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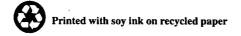
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# **Monthly Energy Review**

May 1995

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

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### **Section 1. Energy Overview**

Energy production during February 1995 totaled 5.4 quadrillion Btu, a 3.1-percent increase from the level of production during February 1994. Coal production increased 5.9 percent, natural gas production fell 0.7 percent, and production of crude oil and natural gas plant liquids increased 0.6 percent. All other forms of energy production combined were up 8.7 percent from the level of production during February 1994.

Energy consumption during February 1995 totaled 7.4 quadrillion Btu, 0.7 percent below the level of consumption during February 1994. Consumption of

petroleum products rose 0.3 percent, coal consumption was down 2.8 percent, and natural gas consumption decreased 3.2 percent. Consumption of all other forms of energy combined increased 7.0 percent from the level 1 year earlier.

Net imports of energy during February 1995 totaled 1.3 quadrillion Btu, 5.6 percent below the level of net imports 1 year earlier. Net imports of natural gas were up 14.8 percent, and net imports of petroleum decreased 3.9 percent. Net exports of coal rose 50.2 percent from the level in 1994.

Table 1.1 Energy Summary for February 1995

(Quadrillion Btu)

		February		Cumulative January Through February					
	1995	1994	Percent Change <sup>a</sup>	1995	1995 Daily Rate	1994	1994 Daily Rate	Percent Change <sup>a</sup>	
Production <sup>b</sup>	5.424	5.261	3.1	11.397	0.193	10.802	0.183	5.5	
Coal	1.846	1.744	5.9	3.790	.064	3.380	.057	12.1	
Natural Gas (Dry)	1.491	1.502	7	3.195	.054	3.168	.054	9.	
Crude Oil <sup>c</sup> and Natural Gas Plant Liquids	1.277	1.270	.6	2.672	.045	2.679	.045	3	
Other <sup>d</sup>	.810	.745	8.7	1.739	.029	1.574	.027	10.5	
Consumption <sup>b</sup>	7.422	7.478	7	15.426	.261	15.741	.267	-2.0	
Coal	1.537	1.580	-2.8	3.250	.055	3.396	.058	-4.3	
Natural Gase	2.285	2.361	-3.2	4.758	.081	4.959	.084	-4.1	
Petroleum Productsf	2.760	2.752	.3	5.618	.095	5.736	.097	-2.1	
Other9	.840	.785	7.0	1.800	.031	1.650	.028	9.1	
Net Imports	1.305	1.383	-5.6	2.704	.046	2.803	.048	-3.5	
Coal <sup>h</sup>	140	093	50.2	290	005	204	003 <sup>-</sup>	41.8	
Natural Gas	.216	.188	14.8	.459	.008	415	.007	10.6	
Petroleum <sup>i</sup>	1.200	1.248	-3.9	2.474	.042	2.517	.043	-1.7	
Other <sup>j</sup>	.030	.040	-25.4	.061	.001	.075	.001	-19.3	

a Based on daily rates prior to rounding.

h Minus sign indicates exports are greater than imports.

Tother is net imports of electricity and coal coke.

1

Sources: Tables 1.3, 1.4, and 1.5,

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

c Includes lease condensate.

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

e includes supplemental gaseous fuels.

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

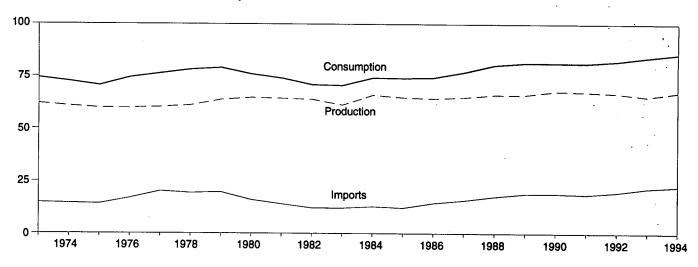
<sup>&</sup>lt;sup>9</sup> "Other" is hydroelectric and nuclear electric power; electricity generated for distribution from wood, waste, geothermal, wind, photovoltaic, and solar thermal energy; and net imports of electricity and coal coke.

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

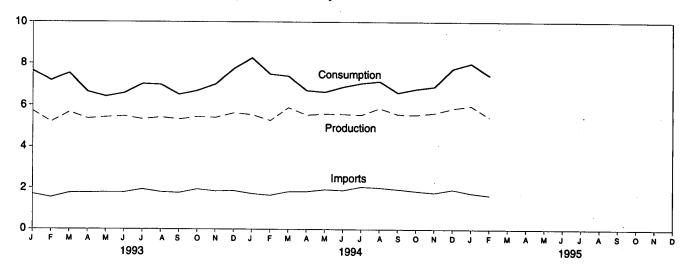
Notes: • Totals may not equal sum of components due to independent rounding. • Geographic coverage is the 50 States and the District of

Figure 1.1 Energy Overview

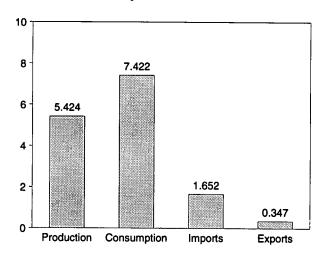
#### Consumption, Production, and Imports, 1973-1994



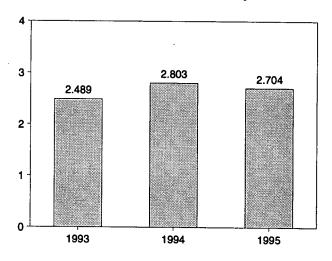
### Consumption, Production, and Imports, Monthly



Overview, February 1995



Net Imports, January and February



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

**Table 1.2 Energy Overview** 

	Production <sup>a</sup>	Consumption <sup>a,b</sup>	Imports	Exports	Net Imports	
		74 000	14.731	2.051	12.680	
73 Total	62.060	74.282 72.543	14.413	2.223	12.190	
74 Total	60.835		14,111	2.359	11.752	
75 Total	59.860	70.546		2.188	14.648	
76 Total	59.892	74.362	16.837	2.071	18.019	
77 Total	60.219	76.288	20.090	1.931	17.323	
78 Total	61.103	78.089	19.254		16.746	
79 Total	63.801	78.898	19.616	2.870		
80 Total	64.761	75.955	15.971	3.723	12.247	
81 Total	64.421	73.990	13.975	4.329	9.646	
82 Total	63.962	70.848	12.092	4.633	7.460	
62 Total	61.279	70.524	12.027	3.717	8.310	
83 Total	65.962	74.144	12.767	3.804	8.963	
84 Total		73.981	12.103	4.231	7.872	
85 Total	64.871	74.297	14.438	4.055	10.382	
86 Total	64.350	74.297 76.894	15.764	3.853	11.911	
87 Total	64.952		17.564	4,415	13.149	
988 Total	66.105	80.218		4.765	14.181	
989 Total	66.129	81.325	18.947	4.765 4.910	14.077	
990 Total	67.853	81.265	18.987		13.357	
991 Total	67.484	81.116	18.577	5.220		
992 Total	66.853	82.144	19.650	5.017	14.633	
993 January	5.714	7.640	1.707	.399	1.308	
February	5.189	7.175	1.545	.364	1.181	
	5.657	7.526	1.762	.347	1.414	
March	5.354	6.637	1.775	.345	1.430	
April	5,420	6.406	1.791	.382	1.408	
May		6.570	1.786	.411	1.375	
June	5.462	7.015	1.936	.376	1.560	
July	5.327		1.807	.320	1.486	
August	5.416	6.981	1.765	.339	1,426	
September	5.321	6.503		.347	1.595	
October		6.687	1.941	.324	1.524	
November	. 5.403	7.000	1.849	.395	1.472	
December		7.737	1.867		17.180	
Total		83.877	21.530	4.350	17.100	
994 January	5.541	R 8.263	1.729	.308	1.421	
February	0	<sup>R</sup> 7.478	1.653	.270	1.383	
	0	R 7.383	1.824	.346	1.478	
March	D = ===	R 6.699	1.832	.296	1.536	
April	2124	R 6.629	1.929	.323	1.606	
May	I I I I	R 6.872	1.892	.370	1.522	
June		<sup>R</sup> 7.049	2.058	.327	1.732	
July		R 7.144	2.016	.358	1.658	
August			1.941	361	1.580	
September		R 6.598		B.355	R 1.498	
October	5.540	R 6.774	1.853	R .363	R 1.417	
November	<sup>n</sup> 5.623	R 6.889	1.780	R .422	R 1.508	
December	_ <sup>H</sup> 5.854	, R7.745	1.930		R 18.339	
Total		<sup>R</sup> 85.523	22.437	<sup>R</sup> 4.098	10.339	
995 January	R 5.972	<sup>R</sup> 8.004	<sup>R</sup> 1.759	.360	<sup>R</sup> 1.399	
February	·	7.422	1.652	.347	1.305	
2-Month Total		15.426	3.412	.707	2.704	
and a March Total	10.802	15.741	3,382	.578	2.803	
994 2-Month Total	10.002	14.815	3.252	.763	2.489	

<sup>&</sup>lt;sup>a</sup> 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.

<sup>b</sup> 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

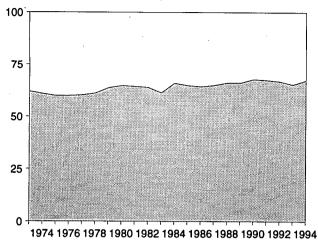
Notes: • For definitions, see Notes 1 through 4 at end of section.
• Totals may not equal sum of components due to independent rounding.

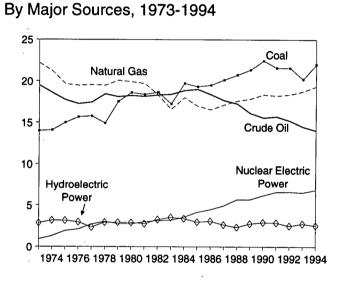
Geographic coverage is the 50 States and the District of Columbia.

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.

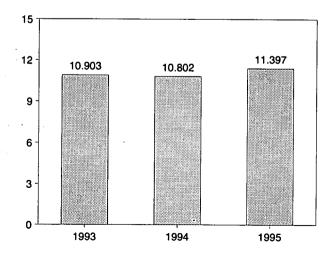
Figure 1.2 **Energy Production** 

#### Total, 1973-1994



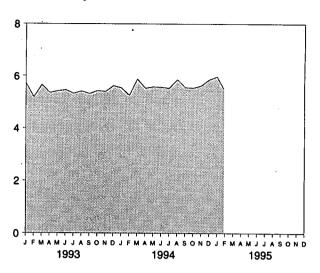


### Total, January and February

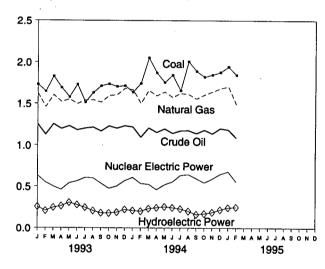


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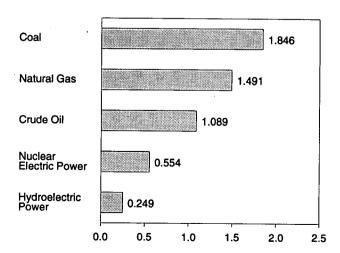
#### Total, Monthly



#### By Major Sources, Monthly



### By Major Sources, February 1995



**Table 1.3 Energy Production by Source** 

	Coal	Naturai Gas (Dry)	Crude Oil <sup>a</sup>	Naturai Gas Plant Liquids	Nuclear Electric Power	Hydro- electric Power <sup>b</sup>	Geothermal Energy	Other <sup>c</sup>	Total
		20.407	40.400	2 560	0.910	2.861	0.043	0.003	62.060
973 Total	13.993	22.187	19.493	2.569	1.272	3.177	.053	.003	60.835
74 Total	14.074	21.210	18.575	2.471	1.900	3.155	.070	.002	59.860
75 Total	14.990	19.640	17.729	2.374		2.976	.078	.002	59.892
976 Total	15.654	19.480	17.262	2.327	2.111		.077	.005	60.219
977 Total	15.755	19.565	17.454	2.327	2.702	2.333		.003	61.103
78 Total	14.910	19.485	18.434	2.245	3.024	2.937	.064		
79 Total	17.539	20.076	18.104	2.286	2.776	2.931	.084	.005	63.80
980 Total	18.597	19.908	18.249	2.254	2.739	2.900	.110	.005	64.76
981 Total	18.376	19.699	18.146	2.307	3.008	2.758	.123	.004	64.42
982 Total	18.639	18.319	18.309	2.191	3.131	3.266	.105	.003	63.96
983 Total	17.246	16.593	18.392	2.184	3.203	3.527	.129	.004	61.27
984 Total	19.719	18.008	18.848	2.274	3.553	3.386	.165	.009	65.96
	19.325	16.980	18.992	2.241	4.149	2.970	.198	.015	64.87
985 Total	19.525	16.541	18.376	2.149	4,471	3.071	.219	.012	64.35
986 Total		17.136	17.675	2.215	4.906	2.635	.229	.016	64.95
987 Total	20.142	17.136	17.279	2.260	5.661	2.334	.217	.017	66.10
988 Total	20.737		16.117	2.158	5.677	2.767	.197	.020	66.12
989 Total	21.345	17.847		2.175	6.161	2.926	.181	.021	67.85
990 Total	22.456	18.362	15.571			2.885	.170	.021	67.48
991 Total	21.594	18.229	15.701	2.306	6.579		.170	.022	66.85
992 Total	21.593	18.375	15.223	2.363	6.607	2.501	.170	.022	00.00
993 January	1.732	1.624	1.252	.205	.631	.254	.014	.002	5.71
February	1.645	1.459	1.127	.189	.548	.205	.013	.002	5.18
March	1.829	1.603	1.254	.211	.498	.245	.014	.002	5.65
April	1.691	1.521	1.197	.205	.461	.262	.014	.002	5.35
May	1.577	1.552	1.231	.204	.538	.305	.012	.001	5.42
June	1.731	1.496	1.182	.200	.562	.277	.012	.001	5.46
July	1.514	1.541	1.203	.205	.604	.245	.013	.001	5.32
•	1.631	1.543	1.215	.206	.600	.205	.014	.002	5.41
August	1.712	1.516	1.168	.198	.534	.178	.013	.002	5.32
September	1.738	1.594	1.230	.208	.475	.176	.013	.002	5.43
October	1.705	1.604	1.203	.190	.501	.186	.013	.002	5.40
November			1.233	.186	.567	.220	.013	.002	5.61
December	1.715	1.683 <b>18.736</b>	14.494	2.408	6.519	2.757	.158	.021	65.31
Total	20.221	10.730	17.737	2.400	0.010				
994 January	1.636	1.667	1.219	.190	.607	.207	.013	.002 .002	5.54 R 5.26
February	1.744	_ 1.502	1.095	.174	.532	.199	.012		R 5.88
March	2.052	<sup>R</sup> 1.658	1.208	.197	.523	.231	.012	.002	
April	1.872	<sup>R</sup> 1.593	1.154	.192	.461	.242	.012	.002	R 5.52
May	1.757	1.640	1.197	.202	.518	.254	.012	.002	5.58
June	1.844	1.575	1.143	.198	.553	.243	.011	.002	5.56
July	1.656	1.622	1.174	.207	.632	.228	.012	.002	5.53
August	2.009	1.611	1.177	.208	.642	.199	.013	.002	5.86
September	1.890	1.557	1,140	.204	.594	.161	.012	.002	5.5
October	1.822	1.604	1.183	.205	.542	.170	.012	.002	5.5
	1.847	R 1.642	1.138	.204	.590	.186	.012	.002	R 5.6
November	1.879	<sup>R</sup> 1.683	1.202	.212	.646	.217	.012	.002	R 5.8
Total	22.008	R 19.353	14.030	2.393	6.841	2.538	.145	.020	R 67.3
•			4 400	000	677	040	.009	.001	R 5.97
995 January	1.944	1.704	1.186	.209	.677	.243		.001	5.9 5.4
February	1.846	1.491	1.089	.188	.554	.249	.006		11.3
2-Month Total	3.790	3.195	2.275	.397	1.231	.491	.015	.002	11.3
994 2-Month Total	3.380	3.168	2.314	.365	1.139	.406	.025	.003	10.8
993 2-Month Total	3.377	3.083	2.379	.394	1.179	.460	.027	.004	10.9

<sup>&</sup>lt;sup>a</sup> Includes lease condensate.

R=Revised data.

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

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

<sup>&</sup>lt;sup>b</sup> Electric utility and industrial generation.

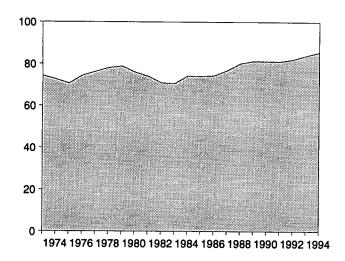
c "Other" production is electricity generated for distribution from wood,

waste, wind, photovoltaic, and solar thermal energy.

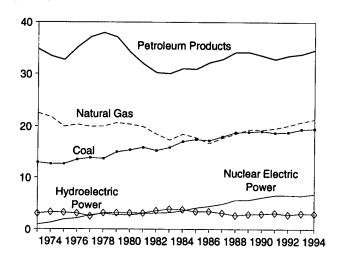
d Due to a lack of consistent historical data, some renewable energy sources are not included. For example, in 1992, 3.0 quadrillion Btu of renewable energy consumed by U.S. electric utilities to generate electricity for distribution is included, but an estimated 3.0 quadrillion Btu of renewable energy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

Figure 1.3 Energy Consumption

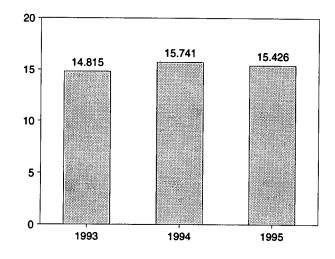
#### Total, 1973-1994



#### By Major Sources, 1973-1994

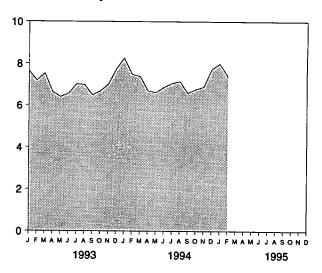


### Total, January and February

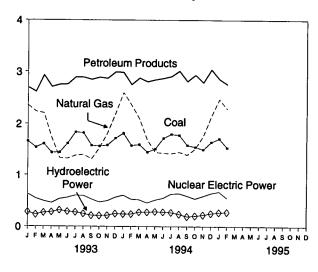


Note: Because vertical scales differ, graphs should not be compared. Source: Table 1.4.

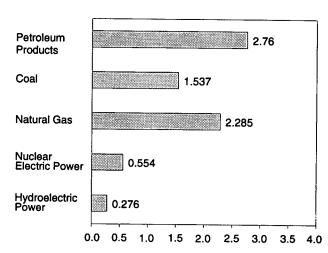
#### Total, Monthly



#### By Major Sources, Monthly



### By Major Sources, February 1995



**Table 1.4 Energy Consumption by Source** 

	Coal	Natural Gas <sup>a</sup>	Petroleum Products <sup>b</sup>	Nuclear Electric Power	Hydro- electric Power <sup>c</sup>	Geothermal Energy	Other <sup>d</sup>	Totale
	12.971	22.512	34.840	0.910	3.010	0.043	-0.004	74.282
973 Total		21.732	33.455	1.272	3.309	.053	.059	72.543
74 Total	12.663		32.731	1.900	3.219	.070	.016	70.546
75 Total	12.663	19.948	-	2.111	3.066	.078	.003	74.362
76 Total	13.584	20.345	35.175	2.702	2.515	.077	.020	76.288
77 Total	13.922	19.931	37.122	3.024	3.141	.064	.128	78.089
78 Total	13.765	20.000	37.965		3.141	.084	.068	78.898
79 Total	15.039	20.666	37.123	2.776	_	.110	031	75.95
80 Total	15.423	20.394	34.202	2.739	3.118	.123	012	73.99
81 Total	15.907	19.928	31.931	3.008	3.105		012	70.84
82 Total	15.322	18.505	30.231	3.131	3.572	.105		70.52
83 Total	15.894	17.357	30.054	3.203	3.899	.129	012	
84 Total	17.071	18.507	31.051	3.553	3.800	.165	002	74.14
85 Total	17.478	17.834	30.922	4.149	3.398	.198	.001	73.98
86 Total	17.261	16.708	32.196	4.471	3.446	.219	004	74.29
	18.008	17.744	32.865	4.906	3.117	.229	.024	76.89
87 Total	18.846	18.552	34.222	5.661	2.662	.217	.057	80.21
88 Total	18.925	19.384	34.211	5.677	2.881	.197	.051	81.32
89 Total	19.101	19.296	33.553	6.161	2.946	.181	.026	81.26
90 Total		19.606	32.845	6.579	3.115	.170	.030	81.11
991 Total	18.770		33.527	6.607	2.793	.170	.049	82.14
92 Total	18.868	20.131	33.527	0.007	2.130			
93 January	1.660	2.354	2.697	.631	.278	.014	.006	7.64 7.17
February	1.540	2.233	2.611	.548	.229	.013	.001	
March	1.609	2.204	2.931	.498	.266	.014	.005	7.52
April	1.442	1.730	2.708	.461	.278	.014	.004	6.63
May	1,448	1.338	2.753	.538	.314	.012	.004	6.40
June	1.618	1.328	2.759	.562	.287	.012	.004	6.57
	1.840	1.388	2.894	.604	.275	.013	.001	7.01
July	1.823	1.406	2.890	.600	.245	.014	.004	6.98
August	1.580	1.315	2.848	.534	.212	.013	.001	6.50
September		1.534	2.889	.475	.208	.013	.003	6.68
October	1.566	1.819	2.869	.501	.213	.013	.002	7.00
November	1.584		2.994	.567	.247	.013	.004	7.73
December	1.720	2.192	33.841	6.519	3.050	.158	.038	83.87
Total	19.430	20.841	33.041	0.515	0.000			
994 January	1.816	<sup>R</sup> 2.598	2.984	.607	.239	.013	.006 .001	R 8.20
February	1.580	<sup>R</sup> 2.361	2.752	.532	.240	.012		R 7.3
March	1.596	<sup>R</sup> 2.095	2.878	.523	.276	.012	.003	
April	R 1.454	<sup>R</sup> 1.684	2.808	.461	.276	.012	.004	R 6.6
May	1.515	<sup>R</sup> 1.449	2.846	.518	.286	.012	.003	R 6.6
June	R 1.720	<sup>R</sup> 1.433	2.872	.553	.279	.011	.004	R 6.8
July	1.799	R 1.426	2.909	.632	.269	.012	.002	R 7.0
August	1.781	R 1.453	3.014	.642	.237	.013	.003	R 7.1
September	1.584	R 1.398	2.814	.594	.192	.012	.004	<sup>R</sup> 6.5
- ·	1.551	R 1.518	2.939	.542	.205	.012	.007	<sup>R</sup> 6.7
October		R 1.765	2.793	.590	.223	.012	.001	<sup>R</sup> 6.8
November	1.503	R 2.143	3.043	.646	.252	.012	.004	R 7.7
Total	1.645 <b>19.544</b>	R 21.323	34.653	6.841	2.973	.145	.044	R 85.5
			0.050	.677	.270	.009	.005	R 8.00
995 January	1.713	2.472	2.858	.554	.276 .276	.006	.003	7.4
February	1.537	2.285	2.760			.015	.008	15.4
2-Month Total	3.250	4.758	5.618	1.231	.546	.010	.006	15.4
994 2-Month Total	3.396	4.959	5.736	1.139	.479	.025	.007	15.7
1993 2-Month Total	3.200	4.588	5.308	1.179	.506	.027	.008	14.8

a includes supplemental gaseous fuels.

energy used by other sectors is not included.

