	284.3	8.9	1,722.5	NA	NA
91 Total	733.4	9.2	769.7	303.3	9.7	1,825.2	NA	NA
92 Total	735.2	8.8	783.9	315.2	9.9	1,852.9	E 271.5	E 2,124.
93 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
	60.0	.7 .7	60.1	E 25.9	.8	E 147.5	NA	NA
May		.7		E 26.0	.5 .5	E 151.0	NA NA	NA
June	63.0		60.7			F 100.4		
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	[€] 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.
94 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
	60.3	. . .7	60.2	E 28.2	1.3	E 150.7	NA	NA
May			59.9	E 28.0	1.1	E 153.3	NA NA	NA.
June	63.6	.7						
July	72.1	. <u>7</u>	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 366.7	10.3	E 1,988.0	E 232.4	E 2,220.
95 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	64.5	1.0	73.9	E 32.1	.7	E 172.1	NA	NA
April	59.8	.9	69.3	E 30.8	.7	E 161.4	NA	NA
May	64.2	.9	62.9	E 31.5	., .8	E 160.3	NA NA	NA
June	67.3	.9 .9	61.1	€ 30.2	 1.1	E 160.7	NA NA	NA NA
			E 60.6	E 36.5				
July	75.1	1.0	- 0U.0		1.1	E 174.3	NA	NA
August	E 75.6	.6	E 62.0	E 39.3	1.2	E 178.6	NA	NA
September	_ ^E 68.6	.9	E 63.5	E 32.4	1.3	E 166.7	NA	NA
9-Month Total	E 613.9	8.3	^E 604.5	E 293.3	8.6	^E 1,528.6	NA	NA
94 9-Month Total	584.4	6.1	590.6	E 264.5 E 251.4	8.3	E 1,453.9 E 1,427.4	NA	NA

^a See Table 10.4e for country-specific estimated annual generation and available monthly generation for Eastern Europe.

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.

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
				400.4			
973 Total	15.3	-	87.8	103.1	-	-	
974 Total	15.4	-	124.3	139.7	1.0	-	1.0
975 Total	13.2	-	182.3	195.5	2.5	-	2.5
1976 Total	18.0	-	201.8	219.8	2.6	-	2.6
1977 Total	26.6	-	264.2	290.8	1.6	-	1.6
978 Total	33.0	-	292.4	325.4	2.9	-	2.9
979 Total	38.4	-	270.6	309.0	2.7	-	2.7
980 Total	40.4	-	265.4	305.8	2.3	-	2.3
981 Total	43.3	-	288.5	331.8	2.8		2.8
982 Total	42.6	-	298.6	341.2	1.9	0.1	1.9
983 Total	53.0	-	313.6	366.6	3.4	.2	3.6
984 Total	53.8	-	343.8	397.6	4.5	2.1	6.6
985 Total	62.9	-	402.7	465.6	5.8	3.4	9.1
986 Total	74.6	_	434.1	508.8	5.7	.1	5.8
987 Total	80.6	_	479.5	560.1	5.2	1.0	6.2
988 Total	85.6	_	554.1	639.7	5.1	.3	5.5
989 Total	83.2	_	557.0	640.2	5.0	1.6	6.6
990 Total	75.8	2.1	603.4	681.3	7.4	2.0	9.4
991 Total	86.1	4.2	643.0	733.4	7.7	1.4	9.2
992 Total	81.3	3.9	650.0	735.2	7.1	1.8	8.8
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	54.6	64.5	.7	.3	1.0
April	7.6	.6	51.7	59.8	.7	.3 .2 .2	.9
May	6.7	.5	57.1	64.2	.7	.2	.9
June	7.8	.5	59.0	67.3	.7	.2	.9
July	9.1	.9	65.1	75.1	.7	.2	1.0
August	E 9.5	.8	E 65.3	E 75.6	.6	.1	.6
September	E 8.6	.8	E 59.3	E 68.6	.7	.2	.9 .9
9-Month Total	E 76.0	5.3	E 532.6	E 613.9	6.3	2.0	8.3
1994 9-Month Total	83.8	2.9	497.7	584.4	6.1	.0	6.1
1993 9-Month Total	70.8	3.7	489.3	563.8	6.0	.4	6.4

 ⁼Not applicable. E=Estimate. (s)=Less than 0.05 billion kilowatthours.
 Notes: Not

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.

Table 10.4c Nuclear Electricity Gross Generation: Western Europe

(Billion Kilowatthours)