R=Revised data.

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

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

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

<sup>&</sup>lt;sup>c</sup> 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.

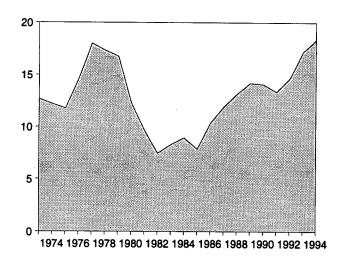
energy.

<sup>9</sup> 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

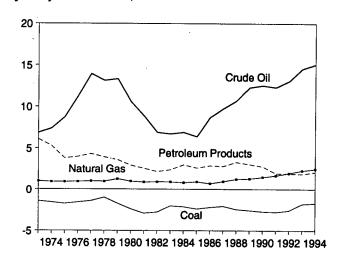
Figure 1.4 Energy Net Imports

(Quadrillion Btu, Except as Noted)

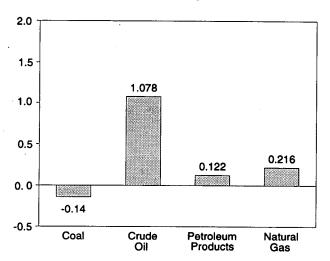
Total, 1973-1994



#### By Major Sources, 1973-1994

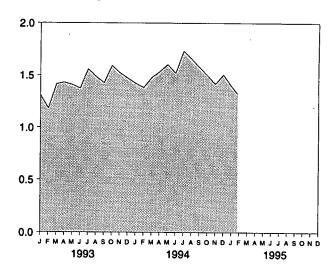


#### By Major Sources, February 1995

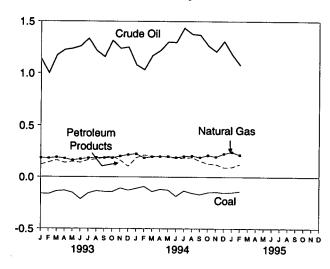


Note: Because vertical scales differ, graphs should not be compared. Sources: Tables 1.4 and 1.5.

Total, Monthly



By Major Sources, Monthly



As Share of Consumption, January and February

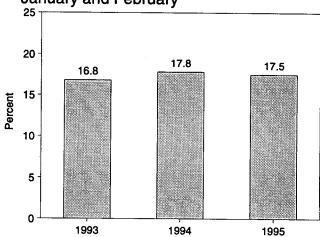


Table 1.5 Energy Net Imports by Source

	0	Natural	Crude Oil <sup>a</sup>	Petroleum Products <sup>b</sup>	Electricity <sup>c</sup>	Coal Coke	Total
	Coal	Gas		Froducts	Lioutions		
·• - · · ·	-1.422	0.981	6.883	6.097	0.148	-0.007	12.680
'3 Total	-1.422 -1.568	.907	7.389	5.273	.133	.056	12.190
4 Total		.904	8.708	3.800	.064	.014	11.752
75 Total	-1.738	.922	11.221	3.982	.089	(8)	14.648
76 Total	-1.567		13.921	4.321	.182	.015	18.019
77 Total	-1.401	.981		3.932	.204	,125	17.323
78 Total	-1.004	.941	13.125	3.603	.211	.063	16.746
79 Total	-1.702	1.243	13.328	*****	.217	035	12.247
80 Total	-2.391	.957	10.586	2.912	.347	016	9.646
81 Total	-2.918	.857	8.854	2.522	.306	022	7.460
82 Total	-2.768	.898	6.917	2.128		016	8.310
83 Total	-2.013	.885	6.731	2.351	.372		8.963
84 Total	-2.119	.792	6.918	2.970	.414	011	7.872
85 Total	-2.389	.896	6.381	2.570	.428	013	
86 Total	-2.193	.686	8.676	2.855	.375	017	10.382
87 Total	-2.049	.937	9.748	2.784	.483	.009	11.911
88 Total	-2.446	1.221	10.698	3.308	.328	.040	13.149
89 Total	-2.566	1.278	12.296	3.029	.113	.030	14.181
90 Total	-2.705	1.464	12.536	2.757	.020	.005	14.077
	-2.769	1.666	12.308	1.912	.231	.009	13.357
91 Total	-2.587	1.941	13.065	1.895	.292	.027	14,633
92 Total	-2.507	1.541			١.	•	
93 January	163	.187	1.138	.118	.023	.004	1.30
February	166	.182	.999	.142	.023	(s)	1.18
March	138	.192	1.172	.164	021	.003	1.41
April	132	.181	1.225	.138	.016	.002	1.43
May	152	.163	1.237	.149	.009	.002	1.40
	214	.175	1.260	.140	.010	.003	1.37
June	157	.186	1.334	.168	.030	(s)	1.56
July	135	.190	1.216	.173	.040	.002	1.48
August		.188	1.157	.191	.034	001	1.42
September	142	.187	1.314	.204	.032	.001	1.59
October	144		1.238	.163	.027	(s)	1.52
November	108	.204	1.251	.103	.028	.002	1.47
December	129	.219		1.854	.292	.017	17.18
Total	-1.780	2.255	14.542	1.034	.232		
94 January	111	.227	1.080	.189	E .032	.004	1.42
February	093	.188	1.033	.215	E.040	001	1.38
· · · · ·	•.141	.199	1.169	.204	E .045	.002	1.47
March	120	.201	1.218	.201	E.034	.003	1.53
April		.202	1.300	.197	E.032	.002	1.60
May	126			.185	E.035	.003	1.52
June	187	.191	1.295	.186	E .040	(s)	1.73
July	134	.203	1.436	.192	E.038	.002	1.65
August	157	.208	1.376		E.031	.003	1.58
September	170	.192	1.368	.156	E.035	.005	R 1.49
October	150	R .213	1.265	.129	U35 E 007		R 1.41
November	145	R.198	1.208	.121	E .037	001	R 1.50
December	154	R.228 ·	1.306	.091	E .035	.002	
Total	-1.689	<sup>R</sup> 2.450	15.054	2.065	E.436	.024	<sup>R</sup> 18.33
OOF January	150	R.244	1,179	.094	E.028	.004	<sup>R</sup> 1.39
995 January		.216	1.078	.122	E .027	.002	1.30
February	140	.459	2.258	.216	E .055	.006	2.70
2-Month Total	290	.433	2.200				
		445	0.110	.404	E .072	.003	2.80
994 2-Month Total	204	.415	2.113	.707	.0.2	.004	2.48

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.

Petroleum Reserve.

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

blending components.

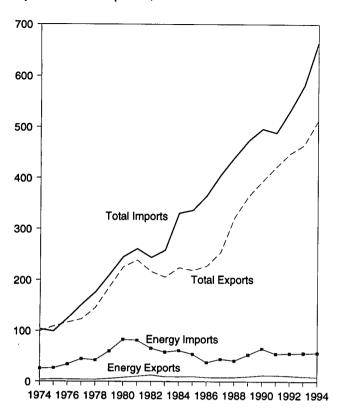
<sup>c</sup> Assumed to be hydroelectricity and estimated at the average input heat rate for fossil-fuel steam-electric power plant generation, which has ranged from 10.2 thousand Btu to 10.5 thousand Btu per kilowatthour since 1973. Actual heat rates applied in converting kilowatthours to Btu are listed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

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

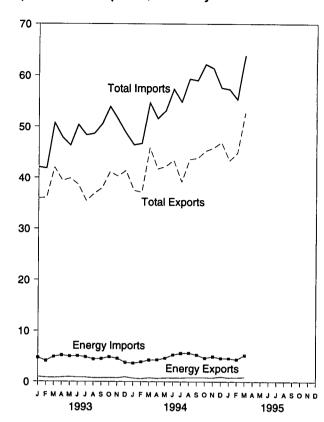
Sources: • Coal: Tables 6.1 and A5-A7. • Natural Gas: Tables 4.2 and A4. • Crude Oil and Petroleum Products: Tables 3.1b and A2. • Electricity: Section 2, "Energy Consumption Notes and Sources," Note 8, and Table A8. • Coal Coke: Section 2, "Energy Consumption Notes and Sources," Note 9, and Table A7.

Figure 1.5 Merchandise Trade Value (Billion Dollars)

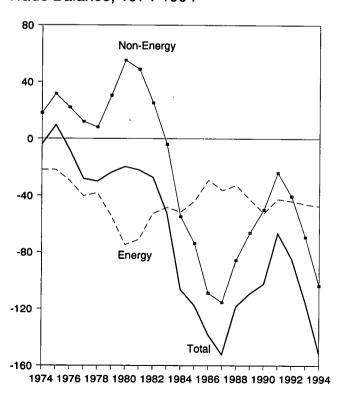
#### Imports and Exports, 1974-1994



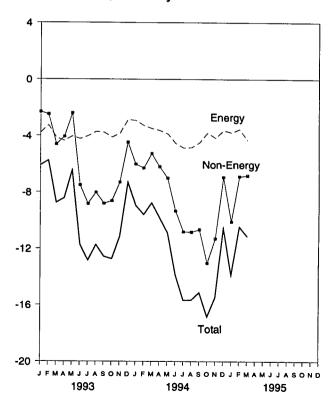
#### Imports and Exports, Monthly



#### Trade Balance, 1974-1994



Trade Balance, Monthly



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

Table 1.6 Merchandise Trade Value

(Million Dollars)

		Petroleun	n		Energy		Non-	Total Merchandise		
	Exports	Imports	Balance	Exports	Imports	Balance	Energy Balance	Exports	Imports	Balance
			00.070	2 444	25,454	-22,010	18,126	99.437	103,321	-3,884
974 Total	792	24,668	-23,876	3,444		-22,006	31,557	108,856	99,305	9,551
975 Total	907	25,197	-24,289	4,470	26,476		21,950	116,794	124,614	-7,820
976 Total	998	32,226	-31,228	4,226	33,996	-29,770		123,182	151,534	-28,353
977 Total	1,276	42,368	-41,093	4,184	44,537	-40,354	12,001		176,052	-30,205
978 Total	1.561	39,526	-37,965	3,881	42,096	-38,215	8,010	145,847		-23,922
979 Total	1,914	56,715	-54,801	5,621	59,998	-54,377	30,455	186,363	210,285	
980 Total	2,833	78,637	-75,803	7,982	82,924	-74,942	55,246	225,566	245,262	-19,696
	3,696	76,659	-72,963	10,279	81,360	-71,081	48,814	238,715	260,982	-22,267
981 Total	5,947	60,458	-54,511	12,729	65,409	-52,680	25,170	216,442	243,952	-27,510
982 Total	•	53,217	-48,659	9,500	57,952	-48,452	-3,957	205,639	258,048	-52,409
983 Total	4,557	56.924	-52,454	9,311	60,980	-51,669	-55,033	223,976	330,678	-106,703
984 Total	4,470			9,971	53,917	-43,946	-73,765	218,815	336,526	-117,712
985 Total		50,475	-45,768	8,115	37,310	-29,195	-109,084	227,159	365,438	-138,279
986 Total	3,640	35,142	-31,503			-36,506	-115,613	254,122	406,241	-152,119
987 Total	3,922	42,285	-38,363	7,713	44,220		-85,720	322,426	440,952	-118,526
988 Total	3,693	38,787	-35,094	8,235	41,042	-32,806		363,812	473,211	-109,399
1989 Total	5,021	49,704	-44,683	9,869	52,779	-42,910	-66,490		496,088	-102,496
990 Total	6,901	61,583	-54,682	12,233	64,661	-52,428	-50,068	393,592		-66,723
991 Total		51,350	-44,396	12,081	54,629	-42,548	-24,175	421,730	488,453	
992 Total		51,217	-44,805	11,254	55,256	-44,002	-40,500	448,164	532,665	-84,501
002 lonuon	601	4,282	-3,681	923	4,711	-3,788	-2,313	35,958	42,058	-6,101
1993 January		3,718	-3,241	807	4,075	-3,268	-2,478	36,070	41,817	-5,746
February		4,498	-4,028	753	4,904	-4,151	-4,596	41,999	50,745	-8,747
March		•	-4,225	844	5,194	-4,350	-4,081	39,421	47,851	-8,431
April		4,814	-3,978	939	4,990	-4,051	-2,410	39,870	46,331	-6,461
May		4,619		843	5.069	-4,226	-7,513	38,624	50,362	-11,738
June		4,714	-4,272			-4,026	-8,826	35,465	48,317	-12,852
July	514	4,464	-3,950	819	4,845	,	-8,022	36,876	48,611	-11,735
August	. 453	4,000	-3,547	714	4,426	-3,712	-8,802	37,956	50,526	-12,570
September	422	4,056	-3,634	712	4,480	-3,769			53,889	-12,742
October		4,449	-3,982	761	4,876	-4,115	-8,626	41,148	•	-11,140
November		4,084	-3,605	720	4,553	-3,833	-7,307	40,294	51,434	-7,307
December		3,348	-2,690	922	3,778	-2,856	-4,452	41,412	48,719	
Total		51,046	-44,831	9,756	55,900	-46,144	-69,425	465,091	580,659	-115,568
1994 January	. 452	3,114	-2,662	676	3,603	-2,927	-6,026	37,499	46,451	-8,950
February		3,298	-2,932	573	3,860	-3,287	-6,311	37,118	46,716	-9,598
		3,731	-3,279	728	4,229	-3,501	-5,259	45,904	54,663	-8,760
March		3,782	-3,366	645	4,276	-3,631	-6,212	41,715	51,558	-9,84
April		4.124	-3,644	718	4,594	-3,876	-7,018	42,211	53,105	-10,89
May		4,124	-4,390	740	5,269	-4,529	-9,338	43,428	57,295	-13,86
June		•	-4,390 -4,706	713	5,571	-4,858	-10,818	39,127	54,803	-15,67
July		5,152	•	713	5,624	-4,834	-10,837	43,610	59,281	-15,67
August		5,200	-4,703			-4,854 -4,471	-10,665	43,835	58.972	-15,13
September		4,813	-4,331	798	5,269	•	-13,051	45,243	62,100	-16,85
October		4,169	-3,645	807	4,614	-3,807		45,243 45,871	61,352	-15,48
November	476	4,480	-4,004	755	4,930	-4,175	-11,307		57,533	-10,57
December		4,128	-3,484	952	4,574	-3,622	-6,949	46,961		-151,30
Total		50,792	-45,144	8,895	56,412	-47,517	-103,791	512,521	663,829	-131,30
1995 January	488	4,129	-3,641	783	4,568	-3,785	-10,108	43,355	57,249	-13,89
February		3,909	-3,381	798	4,345	-3,547	<sup>R</sup> -6,908	<sup>R</sup> 44,863	<sup>R</sup> 55,318	R-10,45
		•	-4,159	879	•	-4,309	-6,840	52,703	63,852	-11,14
March 3-Month Total	··		-11,179	2,460		-11,640	-23,857	140,921	176,418	-35,49
		10,143	-8,873	1,977	11,692	-9,715	-17,596	120,521	147,830	-27,31
1994 3-Month Total				2,483		-11,206	-9,387	114,027	134,620	-20,59
1993 3-Month Total	1,549	12,498	-10,950	2,403	13,005	-11,200	0,001	,		•

R=Revised data.

Notes: • Monthly data are not adjusted for seasonal variations. • See Note 5 at end of section. • Totals may not equal sum of components due to independent rounding. • The U.S. import statistics reflect both government and nongovernment imports of merchandise from foreign countries into the

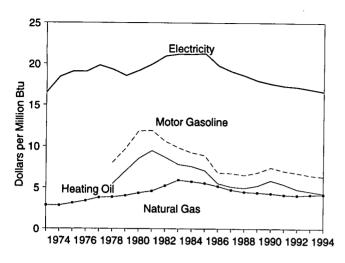
U.S. customs territory, which comprises the 50 States, the District of Columbia, Puerto Rico, and the Virgin Islands.

Sources:

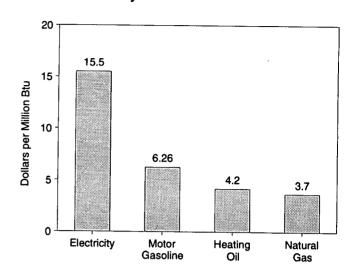
• U.S. Department of Commerce, Bureau of the Census, Foreign Trade Division. For details, see "Sources for Table 1.6" at the end of this section.

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

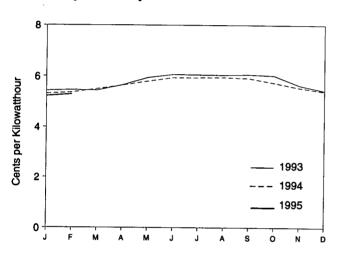




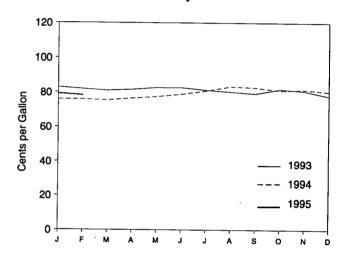
#### Costs, February 1995



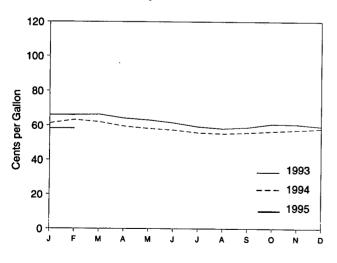
#### Electricity, Monthly



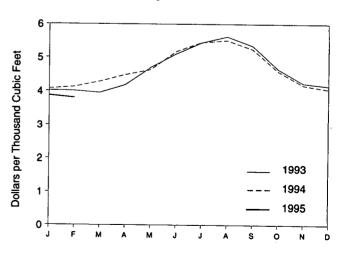
#### Motor Gasoline, Monthly



#### Heating Oil, Monthly



#### Natural Gas, Monthly



Source: Table 1.7.

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

	Consumer Price Index (Urban) <sup>a</sup>	Price Index Motor Gasoline			lential ng Oil		ential al Gas	Residential Electricity	
Ī						Cents per			
	index 1982-1984=100	Cents per Gallon	Dollars per Million Btu	Cents per Gallon	Dollars per Million Btu	Thousand Cubic Feet	Dollars per Million Btu	Cents per Kilowatthour	Dollars pe
	44.4	NA	NA	NA	NA	290.5	2.85	5.6	16.50
973 Average	44.4	NA NA	NA NA	NA NA	NA	290.1	2.83	6.3	18.43
974 Average	49.3	NA NA	NA NA	NA	NA	317.8	3.12	6.5	19.07
975 Average	53.8	NA NA	NA NA	NA NA	NA NA	348.0	3.41	6.5	19.06
976 Average	56.9	NA NA	NA NA	NA	NA NA	387.8	3.81	6.8	19.83
977 Average	60.6			75.2	5.42	392.6	3.86	6.6	19.33
978 Average	65.2	100.0	8.00		6.99	410.5	4.03	6.3	18.57
979 Average	72.6	121.5	9.71	97.0		446.6	4.36	6.6	19.21
980 Average	82.4	148.2	11.85	118.2	8.52		4.60	6.8	19.99
981 Average	90.9	148.8	11.90	131.4	9.47	471.9	5.22	7.2	20.96
982 Average	96.5	132.7	10.61	120.2	8.67	535.8			21.19
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	
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
	118.3	81.4	6.51	68.7	4.96	462.4	4.49	6.3	18.58
988 Average	124.0	85.5	6.83	72.6	5.23	454.8	4.41	6.1	17.96
989 Average	130.7	93.1	7.44	81.3	5.86	443.8	4.31	6.01	17.60
990 Average	136.2	87.8	7.02	74.8	5.39	427.3	4.14	5.91	17.32
991 Average			6.78	66.6	4.80	419.8	4.07	5.87	17.19
992 Average	140.3	84.8	0.70	00.0	4,00				
1993 January	142.6	82.9	6.63	66.1	4.77	401.8	3.91	5.43 5.46	15.93 16.00
February	143.1	81.9	6.55	66.1	4.77	400.4	3.90		15.94
March	143.6	81.0	6.48	66.4	4.79	394.8	3.84	5.44	
April	144.0	81.6	6.52	64.3	4.64	418.1	4.07	5.65	16.57
May	144.2	82.7	6.61	63.2	4.56	470.2	4.57	5.94	17.42
June	144.4	82.7	6.61	61.6	4.44	510.4	4.96	6.06	17.76
July	144.4	81.3	6.50	59.3	4.27	543.6	5.29	6.05	17.74
	144.8	80.3	6.42	58.1	4.19	561.5	5.46	6.04	17.69
August		79.3	6.34	58.9	4.25	534.1	5.20	6.06	17.77
September	145.7	81.9	6.55	60.9	4.39	466.0	4.53	6.02	17.64
October		80.8	6.46	60.7	4.38	423.2	4.12	5.64	16.52
November		77.9	6.23	59.4	4.28	415.6	4.04	5.43	15.92
December			6.49	63.0	4.55	426.3	4.15	5.77	16.92
Average	144.5	81.2	0.48	03.0	7.00	120.0			
1994 January	146.2	75.9	6.06	61.3	4.42	407.0	3.96	5.31	15.56
February		75.9	6.07	63.3	4.56	412.4	4.01	5.36	15.70
March		75.3	6.02	62.1	4.48	428.0	4.16	5.50	16.13
April		76.5	6.12	59.6	4.30	448.4	4.36	5.64	16.54
May		77.5	6.20	58.2	4.20	463.7	4.51	5.80	16.99
June		78.9	6.30	57.3	4.13	517.6	5.03	5.94	17.41
		80.8	6.46	55.7	4.01	544.5	5.30	5.94	17.42
July		83.4	6.67	55.2	3.98	550.3	5.35	5.95	17.45
August		82.8	6.62	55.7	4.02	524.1	5.10	5.92	17.36
September			6.48	56.5	4.08	459.5	4.47	5.74	16.82
October		81.1		50.5 57.2	4.00	R 417.5	R 4.06	5.55	16.27
November		81.6	6.53			R 405.5	R 3.94	5.40	15.82
December		80.4	6.43	58.0	4.18		4.20	5.67	16.63
Average	148.2	79.2	6.33	59.6	4.30	431.8	4.20	9.07	10.00
1995 January	150.3	79.2	6.33	58.2	4.19	<sup>R</sup> 387.2	3.77	5.22	15.31
February		78.3	6.26	58.3	4.20	380.4	3.70	5.29	15.50

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

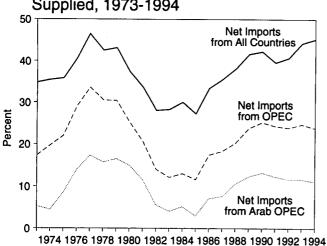
Sources: • Annual Data: Annual prices in Tables 9.4 (All Types), 9.8c, 9.11, and 9.9 (Monthly Series), adjusted by the CPI. • Monthly Data: Monthly prices in Tables 9.4 (All Types), 9.8c, 9.11, and 9.9 (Monthly Series), adjusted by the CPI. • CPI: 1973-1993—Economic Report of the President, February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

R=Revised data. NA=Not available.

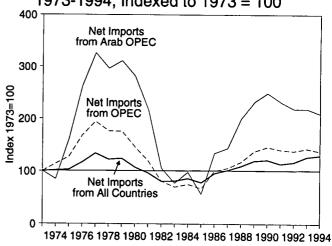
Notes: • Fuel costs are calculated by using the Urban Consumer Price Index (CPI) developed by the Bureau of Labor Statistics. • Annual averages may not equal average of months due to independent rounding. • Geographic coverage is the 50 States and the District of Columbia.

Figure 1.7 U.S. Dependence on Petroleum Net Imports

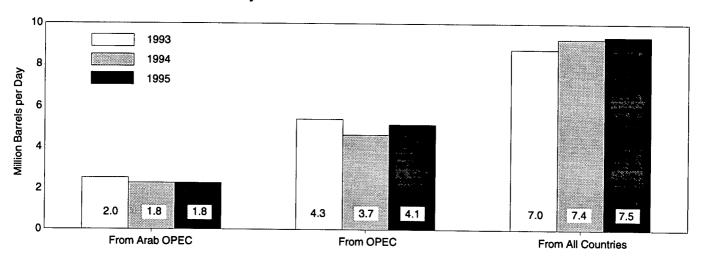
Net Imports as Share of Products Supplied, 1973-1994



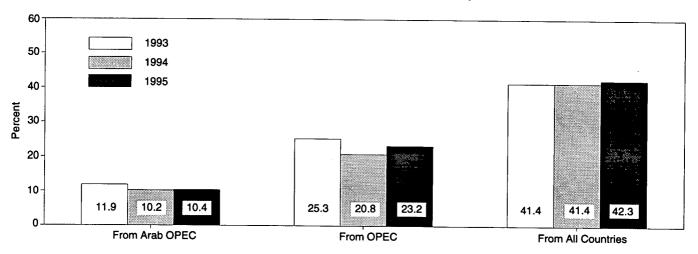
Net Imports as Share of Products Supplied, 1973-1994, Indexed to 1973 = 100



#### Net Imports of Petroleum, January-March



### Net Imports of Petroleum as Share of Products Supplied, January-March



Source: Table 1.8.

Table 1.8 U.S. Dependence on Petroleum Net Imports

		Net Imports <sup>a</sup>			Net Imports as Share of U.S. Petroleum Products Supplied			
	From Arab OPEC <sup>b</sup>	From OPEC°	From All Countries	Petroleum Products Supplied	From Arab OPEC <sup>b</sup>	From OPEC <sup>c</sup>	From All Countries	
		Thousand Ba	rrels per Day			Percent		
	914	2,991	6,025	17,308	5.3	17.3	34.8	
73 Average		3,277	5,892	16,653	4.5	19.7	35.4	
74 Average	752	3,599	5,846	16,322	8.5	22.0	35.8	
75 Average	1,382	5,063	7,090	17.461	13.9	29.0	40.6	
76 Average	2,423	6,190	8,565	18,431	17.3	33.6	46.5	
77 Average	3,184		8.002	18,847	15.7	30.5	42.5	
78 Average	2,962	5,747	7,985	18,513	16.5	30.4	43.1	
79 Average	3,056	5,633		17,056	14.9	25.2	37.3	
80 Average	2,549	4,293	6,365		11.5	20.6	33.6	
81 Average	1,844	3,315	5,401	16,058	5.6	14.0	28.1	
82 Average	852	2,136	4,298	15,296		12.1	28.3	
83 Average	630	1,843	4,312	15,231	4.1			
84 Average	817	2,037	4,715	15,726	5.2	13.0	30.0	
85 Average	470	1,821	4,286	15,726	3.0	11.6	27.3	
186 Average	1,160	2,828	5,439	16,281	7.1	17.4	33.4	
	1,272	3,053	5,914	16,665	7.6	18.3	35.5	
187 Average	1,837	3,513	6,587	17,283	10.6	20.3	38.1	
988 Average	2,128	4,124	7,202	17,325	12.3	23.8	41.6	
989 Average			7,161	16,988	13.2	25.2	42.2	
990 Average	2,243	4,285		16,714	12.3	24.3	39.6	
91 Average	2,057	4,065	6,626 6,938	17,033	11.6	23.9	40.7	
92 Average	1,972	4,071	0,530	17,000	11.0			
93 January	1,978	4,194	6,869	16,173	12.2	25.9	42.5	
February	2,132	4,477	6,915	17,334	12.3	25.8	39.9	
March	1,974	4,250	7,315	17,575	11.2	24.2	41.6	
April	2,181	4,586	7,701	16,781	13.0	27.3	45.9	
	2,030	4,273	7,581	16,508	12.3	25.9	45.9	
May		4,345	7,905	17,096	11.7	25.4	46.2	
June	2,004		8,218	17,357	11.0	25.4	47.3	
July	1,914	4,401		17,332	10.7	23.3	43.9	
August	1,859	4,036	7,600		11.1	22.6	43.2	
September	1,963	3,998	7,629	17,650	11.3	24.3	48.0	
October	1,961	4,208	8,316	17,323		23.3	44.6	
November	1,974	4,142	7,923	17,780	11.1		41.2	
December	1,983	4,144	7,394	17,953	11.0	23.1		
Average	1,995	4,253	7,618	17,237	11.6	24.7	44.2	
204 (anunn)	1,861	3,601	6,987	17,924	10.4	20.1	39.0	
994 January		3,805	7,619	18,302	9.4	20.8	41.6	
February	1,717		7,564	17,289	10.9	21.6	43.7	
March	1,881	3,739		17,428	12.0	25.0	46.2	
April	2,095	4,355	8,059		12.1	25.5	48.1	
May	2,060	4,351	8,226	17,094		25.2	47.1	
June	1,826	4,485	8,396	17,830	10.2	25.2 25.8	50.9	
July	2,111	4,516	8,901	17,474	12.1			
August	1,944	4,479	8,611	18,107	10.7	24.7	47.6	
September	2,125	4,356	8,635	17,469	12.2	24.9	49.4	
October	2,018	4,298	7,646	17,656	11.4	24.3	43.3	
November	1,929	4,147	7,527	17,340	11.1	23.9	43.4	
December	2,026	4,422	7,653	18,280	11.1	24.2	41.9	
Average	1,968	4,215	7,986	17,679	11.1	23.8	45.2	
•	•				0.5	22.2	40.6	
995 January	1,625	3,807	6,977	17,167	9.5		39.8	
February	1,894	4,096	7,296	18,355	10.3	22.3		
March	1,983	4,367	8,073	17,403	11.4	25.1	46.4	
3-Month Average	1,832	4,090	7,454	17,618	10.4	23.2	42.3	
				17,823	10.2	20.8	41.4	
994 3-Month Average	1,823	3,712	7,382					

a "Net Imports" are imports minus exports. Imports from members of the Organization of Petroleum Exporting Countries (OPEC) exclude indirect imports, which are petroleum products primarily from Caribbean and West European areas and refined from crude oil produced by OPEC.
b The Arab members of OPEC are Algeria, Iraq, Kuwait, Libya, Qatar,

imports from OPEC

Notes: • Beginning in October 1977, Strategic Petroleum Reserves are included. • Annual averages may not equal average of months due to independent rounding. • U.S. geographic coverage is the 50 States and the District of Columbia.

Sources: • Imports: Tables 3.3a-3.3h. • Exports: 1973-1976—U.S. Department of the Interior, Bureau of Mines, Mineral Industry Surveys. 1977-1980—Energy Information Administration (EIA), Energy Data Reports, "Petroleum Statement, Annual." 1981-1993—EIA, Petroleum Supply Annual. 1994—EIA, Petroleum Supply Monthly. • Petroleum Products Supplied: Table 3.1a.

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

OPEC.

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

Figure 1.8 Energy Consumption per Dollar of Gross Domestic Product

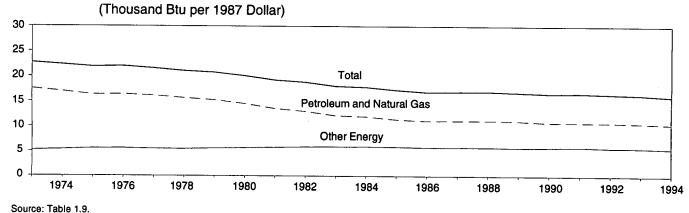


Table 1.9 Energy Consumption per Dollar of Gross Domestic Product (Seasonally Adjusted at Annual Rates)

<u>[</u>	Ene	rgy Consumptio	n	Gross	Energy Consumption per Dollar of GDP			
	Petroleum and Natural Gas	Other Energy	Totala	Domestic Product (GDP)	Petroleum and Natural Gas	Other Energy	Total	
		Quadrillion Btu		Billion 1987 Dollars	Thousand Btu per 1987 Dollar			
1973 Year	57.352	16.930	74.282	3,268.6	17.55	5.18	00.70	
1974 Year	55.187	17.356	72.543	3,248.1	16.99	5.16	22.73	
1975 Year	52.678	17.867	70.546	3,221.7	16.35	5.55	22.33	
1976 Year	55.520	18.842	74.362	3,380.8	16.42		21.90	
977 Year	57.053	19.236	76.288	3,533.3	16.15	5.57	22.00	
978 Year	57.966	20.123	78.089	3,703.5	15.65	5.44	21.59	
979 Year	57.789	21.108	78.898	3,796.8	15.22	5.43	21.09	
980 Year	54.596	21,359	75.955	3,776.3	14.46	5.56	20.78	
981 Year	51.859	22.131	73.990	3,843.1	13.49	5.66	20.11	
982 Year	48.736	22.111	70.848	3,760.3	13.49	5.76	19.25	
983 Year	47.411	23.114	70.524	3,906.6	12.14	5.88	18.84	
984 Year	49.558	24.586	74.144	4,148.5		5.92	18.05	
985 Year	48.756	25.225	73.981	4,146.5	11.95	5.93	17.87	
986 Year	48.904	25.393	74.297	4,279.8 4,404.5	11.39	5.89	17.29	
987 Year	50.609	26.285	76.894		11.10	5.77	16.87	
988 Year	52.774	27.443	80.218	4,539.9	11.15	5.79	16.94	
989 Year	53.595	27.731		4,718.6	11.18	5.82	17.00	
990 Year	52.849	28.416	81.325	4,838.0	11.08	5.73	16.81	
991 Year	52.452	28.665	81.265	4,897.3	10.79	5.80	16.59	
992 Year	53.657	28.487	81.116	4,867.6	10.78	5.89	16.66	
332 1601	55.657	20.407	82.144	4,979.3	10.78	5.72	16.50	
993 1 <sup>st</sup> Quarter	55.263	29.322	84.585	5,075.3	10.89	5.78	16.67	
2 <sup>nd</sup> Quarter	53.750	29.611	83.361	5,105.4	10.53	5.80	16.33	
3 <sup>rd</sup> Quarter	54.538	29.131	83.668	5,139.4	10.61	5.67	16.28	
4 <sup>th</sup> Quarter	55.180	28.722	83.902	5,218.0	10.57	5.50	16.08	
Year	54.682	29.195	83.877	5,134.5	10.65	5.69	16.34	
994 1 <sup>st</sup> Quarter	<sup>R</sup> 57.541	R 29.859	<sup>R</sup> 87.400	5,261.1	<sup>R</sup> 10.94	<sup>R</sup> 5.68	<sup>R</sup> 16.61	
2 <sup>nd</sup> Quarter	<sup>R</sup> 55.854	R 30.077	R 85.931	5,314,1	R 10.51	5.66	R 16.17	
3 <sup>rd</sup> Quarter	<sup>R</sup> 55.746	R 29.181	R 84.927	5,367.0	R 10.39	5.00 5.44	<sup>11</sup> 15.17	
4 <sup>th</sup> Quarter	<sup>R</sup> 54.795	R 29.084	R 83.879	5,433.8	R 10.08		15.82 R 46 44	
Year	<sup>R</sup> 55.976	R 29.547	R 85.523	5,344.0	R 10.47	5.35 <b>5.53</b>	<sup>R</sup> 15.44 <sup>R</sup> 16.00	

<sup>&</sup>lt;sup>a</sup> Excludes wood, waste, geothermal, wind, photovoltaic, and solar thermal energy, except for small amounts used by electric utilities to generate electricity for distribution.

R=Revised data.

Notes: • Quarterly data are seasonally adjusted and shown at annual rates. • Yearly data may not equal average of quarters due to seasonality adjustments and independent rounding. • Totals may not equal sum of

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

Sources: • Energy Consumption: Table 1.4. • Gross Domestic Product: 1973-1992—U.S. Department of Commerce, Bureau of Economic Analysis, Survey of Current Business, September 1994, Table 2. 1993 forward—U.S. Department of Commerce, Bureau of Economic Analysis, United States Department of Commerce News, April 28, 1995, Table 2.

**Passenger Car Efficiency** Figure 1.9

(Index, 1973 = 100)175 150 Fuel Rate 125 100 Mileage 75 **Fuel Consumption** 50 1993 1991 1989 1983 1985 1987

1981

1979

Table 1.10 Passenger Car Efficiency

1975

1973

1977

	Mileage		Fuel Cor	nsumption	Fuel Rate		
	Miles per Car	Index 1973=100.0	Gallons per Car	Index 1973=100.0	Miles per Gallon	Index 1973=100.0	
	10.056	100.0	771	100.0	13,30	100.0	
973	10,256	93.7	716	92.9	13.42	100.9	
974	9,606	93.7 94.5	716 716	92.9	13.52	101.7	
975	9,690	95.4	723	93.8	13.53	101.7	
976	9,785	96.3	716	92.9	13.80	103.8	
977	9,879	95.9	701	90.9	14.04	105.6	
978	9,835	95. <del>9</del> 91.7	653	84.7	14.41	108.3	
079	9,403	89.1	591	76.7	15.46	116.2	
980	9,141	89.6	576	74.7	15.94	119.8	
81	9,186		566	73.4	16.65	125.2	
82	9,428	91.9	553	71.7	17.14	128.9	
983	9,475	92.4		69.5	17.83	134.1	
984	9,558	93.2	536 505	68.1	18.20	136.8	
985	9,560	93.2	525 506	68.2	18.27	137.4	
986	9,608	93.7	526		19.20	144.4	
987	9,878	96.3	514	66.7	19.20	149.4	
988	10,121	98.7	509	66.0	20.31	152.7	
989	10,332	100.7	509	66.0		158.0	
990	10,548	102.8	502	65.1	21.02	163.1	
991	10,757	104.9	496	64.3	21.69		
992	11,100	108.2	512	66.4	21.68	163.0	
993 <sup>a</sup>	11,099	108.2	513	66.5	21.64	162.7	

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

	***	April	1 through A	pril 30		Cumulative July 1 through April 30				
Census				Percent	Change				Percent	Change
Divisions	Normal <sup>a</sup> 1994 1	1995	Normal to 1995	1994 to 1995	Normal <sup>a</sup>	1994	1995	Normal to 1995	1994 to 1995	
New England Connecticut, Maine, Massachusetts, New Hampshire,										
Rhode Island, Vermont	580	510	603	4.0	18.2	6,286	6,639	5,825	-7.3	-12.3
Middle Atlantic New Jersey, New York, Pennsylvania	484	387	509	5.2	31.5	5,608	5,837	5,105	-9.0	-12.5
East North Central Illinois, Indiana, Michigan, Ohio, Wisconsin	483	440	545	12.8	23.9	6,160	6,466	5,667	-8.0	-12.4
West North Central Iowa, Kansas, Minnesota, Missouri, Nebraska, North Dakota, South Dakota	438	459	531	21.2	15.7	6,404	6,718	5,906	-7.8	-12.1
South Atlantic Delaware, Florida, Georgia, Maryland and the District of Columbia, North Carolina, South Variotic,	100	440	100							
West Virginia	169	116	162	-4.1	39.7	2,840	2,813	2,507	-11.7	-10.9
East South Central Alabama, Kentucky, Mississippi, Tennessee	187	158	186	5	17.7	3,522	3,606	3,091	-12.2	-14.3
West South Central Arkansas, Louisiana, Oklahoma, Texas	75	96	109	(°)	(°)	2,296	2,358	1,979	-13.8	-16.1
Mountain Arizona, Colorado, Idaho, Montana, Nevada, New Mexico, Utah, Wyoming	433	385	472	9.0	22.6	5,011	4,840	4,684	-6.5	-3.2
Pacific <sup>b</sup> California, Oregon, Washington	312	265	315	1.0	18.9	2,983	2,804	2,940	-1.4	4.9
U.S. Average <sup>b</sup>	339	296	366	8.0	23.6	4,390	4,488	4,025	-8.3	-10.3

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.

 $<sup>^{\</sup>rm C}$  Percent change is not meaningful: normal is less than 100 or ratio is incalculable.

Table 1.12 Cooling Degree-Days by Census Division

		April :	1 through A	pril 30				Cumulative / 1 through		
Census		-		Percent	Change				Percent	Change
Divisions	Normala	1994	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	o	(°)	(°)	0	0	o	(°)	(°)
Aiddle Atlantic New Jersey, New York, Pennsylvania	0	3	0	(°)	(°)	0	3	0	(°)	(°)
East North Central Illinois, Indiana, Michigan, Ohio, Wisconsin	1	13	0	(°)	(°)	2	13	0	(°)	(°)
West North Central Iowa, Kansas, Minnesota, Missouri, Nebraska, North Dakota, South Dakota	8	14	2	(°)	(°)	11	14	2	(°)	(°)
iouth Atlantic Delaware, Florida, Georgia, Maryland and the District of Columbia, North Carolina, South Carolina, Virginia,										
West Virginia	72	125	99	(°)	(°)	176	240	188	6.8	-21.7
ast South Central Alabama, Kentucky, Mississippi, Tennessee	34	66	39	(°)	(°)	64	70	48	(°)	(°)
Vest South Central Arkansas, Louisiana, Oklahoma, Texas	109	111	80	-26.6	-27.9	179	143	125	-30.2	-12.6
lountain Arizona, Colorado, Idaho, Montana, Nevada, New Mexico, Utah, Wyoming	31	29	12	(°)	(°)	41	30	13	(°)	(°)
Pacific <sup>b</sup> California, Oregon, Washington	12	0	0	(°)	(°)	18	0	0	(°)	(°)
J.S. Average <sup>b</sup>	31	43	29	(°)	(°)	60	68	51	(°)	(°)

<sup>&</sup>lt;sup>a</sup> "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 averager 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.