						1		i		United	Western
	Belgium	Finland	France	Germanya	italy ^b	Netherlands	Spain	Sweden	Switzerland	Kingdomc	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
	3.7	1.7	33.7	12.6	.0	.4	4.2	5.3	2.3	6.7	70.6
November	4.3	1.8	36.2	14.3	.0 .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	.;	4.1	6.7	2.1	6.6	67.5
March	3.6	1.8	30.5	12.7	.0		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
	2.4	1.6	25.5	11.8	.0	.4	4.1	4.3	1.4	8.5	59.9
June July	2.6	1.5	28.0	10.6	.0	.4	4.8	4.4	1.5	6.5	60.2
	3.3	1.4	28.1	11.5	.0	.4	5.3	4.5	1.2	7.0	62.6
August	3.2	1.4	28.7	12.3	.0	. 3	5.1	5.5	2.1	8.3	66.9
September	-		30.8		.0	.4	4.1	6.7	2.4	6.5	70.0
October	3.5	1.8	31.7	13.7 14.1	.0	.4	4.2	7.1	2.3	7.1	72.6
November	4.0	1.7	37.1	15.2	.0	.4	5.3	7.0	2.4	8.8	82.4
Total	4.3 40.6	1.8 19.1	359.1	151.1	. 0	4.0	55.1	72.8	24.2	89.5	815.5
1005 January	4.2	1.6	38.7	15.2	.0	.3	5.4	7.2	2.4	6.4	81.4
1995 January		-	36.7 31.7	13.1	.0		4.6	6.2	2.2	6.8	69.8
February	3.7	1.5			.0	(s) .1	4.6	6.6	2.4	8.0	73.9
March	3.6 4.0	1.8	34.4 30.6	12.4 12.2	.0	.1 .4	4.0	6.5	2.4	7.5	69.3
April		1.7	30.6			.4 .4		5.6	2.0 2.1	6.5	62.9
May	3.4	1.3	28.3	10.2	.0		5.0				
June		1.6	27.1	11.3	.0	.4	4.7	3.5	1.6	7.9 ^E 6.8	61.1 ^E 60.6
July	2.5	1.7	28.2	11.2	.0	.4	4.3	4.0	1.6	E 6.4	E 62.0
August		1.4	29.0	12.1	.0	.4	4.3	4.5	1.3	-6.4 E0	- 62.0 E co =
September	2.7	1.6	27.9	12.5	.0	.4	4.0	5.2	2.0	E 7.2	E 63.5
9-Month Total	29.7	14.3	275.8	110.4	.0	2.8	41.2	49.2	17.7	^E 63.4	^E 604.5
1994 9-Month Total 1993 9-Month Total	28.8 30.8	13.8 14.4	259.5 267.7	108.0 114.0	.0 .0	2.8 2.8	41.6 41.9	51.9 45.1	17.2 16.4	67.0 66.6	590.6 599.7

a Through December 1990, the data for Germany are for the former West Germany only. Beginning with January 1991, the data for Germany are for the unified Germany, i.e., the former East Germany and West Germany.

b In 1987, Italy's citizens voted for a nuclear power moratorium, which shut

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.

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. E=Estimate. (s)=Less than 0.05 billion kilowatthours.

Table 10.4d Nuclear Electricity Gross Generation: Far East and Africa (Billion Kilowatthours)

•]	Chinaa	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	
	_	2.8	28.2	.3 .3	0.1	0.1		-
1977 Total	-						31.5	-
1978 Total	- .	2.3	53.1	.2	2.3	2.7	60.6	-
1979 Total	-	3.2	62.0	(8)	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
	_	5.1	164.8	.5 .5	26.1			
1986 Total	_					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	<u>-</u>	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	<u>-</u> -	.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	E 25.9	.e 8.
•	NA NA	.5	17.9			2.6	E 26.0	.5 .5
June				(s)	5.1		- 26.0 For 0	
July	NA	.7	22.3	:1	5.5	3.4	E 31.8	1.0
August	NA	.5	24.2	(s)	4.9	3.6	E 33.3	.9
September	NA	.4	20.5	.1	4.6	2.9	E 28.5	.5
October	NA	.5	20.6	(s)	4.6	2.8	E 28.5	.4
November	NA	.5	20.9	.0	4.2	2.3	E 27.9	.4
December	NA	.6	21.5	(s)	5.1	2.8	E 30.0	.8
Total	E 2.6	6.2	243.5	.4	58.1	34.3	E 345.2	7.7
1994 January	NA	.4	20.5	.1	5.0	2.6	E 28.6	.9
February	NA	.3	17.8	(s)	4.1	2.8	E 25.0	.8
March	NA	.4	19.0	.1	4.6	2.9	E 27.0	.8
April	NA	.4	20.2	(s)	4.9	2.7	E 28.3	1.0
May	NA.	.5	19.8	.1	4.9	2.9	E 28.2	1.3
	NA NA	.5 .5	19.4			2.9	E 28.0	1.1
June				.1	5.0		E 33.6	
July	, NA	.4	24.3	(s)	5.5	3.3		1.1
August	NA	.5	26.9	(s)	5.3	3.5	E 36.2	.9
September	NA	.3	21.7	(s)	4.8	2.9	E 29.6	.4
October	NA	.3	20.5	.1	5.0	2.8	E 28.6	.5
November	NA	.5	20.6	(s)	4.7	2.7	E 28.5	.6
December	NA	.6	23.1		4.3	2.9	E 30.9	.8
Total	^E 14.2	5.0	253.8	.6	58.3	34.8	E 366.7	10.3
1995 January	NA	.7	23.1	(s)	4.8	2.5	E 31.2	1.0
February	NA	.5	21.5	(s)	4.9	2.3	E 29.3	.7
March	NA	.6	23.6	(s)	5.1	2.7	E 32.1	.7
April	NA	.6	22.6	(s)	4.9	2.7	E 30.8	.7
May	NA	.7	22.1	(s)	5.4	3.2	E 31.5	 .8
June	NA NA	. ,	20.6	.1	5.5	3.4	E 30.2	1.1
July	NA NA	Я	26.3	.;	6.1	3.3	E 36.5	1.1
		Εo					E 39.3	
August	NA T	_ E .8	29.0	.1	5.9	3.4		1.2
September 9-Month Total	NA NA	E 6.3	23.9 212.8	(s) .4	4.8 47.5	2.8 26.4	E 32.4 E 293.3	1.3 8.6
1994 9-Month Total	NA	3.7	189.5	.4	44.3	26.5	E 264.5	8.3
1993 9-Month Total	NA	4.6	175.7	.4	44.2	26.4	^E 251.4	6.1

^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 the Energy Information Administration annual report, *World Nuclear Outlook 1995*, October 1995, Table 1.

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.

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.