<sup>&</sup>lt;sup>c</sup> 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 alongside ship (f.a.s.) basis.
- "Balance" is exports minus imports; a positive balance indicates a surplus trade value and a negative balance indicates a deficit trade value. "Energy" includes mineral

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

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

#### **Sources for Table 1.6**

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

- Petroleum Exports—1974-1987: "U.S. Exports," FT410, December issues. 1988: "Report on U.S. Merchandise Trade, 1988 Final Revisions." 1989: "Report on U.S. Merchandise Trade, 1989 Revisions." 1990: "U.S. Merchandise Trade, 1990 Final Report." 1991: "U.S. Merchandise Trade, 1991 Final Report," May 13, 1992. 1992: "U.S. Merchandise Trade, 1992 Final Report," May 12, 1993. 1993: "U.S. International Trade in Goods and Services, Annual Revision for 1993." 1994: "U.S. International Trade in Goods and Services," 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," 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," 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. 1991-1992: "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," 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 February 1995 was 7.4 quadrillion Btu. Petroleum products accounted for 37 percent<sup>1</sup> of the energy consumed in February 1995, while natural gas accounted for 31 percent and coal accounted for 21 percent.

Residential and commercial sector consumption was 3.0 quadrillion Btu in February 1995, down 4 percent from the February 1994 level. The sector accounted for 41 percent of February 1995 total consumption, down 1 percentage point from its 42-percent share in February 1994.

Industrial sector consumption was 2.6 quadrillion Btu in February 1995, up 2 percent from the February 1994 level. The industrial sector accounted for 35 percent of February 1995 total consumption, up 1 percentage point from its 34-percent share in 1994.

Transportation sector consumption of energy was 1.8 quadrillion Btu in February 1995, up 1 percent from the February 1994 level. The sector accounted for 24 percent of February 1995 total consumption, about the same share as in February 1994.

Electric utility consumption of energy totaled 2.4 quadrillion Btu in February 1995, up 1 percent from the February 1994 level. Coal contributed 55 percent of the energy consumed by electric utilities in February 1995, while nuclear electric power contributed 23 percent; hydroelectric 11 percent; natural gas 7 percent; petroleum 3 percent; and geothermal, wood, waste, wind, photovoltaic, and solar thermal energy, less than 1 percent.

Table 2.1 Energy Consumption Summary for February 1995 (Quadrillion Btu)

		End-Us		]			
Energy Source	Residential and Commercial	Industrial	Transportation	Totala	Electric Utilities	Total	
Coal	0.014	0.201	(b)	0.214	1.323	1.537	
Natural Gas <sup>c</sup>	1.207	.837	.070	2.113	.172	2.285	
Petroleum Productsd	.220	.757	1.708	2.685	.075	2.760	
Nuclear Electric Power	_	_			.554	.554	
Hydroelectric Powere	-	.003	_	.003	.274	.276	
Geothermal	-	-	-	_	.006	.006	
Net Imports of Coal Coke	-	.002	_	.002	_	.002	
Other <sup>†</sup>	-	_	_	_	.001	.001	
Primary Consumption	1.440	1.800	1.778	5.016	2.406	7.422	
Electricity	.542	.270	.001	.813	_	-	
Net Consumption	1.982	2.071	1.779	5.829	_	_	
Electrical System Energy Losses	1.061	.529	.002	1.592	_ :	_	
Total Consumption9	3.043	2.600	1.781	7.422	_	_	

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 transcrations.

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

<sup>&</sup>lt;sup>b</sup> Small amounts of coal consumed for transportation are reported as industrial sector consumption.

 $<sup>^{\</sup>rm C}$  Includes supplemental gaseous fuels. Transportation sector is pipeline fuel only.

<sup>&</sup>lt;sup>d</sup> Products obtained from the processing of crude oil (including lease condensate), natural gas, and other hydrocarbon compounds.

Includes net imports of electricity.

<sup>&</sup>lt;sup>f</sup> "Other" is electricity generated for distribution from wood, waste, wind, photovoltaic, and solar thermal energy.

<sup>&</sup>lt;sup>9</sup> 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.

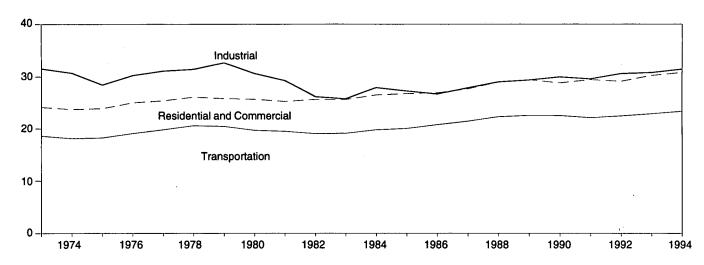
<sup>- =</sup>Not applicable. (s)=Less than +0.5 trillion Btu and greater than -0.5 trillion Btu.

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

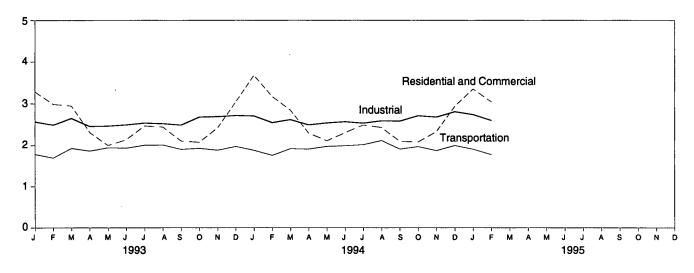
<sup>&</sup>lt;sup>1</sup>Percentage changes are based on numbers in the following tables.

**Energy Consumption by End-Use Sector** Figure 2.1

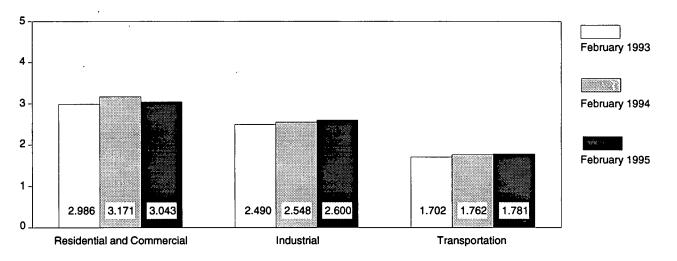
#### Overview, 1973-1994



#### Overview, Monthly



#### Overview, February



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

Source: Table 2.2.

Table 2.2 Energy Consumption by End-Use Sector

	Residential and Commercial			ıstrial	114110	portation	-	
	Net	Total	Net	Total	Net	Total	Net	Total <sup>a</sup>
973 Total	15.766	24.143	25.917	31.528	18.584	18.605	60,274	74.282
974 Total	15.246	23.725	24.994	30.694	18.095	18.117	58.341	72.543
975 Total	15.200	23.899	22.737	28.402	18.219	18.244	56.157	70.546
976 Total	15.997	25.018	24.038	30.236	19.076	19.101	59.119	74.362
977 Total	15.828	25.384	24.593	31.077	19.794	19.819	60.223	76.288
978 Total	16.023	26.084	24.637	31.392	20.589	20.611	61.251	78.089
979 Total	15.709	25.808	25.679	32.616	20.447	20.472	61.836	78.898
980 Total	15.075	25.655	23.854	30.606	19.669	19.695	58.597	75.955
981 Total	14.541	25.241	22.533	29.240	19.480	19.507	56.556	73.990
982 Total	14.629	25.629	20.020	26.145	19.043	19.069	53.697	70.848
983 Total	14.395	25.627	19.401	25.759	19.109	19.135	52.907	70.524
984 Total	14.964	26.474	21.184	27.867	19.773	19.801	55.923	74.144
985 Total	14.839	26,704	20.520	27.214	20.036	20.067	55.391	73.981
986 Total	14.791	26.852	20.101	26.630	20.781	20.812	55.676	74.297
987 Total	15.146	27.623	21.116	27.826	21.419	21.448	57.678	76.894
988 Total	16.004	28.925	22.085	28.986	22.274	22.305	60.366	80.218
		29.404		29.353		22.561	61.070	81.325
989 Total	16.261		22.272		22.530			
990 Total	15.568 15.986	28.786	22.841 22.549	29.936	22.504 22.090	22.535	60.921	81.265
991 Total		29.424		29.570		22.120	60.626	81.116
992 Total	16.090	29.100	23.498	30.577	22.432	22.461	62.025	82.144
993 January	2.081	3.286	2.007	2.569	1.785	1.787	5.871	7.640
February	1.946	2.986	1.965	2.490	1.700	1.702	5.609	7.175
March	1.859	2.947	2.085	2.650	1.928	1.931	5.871	7.526
April	1.380	2.315	1.916	2.456	1.866	1.868	5.159	6.637
May	1.012	2.000	1.858	2.464	1.943	1.945	4.811	6.406
June	.982	2.140	1.855	2.494	1.933	1.935	4.771	6.570
July	1.058	2.466	1.894	2.539	2.003	2.006	4.960	7.015
August	1.058	2.442	1.887	2.524	2.008	2.011	4.958	6.981
September	1.013	2.108	1.951	2.489	1.903	1.906	4.868	6.503
October	1.078	2.079	2.107	2.679	1.928	1.930	5.111	6.687
November	1.398	2.422	2.105	2.692	1.884	1.886	5.387	7.000
December	1.870	3.043	2.124	2.719	1.974	1.976	5.966	7.737
Total	16.734	30.231	23.756	30.766	22.856	22.883	63.341	83.877
994 January	R 2.368	<sup>R</sup> 3.673	R 2.130	<sup>R</sup> 2.707	1.882	1.884	<sup>R</sup> 6.379	R 8.263
February	R 2.102	R 3.171	R 2.037	R 2.548	R 1.760	R 1.762	<sup>R</sup> 5.896	<sup>R</sup> 7.478
March	<sup>R</sup> 1.755	<sup>R</sup> 2.844	R 2.047	<sup>R</sup> 2.620	<sup>R</sup> 1.920	1.922	<sup>R</sup> 5.718	<sup>R</sup> 7.383
April	R 1.323	R 2.297	R 1.937	R 2.494	1.910	1.912	<sup>R</sup> 5.166	R 6.699
May	1.074	2.113	R 1.922	R 2.541	1.975	R 1.978	R 4.969	R 6.629
June	<sup>R</sup> 1.038	R 2.307	R 1.915	<sup>R</sup> 2.570	1.990	R 1.993	<sup>R</sup> 4.946	R 6.872
July	<sup>R</sup> 1.097	R 2.490	R 1.912	R 2.536	2.018	R 2.021	R 5.030	R 7.049
August	<sup>R</sup> 1.092	<sup>R</sup> 2.429	R 1.945	R 2.591	R 2.119	2.121	<sup>R</sup> 5.158	R7.144
September	1.006	2.101	R 2.020	<sup>R</sup> 2.585	1.911	1.913	<sup>R</sup> 4.936	R 6.598
October	1.063	2.087	R 2.124	<sup>R</sup> 2.715	R 1.972	R 1.974	R 5.157	R 6.774
November	R 1.309	R 2.334	R 2.089	R 2.682	R 1.875	R 1.877	R 5.269	R 6.889
December	<sup>R</sup> 1.776	R 2.938	R 2.215	_R 2.810	1.998	R 2.001	<sup>R</sup> 5.986	R 7.745
Total	R 17.004	R 30.783	R 24.293	R 31.399	P 23.330	R 23.358	R 64.610	R 85.523
995 January	<sup>R</sup> 2.123	R 3.352	R 2.161	<sup>R</sup> 2.743	R 1.909	<sup>R</sup> 1.911	R <sub>6.191</sub>	R 8.004
February	1.982	3.043	2.071	2.600	1.779	1.781	5.829	
2-Month Total	4.105	6.395	4.232	5.342	3.688	3.692	5.829 <b>12.021</b>	7.422 <b>15.426</b>
004 2 Month Total	4 470	6 044	4 407	£ 000	2.040	2.22	•	40 744
994 2-Month Total 993 2-Month Total	4.470 4.027	6.844 6.271	4.167 3.972	5.255 5.058	3.642 3.485	3.647 3.489	12.274 11.480	15.741 14.815

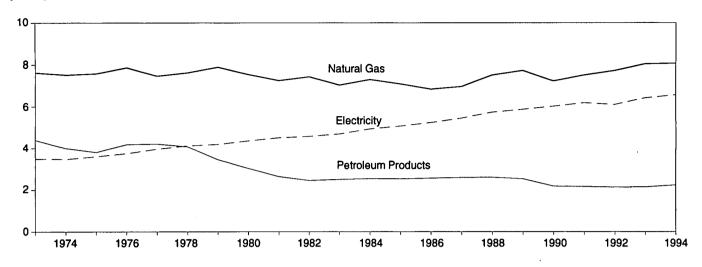
<sup>&</sup>lt;sup>a</sup> Due to a lack of consistent historical data, some renewable energy sources are not included. For example, in 1992, 3.0 quadrillion Btu of renewable energy consumed by U.S. electric utilities to generate electricity for distribution is included, but an estimated 3.0 quadrillion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

R=Revised data.

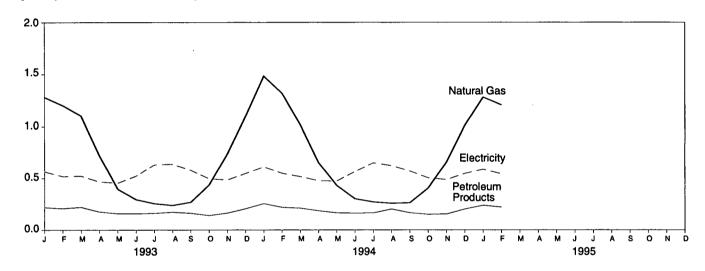
Notes: • Totals may not equal sum of components due to independent rounding and the use of sector-specific conversion factors for natural gas and coal. • Geographic coverage is the 50 States and the District of Columbia. Additional Notes and Sources: See end of section.

Figure 2.2 Residential and Commercial Energy Consumption

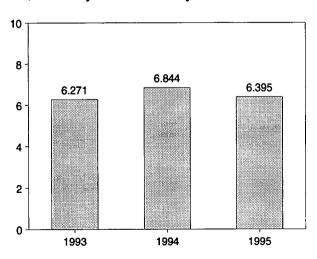
By Major Sources, 1973-1994



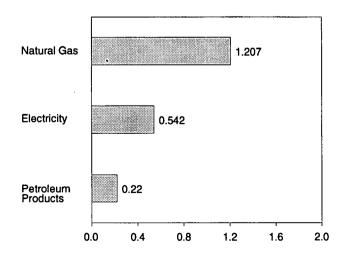
#### By Major Sources, Monthly



Total, January and February



By Major Sources, February 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 <sup>a</sup>	Petroleum Products <sup>b</sup>	Primary Consumption	Electricity	Net Consumption	Electrical System Energy Losses	Total Consumption <sup>c</sup>
1973 Total	0.254	7.626	4.391	12.270	3.495	15.766	8.377	24.143
1974 Total		7.518	3.996	11.771	3.475	15.246	8.480	
1975 Total		7.516 7.581	3.805	11.595				23.725
1976 Total		7.866	4.181	12.250	3.604	15.200	8.700	23.899
1977 Total		7.461	4.206		3.747	15.997	9.021	25.018
1977 Total		7.461 7.624	4.206 4.070	11.873	3.955	15.828	9.556	25.384
				11.908	4.116	16.023	10.061	26.084
1979 Total		7.891	3.448	11.525	4.184	15.709	10.100	25.808
1980 Total		7.540	3.035	10.721	4.355	15.075	10.580	25.655
1981 Total		7.243	2.634	10.043	4.497	14.541	10.700	25.241
1982 Total		7.427	2.449	10.063	4.566	14.629	11.000	25.629
1983 Total		7.024	2.498	9.715	4.680	14.395	11.232	25.627
1984 Total		7.292	2.535	10.036	4.928	14.964	11.510	26.474
1985 Total	.176	7.079	2.522	9.777	5.061	14.839	11.865	26.704
1986 Total	.176	6.825	2.555	9.556	5.235	14.791	12.061	26.852
1987 Total	.162	6.954	2.587	9.703	5.443	15.146	12.477	27.623
1988 Total	.168	7.513	2.600	10.280	5.724	16.004	12.920	28.925
1989 Total		7.731	2.525	10.402	5.859	16.261	13.143	29,404
1990 Total		7.225	2.173	9.553	6.015	15.568	13.218	28.786
1991 Total	.141	7.510	2.154	9.805	6.180	15.986	13.439	29.424
1992 Total		7.726	2.126	9.993	6.096	16.090	13.010	29.100
				0.000	0.000	10.000	10.010	23.100
1993 January	.015	1,281	.219	1.516	.565	2.081	1,204	3.286
February		1.204	.209	1.428	.518	1.946	1.040	2.986
March	.012	1.104	.221	1.337	.522	1.859		
April		.724	.176	.914	.466		1.088	2.947
May		.395	.176			1.380	.935	2.315
•	.010	.295		.559	.453	1.012	.987	2.000
June			.157	.461	.521	.982	1.157	2.140
July		.256	.161	.427	.632	1.058	1.408	2.466
August	.009	.238	.172	.419	.639	1.058	1.384	2.442
September	.007	.269	.161	.436	.577	1.013	1.095	2.108
October	.009	.435	.138	.583	.495	1.078	1.002	2.079
November	.015	.738	.163	.916	.483	1.398	1.024	2.422
December	.021	1.098	.205	1.324	.546	1.870	1.174	3.043
Total	.143	8.039	2.136	10.318	6.416	16.734	13.497	30.231
1994 January	.020	<sup>R</sup> 1.482	.255	<sup>R</sup> 1.757	.611	<sup>R</sup> 2.368	1.305	<sup>R</sup> 3.673
February	.016	R 1.319	.218	R 1.553	.548	R 2.102	1.069	R 3.171
March	.012	P 1.018	.210	R 1.240	.515	R 1.755	1.089	<sup>R</sup> 2.844
April	.011	R .653	.185	R .849	.475	R 1.323		R 2.297
May	.008	.429	.165	.602	.475 .472	1.074	.974	
June	.009	9 .301		.602 R .472			1.039	2.113
July	.009	R .271	.162	R .445	.565	R 1.038	1.269	R 2.307
		B 050	.164	".445 B.400	.652	<sup>R</sup> 1.097	1.393	R 2.490
August	.009	R .258	.201	R .468	.624	R 1.092	1.337	<sup>R</sup> 2.429
September	.007	.263	.166	.436	.570	1.006	1.095	2.101
October	.008	.403	.150	R.561	.503	1.063	1.024	2.087
November	.013	R .658	.153	R .823	.486	R 1.309	1.025	R 2.334
December	.019	R 1.011	.201	<sup>R</sup> 1.230	.546	<sup>R</sup> 1.776	1.162	R 2.938
Total	.142	<sup>R</sup> 8.065	2.230	<sup>R</sup> 10.437	6.567	R 17.004	13.780	<sup>R</sup> 30.783
995 January	.016	1.280	.238	<sup>R</sup> 1.535	.588	<sup>R</sup> 2.123	1.229	<sup>R</sup> 3.352
February	.014	1.207	.220	1.440	.542	1.982	1.061	3.043
2-Month Total	.030	2.487	.458	2.975	1.130	4.105	2.290	6.395
994 2-Month Total	.036	2.801	.473	3.310	1.159	4.470	2.374	6.844

sectors (primarily the residential sector) is not included. R=Revised data.

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

Additional Notes and Sources: See end of section.

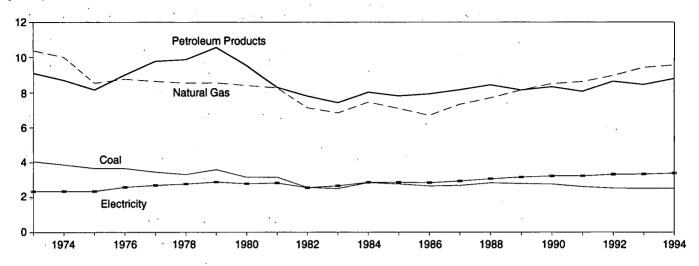
a Includes supplemental gaseous fuels.
 b Products obtained from the processing of crude oil (including lease condensate), natural gas, and other hydrocarbon compounds.

C Due to a lack of consistent historical data, some renewable energy

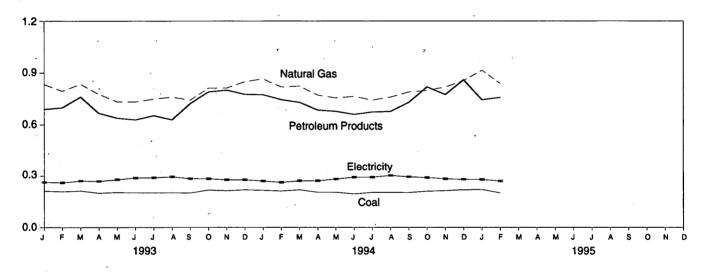
sources are not included. For example, in 1992, an estimated 0.7 quadrillion Btu of renewable energy consumed by the U.S. residential and commercial

Figure 2.3 Industrial Energy Consumption

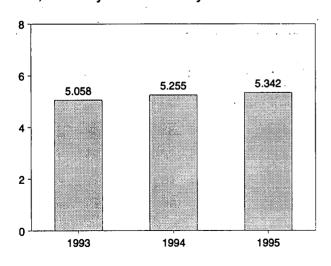
#### By Major Sources, 1973-1994



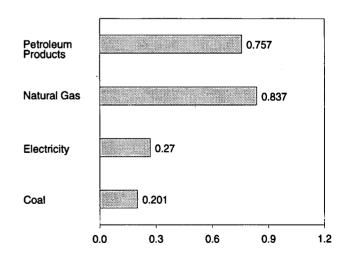
#### By Major Sources, Monthly



Total, January and February



By Major Sources, February 1995



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

Table 2.4 Industrial Energy Consumption

	Coal	Natural Gas <sup>a</sup>	Petroleum Products <sup>b</sup>	Hydro- electric Power	Net Imports of Coal Coke	Primary Consumption	Electricity	Net Consumption	Electrical System Energy Losses	Total Consumption <sup>c</sup>
1973 Total	4.057	10.388	9.104	0.035	-0.007	23.576	2.341	25.917	5.611	31.528
1974 Total	3.870	10.004	8.694	.033	.056	22.657	2.337	24.994	5.700	30.694
1975 Total	3.667	8.532	8.146	.032	.036	20.391	2.346	22.737	5.665	28.402
1976 Total	3.661	8.762	9.010	.032	(8)	21.465	2.573	24.038	6.198	30.236
	3.454			.033						
1977 Total	3.454	8.635 8.539	9.774 9.867		.015	21.911	2.682	24.593	6.484	31.077
1978 Total				.032	.125	21.876	2.761	24.637	6.755	31.392
1979 Total	3.593	8.549	10.568	.034	.063	22.807	2.873	25.679	6.936	32.616
1980 Total	3.155	8.395	9.525	.033	035	21.073	2.781	23.854	6.752	30.606
1981 Total	3.157	8.257	8.285	.033	016	19.715	2.817	22.533	6.707	29.240
1982 Total	2.552	7.121	7.794	.033	022	17.479	2.542	20.020	6.125	26.145
1983 Total	2.490	6.826	7.420	.033	016	16.753	2.648	19.401	6.359	25.759
1984 Total	2.842	7.448	8.014	.033	011	18.325	2.859	21.184	6.683	<b>27.867</b>
1985 Total	2.760	7.080	7.805	.033	013	17.665	2.855	20.520	6.694	27.214
1986 Total	2.640	6.690	7.920	.033	017	17.267	2.834	20.101	6.529	26.630
1987 Total	2.673	7.323	8.150	.033	.009	18.188	2.928	21.116	6.710	27.826
1988 Total	2.828	7.696	8.430	.033	.040	19.026	3.059	22.085	6.901	28.986
1989 Total	2.787	8.131	8.133	.033	.030	19.113	3.158	22.272	7.082	29.353
1990 Total	2.756	8.502	8.319	.033	.005	19.615	3.226	22.841	7.095	29.936
1991 Total	2.601	8.619	8.057	.033	.009	19.319	3.230	22.549	7.021	29.570
1992 Total	2.515	8.967	8.638	.033	.027	20.180	3.319	23.498	7.079	30.577
1993 January	.213	.833	.690	.003	.004	1.743	.264	2.007	.562	2.569
February	.209	.795	.699	.003	(s)	1.704	.261	1.965	.524	2.490
March	.213	.834	.760	.003	.003	1.814	.271	2.085	.566	2.650
April	.200	.776	.666	.003	.002	1.647	.269	1.916	.540	2.456
May	.204	.732	.638	.003	.002	1.580	.278	1.858	.606	2.464
June	.202	.732	.628	.003	.003	1.568	.288	1.855	.639	2.494
July	.202	.748	.652	.003	.505 (s)	1.605	.289	1.894	.645	2.539
August	.202	.759	.628	.002	.002	1.593	.294	1.887	.637	2.524
September	.201	.742	.722	.002	001	1.667	.284	1.951	.539	2.489
October	.218	.812	.790	.002	.001	1.824	.283	2.107		
			.800						.572	2.679
November	.214	.812		.002	(s)	1.828	.277	2.105	.587	2.692
December	.219	.849	.776	.002	.002	1.847	.277	2.124	.595	2.719
Total	2.496	9.423	8.453	.032	.017	20.422	3.334	23.756	7.010	30.766
1994 January	.216	<sup>R</sup> ∴864	.773	.003	.004	<sup>R</sup> 1.859	.270	R 2.130	.577	R 2.707
February	.212	<sup>R</sup> .818	.744	.003	001	<sup>R</sup> 1.775	.262	R 2.037	.511	R 2.548
March	219	H.823	.729	.003	.002	R 1.775	.271	R 2.047	.574	P 2.620
April	R .205	R .771	.684	.003	.003	R 1.666	.271	R 1.937	.557	R 2.494
May	R .205	R .754	.677	.003	.002	R 1.641	.281	R 1.922	.619	R 2.541
June	R.195	R .763	.659	.003	.002	R 1.623	.292	R 1.915	.655	R 2.570
July	.204	R.741	.673	.003	.003 (s)	R 1.620	.292	R 1.912	.624	B 2.536
August	.204	R .759	.676	.003	.002	R 1.644	.302	R 1.945	.646	R 2.591
September	.203	P .789	.728	.002	.002	R 1.725	.302	R 2.020		R 2.585
October	.203	R .798	.726 .818	.002	.003	R 1.834	.294	R 2.124	.565	2.585 8 0.745
	.214	9.817				R 1.807		2.124 Bo 000	.591	<sup>A</sup> 2.715
November December	.214	R .854	.774 .859	.002	001	"1.807 _R 1.936	.282	<sup>R</sup> 2.089 _ <sup>R</sup> 2.215	.593	R 2.682
Total	2.506	R 9.551	.859 <b>8.794</b>	.002 . <b>032</b>	.002 . <b>024</b>	R 20.907	.279 <b>3.386</b>	R 24.293	.594 <b>7.105</b>	R 2.810
100E lonuar	.220	R .914	.743	000	004					_
1995 January				.003	.004	R 1.883	.278	R 2.161	.581	R 2.743
February	.201	.837	.757	.003	.002	1.800	.270	2.071	.529	2.600
2-Month Total	.421	1.751	1.500	.006	.006	3.684	.548	4.232	1.111	5.342
1994 2-Month Total 1993 2-Month Total	.428 .422	1.682 1.627	1.517 1.389	.006 .006	.003 .004	3.635 3.447	.532 .525	4.167 3.972	1.088 1.086	5.255 5.058

Additional Notes and Sources: See end of section.

 $<sup>^{\</sup>rm a}$  includes supplemental gaseous fuels.  $^{\rm b}$  Products obtained from the processing of crude oil (including lease

condensate), natural gas, and other hydrocarbon compounds.

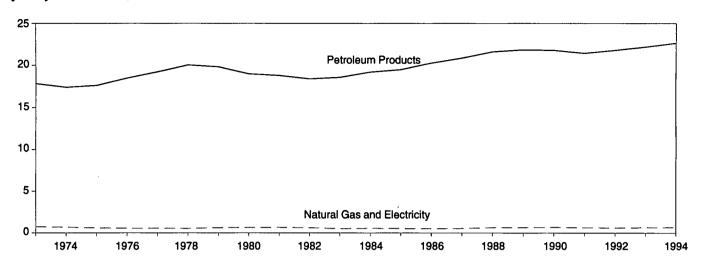
<sup>c</sup> Due to a lack of consistent historical data, some renewable energy sources are not included. For example, in 1992, an estimated 2.3 quadrillion Btu of renewable energy consumed by the U.S. industrial sector (primarily the pulp and paper industry) is not included.

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

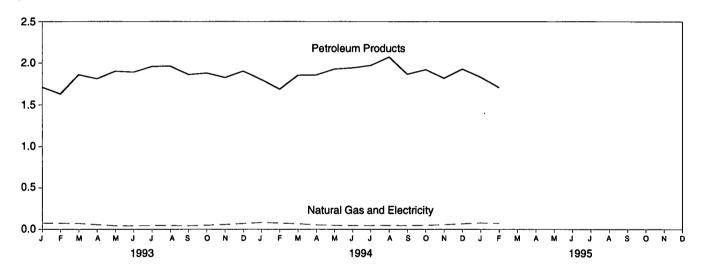
Totals may not equal sum of components due to independent Geographic coverage is the 50 States and the District of Notes: • rounding. • Columbia.

Figure 2.4 Transportation Energy Consumption

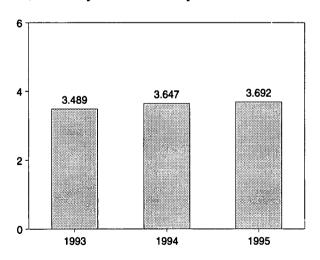
# By Major Sources, 1973-1994



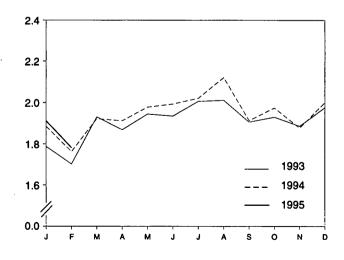
# By Major Sources, Monthly



Total, January and February



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 <sup>a</sup>	Petroleum Products <sup>b</sup>	Primary Consumption	Electricity	Net Consumption	Electrical System Energy Losses	Total Consumption <sup>c</sup>
4070 Tatal	0.003	0.743	17.831	18.576	0.008	18.584	0.020	18.605
1973 Total 1974 Total	.002	.685	17.399	18.086	.009	18.095	.022	18.117
1975 Total	.002	.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	( <sup>8</sup> )	.539	20.041	20.580	.009	20.589	.022	20.611
1979 Total	\a\	.612	19.825	20.436	.010	20.447	.025	20.472
	}a{	.650	19.008	19.658	.011	19.669	.026	19.695
1980 Total	\a\	.658	18.811	19.469	.011	19.480	.026	19.507
1981 Total	\a\	.612	18.420	19.032	.011	19.043	.026	19.069
1982 Total	\a\	.505	18.593	19.032	.011	19.109	.026	19.135
1983 Total	}a{		19.216	19.761	.012	19.773	.028	19.801
1984 Total	\a\	.545	19.504	20.024	.012	20.036	.030	20.067
1985 Total	(4)	.519			.013	20.781	.031	20.812
1986 Total	(3)	.499	20.269	20.768			.029	21.448
1987 Total	(3)	.535	20.871	21.406	.013	21.419	.029	22,305
1988 Total	(3)	.632	21.629	22.260	.014	22.274		22.561
1989 Total		.649	21.868	22.517	.014	22.530	.031	-
1990 Total	(4)	.680	21.810	22.490	.014	22.504	.031 .030	22.535 22.120
1991 Total		.620	21.456	22.076	.014	22.090		
1992 Total	(°)	.606	21.812	22.418	.014	22.432	.029	22.461
1993 January	( d )	.074	1.710	1.784	.001	1.785	.002	1.787
February	(b)	.070	1.629	1.699	.001	1.700	.002	1.702
March	(a)	.069	1.859	1.927	.001	1.928	.002	1.931
April	(d)	.053	1.812	1.865	.001	1.866	.002	1.868
May	(a)	.040	1.902	1.942	.001	1.943	.002	1.945
June	(d)	.040	1.891	1.931	.001	1.933	.002	1.935
July	(4)	.042	1.960	2.002	.001	2.003	.003	2.006
August	(a)	.043	1.965	2.007	.001	2.008	.003	2.011
September	(d)	.040	1.862	1.902	.001	1.903	.002	1.906
October	(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	1.972	.001	1.974	.002	1.976
Total	(°)	.642	22.201	22.842	.013	22.856	.028	22.883
1994 January	(d)	.080	1.801	1.881	.001	1.882	.002	1.884
February	}d{	B 073	1.687	<sup>R</sup> 1.759	.001	R 1.760	.002	R 1.762
March	}d{	P.065	1.854	R 1.919	.001	<sup>R</sup> 1.920	.002	1.922
April	}d{	R .052	1.857	1.909	.001	1.910	.002	1.912
May	} <b>d</b> {	R .045	1.930	1.974	.001	1.975	.002	<sup>R</sup> 1.978
June	}d{	.044	1.945	1.989	.001	1.990	.003	<sup>R</sup> 1.993
July	}d{	.044	1.973	2.017	.001	2.018	.003	R 2.021
August	}a{	R .045	2.073	R 2.118	.001	R 2.119	.003	2.121
September	}d{	.043	1.867	1.910	.001	1.911	.002	1.913
October	}d{	R .047	1.924	1.970	.001	R 1.972	.002	R 1.974
November		.054	1.819	R 1.874	.001	R 1.875	.002	R 1.877
December	\ <u>a</u> {	P.066	1.931	1.997	.001	1.998	.002	R 2.001
Total	(6)	R .657	22.661	R 23.317	.013	R 23.330	.028	R 23.358
1005 lanuani	/ d )	<sup>R</sup> .076	1.832	R 1.908	.001	R 1.909	.002	<sup>R</sup> 1.911
1995 January	\ <del>a</del> \	.070	1.708	1.778	.001	1.779	.002	1.781
February 2-Month Total	(d)	.147	3.539	3.686	.001	3.688	.002	3.692
	, ,					0.040	204	0.047
1994 2-Month Total 1993 2-Month Total	(4)	.153 .143	3.487 3.339	3.640 3.483	.002 .002	3.642 3.485	.004 .004	3.647 3.489

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

Additional Notes and Sources: See end of section.

<sup>&</sup>lt;sup>a</sup> Pipeline fuel only, including supplemental gaseous fuels.

<sup>b</sup> Products obtained from the processing of crude oil (including lease condensate), natural gas, and other hydrocarbon compounds.

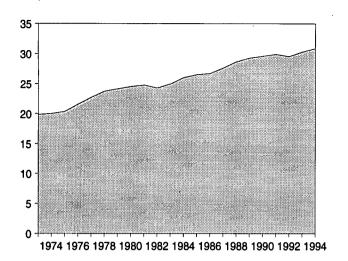
<sup>c</sup> Due to a lack of consistent historical data, some renewable energy sources are not included. For example, in 1992, an estimated 0.1 quadrillion Btu of renewable energy consumed by the U.S. transportation sector is not included. included.

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

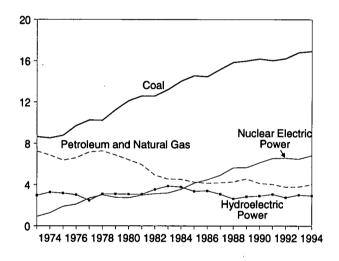
Notes: • Totals may not equal sum of components due to independent bunding. • Geographic coverage is the 50 States and the District of rounding. • Columbia.

Figure 2.5 Energy Input at Electric Utilities (Quadrillion Btu)

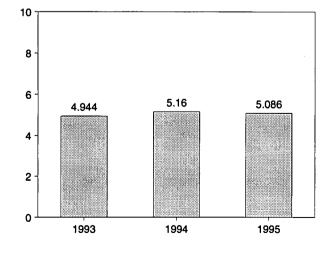
#### Total, 1973-1994



# By Major Sources, 1973-1994

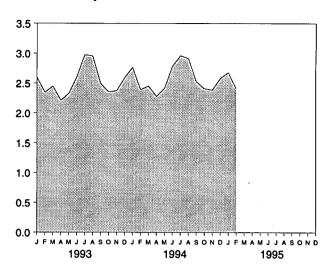


# Total, January and February

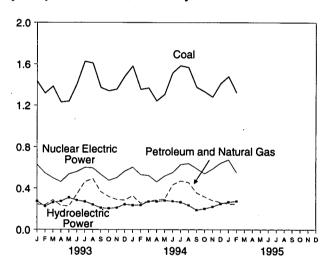


Note: Because vertical scales differ, graphs should not be compared. Source: Table 2.6.

## Total, Monthly



## By Major Sources, Monthly



#### By Major Sources, February 1995

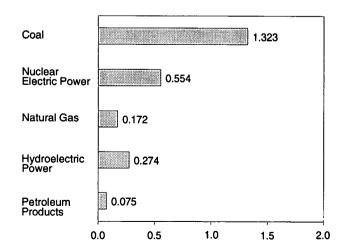


Table 2.6 Energy Input at Electric Utilities

		Natural	Petroleum	Nuclear Electric	Hydro- electric	Geothermal		
	Coal	Gasa	Products <sup>b</sup>	Power	Powerc	Energy	Otherd	Tota
973 Total	8.658	3.748	3.515	0.910	2.975	0.043	0.003	19.85
974 Total	8.534	3.519	3.365	1.272	3.276	.053	.003	20.02
975 Total	8.786	3.240	3.166	1.900	3,187	.070	.002	20.35
976 Total	9.720	3.152	3.477	2.111	3.032	.078	.003	21.57
977 Total	10.262	3.284	3.901	2.702	2.482	.077	.005	22.71
978 Total	10.238	3.297	3.987	3.024	3,110	.064	.003	23.72
979 Total	11.260	3.613	3.283	2.776	3.107	.084	.005	24.12
980 Total	12.123	3.810	2.634	2.739	3.085	.110	.005	24.50
981 Total	12.583	3.768	2.202	3.008	3.072	.123	.004	24.76
982 Total	12.582	3.342	1.568	3.131	3.539	.105	.003	24.27
983 Total	13.213	2.998	1.544	3.203	3.866	.129	.004	24.95
984 Total	14.020	3,220	1.286	3.553	3.767	.165	.009	26.02
985 Total	14.542	3.160	1.090	4.149	3.365	.198	.015	26.51
986 Total	14.444	2.691	1.452	4.471	3.413	.219	.012	26.70
987 Total	15.173	2.935	1.257	4.906	3.084	.229	.016	27.60
988 Total	15.173	2.709	1.563	5.661	2.630	.217	.017	28.64
	15.988	2.871	1.685	5.677	2.848	.197	.020	29.28
989 Total	16.189	2.882	1.250	6.161	2.914	.181	.021	29.59
990 Total		2.856	1.178	6.579	3.083	.170	.021	29.91
991 Total	16.028 16.211	2.826	.951	6.607	2.760	.170	.022	29.54
992 Total	10.211	2.020	.551	0.007	2.700		.OLL	20.04
993 January	1.432	.168	.077	.631	.275	.014	.002	2.59
February	1.317	.165	.074	.548	.226	.013	.002	2.34
March	1.384	.198	.090	.498	.263	.014	.002	2.45
April	1.230	.178	.055	.461	.275	.014	.002	2.21
May	1.239	.171	.056	.538	.310	.012	.001	2.32
June	1.406	.260	.083	.562	.284	.012	.001	2.60
July	1.625	.341	.121	.604	.272	.013	.001	2.97
August	1.609	.365	.126	.600	.242	.014	.002	2.95
September	1.372	.264	.102	.534	.210	.013	.002	2.49
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
1994 January	1.580	.174	.155	.607	.236	.013	.002	2.76
February	1.354	.152	.103	.532	.237	.012	.002	2.39
March	1.368	.190	.084	.523	.273	.012	.002	2.45
April	1.242	.208	.081	.461	.273	.012	.002	2.28
May	1.305	.221	.074	.518	.282	.012	.002	2.41
June	1.513	.326	.106	.553	.275	.011	.002	2.78
July	1.583	.370	.100	.632	.266	.012	.002	2.96
August	1.566	.391	.064	.642	.235	.013	.002	2.91
September	1.375	.302	.053	.594	.190	.012	.002	2.52
October	1.333	.270	.048	.542	.203	.012	.002	2.41
November	1.280	.236	.047	.590	.221	.012	.002	2.38
December	1.410	.212	.052	.646	.250	.012	.002	2.58
Total	16.910	3.053	.968	6.841	2.941	.145	.020	30.87
1995 January	1.478	.203	.046	.677	.267	.009	.001	2.68
1995 January	1.323	.172	.075	.554	.274	.006	.001	2.40
February 2-Month Total	2.801	.375	.075 . <b>121</b>	1.231	.541	.015	.002	5.08
a monar roun						.025		
994 2-Month Total	2.934	.326	.259	1.139	.473		.003	5.10

photovoltaic, and solar thermal energy.

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

Additional Notes and Sources: See end of section.

 $<sup>^{\</sup>mbox{\scriptsize a}}$  Includes supplemental gaseous fuels.  $^{\mbox{\scriptsize b}}$  Includes residual and distillate fuel oils, petroleum coke, and small amounts of kerosene and jet fuel.

Includes net imports of electricity.
 d "Other" is electricity generated for distribution from wood, waste, wind,

# **Energy Consumption Notes** and Sources

The data in this section of the Monthly Energy Review (MER) are obtained initially from a group of energy-related surveys, typically called "supply surveys," conducted by the Energy Information Administration (EIA). Supply surveys are those surveys directed to suppliers and marketers of specific energy sources. They measure the quantities of specific energy sources produced, or the quantities supplied to the market, or both. The data obtained from the EIA's supply surveys are integrated to yield the summary consumption statistics published in this section (and in Section 1) of the MER. Users of the EIA's energy consumption statistics should be aware of a second group of energy-related surveys, typically called "consumption surveys." Consumption surveys gather information on the types of energy consumed by end users of energy, along with the characteristics of those end users that can be associated with energy use. For example, the Manufacturing Energy Consumption Survey belongs to the consumption survey group because it collects information directly from end users (the manufacturing establishments). There are important differences between the supply and consumption surveys that need to be taken into account in any analysis that uses both data sources. For information on those differences, see Energy Consumption by End-Use Sector, A Comparison of Measures by Consumption and Supply Surveys, DOE/EIA-0533, Energy Information Administration, Washington, DC, April 6, 1990. The numbered notes that follow elaborate on essential information in Section 2.