Table 10.4e Nuclear Electricity Gross Generation: Eastern Europe

(Billion Kilowatthours)

	Bulgaria	Czech Republic ^a	Hungary	Kazakhstan ^a	Lithuania ^a	Romaniab	Russia	Slovakiaa	Slovenia	Ukraine	Easterr Europe
1973 Total	-	_	_	NA		· _	NA .	NA	_	_	NA
1974 Total	NA	_	_	NA	-	_	NA	NA	_	-	NA.
975 Total	NA	-	_	NA	- '	_	NA	NA	_	-	NA.
976 Total	NA	_	-	NA	-	-	NA	NA	_	_	NA
977 Total	NA	_	_	NA	_	-	· NA	NA	-	-	NA
978 Total	NA	-	-	NA	·	-	NA	NA	-	NA	NA
979 Total	NA	· -	-	NA	-	-	NA	NA	-	NA	NA
980 Total	NA	-	_	NA	- `.	-	NA	NA	_	NA	NA
981 Total	NA	-	-	NA	-	-	· NA	NA	- .	NA	NA.
982 Total	NA	-	-	NA	· - ·	· –	NA	NA:	_	NA	·NA
1983 Total	NA	-	NA	NA	-	_	NA	NA	NA	NA	NA
1984 Total	NA	-	NA	NA	· ·	·. —	NA	NA	NA	, NA	NA
985 Total	NA	NA	NA	· NA	NA	-	· NA	NA	NA	NĄ	NA.
986 Total	NA	NA	NA	NA	· NA	· -	, NA	NA	NA	NA	NA
987 Total	NA	NA	NA	NA	NA	· -	, NA	NA	NA	NA	NA
988 Total	NA	NA	NA	NA	NA	-	NA	NA	NA	NA	NA
989 Total	NA	NA	NA	NA	NA .	- .	NA	NA	NA	NA	NA
990 Total	NA	NA	NA	NA	NA	-	NA	NA	NA	NA	NA
1991 Total	_ NA	_ NA	NA	ŅΑ	. NA	-	NA	_ NA	NA	NA	NA
992 Total	^E 12.2	E 12.9	^E 13.8	E .5	E 16.4	-	^E 125.6	E 11.7	E-4.0	E 74.6	E 271.5
993 January	E 1.5	NA	1.4	NA	NA	-	11.0	NA	.5	E 7.8	NA
February	E 1.5	NA	1.2	NA	NA	-	9.8	NA	.4	E 7.8	NA
March	E 1.5	NA	1.2	NA	NA	-	10.6	NA	.4	7.8	NA
April	E 1.5	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 ·	. <u>4</u>	6.0	NA
September	1.1	.9	1.0	NA 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
Total	1.6 14.0	.9 E 13.2	1.4 13.8	NA E.4	NA ^E 12.9	_	11.9 120.4	NA ^E 11.6	.3 4.0	6.3 E 72.7	NA E 263.0
994 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	NA NA	_	10.0	NA NA	.4	6.7	NA
March	1.6	1.3	1.2	NA.	NA	_	9.5	NA NA	.4	6.5	NA
April	1.1	1.3	1.0	NA NA	NA	_	8.0	NA NA	.5	5.8	NA
May	1.1	1.3	1.0	NA 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	14.9	E 12.7	14.0	E.4	E 7.0	_	97.7	E 12.7	4.6	68.4	E 232.4
995 January	2.2	NA	1.4	NA	NA '	- '	10.7	NA.	.5	8.5	NA
February	2.1	NA	1.1	NÁ	NA .	_ ·	8.9	NA ⁵	.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.	.3	6.5	NA
May	1.3	NA	1.1	NA	.8	-	7.2	NA.	.0	4.8	NA
June	.9	NA	1.0	NÁ	.7	_	6.6	NA'	.4	4.4	NA
July	1.0	NA	1.1	NA	.8	-	7.4	NA'	.5	4.0	NA
August	.8	NA	1.0	NA	1.0	-	7.2	NA	.4	4.8	NA
September	1.0	NA	1.1	NA	.9	-	6.5	NA	.4	4.1	NA
9-Month Total	12.8	NA	10.2	ŅA	NA ·	-	71.3	NA	3.4	51.9	, NA
994 9-Month Total 993 9-Month Total	10.1 10.9	NA NA	10.0 9.9	NÁ NA	NA NA	-	72.6 88.5	NA NA	3.2 2.8	48.9 55.8	·NA NA

^a The total gross generation estimate for 1993 and 1994 for Czech - 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 the Energy Information annual report, *World Nuclear Outlook 1995*, October 1995, Table 1.

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

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

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.

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.

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.

Other Countries: 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 1983-1992: EIA, International Energy Annual 1992, Table 1.

1993: EIA, International Energy Annual 1993, Table 2.2.

1994: Average of monthly data.

World: 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 He	eat Content
Asphalt	6.636	Petrochemical Feedstocks	
Aviation Gasoline		Naphtha Less Than 401° F	5.248
Butane		Other Oils Equal to or Greater Than 401° F	5.825
Butane-Propane Mixture ^a	4.130	Still Gas	6.000
Distillate Fuel Oil		Petroleum Coke	6.024
Ethane		Plant Condensate	5.418
Ethane-Propane Mixture ^b		Propane	3.836
Isobutane		Residual Fuel Oil	6.287
Jet Fuel, Kerosene Type	II	Road Oil	6.636
Jet Fuel, Naphtha Type		Special Naphthas	5.248
Kerosene	11	Still Gas	6.000
Lubricants	il	Unfinished Oils	5.825
Motor Gasolina	5 253	Unfractionated Stream	5.418

^a 60 percent butane and 40 percent propane.

Natural Gasoline and Isopentane.....

Pentanes Plus.....

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

4 620

4.620

5.537

5.796

^b 70 percent ethane and 30 percent propane.