- 1. Total Energy Consumed: Total energy consumed includes coal, natural gas (including supplemental gaseous fuels), petroleum products supplied, electric utility and industrial generation of hydroelectric power, net imports of electricity generated from hydroelectric power, and electricity generated from nuclear power. Total energy consumed also includes electricity generated from geothermal, wood, waste, wind, photovoltaic, and solar thermal energy but excludes other energy obtained from those sources because consistent historical data are not available.
- 2. Economic Sectors: Energy use is assigned to the major economic sectors according to the following guidelines as closely as possible:
  - Residential—All private residences, whether occupied or vacant, owned or rented, including single-family homes, multifamily housing units, and mobile homes. Secondary homes, such as summer homes, are also included. Institutional housing, such as school dormitories, hospitals, and military barracks, generally are not included in the residential sector; they are included in the commercial sector.
  - Commercial—Business establishments that are not engaged in transportation or in manufacturing or

other types of industrial activity (agriculture, mining, or construction). Commercial establishments include hotels, motels, restaurants, wholesale businesses, retail stores, laundries, and other service enterprises; religious and nonprofit organizations; health, social, and educational institutions; and Federal, State, and local governments. Street lights, pumps, bridges, and public services are also included if the establishment operating them is considered commercial.

- Industrial—Manufacturing industries, which make up the largest part of the sector, along with mining, construction, agriculture, fisheries, and forestry. Establishments in this sector range from steel mills to small farms to companies assembling electronic components.
- Transportation—Private and public vehicles that move people and commodities. Included are automobiles, trucks, buses, motorcycles, railroads and railways (including streetcars), aircraft, ships, barges, and natural gas pipelines.
- Electric Utility—Privately and publicly owned establishments that generate, transmit, distribute, and sell electricity primarily for use by the public and meet the definition of an electric utility. Nonutility power producers are not included in the electric utility sector.

Although the end-use allocations are made according to these aggregations as closely as possible, some data are collected by using different classifications. For example, data on agricultural use of natural gas are collected and reported in the commercial sector, rather than in the industrial sector. Since agricultural use of natural gas cannot be identified separately, it is included in the commercial sector in this report. Another example is master-metered condominiums and apartments, and buildings with a combination of residential and commercial units. In many cases, the metering and billing practices cause residential energy usage of electricity, natural gas, or fuel oil to be included in the commercial sector. No adjustments for these discrepancies were made.

- 3. Conversion Factors: See the conversion factors listed in Appendix A.
- 4. Coal: Coal is anthracite, bituminous coal (including subbituminous coal), and lignite. Sources:
  - 1973-September 1977: U.S. Department of the Interior (DOI), Bureau of Mines (BOM), Minerals Yearbook and Minerals Industry Surveys.
  - Electric Utilities—October 1977 forward: Energy Information Administration (EIA), Form EIA-759 (formerly Federal Power Commission (FPC) Form FPC-4), "Monthly Power Plant Report."
  - Other Industrial—October 1977-December 1979: EIA, Form EIA-3, "Monthly Coal Consumption Report - Manufacturing Plants"; January 1980 for-

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

- Coke Plants—October 1977-December 1980: EIA, Form EIA-5/5A, "Coke and Coal Chemicals - Monthly/Annual"; January 1981-December 1984: EIA, Form EIA-5/5A, "Coke Plant Report - Quarterly/Annual Supplement"; January 1985 forward: EIA, Form EIA-5/5A, "Coke Plant Report - Quarterly."
- Residential and Commercial—October 1977-December 1979: EIA, Form EIA-2, "Monthly Coal Report, Retail Dealers Upper Lake Docks"; January 1980 forward: EIA, Form EIA-6, "Coal Distribution Report," quarterly.
- 5. Natural Gas: Natural gas consumption by end use is based on data presented in Table 4.4 of this report. For Section 2 calculations, lease and plant fuel consumption are added to industrial deliveries, and pipeline fuel represents transportation use of natural gas. Values in Btu are derived by using the conversion factors provided in Appendix A. Sources:
  - 1973-1975: DOI, BOM, Minerals Yearbook, "Natural Gas" chapter.
  - 1976-1978: EIA, Energy Data Reports, "Natural Gas, Annual."
  - 1979: EIA, Natural Gas Production and Consumption 1979.
  - 1980-1992: EIA, Natural Gas Annual.
  - 1993: EIA, Natural Gas Monthly.
  - Electric Utilities—1973-1976: Form FPC-4, "Monthly Power Plant Report"; 1977-1981: Federal Energy Regulatory Commission (FERC), Form FPC-4, "Monthly Power Plant Report"; 1982 forward: EIA, Form EIA-759, "Monthly Power Plant Report."
  - American Gas Association, "Monthly Gas Utility Statistical Report," residential and commercial monthly sales data for 1973-1979, which are used to estimate monthly consumption values from EIA annual consumption values.
- 6. Petroleum: Petroleum consumption by end use is the sum of all individual petroleum products estimated to be consumed in each end-use sector. First, total consumption by product is determined. Petroleum consumption in this section of the Monthly Energy Review (MER) is the series called "petroleum products supplied" in Section 3. Sources for petroleum products supplied by individual products are:
  - 1973-1975: DOI, BOM, Mineral Industry Surveys, "Petroleum Statement, Annual."
  - 1976-1980: EIA, Energy Data Reports, "Petroleum Statement, Annual."
  - 1981-1993: EIA, Petroleum Supply Annual.
  - 1994 and 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 (ker-

- osene-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 enduse 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 fos-

sil 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.

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# Section 3. Petroleum

Total petroleum imports<sup>2</sup> averaged 8.5 million barrels per day in April 1995, 6 percent lower than the previous month's rate and 5 percent<sup>3</sup> lower than the April 1994 rate.

In April 1995, 17.4 million barrels per day of petroleum products were supplied for domestic use, the same as the April 1994 rate. Motor gasoline accounted for 45 percent of the total; distillate fuel oil, 19 percent; and residual fuel oil, 4 percent.

Motor gasoline supplied during April 1995 averaged 7.7 million barrels per day, 1 percent below the previous month's rate but 3 percent above the April 1994 rate. Total motor gasoline stocks were 209 million barrels at the end of April 1995, 2 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 April 1995 averaged 3.3 million barrels per day, 1 percent lower than the previous month's rate but 6 percent higher than the April 1994 rate. Distillate fuel oil ending stocks for April 1995 were 114 million barrels, 1 million barrels below the stock level in the previous month but 11 million barrels above the level 1 year earlier.

Residual fuel oil supplied in April 1995 averaged 0.8 million barrels per day, 4 percent lower than the previous month's rate and 29 percent lower than the April 1994 rate. Residual fuel oil stocks measured 36 million barrels at the end of April 1995, 2 million barrels below the stock level in the previous month and 3 million barrels below the stock level 1 year earlier.

Estimates (except of crude production) for the most current month are based on Energy Information Administration (EIA) weekly data and will be revised to conform with data from the EIA Petroleum Reporting System as available. For the most recent month, crude production is an EIA estimate based on historical and provisional data through January 1995.

<sup>&</sup>lt;sup>2</sup>Total import data include imports into the Strategic Petroleum Reserve.

<sup>&</sup>lt;sup>3</sup>Percentage changes are based on numbers shown in the following tables.

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

		Field Production	n	Stock	Change <sup>a</sup>		Ending Stocksb
	Total Domestic <sup>c</sup>	Crude Oil	Natural Gas Plant Liquids	Crude Oil <sup>d</sup>	Petroleum Products	Petroleum Products Supplied	Crude Oil <sup>d</sup> and Petroleum Products
			Thousand Ba	rrels per Day			Million Barrels
1973 Average	10,975	9,208	1 720	44	446	17.000	1.000
1974 Average	10,498	8,774	1,738 1,688	-11 62	146 117	17,308	1,008
1975 Average	10,045	8,375	1,633	e17.	e <sub>15</sub>	16,653	<sup>6</sup> 1,074
	9,774		1,633 1,604	39		16,322	1,133
1976 Average	•	8,132			-96	17,461	1,112
1977 Average	9,913	8,245 8,707	1,618	170	378	18,431	1,312
1978 Average	10,328	8,707	1,567	78	-172	18,847	1,278
1979 Average	10,179	8,552	1,584	148	25	18,513	1,341
1980 Average	10,214	8,597	1,573	98	42	17,056	<sup>e</sup> 1,392
1981 Average	10,230	8,572	1,609	<sup>e</sup> 290	e-130	16,058	1,484
1982 Average	10,252	8,649	1,550	136	-283	15,296	<sup>e</sup> 1,430
1983 Average	10,299	8,688	1,559	<sup>e</sup> 214	<sup>e</sup> -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	10,28 <del>9</del>	8,680	1,551	78	124	16,281	1,593
1987 Average	10,008	8,349	1,595	128	-87	16,665	1,607
1988 Average	9,818	8,140	1,625	1	-29	17,283	1,597
1989 Average	9,219	7,613	1,546	86	-129	17,325	1,581
1990 Average	8,994	7,355	1,559	-35	142	16,988	1,621
1991 Average	9,168	7,417	1,659	-42	32	16,714	1,617
1992 Average	8,996	7,171	1,697	-1	-68	17,033	e1,592
1002 Innuary	<sup>9</sup> 9,254	6.064	4 707	005	Proo	10.170	
1993 January		6,961	1,737	295	<sup>e</sup> 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	17,096	1,667
July	8,657	6,688	1,741	6	497	17,357	1,682
August	8,720	6,758	1,747	-505	299	17,332	1,676
September	8,652	6,712	1,732	-439	86	17,650	1,665
October	8,893	6,839	1,768	328	403	17,323	1,688
November	8,847	6,912	1,670	251	-320	17,780	1,686
December	8,668	6,858	1,579	-53	-1,198	17,953	1,647
Average	8,836	6,847	1,736	81	70	17,237	1,647
1994 January	E 8,674	E 6,777	1,619	-16	-831	17,924	1 620
February	E 8,586	E 6,745	1,642	-164	-1,225	•	1,620
March	E 8,688	E 6,719	1,676	339		18,302	1,581
	E 8,528	E 6,634			-438	17,289	1,578
April May	E 8,546	E 6,658	1,687	-58	311	17,428	1,585
	E 8.546	E 6,567	1,715	-213	977	17,094	1,609
June	- 0,546 F 0,500		1,736	-204	457	17,830	1,616
July	E 8,580	E 6,528	1,756	187	855	17,474	1,649
August	E 8,537	E 6,547	1,766	-43	291	18,107	1,656
September	E 8,613	E 6,551	1,793	112	580	17,469	1,677
October	E 8,600	<sup>E</sup> 6,578	1,747	294	-546	17,656	1,669
November	E 8,649	<u>5</u> 6,542	1,796	106	329	17,340	1,682
December	<sup>€</sup> 8.764	E 6,686	1,799	-155	-776	18,280	1,654
Average	E 8,610	E 6,627	1,728	17	4	17,679	1,654
1995 January	E 8,664	<sup>E</sup> 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	RE 8,625	<sup>RE</sup> 6.606	<sup>R</sup> 1,773	R 344	R -484	R 17,403	<sup>R</sup> 1,599
April	E 8,665	PE 6,577	E 1,774	E <sub>-</sub> 105	E-160	E 17,353	E 1,598
4-Month Average	E 8,693	PE 6,619	E 1,774	E -20	E-502	E 17,552	E 1,598
1994 A Month Averen	E 8,621					-	
1994 4-Month Average1993 4-Month Average	- 8,621 9,015	<sup>E</sup> 6,719 6,940	1,656 1,777	31 313	-536 -108	17,724	1,585
Timoniui Atalaga	0,010	0,540	1,177	313	-100	16,958	1,617

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.

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.

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

<sup>&</sup>lt;sup>e</sup> See Note 4 at end of section.

See Note 6 at end of section.

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

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

		Imports			Exports		
	Total	Crude Oil <sup>a</sup>	Petroleum Products	Total	Crude Oil	Petroleum Products	Net Imports <sup>i</sup>
			Tho	usand Barrels pe	er Day		
12 Averege	6,256	3,244	3,012	231	2	229	6,025
'3 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
6 Average	7,313	5,287	2,026	223	8	215	7,090
7 Average	8,807	6,615	2,193	243	50	193	8,565
8 Average	8,363	6,356	2,008	362	158	204	8,002
9 Average	8,456	6,519	1,937	<sup>c</sup> 471	235	<sup>c</sup> 236	<sup>c</sup> 7,985
	6,909	5,263	1,646	544	287	258	6,365
0 Average	5,996	4,396	1,599	595	228	367	5,401
1 Average	5,113	3,488	1,625	815	236	579	4,298
2 Average	5,051	3,329	1,722	739	164	575	4,312
3 Average	5,437	3,426	2,011	722	181	541	4,715
4 Average	•	3,201	1,866	781	204	577	4,286
S Average	5,067		2,045	785	154	631	5,439
36 Average	6,224	4,178	•	764	151	613	5,914
37 Average	6,678	4,674	2,004	815	155	661	6,587
38 Average	7,402	5,107	2,295	859	142	717	7,202
39 Average	8,061	5,843	2,217	857	109	748	7,161
90 Average	8,018	5,894	2,123			885	6,626
91 Average	7,627	5,782	1,844	1,001	116	861	6,938
92 Average	7,888	6,083	1,805	950	89	001	0,530
3 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
	8,285	6,488	1,797	970	139	831	7,315
March	8,768	6,928	1,840	1,067	73	994	7,701
April	8,663	6,809	1,854	1.082	112	970	7,581
May	8,805	7,201	1,604	900	150	750	7,905
June		7,289	1,930	1,001	62	938	8,218
July	9,219	•	1,789	829	55	774	7,600
August	8,429	6,641	1,950	902	107	795	7,629
September	8,531	6,581		881	62	819	8,316
October	9,197	7,181	2,015	980	67	913	7,923
November	8,903	6,997	1,906		63	1,188	7.394
December	8,645	6,838	1,807	1,250	98	904	7,618
Average	8,620	6,787	1,833	1,003	90	304	7,010
94 January	7,914	5,961	1,953	927	110	817	6,987
February	8,501	6,313	2,187	882	116	766	7,619
March	8,500	6,377	2,123	936	40	896	7,564
April	8,927	6,937	1,990	868	120	749	8,059
May	9,155	7,163	1,993	929	118	812	8,226
June	9,263	7,358	1,906	867	107	760	8,396
	9,778	7,867	1,911	877	84	793	8,901
July	9,523	7,528	1,996	913	72	841	8,611
August	9,525 9,526	7,722	1,804	891	61	830	8,635
September	9,526 8,642	6,993	1,649	997	138	859	7,646
October	8,527	6,863	1,663	1,000	102	898	7,527
November		7,193	1,668	1,208	118	1,090	7,653
December	8,861		1,902	942	99	843	7,980
Average	8,929	7,027	1,502				
95 January	7,955	6,503	1,452	978	113	865 067	6,977
February	8,358	_ 6,565	1,793	1,062	95	967	7,296 R 8,073
March	R 9,020	<sup>R</sup> 7,409	<sup>P</sup> 1,612	R 948	R 68	R 880	
April	E 8,454	<sup>E</sup> 7,181	E 1,272	E 970	E 99	E 871	E 7,484
4-Month Average	E 8,449	<sup>E</sup> 6,921	<sup>E</sup> 1,528	<sup>E</sup> 988	E 93	<sup>€</sup> 894	E 7,46
994 4-Month Average	8,456	6,395	2,061	904	96	808	7,55
	-,	6,470	1,785	1,051	126	925	7,20

a Includes crude oil for storage in the Strategic Petroleum Reserve.
 b Net imports equals imports minus exports.

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

<sup>&</sup>lt;sup>c</sup> See Note 6 at end of section.

R=Revised data. E=Estimate.

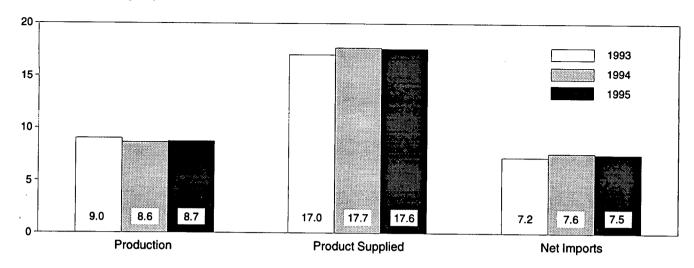
of components due to independent rounding. • Geographic coverage is the 50 States and the District of Columbia.

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

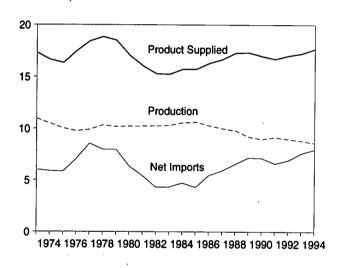
Figure 3.1 Petroleum Overview

(Million Barrels per Day)

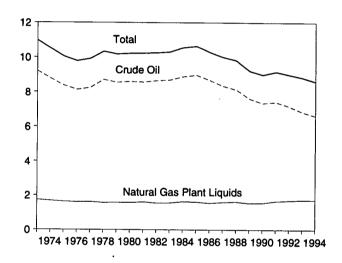
## Overview, January-April



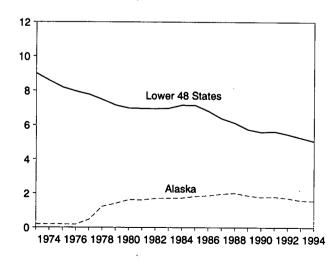
## Overview, 1973-1994



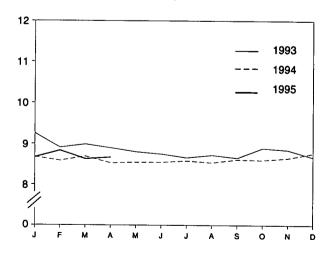
## Production, 1973-1994



# Crude Oil Production, 1973-1994



# Total Production, Monthly



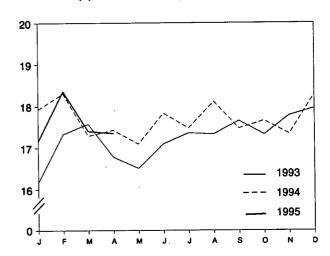
Note: Because vertical scales differ, graphs should not be compared. Sources: Tables 3.1a, 3.1b, and 3.2a.

Figure 3.1 Petroleum Overview (Continued)

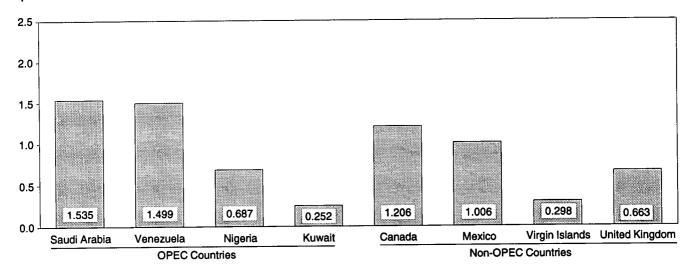
# Product Supplied, 1973-1994

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

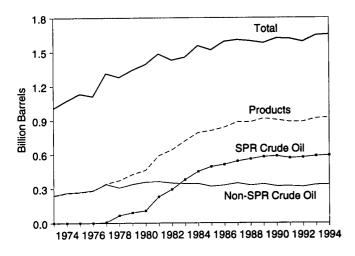
## Product Supplied, Monthly



## Imports from Selected Countries, March 1995

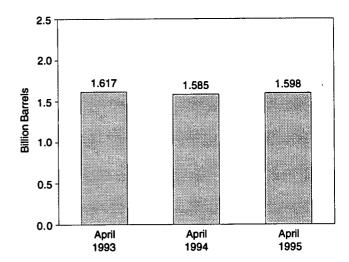


# Stocks, End of Year, 1973-1994



# 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

			•	Supply			
	Field Pr	oduction		Imports			0
	Total Domestic	Alaskan	Total	SPRª	Other	Unaccounted- for Crude Oil <sup>b</sup>	Crude Oil Used Directly <sup>c</sup>
			The	ousand Barrels per	Day		
1973 Average	9,208	198	3,244	_	3,244	3	-19
1974 Average	8,774	193	3,477	_	3,477	-25	-15 -15
1975 Average	8,375	191	4,105	_	4,105	17	-15 -17
1976 Average	8,132	173	5,287	_	5,287	77	d -19
977 Average	8,245	464	6,615	21	6,594	-6	-14
978 Average	8,707	1,229	6,356	d 161	6,195	-6 -57	d-15
979 Average	8,552	1,401	6,519	67	•		d-14
980 Average	8,597	1,617		44	6,452	-11	g -14
981 Average	8,572	1,609	5,263		5,219	34	d -14
982 Average	8,649	•	4,396	256	4,141	83	-58
	•	1,696	3,488	165	3,323	71	-59
983 Average	8,688	1,714	3,329	234	3,096	114	_
984 Average	8,879	1,722	3,426	197	3,229	185	_
985 Average	8,971	1,825	3,201	118	3,083	145	_
986 Average	8,680	1,867	4,178	48	4,130	139	_
987 Average	8,349	1,962	4,674	73	4,601	145	_
988 Average	8,140	2,017	5,107	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			_
91 Average	7,417	1,798	•		5,867	258	-
992 Average	•	•	5,782	0	5,782	195	-
182 AVEI AYE	7,171	1,714	6,083	10	6,073	258	_
93 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	ŏ	7,201	293	_
July	6,688	1,441	7,289	ŏ			
August	6,758	1,528	6,641	Ö	7,289	236	_
September	6,712			_	6,641	3	-
	•	1,471	6,581	34	6,547	224	-
October	6,839	1,610	7,181	0	7,181	109	-
November	6,912	1,670	6,997	0	6,997	106	_
December	6,858	1,671	6,838	0	6,838	-98	_
Average	6,847	1,582	6,787	15	6,772	168	-
94 January	E 6,777	E 1,658	5,961	0	5,961	651	_
February	E 6,745	E 1,594	6,313	0	6,313	37	_
March	<sup>E</sup> 6,719	E 1,581	6,377	99	6,278	272	_
April	E 6.634	E 1.502	6,937	31	6,906	316	
May	<sup>E</sup> 6,658	E 1,576	7,163	Ö.	7,163	361	_
June	E 6,567	E 1,514	7,358	17	•		_
July	E 6,528	E 1,492	7,867	0	7,341	350	-
August	E 6,547	E 1,497			7,867	241	-
September	E 6,551	1,437 E 1 = 1 4	7,528	0	7,528	466	_
	E 6,578	E 1,514	7,722	0	7,722	149	_
October	-0,5/6 F0.540	E 1,603	6,993	0	6,993	405	-
November	E 6,542	E 1,518	6,863	0	6,863	787	_
December	<sup>E</sup> 6,686	E 1,636	7,193	0	7,193	52	_
Average	<sup>E</sup> 6,627	E 1,557	7,027	12	7,014	342	_
95 January	E 6,596	E 1,575	6,503	0	6,503	352	_
February	E 6,703	E 1,578	6,565	0	6,565	155	_
March	RE 6,606	RE 1.525	<sup>R</sup> 7,409	Ŏ	<sup>R</sup> 7,409	R-117	=
April	PE 6,577	PE 1.514	E 7,181	ΕŎ	E 7,181	E 173	-
4-Month Average	PE 6,619	PE 1,547	E 6,921	€ 0	E 6,921	E 140	-
94 4-Month Average	<sup>E</sup> 6,719	E 1,584		22			
93 4-Month Average	6,940	1,627	6,395 6,470	33 36	6,361 6.434	326 177	_
· ··················	<del>-,</del>	1,041	U,7/U	30	6,434	177	_

<sup>&</sup>lt;sup>a</sup> Strategic Petroleum Reserve.