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

(Million Btu per Barrel)

		Crude Oil		Crude Oil a	nd Products	Natural Gas
	Production	Imports	Exports	Imports	Exports	Plant Liquids Production
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
980	5.800	5.812	5.800	5.796	5.820	3.914
981	5.800	5.818	5.800	5.775	5.821	3.930
982	5.800	5.826	5.800	5.775	5.820	3.872
983	5.800	5.825	5.800	5.774	5.800	3.839
984	5.800	5.823	5.800	5.745	5.850	3.812
985	5.800	5.832	5.800	5.736	5.814	3.815
986	5.800	5.903	5.800	5.808	5.832	3.797
987	5.800	5.901	5.800	5.820	5.858	3.804
988	5.800	5.900	5.800	5.820	5.840	3.800
989	5.800	5.906	5.800	5.833	5.857	3.826
990	5.800	5.934	5.800	5.849	5.833	3.822
991	5.800	5.948	5.800	5.873	5.823	3.807
992	5.800	5.953	5.800	5.877	5.777	3.804
993	. 5.800	5.954	5.800	5.883	5.779	3.801
994 ^a	5.800	5.951	5.800	5.862	5.781	3.794
1995 ⁸	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	• • • •				l
	Residential and Commercial	Industrial	Transportation	Electric Utilitles	Total	Imports	Exports	LPG Consumption
973	5.387	5.568	5.395	6.245	5.515	5.983	5.752	3.746
974	5.377	. 5.538	5.394	6.238	5.504	5.959	5.773	3.730
975	5.358	5.528	5.392	6.250	5.494	5.935	5.747	3.715
976	5.383	5.538	5.395	6.251	5.504	5.980	5.743	3.711
977	5.389	5.555	5.400	6.249	5.518	5.908	5.796	3.677
978	.5.382	5.553	5.404	6.251	5.519	5.955	5.814	3.669
79	5.471	5.418	5.428	6.258	5.494	5.811	5.864	3.680
980	5.468	5.376	5.440	6.254	5.479	5.748	5.841	3.674
981	5.409	5.313	5.432	6.258	5.448	5.659	5.837	3.643
982	5.392	5.263	5.422	6.258	5.415	5.664	5.829	3.615
983	5.286	5.273	5.415	6.255	5.406	5.677	5.800	3.614
984	5.384	5.223	5.422	6.251	5.395	5.613	5.867	3.599
985	. 5.326	5.221	5.423	6.247	5.387	5.572	5.819	3.603
986	5.357	5.286	5.427	6.257	5.418	5.624	5.839	3.640
987	5.316	5.253	5.430	6.249	5.403	5.599	5.860	3.659
988	5.320	5.248	5,434	6.250	5.410	5.618	5.842	3.652
989	5.257	5.233	5,440	6.241	5.410	5.641	5.869	3.683
990	5.208	5.272	5.445	6.247	5.411	5.614	5.838	3.625
91	5.163	5.192	5.442	6.248	5.384	5.636	5.827	3.614
992	5.169	5.188	5.445	6.243	5.378	5.623	5.774	3.624
993	5.148	5.200	5.438	6.241	5.379	5.620	5.777	3.606
994 ^a	5.122	5.181	5.441	6.231	5.371	5.538	5.779	3.635
995ª	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)

	Prod	uction		Consumption		j	
	Dry	Marketed (Wet)	Sectors Other Than Electric Utilities	Electric Utilities	Total	Imports	Exports
1070	1,021	1,093	1,020	1,024	1,021	1.026	1,023
1973		1,097	1,020	1,022	1,024	1,027	1,016
1974	1,024	1,095	1,020	1,026	1.021	1,026	1,014
1975	1,021 1.020	1,093	1,019	1,023	1,020	1,025	1,013
1976	1,020	1,093	1,019	1,029	1,021	1,026	1,013
1977	1,019	1,088	1,016	1,034	1,019	1,030	1,013
1978		1,092	1,018	1,035	1,021	1,037	1,013
979	1,021	1,098	1,024	1,035	1,026	1,022	1,013
980	1,026		1,025	1,035	1,020	1,014	1,011
981	1,027	1,103			1,028	1,014	1,011
982	1,028	1,107	1,026	1,036		1,018	1,010
983	1,031	1,115	1,031	1,030	1,031	1,024	1,010
984	1,031	1,109	1,030	1,035	1,031		
985	1,032	1,112	1,031	1,038	1,032	1,002	1,011
986	1,030	1,110	1,029	1,034	1,030	997	1,008
987	1,031	1,112	1,031	1,032	1,031	999	1,011
988	1,029	1,109	1,029	1,028	1,029	1,002	1,018
989	1,031	1,107	1,031	1,030	1,031	1,004	1,019
990	1,031	1,105	1,030	1,034	1,031	1,012	1,018
991	1,030	1,108	1,031	1,024	1,030	1,014	1,022
992	1,030	1,110	1,031	1,022	1,030	1,011	1,018
993	_ 1,027	1,106	1,028	1,022	1,027	1,020	1,016
994 ⁸	^R 1,028	^R 1,105	R 1,029	1,022	^R 1,028	^R 1,022	^R 1,011
995ª	^R 1,028	^R 1,105	^R 1,029	1,022	^R 1,028	R 1,022	^R 1,011

a Preliminary. R=Revised data.

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

Table A5. Approximate Heat Content of Coal

(Million Btu per Short Ton)

				Consumption			j	
	Production	Residential and Commercial	Coke Plants	Other Industrial ^a	Electric Utilitles ^b	Total	Imports	Exports
973	23.376	22.831	26.780	22.586	22.246	23,057	25.000	26.596
974	23.072	22,479	26,778	22,419	21.781	22,677	25.000	26.700
975	22.897	22.261	26.782	22,436	21.642	22,506	25.000	26.562
976	22.855	22.774	26.781	22.530	21.679	22,498	25.000	26,601
977	22.597	22.919	26.787	22.322	21.508	22.265	25.000	26.548
978	22.248	22,466	26.789	22,207	21.275	22.017	25.000	26,478
979	22.454	22,242	26.788	22,452	21.364	22,100	25.000	26.548
980	22.415	22,543	26.790	22.690	21.295	21.947	25.000	26.384
981	22.308	22,474	26.794	22.585	21.085	21.713	25.000	26.160
982	22.239	22.695	26.797	22.712	21.194	21.674	25.000	26.223
983	22.052	22.775	26.798	22.691	21.133	21.576	25.000	26.291
984	22.010	22.844	26.799	22.543	21.101	21.573	25.000	26.402
985	21.870	22.646	26.798	22.020	20.959	21.366	25.000	26.307
986	21.913	22.947	26.798	22.198	21.084	21.462	25.000	26.292
987	21.922	23.404	26.799	22.381	21.136	21.517	25.000	26.291
988	21.823	23.571	26.799	22.360	20.900	21.328	25.000	26.299
989	21.765	23.650	26.800	22.347	20.848	21.272	25.000	26.160
990	21.822	. 23.137	26.799	22.457	20.929	21.331	25.000	26.202
991	21.681	23.114	26.799	22.460	20.755	21.146	25.000	26.188
992	21.646	23.105	26.799	22.250	20.787	21.143	25.000	26.161
993	21.388	22.994	26.800	. 22.123	20.639	20.983	25.000	26.335
994	21.352	R 23.112	26.800	^R 22.068	^R 20.673	^R 21.010	25.000	26.329
995 ^c	21.352	R 23.112	26.800	R 22.068	R 20.673	R 21.010	25.000	26.329

a Includes transportation.

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

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.

R=Revised data.

Table A6. Approximate Heat Content of Bituminous Coal and Lignite (Million Btu per Short Ton)

			Consumption					
	Production	Residential and Commercial	Coke Plants	Other Industrial ^a	Electric Utilities	Total	Imports	Exports
1973	23.391	22.887	26.800	22.585	22.262	23.073	25.000	26.612
974	23.087	22.523	26.800	22.420	21.799	23.073 22.694	25.000 25.000	
975	22.910	22.258	26.800	22.439	21.659	22.594 22.522		26.716
1976	22.863	22.819	26.800	22.528	21.692	22.509	25.000 25.000	26.573
977	22.597	22.594	26.800	22.290	21.521	22.266		26.613
978	22.242	22.078	26.800	22.175	21.284	22.200	25.000 25.000	26.561
979	22.449	21.884	26.800	22.175	21.372			26.501
	22.411	22.488	26.800	22.436 22.690		22.100	25.000	26.570
980	22.301				21.301	21.950	25.000	26.404
981		22.010	26.800	22.572	21.091	21.710	25.000	26.176
* *	22.233	22.226	26.800	22.695	21.200	21.670	25.000	26.231
983	22.048	22.438	26.800	22.680	21.141	21.576	25.000	26.300
984	22.005	22.406	26.800	22.525	21.108	21.570	25.000	26.410
985	21.867	22.568	26.800	22.013	20.965	21.368	25.000	26.320
986	21.908	22.669	26.800	22.185	21.091	21.462	25.000	26.308
987	21.918	22.800	26.800	22.360	21.143	21.514	25.000	26.304
988	21.817	23.135	26.800	22.341	20.905	21.324	25.000	26.308
989	21.759	22.917	26.800	22.324	20.854	21.268	25.000	26.166
990	21.819	22.678	26.800	22.444	20.935	21.330	25.000	26.207
991	21.678	22.635	26.800	22.448	20.761	21.146	25.000	26.192
992	21.643	22.768	26.800	22.242	20.792	21.142	25.000	26.165
993	21.383	22.749	26.800	22.111	20.644	20.983	25.000	26.341
994	^R 21.347	^R 22.683	26.800	R 22.046	R 20.681	R 21.011	25.000	26.335
995 ^b	R 21.347	R 22.683	26,800	R 22.046	R 20.681	R 21.011	25.000	26.335

a Includes transportation.b Preliminary.

R=Revised data.

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			J
			Consumption		Imports and Exports	1
	Production	Sectors Other Than Electric Utilities	Electric Utilities	Total		Coal Coke Imports and Exports
973	22.132	22.674	17.920	21.464	25.400	24.800
974	21.711	22.330	17.200	20.919	25.400	24.800
975	21.582	22.272	17.064	20.762	25.400	24.800
976	22.045	22.618	17.526	21.254	25.400	24.800
977	22.661	24.101	17.244	22.066	25,400	24.800
978	23.079	24.388	17.104	22.398	25.400	24.800
979	23.170	24.272	17.454	22.069	25,400	24.800
980	22.869	22.719	17.652	21.405	25.400	24.800
981	23.291	23.749	18.168	22.080	25.400	24,800
982	23.289	24.578	18.160	22.518	25.400	24.800
983	22.734	24.536	16.516	21.583	25.400	24,800
984	23.107	25.128	17.018	22.322	25.400	24.800
985	22.428	23.031	16.784	20.817	25.400	24.800
986	23.084	24.399	15.578	21.512	25.400	24.800
987	23.108	26.293	15.962	22.435	25.400	24.800
988	23.266	26.021	17.312	22.423	25.400	24.800
989	23.385	27.196	16.310	22.623	25.400	24.800
990	22.574	25.199	16.140	21.668	25.400	24.800
991	22.573	25.268	15.858	21.410	25.400	24.800
992	22.572	24.617	16.944	21.423	25.400	24.800
993	22.573	24.096	_ 16.534	21.262	25.400	24.800
994	R 22.572	R 25.037	^R 14.680	^R 20.828	25.400	24.800
995 ^a	^R 22.572	^R 25.037	^R 14.680	^R 20.828	25.400	24.800

^a Preliminary.

R=Revised data.