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

b 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			Ending Stocks <sup>a</sup>		
	Crude	Stock (	Change <sup>b</sup>	Refinery		Product			Other
	Losses	SPRC	Other	Inputs	Exports	Supplied <sup>d</sup>	Total	SPRC	Prima
			Thousand E	Barrels per Day				Million Barrels	i
73 Average	13	_	-11	12,431	2	_	242	_	242
74 Average	13	_	62	12,133	3	-	265	_	265
75 Average	13	_	17	12,442	6	_	271	_	271
76 Average	° 14	_	39	13,416	8	_	285	-	285
77 Average	16	20	150	14,602	50	_	348	7	340
'8 Average	16	163	-84	14,739	158	_	376	67	30
	16	67	81	14,648	235	_	430	91	<b>,</b> 33
9 Average	e 14	45	52	13,481	287	_	<sup>1</sup> 466	108	<sup>†</sup> 35
O Average	5	336	1-46	12,470	228	_	594	230	36
1 Average		174	-38	11,774	236	_	9 644	294	9 35
2 Average	3	234	9-20	11,685	164	66	723	379	34
3 Average	2		4	12,044	181	64	796	451	34
4 Average	2	195	-	•	204	60	814	493	32
5 Average	. 1	117	-67	12,002		49	843	512	33
6 Average	(8)	50	28	12,716	154		890	541	34
7 Average	(s)	80	49	12,854	151	34		560	33
8 Average	(8)	52	-51	13,246	155	40	890		34
9 Average	(8)	56	30	13,401	142	28	921	580	
0 Average	(8)	16	-51	13,409	109	24	908	586	32
1 Average	(8)	-47	5	13,301	116	18	893	569	32
2 Average	(s)	17	-18	13,411	89	13	893	575	31
3 January	(s)	19	276	12,938	129	10	902	575 576	32 33
February	(s)	18	201	12,865	166	10	908		33
March	0	58	154	13,200	139	11	915	578	
April	(s)	136	387	13,538	73	9	930	582	34
May	0	13	134	13,829	112	10	935	582	35
June	0	21	-20	14,129	150	8	935	583	3!
July	Ō	19	-13	14,136	62	9	935	583	39
August	ŏ	24	-529	13,844	55	8	920	584	33
September	(s)	52	-491	13,841	107	8	906	586	33
October	0	19	309	13,729	62	10	917	586	3
	ŏ	18	233	13,686	67	10	924	587	3
November	0	9	-62	13,571	63	16	922	587	3
Average	(s)	34	47	13,613	98	10	922	587	3
4 January	0	4	-19	13,285	110	10	922	587	3
February	ŏ	(s)	-164	13,132	116	12	917	587	3
March	ŏ	99	241	12,978	40	10	928	590	3
April	(s)	31	-89	13,817	120	9	926	591	3
May	ő	(s)	-213	14,269	118	9	920	591	3
June	ŏ	16	-220	14,364	107	7	913	592	3:
	ŏ	(s)	187	14,356	84	8	919	592	3
July	ŏ	(s)	-43	14,505	72	7	918	592	3
August	Ö	(3)	112	14,240	61	9	921	592	3
September	•	-			138	ě	930	592	3
October	0	0	294	13,537	102	7	934	592	3
November	0	(s)	106	13,978	118	10	929	592	3
December	0	(s)	-155	13,958		9	929	592	3
Average	<b>(s)</b>	13	5	13,872	99	_			
5 January	0	(s)	-279 -48	13,610 13,367	113 95	7 8	920 919	592 592	3.
February	0 R (c)	(s)	R 344	R 13,478	R 68	R7	929	592	3
March	R (s)	(S) E (S)	544 E 405		E 99	E 7	E 926	E 592	€3
April		_ (9)	E-105	E 13,930	E 93	- / E 8	926	E <b>592</b>	E 3
4-Month Average	<sup>E</sup> (8)	<sup>E</sup> (8)	<sup>E</sup> -20	<sup>t</sup> 13,599	- 93	_			
4 4-Month Average3 4-Month Average	(s) (s)	34 58	-3 255	13,303 13,138	96 126	10 10	926 930	591 582	3

a Stocks are totals as of end of period.

<sup>&</sup>lt;sup>b</sup> A negative number indicates a decrease in stocks and a positive number indicates an increase.

<sup>&</sup>lt;sup>c</sup> Strategic Petroleum Reserve.

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

See Note 6 at end of section.

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

<sup>9</sup> 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, May 1995, Table S2.

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

,				Arab C	PECa		<u>-</u>	
	Alg	geria		lraq	Ku	waitb	L	.ibya
	Total	Crude Oil	Total	Crude Oil	Total	Crude Oil	Total	Crude Oil
1973 Average	136	120	4	4	47	42	164	133
1974 Average	190	180	0	0	5	5	4	4
1975 Average	282	264	2	2	16	4	232	223
1976 Average	432	408	26	26	5	i	453	444
1977 Average	559	544	74	74	48	42	723	704
1978 Average	649	634	62	62	6	5	654	638
1979 Average	636	608	88	88	8	5	658	642
1980 Average	488	456	28	28	27	27	554	548
1981 Average	311	261	(8)	Ō	0	 0	319	317
1982 Average	170	90	``3	3	5	ž	26	23
1983 Average	240	176	10	10	14	7	-0	0
1984 Average	323	194	12	12	36	24	1	ŏ
1985 Average	187	84	46	46	21	4	4	Ö
1986 Average	271	78	81	81	68	28	õ	Ö
1987 Average	295	115	83	82	84	70	0	0
1988 Average	300	58	345	343	92	80	ŏ	0
1989 Average	269	60	449	441	157		_	•
1990 Average	280	63	518	514		155	0	0
1991 Average	253	44	910		86	79	0	0
<del>.</del>	196	24	0	0	6	6	0	0
1992 Average	130	24	U	0	51	39	0	0
1993 January	153	28	0	0	144	129	0	0
February	256	0	0	0	251	229	ŏ	ŏ
March	185	7	0	Ŏ	316	300	ŏ	ŏ
April	258	26	Ō	Õ	279	279	ŏ	ŏ
May	228	3	Ö	ŏ	222	222	ŏ	ŏ
June	169	32	ŏ	ŏ	235	235	ŏ	0
July	246	6	ŏ	ŏ	368	362	ŏ	. 0
August	241	28	ŏ	ŏ	467	451	ŏ	0
September	192	ō	ŏ	Ŏ	445		Ö	_
October	317	80	ő	Ö	530	431 526	0	0
November	222	52	ŏ	ŏ	486		•	0
December	169	25	ŏ	Ö		470	0	0
Average	220	24	Ö	0	484 <b>353</b>	484 <b>344</b>	0	0 <b>0</b>
1004 Jonuani	222	05	•	•				-
1994 January	233	35	0	0	309	309	0	0
February	226	20	0	0	423	423	0	0
March	278	22	0	0	476	476	0	0
April	245	30	0	0	261	238	0	0
May	261	0	0	. 0	362	362	0	0
June	178	2	0	0	255	255	0	0
July	301	38	0	0	345	345	Ō	0
August	282	39	0	, 0	306	306	0	0
September	237	20	0	0	361	361	0	0
October	217	38	0	0	165	148	0	0
November	203	20	0	0	249	240	0	0
December	259	39	Ō	0	240	227	0	0
Average	244	25	0	0	312	307	0	0
1995 January	168	0	0	0	130	120	0	0
February	358	64	0	0	346	324	Ŏ	ŏ
March	196	19	0	Ō	252	252	Ŏ	ŏ
3-Month Average	237	27	0	Ö	239	229	ŏ	ŏ
1994 3-Month Average	246	26	0	0	402	402	0	0
1993 3-Month Average	196	12	Ŏ	ŏ	237	219	ŏ	Ö

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.

Dimports from the Neutral Zone between Kruweit and Cariel Arabia and Carie

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

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

<sup>(</sup>s)=Less than 500 barrels per day.

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

			Arab	OPEC		····		
	Q	atar ·	Saudi	Arabia <sup>b</sup>	United Ar	ab Emirates		otal OPEC <sup>a</sup>
	Total	Crude Oil	Total	Crude Oil	Total	Crude Oil	Total	Crude O
973 Average	7	7	486	462	71	71	915	838
	17	17	461	438	74	69	752	713
974 Average975 Average	18	18	715	701	117	117	1,383	1,330
_	24	24	1,230	1,222	254	254	2,424	2,378
976 Average		67		1,373	335	333	3,185	3,136
77 Average	67		1,380	1,142	385	385	2,963	2,930
78 Average	64	64	1,144	•	281	281	3.058	3,002
179 Average	31	31	1,356	1,347			•	•
80 Average	22	22	1,261	1,250	172	172	2,551	2,503
81 Average	7	7	1,129	1,112	81	77	1,848	1,774
82 Average	7	7	552	530	92	81	854	736
83 Average	(8)	0	337	321	30	18	632	533
84 Average	5	4	325	309	117	90	819	634
85 Average	(s)	ó	168	132	45	35	472	300
_	13	12	685	: 618	44	38	1,162	854
86 Average	0	Ö	751	642	61	56	1,274	965
987 Average	_	Ö	1,073	911	29	23	1,839	1,415
88 Average	0		•	-		21	2,130	1,794
89 Average	2	2	1,224	1,116	28			•
990 Average	4	4	1,339	1,195	17	9	2,244	1,864
91 Average	0	0	1,802	1,703	3	2	2,064	1,754
92 Average	1	0	1,720	1,597	6	0	1,974	1,660
93 January	0	0	1,688	1,571	0	0	1,984	1,728
February	0	0	1,626	1,480	0	0	2,133	1,709
March	6	0	1,479	1,349	0	0	1,987	1,655
April	0	0	1,644	1,515	17	17	2,198	1,837
May	Ō	0	1,524	1,361	59	59	2,034	1,646
June	Ō	Ö	1,540	1,413	66	66	2,010	1,746
July	ŏ	ŏ	1,283	1,171	19	0	1,917	1,538
	ŏ	ŏ	1,151	1,036	Ō	Ō	1,859	1,515
August	ŏ	ŏ	1,329	1,181	ŏ	ŏ	1,966	1,612
September		•			ŏ	ŏ	1,961	1,574
October	0	0	1,115	969	-	Ö	•	1,673
November	Ō	0	1,281	1,152	1		1,989	•
December	0	0	1,330	1,205	0	0	1,983	1,713
Average	1	0	1,414	1,282	14	12	2,000	1,661
94 January	0	0	1,320	1,175	0	0	1,863	1,520
February	0	0	1,071	1,023	0	0	1,719	1,467
March	0	0	1,128	1,055	0	0	1,883	1,553
April	· O	0	1,586	1,428	4	0	2,097	1,696
May	0	0	1,438	1,394	0	0	2,062	1,757
June	Ö	0	1,395	1,277	0	0	1,829	1,535
July	ŏ	ŏ	1,414	1,310	53	53	2,113	1,745
August	ŏ	Ŏ	1,360	1,271	0	0	1,948	1,615
	ŏ	ŏ	1,486	1,364	40	40	2,125	1,786
September	0	0	1,601	1,500	38	23	2,020	1,709
October		I	•			0	1,929	1,617
November	0	0	1,477	1,357	0			
December	0	0	1,526	1,388	15	15	2,040	1,669
Average	0	0	1,402	1,297	13	11	1,971	1,640
95 January	o	0	1,309	1,251	20	20	1,628	1,391
February	0	0	1,181	1,134	13	. 13	1,897	1,535
March	0	0	1,535	1,410	0	0	1,983	1,681
3-Month Average	0	0	1,347	1,269	11	11	1,834	1,536
994 3-Month Average	0	0	1,176	1,086	. 0	o	1,825	1,515
993 3-Month Average	2	0	1,597	1,466	0	0	2,032	1,697

<sup>&</sup>lt;sup>a</sup> 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.

Description the Neutral Zone between Kinnell and Saudi Arabia are

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.

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

<sup>(</sup>s)=Less than 500 barrels per day.

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

				Non-Aral	b OPEC <sup>a</sup>			
	Ecu	ador <sup>b</sup>	Ga	abon	Indo	nesia	1	Iran
	Total	Crude Oil	Total	Crude Oil	Total	Crude Oil	Total	Crude Oil
1973 Average	48	47	0	0	213	200	223	216
1974 Average	42	42	23	23	300	284	469	463
1975 Average	57	57	27	27	390	379	280	278
1976 Average	51	51	28	26	539	537	298	298
1977 Average	57	55	42	35	541	507		
1978 Average	54	38	41	38			535	530
	42	30			573	533	555	554
1979 Average			42	42	420	380	304	297
1980 Average	27	17	26	25	348	314	9	8
1981 Average	48	38	35	35	366	318	0	. 0
1982 Average	42	32	40	40	248	226	35	35
1983 Average	61	56	59	59	338	315	48	48
1984 Average	55	47	58	57	343	304	10	10
1985 Average	67	56	52	51	314	292	27	27
1986 Average	77	64	26	25	318	297	19	19
1987 Average	29	23	35	35	285	262	98	98
1988 Average	47	33	16	15	205	186		
1989 Average	89	80	50	49			(9)	(9)
	49				183	158	0	0
1990 Average		38	64	64	114	98	0	0
1991 Average	63	53	84	84	111	102	32	32
1992 Average	65	62	124	123	78	70	0	0
1993 January	(b)	(b)	90	89	37	37	0	0
February	}b{	įbί	88	88	52	51	ŏ	ŏ
March	}b{	λbί	126	123	67	64	ŏ	0
April	}b{	}b<	127	127	76		-	-
May	}b(	} <b>b</b> ⟨	169			76	0	0
	} <b>ь</b> ⟨	) b (		169	82	82	0	0
June	\ <u>-</u>	\ <u>F</u> {	107	107	97	67	0	0
July	( b (	( b )	168	166	55	55	0	0
August	(b)	(B)	152	152	95	80	0	0
September	( , )	(:)	211	211	51	40	0	0
October	(b)	(b)	242	242	131	82	0	0
November	(þ)	(b)	143	136	74	34	ō	ŏ
December	(b)	(b)	191	191	156	114	ŏ	ŏ
Average	(b)	(b)	152	151	81	65	ŏ	ŏ
1994 January	(b)	(b)	144	144	140	81	0	0
February	įbί	įbί	212	208	103	59	ŏ	ŏ
March	įbί	λbí	91	91	112	50	ŏ	ŏ
April	}b{	}b{	288	288	88	88	ŏ	
May	}b{	}b{	187	187	94		-	0
June	} <b>b</b> {	} <b>ь</b> ⟨	223		• .	76 155	0	0
	\b\	\b\		223	155	155	0	ō
July	\b\ }	(b)	216	216	196	196	0	0
August	(b)	(b)	142	142	119	112	0	0
September	(b)	( )	194	194	61	61	0	0
October		( 5)	235	235	96	89	0	0
November	(þ)	(þ)	254	254	71	56	0	0
December	(b)	(þ)	154	154	113	95	Ô	Ŏ
Average	(b)	(b)	194	194	113	93	Ŏ	ŏ
1995 January	(b)	( <sup>b</sup> )	224	224	38	38	0	0
February	(0)	(b)	186	186	129	87	ŏ	ŏ
March	(b)	įbί	159	159	51	29	ŏ	ŏ
3-Month Average	(b)	(b)	190	190	71	50	Ö	0
1994 3-Month Average		<i>(</i> b )	147	140			_	_
1993 3-Month Average	(b)	(b)	147 102	146 100	119 52	63 51	0	0

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

that were refined from crude oil produced by OPEC.

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

<sup>1993,</sup> imports from Ecuador appear on Table 3.3f under "Non-OPEC."

<sup>C</sup> 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

<sup>29, 1987.</sup> 

<sup>(</sup>s)=Less than 500 barrels per day.

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

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

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

		Non-Arab	OPECa					
	Nig	geria	Ven	ezuela		otal b OPEC <sup>a,b</sup>		eCa'p
	Total	Crude Oil	Total	Crude Oil	Total	Crude Oil	Total	Crude O
973 Average	459	448	1,135	344	2,078	1,257	2,993	2,095
974 Average	713	697	979	319	2,527	1,827	3,280	2,540
75 Average	762	746	702	395	2,219	1,882	3,601	3,211
76 Average	1,025	1.014	700	241	2,642	2,167	5,066	4,545
77 Average	1,143	1,130	690	250	3,008	2,507	6,193	5,643
78 Average	919	910	646	181	2,788	2,254	5,751	5,184
79 Average	1,080	1,069	690	293	2,579	2,110	5,637	5,112
30 Average	857	841	481	156	1,749	1,361	4,300	3,864
81 Average	620	611	406	147	1,476	1,149	3,323	2,922
	514	510	412	155	1,291	998	2,146	1,734
32 Average 33 Average	302	301	422	164	1,231	944	1,862	1,477
	216	207	548	253	1,230	878	2,049	1,512
34 Average	293	280	605	306	,		•	
S Average					1,358	1,012	1,830	1,312
36 Average	440	437	793	416	1,674	1,259	2,837	2,113
7 Average	535	529	804	488	1,787	1,435	3,060	2,400
8 Average	618	607	794	439	1,681	1,281	3,520	2,696
39 Average	815	800	873	495	2,010	1,582	4,140	3,376
00 Average	800	784	1,025	666	2,052	1,650	4,296	3,514
1 Average	703	683	1,035	668	2,028	1,622	4,092	3,377
92 Average	681	665	1,170	826	2,117	1,746	4,092	3,406
3 January	729	729	1,397	1,038	<sup>b</sup> 2,254	<sup>b</sup> 1,892	<sup>b</sup> 4,238	<sup>ь</sup> 3,620
February	927	913	1,296	925	2,363	1,976	4,496	3,685
March	928	892	1,173	835	2,295	1,914	4,282	3,570
April	892	871	1,314	1,023	2,409	2,097	4,608	3,934
May	760	741	1,264	992	2,276	1,985	4,309	3,630
June	848	827	1,292	999	2,343	2,000	4,353	3,746
July	893	888	1,384	1,068	2,500	2,177	4,417	3,715
August	562	549	1,383	1,135	2.192	1,915	4,051	3,431
September	514	496	1,273	1,050	2,048	1,796	4,014	3,408
October	603	593	1,276	993	2,251	1,910	4,213	3,484
November	636	612	1,322	1,108	2,175	1,891	4,165	3,563
December	598	569	1,230	952	2,176	1,827	•	
Average	740	<b>722</b>	1,300	1,010	2,176	1,948	4,159 <b>4,273</b>	3,540 <b>3,609</b>
4 January	310	274	1,185	901	1,780	1,400	3,643	2,920
February	576	557	1,204	946	2,094	1,770	3,814	3,237
March	441	402	1,219	915	1,862	1,457	3,745	3,010
April	631	621	1,272	1,016	2,280	2,014	4,377	3,710
May	732	730	1,297	1,004	2,309	1,996	4,371	_ '
	842	837	•	•				3,753
June			1,449	1,088	2,669	2,303	4,498	3,838
July	703	694	1,298	1,030	2,413	2,136	4,525	3,881
August	1,037	1,010	1,241	992	2,539	2,255	4,487	3,870
September	578	578	1,410	1,106	2,243	1,939	4,368	3,725
October	569	559	1,385	1,101	2,284	1,984	4,304	3,693
November	485	478	1,433	1,085	2,243	1,873	4,172	3,490
December	739	739	1,405	1,183	2,411	2,171	4,451	3,840
Average	637	624	1,317	1,031	2,261	1,942	4,232	3,582
95 January	583	575	1,355	1,059	2,201	1,897	3,828	3,288
February	463	463	1,439	1,083	2,217	1,819	4,114	3,354
March	687	676	1,499	1,209	2,396	2,073	4,379	3,754
3-Month Average	581	575	1,431	1,118	2,273	1,933	4,107	3,469
4 3-Month Average	438	406	1,203	920	1,906	1,535	3,731	3,050
93 3-Month Average	859	842	1,289	933	2,302	1,926	4,334	3,623

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.