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

Table A8. Approximate Heat Rates for Electricity

(Btu per Kilowatthour)

	·			
	Fossil-Fueled Steam-Electric Plants ^a	Nuclear Steam-Electric Plants	Geothermal Energy Plants	Electricity Consumption
	10,389	10,903	21,674	3,412
973	· - •	11.161	21,674	3,412
974	10,442	11,013	21,611	3,412
975	10,406	11,013	21,611	3,412
976	10,373	10,769	21,611	3,412
977	10,435	10,703	21,611	3,412
978	10,361	10,941	21,545	3,412
979	10,353	10,979	21,639	3,412
980	10,388		21,639	3,412
981	10,453	11,030	21,639	3,412
982	10,454	11,073	21,023	3,412
983	10,520	10,905	21,303	3,412
984	10,440	10,843		3,412
985	10,447	10,813	21,263	3,412
986	10,446	10,799	21,263	3,412
987	10,419	10,776	21,263	3,412
988	10,324	10,743	21,096	3,412
989	10,317	10,724	21,096	3,412
990	10,335	10,680	21,096	
991	10,352	10,740	20,997	3,412
992	10,302	10,678	20,914	3,412
993	10,280	10,682	20,914	3,412
994 ^b	10,280	10,682	20,914	3,412
995 ^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.

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

^b Preliminary.

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.

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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 ₃ O 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)	×	0.914 4 ^a	=	meters (m)
	feet (ft)	X	0.304 8ª	=	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 (yd²)	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)

^aExact conversion.

**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.

^bCalculated by the Energy Information Administration.

^cTo convert degrees Celsius (^oC) to degrees Fahrenheit (^oF) exactly, multiply by 9/5, then add 32.

The Btu used in this table is the International Table Btu adopted by the Fifth International Conference on Properties of Steam, London, 1956.

Table B2. Metric Prefixes

Unit Multiple	Prefix	Symbol	Unit Subdivision	Prefix	Symbol
10 ¹	deka	da	10 ⁻¹	deci	d
^	hecto	h	10 ⁻²	centi	С
10 ² 10 ³	kilo	k	10 ⁻³	milli	m
10 ⁶	mega	M	10 ⁻⁶	micro	μ
10	giga	G	10 ⁻⁹	nano	n
10 ₁₂ 10	tera	Ť	10 ⁻¹²	pico	р
10 15	peta	P	10 ⁻¹⁵	femto	f
10 ¹⁵ 10 ¹⁸	exa	F	10 ⁻¹⁸	atto	а
10 ²¹	zetta	7	10 ⁻²¹	zepto	Z
10 ²¹ 10 ²⁴	yotta	Ÿ	10 ⁻²⁴	yocto	у

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

Table B3. Other Physical Conversion Factors

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

Source: U.S. Department of Commerce, National Institute of Standards and Technology, Specifications, Tolerances, and Other Technical Requirements for Weighing and Measuring Devices, NIST Handbook 44, 1994 Edition (Washington, DC, October 1993), pp. B–10, C–17 and C–21.

^bCalculated by the Energy Information Administration.

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 highrank, low-emission bituminous coal to low-rank, highemission 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)

		Indus	trial		
Year	Residential and Commercial	Coke Plants ^a	Other Coal	Electric Utilities	U.S. Average ^b
1980	210.6	205.8	205.9	206.7	206.5
1981	212.0	205.8	205.9	206.9	206.7
982	210.4	205.7	206.0	207.0	206.9
983	209.2	205.5	205.9	207.1	207.0
984	209.5	205.6	206.2	207.1	207.0
985	209.3	205.6	206.4	207.3	207.1
986	209.2	205.4	206.5	207.3	207.1
987	209.4	205.2	206.4	207.3	207.2
988	209.1	205.3	206.4	207.6	207.3
989	209.7	205.3	206.6	207.5	207.3
990	209.5	206.2	206.8	207.6	207.4
991	210.2	206.2	206.9	207.7	207.5
992	211.2	206.2	207.1	207.7	207.6
1993	209.9	206.2	207.0	207.8	207.7

^aNo allowances have been made for carbon retained in non-energy coal chemical byproducts from the coal carbonization process.

^bWeighted average. The weights used are consumption values by sector.

Source: Energy Information Administration, Office of Coal, Nuclear, Electric and Alternate Fuels.

Appendix D. List of Features

The following is a complete list of features that have appeared in the *Monthly Energy Review* since the first issue was published in October 1974. There are five 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. "Energy Snapshots" use graphics to set off key data from EIA survey reports. 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
to Transmission Lines	February 1995
Consumption Survey Methodology Evaluating Wanding Charge Energy Preview: Electric Utility Fleet Survey 1993, Preliminary Estimates: Assessing the	March 1995
Market for Alternative-Fuel Vehicles	April 1995 April 1995
Article: Measuring Dependence on Imported Oil	August 1995
Estimates	August 1995 September 1995
Highlights: State Energy Data Report 1993. Consumption Estimates	October 1995 November 1995
Special Communication: Results of the <i>Monthly Energy Review</i> Features Readership Survey Highlights: <i>Annual Energy Review 1994</i> Article: Environmental Externalities in Electric Power Markets: Acid Rain, Urban Ozone, and	November 1995
Climate Change	November 1995
1994 Energy Preview: Commercial Buildings Energy Consumption Survey,	
Preliminary Estimates, 1992	January 1994
Highlights: Household Vehicles Energy Consumption 1991	February 1994 April 1994
Highlights: Energy Use and Carbon Emissions: Some International Comparisons	April 1994 June 1994
Highlights: Commercial Buildings Characteristics 1992	July 1994
Article: Demand, Supply, and Price Outlook for Helofffulated Motor Casoline 1993	August 1994
Highlights: Reducing Home Heating and Cooling Costs	August 1994
Preliminary Estimates	September 1994
Article: Carbon Dioxide Emission Factors for Coal: A Summary	September 1994
Waste-to-Fnergy Industry	September 1994
EIA Data News: Data Collection on Alternative-Fuel Vehicles	October 1994 October 1994
Highlights: Energy End-Use Intensities in Commercial Buildings	October 1994
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

Feature	Cover Date
Energy Preview: Residential Transportation Energy Consumption Survey, Preliminary Estimates, 1991 EIA Data News: Natural Gas Transported for the Account of Others Highlights: Federal Energy Subsidies: Direct and Indirect Interventions in Energy Markets Highlights: Household Energy Consumption and Expenditures 1990 Article: Demand, Supply, and Price Outlook for Low-Sulfur Diesel Fuel Energy Preview: Manufacturing Energy Consumption Survey, Preliminary Estimates, 1991 Highlights: Natural Gas 1992: Issues and Trends Highlights: International Energy Outlook 1993 Highlights: The Changing Structure of the U.S. Coal Industry: An Update Highlights: Emissions of Greenhouse Gases in the United States 1985-1990 Highlights: Assessment of Energy Use in Multibuilding Facilities	January 1993 February 1993 July 1993 August 1993 August 1993 September 1993 October 1993 November 1993 December 1993
1992 Energy Preview: Residential Energy Consumption and Expenditures Preliminary Estimates, 1990 EIA Data News: Oxygenate Data Collection Begins Highlights: Lighting in Commercial Buildings Article: Demand, Supply, and Price Outlook for Oxygenated Gasoline, Winter 1992-1993 EIA Data News: EIA Statistics on Electric Utility Demand-Side Management EIA Data News: EIA Statistics on Nonutility Power Producers Highlights: Derived Annual Estimates of Manufacturing Energy Consumption, 1974-1988 Article: Energy Efficiency in the Manufacturing Sector	April 1992 May 1992 June 1992 August 1992 September 1992 October 1992 November 1992 December 1992
1991 Highlights: U.S. Energy Industry Financial Developments, 1990 Fourth Quarter	March 1991 April 1991
1990 Article: Refining Results Highlight Energy Companies' First-Half Profit Performance Highlights: U.S. Oil and Gas Reserves by Year of Field Discovery	June 1990 August 1990
Article: A Review of Valdez Oil Spill Market Impacts Article: Monthly U.S. Crude Oil Production Estimates Article: Superconductivity and Energy Production and Consumption Highlights: Commercial Buildings Consumption and Expenditures 1986 Article: Higher Prices Yield Improved Energy Industry Financial Results in the First Half of 1989 Article: The Future Structure of the U.S. Commercial Nuclear Power Equipment Manufacturing Industry Highlights: Potential Costs of Restricting Chlorofluorocarbon Use Highlights: Manufacturing Energy Consumption Survey: Changes in Energy Efficiency, 1980-1985 Highlights: Household Energy Consumption and Expenditures 1987, Part 1: National Data Article: Improved Energy Profits Offset by Refining Results in 1989	March 1989 March 1989 May 1989 May 1989 June 1989 July 1989 September 1989 October 1989 November 1989 December 1989
Article: Measures of Energy Consumption, Expenditures, and Prices Highlights: Characteristics of Commercial Buildings 1986 Article: The U.S. Energy Industry's Financial Recovery Continued in the First Half of 1988 Article: A U.S. Perspective on Condensate Article: State Energy Severance Taxes, 1972-1987 Highlights: Manufacturing Energy Consumption Survey: Consumption of Energy, 1985 Highlights: Profiles of Foreign Direct Investment in U.S. Energy 1987 Highlights: Manufacturing Energy Consumption Survey: Fuel Switching, 1985 Article: Increased Refining Income Led U.S. Energy Industry Financial Recovery in 1988	May 1988 June 1988 June 1988 June 1988 July 1988 September 1988 October 1988 November 1988 December 1988

Feature	Cover Date
Article: Manufacturing Sector Energy Consumption, 1985 Provisional Estimates Highlights: Consumption and Expenditures, April 1984 Through March 1985, Part 1: National Data Highlights: Consumption and Expenditures, April 1984 Through March 1985, Part 2: Regional Data Article: U.S. Energy Industry Financial Developments, 1987 Second Quarter Article: End-Use Consumption of Residential Energy Highlights: Uranium Industry Annual 1986 Highlights: Potential Oil Production from ANWR Highlights: Profiles of Foreign Direct Investment in U.S. Energy 1986 Article: The U.S. Energy Industry in 1987: A Slow Recovery	January 1987 April 1987 May 1987 June 1987 July 1987 September 1987 October 1987 November 1987 December 1987
Article: State Motor Gasoline Taxes, 1960-1985	March 1986 June 1986 June 1986 September 1986 December 1986
Highlights: Annual Energy Review 1984 Highlights: Performance Profiles of Major Energy Producers 1983 Article: Estimating Well Completions Highlights: State Energy Price and Expenditure Report 1970-1982 Highlights: State Energy Data Report, Consumption Estimates, 1960-1983 Highlights: Annual Outlook for U.S. Electric Power 1985 Highlights: Short-Term Energy Outlook, Volume 1, October 1985 Highlights: Analysis of Growth in Electricity Demand, 1980-1984 Highlights: Profiles of Foreign Direct Investment in U.S. Energy 1984 Highlights: Performance Profiles of Major Energy Producers 1984	January 1985 February 1985 March 1985 March 1985 April 1985 June 1985 August 1985 August 1985 November 1985 December 1985
Highlights: Annual Energy Review 1983 Highlights: Annual Energy Outlook 1983 Highlights: State Energy Data Report, Consumption Estimates, 1960-1982 Highlights: State Energy Price and Expenditure Report, 1970-1981 Highlights: Solar Collector Manufacturing Activity 1983 Highlights: International Energy Annual 1983 Highlights: Estimates of U.S. Wood Energy Consumption, 1980-1983 Highlights: Energy Conservation Indicators 1983 Annual Report Highlights: Annual Energy Outlook 1984	February 1984 March 1984 March 1984 May 1984 June 1984 September 1984 September 1984 November 1984 December 1984
Highlights: Residential Energy Consumption Survey: Consumption and Expenditures Highlights: Residential Energy Consumption Survey: Housing Characteristics Article: The Effect of Weather on Energy Use Article: Trends in U.S. Energy Since 1973 Article: Data Series on Petroleum Use at Electric Utilities Highlights: Energy Price and Expenditure Data Report, 1970-1980 Highlights: Railroad Deregulation: Impact on Coal Highlights: Port Deepening and User Fees: Impact on U.S. Coal Exports Highlights: U.S. Crude Oil, Natural Gas, and Natural Gas Liquids Reserves, 1982 Annual Report Article: Residential Energy Consumption, 1978 Through 1981 Article: Exploring for Oil and Gas Article: Aggregate Statistics: Accurate or Misleading?	September 1983 September 1983 November 1983 December 1983[2]

Feature	Cover Date
Article: The Interstate and Intrastate Natural Gas Markets Article: Natural Gas Drilling and Production Under the Natural Gas Policy Act Highlights: U.S. Crude Oil, Natural Gas, and Natural Gas Liquids Reserves, 1981 Annual Report Article: Impacts of Financial Constraints on the Electric Utility Industry Highlights: Energy Company Development Patterns in the Postembargo Era	January 1982 February 1982 September 1982 October 1982 November 1982
1981 Article: Changes in 1981 Petroleum Data Series	May 1981 September 1981 December 1981
1980 Article: The Solar Collector Industry and Solar Energy	February 1980 March 1980
Program—The First Year's Report Article: Energy From Urban Waste Article: Natural Gas Liquids: Revisions to 1979 Data Article: EIA Weekly Petroleum Data: Data Collection and Methods of Estimation Article: The Department of Energy Disclosure Policy for Individually Identifiable	June 1980 August 1980 October 1980 November 1980
Information Maintained by the Energy Information Administration	July 1979 October 1979 December 1979
1978 Article: Short-Term Petroleum Supply and Demand	May 1978
1977 Article: Crude Oil Entitlements Program	January 1977 July 1977
1976 Article: Curtailments of Natural Gas Service	January 1976 March 1976 September 1976
1975 Article: Energy Consumption Article: Nuclear Power Article: The Price of Crude Oil Article: U.S. Coal Resources and Reserves Article: Propane—A National Energy Resource Article: Short-Term Energy Supply and Demand Forecasting at FEA	March 1975 April 1975 June 1975 July 1975 September 1975 October 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 (C₄H₈) recovered from refinery processes.

Capacity Factor: The ratio of the electrical energy produced by a generating unit for a given period of time to the electrical energy that could have been produced at continuous full-power operation during the same period.

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, each comprising from three to eight States, which are assigned weights based on the ratio of the population of the region to the total population of the Nation. Degree-day readings for each region are multiplied by the corresponding population weight for each region and those products are then summed to arrive at the national population-weighted degree-day figure.

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

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

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

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

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 (C₂H₆). It is a colorless, paraffinic gas that boils at a temperature of -127.48° F. It is extracted from natural gas and refinery gas streams.

Ethylene: An olefinic hydrocarbon (C₂H₄) recovered from refinery processes or petrochemical processes.

Exploratory Well: A well drilled to find and produce oil or gas in an 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 (C₂H₅OH) intended for motor gasoline blending. See Oxygenates.

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

Gasohol: A blend of finished motor gasoline (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 (CH₃OH) eligible for motor gasoline blending. See Oxygenates.

Miscellaneous Petroleum Products: All finished petroleum products not classified elsewhere—for example, petrolatum, lube refining byproducts (aromatic extracts and tars), absorption oils, ram-jet fuel, petroleum rocket fuels, synthetic natural gas feedstocks, and specialty oils.

Motor Gasoline Blending 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, (CH₃)₃COCH₃, 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 cosolvent 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 (C₃H₆) recovered from refinery or petrochemical processes.

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

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

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

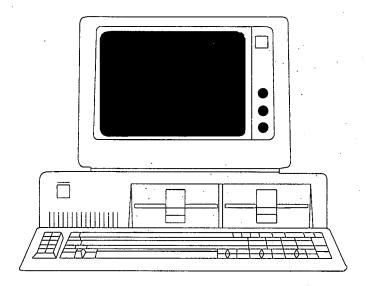
Well Servicing Unit: Truck-mounted equipment generally used for downhole services after a well is drilled. Services include well completions and recompletions, maintenance, repairs, workovers, and well plugging and abandonments. Jobs range from minor operations, such as pulling the rods and rod pumps 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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State Energy Data System (SEDS) diskettes contain the data for 1960 through 1993 as published in Tables 11 through 322 of the *State Energy Data Report 1993*, *Consumption Estimates*. State Energy Price and Expenditure System (SEPEDS) diskettes contain the data for 1970 through 1993 as published in the "Statistical Tables" section of the *State Energy Price and Expenditure Report 1993*. Although the published tables present data in rounded form, the diskettes contain data in the fullest precision available. Diskettes containing data for all the States within a Census region, the U.S. data, documentation, and utilities can be purchased separately or in a complete set. For prices and more information, contact:

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The *Monthly Energy Review** (DOE/EIA-0035) presents current monthly data on production, consumption, stocks, imports, exports, and prices of the principal energy commodities in the United States. Also included are data on international production of crude oil, consumption of petroleum products, petroleum stocks, and production of electricity from nuclear-powered facilities.

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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SECOND-CLASS MAIL POSTAGE & FEES PAID U.S. DEPARTMENT OF ENERGY ISSN 0095-7356



1919 1208 28 02/05/04 \ HB