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.

that were refined from crude oil produced by OPEC.

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

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

				•		Non-C	PECa					
	Ar	ngola	Au	stralia		hama lands	8	razil	Ca	ınada	(	China
	Total	Crude Oil	Total	Crude Oil	Total	Crude Oil	Total	Crude Oil	Total	Crude Oil	Total	Crude Oi
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	0	1,070	791	0	0
1975 Average	75	71	5	0	152	0	5	0	846	600	0	0
976 Average	12	.7	2	0	118	0	0	0	599	371	0	0
977 Average	24	17	3	. 0	171	0	0	0	517	279	0	0
978 Average	20	6	5 6	0	160	0	0 1	0	467 538	248 271	0 13	0 13
979 Average	43 42	39 37	1	0	147 78	0	3	1	455	199	(8)	0
980 Average	42 49	37 45	5	0	76 74	0	23	14	435 447	164	18	Ö
981 Average	44	43 42	5	(s)	65	ŏ	47	19	482	214	40	8
982 Average	78	71	4	(a) 0	125	ŏ	41	2	547	274	34	6
983 Average	90	85	38	25	88	ŏ	60	(s)	630	341	46	15
984 Average	110	104	37	21	40	ŏ	61	(0)	770	468	59	36
985 Average986 Average	112	102	41	30	37	ŏ	50	ŏ	807	570	90	68
987 Average	192	180	58	49	37	ŏ	84	Ö	848	608	82	63
988 Average	212	203	64	59	. 32	ŏ	98	ŏ	999	681	88	82
989 Average	284	279	36	31	34	ŏ	82	ŏ	931	630	80	76
990 Average	237	236	53	47	37	Ŏ	49	ŏ	934	643	80	77
991 Average	254	254	26	21	35	Ö	22	Ŏ	1,033	743	91	87
992 Average	336	336	19	17	36	Ō	20	Ō	1,069	797	90	· 84
993 January	354	354	(s)	0	18	0	3	0	1,052	778	60	60
February	348	348	0	0	26	0	22	0	1,095	782	44	44
March	408	408	0	0	38	0	27	0	1,033	770	79	· 73
April	344	344	0	0	16	0	56	0	1,052	783	0	0
May	299	299	13	13	8	0	41	0	1,128	874	40	40
June	209	209	34	34	7	0	19	0	1,117	911	48	46
July	402	402	40	40	31	0	48	0	1,264	991	24	24
August	258	258	33	27	41	0	32	0	1,247	966	38	38
September	282	282	0	0	37	0	59	0	1,319	1,023	` 91	89
October	440	440	53	47	53	0	15	0	1,370	1,030	61 68	61 68
November	307	307	0	0	29	-	61 10	0	1,236	917 964	61	61
December Average	379 <b>336</b>	379 <b>336</b>	53 <b>19</b>	53 18	30 - <b>28</b>	0 <b>0</b>	33	ŏ	1,255 <b>1,181</b>	900	51	50
994 January	338	338	12	0	28	0	11	0	1,234	905	81	78
February	295	282	0	0	79	0	12	0	1,364	994	44	44
March	291	265	11	11	52	0	10	0	1,328	987	107	104
April	284	284	0	0	39	0	42	0	1,191	930	70	67
May	354	331	32	· 32	58	0	96	0	1,157	905	80	. 80
June	278	278	11	11	14	0	62	0	1,202	973	37	36
July	304	299	44	44	18	0	53	0	1,224	984	92	92
August	358	347	13	13	20	Ō	38	0	1,350	1,056	64	64
September	455	448	35	35	17	0	21	0	1,151	886	63	63
October	286	286	22	22	15	0	18	0	1,092	839	18	18
November	328	328	22	22	8	. 0	0	0	1,096	844	79	79
December	402	380	0	0	6	0	8	8	1,386	1,054	40	40
Average	331	322	17	16	29	0	31	1	1,231	946	65	64
995 January	273	262	21	21	6	0	0	0	1,349	1,009	64	62
February	348	335	22	22	8	0	0	0	1,310	965	21	21
March	427	416	0	. 0	7	0	0	0	1,206	891	54	54
3-Month Average	349	338	14	14	7	0	0	0	1,288	955	47	46
994 3-Month Average	308	296 271	8	4 0	52 27	0	11 17	0 0	1,307 1,059	961 777	79 62	77 60
1993 3-Month Average	371	371	(8)	U	21	U	17	U	1,058	111	02	60

<sup>&</sup>lt;sup>a</sup> 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.

<sup>(</sup>s)=Less than 500 barrels per day.

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

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

						Non-OP	ECa					
	Co	lombia	Eci	uador <sup>b</sup>	ļ	Italy	Ma	alaysia	M	lexico	Netl	nerlands
	Total	Crude Oil	Total	Crude Oil	Total	Crude Oil	Total	Crude Oil	Total	Crude Oil	Total	Crude Oil
1973 Average	9	2	_	_	125	0	12	1	16	1	53	0
1974 Average	5	Ō	_	· <u>-</u>	74	ŏ	12	i	8	ż	43	Ö
1975 Average	9	Ŏ	_	_	27	ŏ	8	5	71	70	19	4
1976 Average	21	6	_	· _	39	ŏ	18	16	87	87	8	Ŏ
1977 Average	17	Ö	_	-	51	ŏ	66	55	179	177	31	4
1978 Average	20	. 0	_	_	38	ŏ	42	37	318	316	5	2
1979 Average	18	ŏ		_	30	ŏ	66	52	439	437		
1980 Average	4	ŏ	_	. =	4	ŏ	70	52 61	533		23	7
1981 Average	i	ŏ	_	· <u> </u>	11	ŏ	36	33		507	2	(8)
1982 Average	5	ŏ	_	Ξ	18	_			522	469	30	(8)
1983 Average	10	ŏ		<del>-</del>	18	(s)	20	18	685	645	35	(8)
1984 Average	8	ŏ		_		(8)	4	3	826	766	65	3
1985 Average	23	0	· <del>-</del>	_	45 60	(s)	1	0	748	659	65	3
1986 Average	23 87	57	_	_	60 76	(8)	3	. 1	816	715	58	0
1987 Average	148	115	_	-	76	0	12	11	699	621	54	0
	134		-	· <b>-</b>	54	1	13	12	655	602	60	0
1988 Average		106	-	_	65	5	19	19	747	674	61	0
1989 Average	172	136	_	-	34	3	39	39	767	716	49	0
1990 Average	182	140	-	-	58	2	41	40	755	689	55	0
1991 Average	163	123	-	_	47	3	24	24	807	759	29	0
1992 Average	126	102	-	-	55	0	10	10	830	787	26	0
1993 January	188	167	76	70	56	0	0	0	858	820	11	0
February	148	137	14	14	34	Ŏ	ŏ	ŏ	807	748	18	ő
March	161	129	59	59	43	ŏ	11	10	844	798	10	0
April	178	165	74	62	14	. 0	8	8	832	796	0	-
May	147	90	56	56	26	ŏ	21	10	917		-	0
June	176	143	75	75	25	ŏ	6	0	987	846	10	0
July	204	184	96	96	25	Ö	11	11	943	959	10	0
August	131	101	121	121	50	0	14			878	21	0
September	224	170	49	49	32	0		14	862	809	17	0
October	192	182	146	135	40	0	28	28	929	867	22	0
November	164	143	115	106		-	14	10	1,013	951	. 0	0
December	134	85	84		30	0	0	0	1,116	1,041	(s)	0
Average	171	141	81	84 <b>78</b>	0 <b>31</b>	0 <b>0</b>	28 11	28 10	909 <b>919</b>	837 <b>863</b>	6 <b>10</b>	0
•	•••	• • • •		,,	٥.	U	• • •	10	313	003	10	0
1994 January	182	149	128	128	8	0	11	0	971	945	35	0
February	184	131	96	96	35	0	19	15	967	926	43	ŏ
March	188	167	37	37	16	ŏ	13	Ö	1,067	1,014	33	Ö
April	241	. 197	52	52	13	Ŏ	3	ŏ	987	963	23	Ö
May	105	75	85	85	19	Ŏ	ŏ	ŏ	957	917	79	0
June	112	101	72	72	12	ŏ	10	10	1,040	974	38	0
July	127	127	144	144	35	ŏ	36	36	926	889	35	0
August	181	181	115	115	52	ŏ	13	7	928	885	33	0
September	144	144	63	63	34	ő	9	ó	1,043	963	33 34	0
October	215	215	110	110	21	ŏ	Õ	Ö	940	881	18	0
November	118	118	85	85	17	ő	Ô	ŏ	1.037	981	18	ŭ
December	124	124	96	96	9	Ö	6	0	.,	•••	•	Ü
Average	160	144	90	90	22	Ŏ	10	6	963 <b>985</b>	944 <b>940</b>	4 31	0 <b>0</b>
1005 (										- 10	٠.	·
1995 January	191	181	130	130	4	0	21	21	942	909	0	0
February	158	148	107	107	· 1	0	0	0	919	888	17	Õ
March	257	-238	104	104	8	0	0	0	1,006	961	29	ŏ
3-Month Average	203	191	114	114	5	0	7	7	957	920	15	Ŏ
1994 3-Month Average	185	150	87	87	19	0	14	5	1,003	069		•
1993 3-Month Average	166	145	51	49	45	ŏ	4	4	837	963 790	37 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.

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

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

<sup>-=</sup>Not applicable. (s)=Less than 500 barrels per day.

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

						Non-	OPECa			<u> </u>		
		eriands Itilies	N	orway	Pue	rto Rico	Ru	ıssiab	s	pain		nidad 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	Ŏ	1	ì	90	Ö	20	Ó	12	0	251	63
1975 Average	332	Ŏ	17	12	90	Ō	14	Ō	1	0	242	115
1976 Average	275	ŏ	36	35	88	Ŏ	11	2	1	Ō	274	104
1977 Average	211	ŏ	50	48	105	Ō	12	2	10	Ō	289	134
1978 Average	229	ŏ	104	104	94	ŏ	8	1	3	Ō	253	142
1979 Average	231	ŏ	75	75	92	Ŏ	Ĭ	Ò	4	Ŏ	190	123
	225	ŏ	144	144	88	ŏ	i	ŏ	1	Ŏ	176	115
1980 Average	197	ŏ	119	114	62	ŏ	5	(s)	1	(s)	133	102
1981 Average	175	ŏ	102	102	50	ŏ	1	(3)	3	(s)	112	92
1982 Average		Ŏ	66	65	40	ŏ	i	(8)	2	(s)	96	83
1983 Average	189	0	114	112	42	Ö	13	(8)	11	(3)	94	87
1984 Average	188				28	ŏ	8	` '	29	1	113	98
1985 Average	40	0	32	31		0	_	(s)	53	Ö	125	93
1986 Average	25	0	60	53	21	-	18	(s)		Ö		75
1987 Average	29	0	80	70	21	0	11	0	55 68	0	106 97	75 71
1988 Average	36	0	67	62	22	0	29	_		_		
1989 Average	42	0	138	127	32	0	48	0	67	0	94	73
1990 Average	31	0	102	96	32	0	45	1	47	0	96	76
1991 Average	81	0	82	74	27	0	29	1	33	Ō	88	72
1992 Average	65	0	127	119	26	0	18	5	32	0	95	70
1993 January	73	0	70	70	37	0	0	0	44	0	59	48
February	80	0	62	61	21	0	0	0	19	0	72	58
March	61	0	122	115	26	0	0	0	21	0	92	71
April	97	0	170	170	18	0	32	32	61	0	78	55
May	81	0	222	222	38	0	32	32	42	0	68	51
June	55	0	160	160	29	0	77	51	20	0	77	55
July	52	Ō	215	215	49	0	157	134	41	0	82	53
August	56	Õ	180	161	30	Ó	26	0	37	0	50	37
September	101	Ŏ	113	113	28	Ö	57	29	54	0	70	55
October	122	ŏ	115	93	30	ŏ	176	123	33	Ŏ	69	54
November	90	ŏ	162	155	23	ŏ	56	32	30	Ŏ	66	55
	118	ŏ	108	101	14	ŏ	38	0	42	ŏ	103	71
Average	82	ŏ	142	137	29	ŏ	55	36	37	ŏ	74	55
1994 January	162	0	101	96	20	0	11	0	26	0	79	60
	119	ŏ	199	166	11	ŏ	14	ŏ	31	ŏ	92	80
February	102	ŏ	108	108	14	ŏ	34	34	37	ŏ	68	54
March	73	0	205	184	17	ŏ	9	0	45	ŏ	76	56
April		0	159	159	21	ŏ	32	32	53	ŏ	68	58
May	70	-			42	0	133	133	50	ŏ	106	79
June	69	0	176	158	42	0	82	82	25	ŏ	63	55
July	121	0	276	257		0			25 38	ŏ	92	55 55
August	114	0	206	198	23	•	21	15		-		
September	95	0	347	336	17	0	6	0	56	0	64	56
October	77	0	310	300	20	0	30	30	35	0	79	65
November	96	Ō	214	195	6	0	0	0	22	0	59	55
December	43	o	125	123	10	Ō	0	0	26	0	74	74
Average	95	0	202	190	20	0	30	27	37	0	77	62
1995 January		o	200	170	6	0	0	0	7	0	91	91
February	58	0	194	164	7	0	0	Ō	9	0	60	60
March	68	0	241	209	13	0	0	0	16	0	70	70
3-Month Average	67	0	212	181	9	0	0	0	11	0	74	74
1994 3-Month Average	128	0	134	122	15	0	20	12	31	Ō	79	64
1993 3-Month Average	71	0	85	83	28	0	0	0	28	0	75	59

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

(s)=Less than 500 barrels per day.

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

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.

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

			Non-	OPECa						
		nited gdom	Virgin	Islands		ther -OPEC		otal OPEC <sup>a,b</sup>		otal ports
	Total	Crude Oil	Total	Crude Oil	Total	Crude Oil	Total	Crude Oil	Total	Crude Oil
1973 Average	15	0	329	0	153	36	3,263	1,149	6,256	3,244
1974 Average	8	Ō	391	Ŏ	122	30	2,832	937	6,112	3,477
1975 Average	14	(8)	406	Ŏ	120	14	2,454	893	6,056	4,105
1976 Average	31	13	422	Ö	203	101	2,247	742	7,313	5,287
1977 Average	126	97	466	Ŏ	287	157	2,614	971	8,807	6,615
1978 Average	180	169	428	ŏ	239	146	2,612	1,172	8,363	6,356
1979 Average	202	197	431	Ŏ	269	192	2,819	1,407	8,456	6,519
1980 Average	176	173	388	ŏ	219	162	2,609	1,399	6,909	5,263
1981 Average	375	369	327	ŏ	236	163	2,672	1,474	•	
1982 Average	456	441	316	ŏ	306	174	2,968	,	5,996	4,396
1983 Average	382	365	282	ŏ	378	215		1,754	5,113	3,488
1984 Average	402	378	294	ŏ	411	210	3,189	1,853	5,051	3,329
1985 Average	310	278	247	Ö	394		3,388	1,914	5,437	3,426
1986 Average	350	317	244	Ö		137	3,237	1,888	5,067	3,201
1987 Average	352	304	272	-	426	144	3,387	2,065	6,224	4,178
	315	254	242	0	459	196	3,617	2,274	6,678	4,674
1988 Average				0	487	196	3,882	2,411	7,402	5,107
1989 Average	215	160	321	0	457	197	3,921	2,467	8,061	5,843
1990 Average	189	155	282	0	417	180	3,721	2,381	8,018	5,894
1991 Average	138	106	243	0	282	137	3,535	2,405	7,627	5,782
1992 Average	230	200	249	0	335	149	3,796	2,676	7,888	6,083
1993 January	229	201	252	0	325	104	<sup>b</sup> 3,766	<sup>b</sup> 2,672	8,004	6,292
February	173	127	244	0	223	151	3,452	2,471	7,948	6,156
March	332	298	244	0	393	186	4,003	2,918	8,285	6,488
April	413	337	245	Ó	472	243	4,161	2,995	8,768	6,928
May	522	495	279	Ó	363	152	4,353	3,179	8,663	6,809
June	458	408	290	Ó	581	405	4,452	3,455	8,805	7,201
July	292	247	202	0	600	299	4,801	3,574	9,219	7,289
August	343	323	256	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	Ŏ	453	233	4,984	3,698	9,197	7,181
November	351	340	330	Ö	503	270	4,739	3,434	8,903	6,997
December	432	403	288	Ŏ	394	231	4,486	3,298	8,645	6,838
Average	350	312	254	ŏ	452	240	4,347	3,178	8,620	6,787
1994 January	205	161	070	•	050	404				
1994 January		161	276	0	353	181	4,271	3,041	7,914	5,961
February	290	232	351	0	441	111	4,687	3,077	8,501	6,313
March	459	394	325	0	454	191	4,755	3,366	8,500	6,377
April	377	282	325	0	488	212	4,550	3,227	8,927	6,937
May	404 507	345	312	0	643	390	4,784	3,409	9,155	7,163
June	537	485	361	0	405	209	4,766	3,520	9,263	7,358
July	678	578	294	0	634	400	5,253	3,986	9,778	7,867
August	509	473	356	0	513	249	5,036	3,658	9,523	7,528
September	736	717	360	0	409	287	5,159	3,997	9,526	7,722
October	370	323	313	0	350	212	4,338	3,300	8,642	6,993
November	618	507	292	0	257	159	4,355	3,374	8,527	6,863
December	305	255	369	0	414	254	4,410	3,352	8,861	7,193
Average	458	396	328	0	447	239	4,697	3,444	8,929	7,027
1995 January	256	228	283	0	209	131	4,126	3,215	7,955	6,503
February	382	359	322	ŏ	300	143	4,120	3,211	8,358	
March	663	621	298	ŏ	174	91	4,244 4,641			6,565
3-Month Average	435	404	300	Ŏ	225	121	4,841	3,655 <b>3,365</b>	9,020 <b>8,447</b>	7,409 <b>6,834</b>
1004 2 Month Average	040	000							÷, . • ·	J,307
1994 3-Month Average 1993 3-Month Average	319 247	263 211	316 247	0 0	415	162	4,567	3,164	8,298	6,214
v month Avolago	241	211	247	U	317	146	3,750	2,694	8,083	6,317

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.

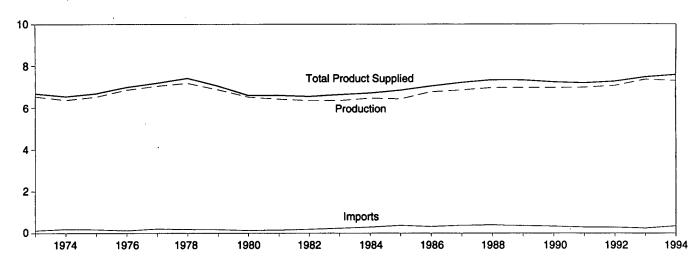
Notes: • Beginning in October 1977, Strategic Petroleum Reserve imports are included. . Totals may not equal sum of components due to independent rounding. . U.S. geographic coverage is the 50 States and the District of

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

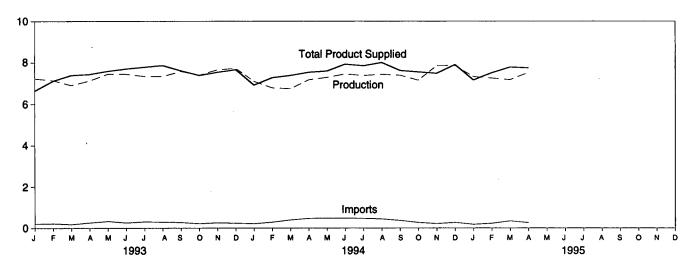
<sup>(</sup>s)=Less than 500 barrels per day.

Figure 3.2 Finished Motor Gasoline

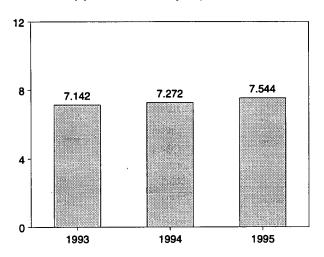
#### Overview, 1973-1994



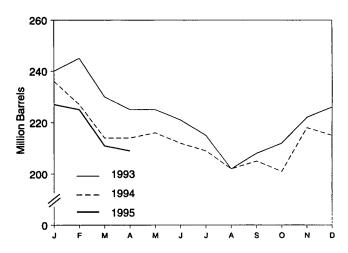
# Overview, Monthly



## Product Supplied, January-April



## 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

	Sup	ply		Disposition			Gasoline <sub>I</sub> Stocks <sup>a</sup>	Oxygenates
	Total Production	Imports <sup>b</sup>	Stock Change <sup>b,c</sup>	Exports	Product Supplied	Totaid	Finished	Ending Stocks <sup>a</sup>
		Thou	sand Barrels pe	r Day			Million Barrels	
1973 Average	6.535	134	-9	4	6,674	209	NA	NA
1974 Average	6,360	204	24	2	6,537	<sup>0</sup> 218	NA	NA.
1975 Average	6,520	184	<sup>6</sup> 28	2	6,675	235	NA NA	NA NA
976 Average	6,841	131	-10	3	6,978	231	NA	NA NA
977 Average	7,033	217	72	2	7,177	258	NA	NA NA
978 Average	7,169	190	-54	1	7,412	238	NA	NA NA
979 Average	6,852	181	-2	(s)	7.034	237	NA	NA NA
980 Average	6,506	140	66	1	6,579	<sup>e</sup> 261	NA NA	NA NA
981 Averagef	6,405	157	e-28	ż	6,588	253	203	NA NA
982 Average	6,338	197	-25	20	•	<sup>6</sup> 235	°194	
983 Average	6,340	247	e-45	10	6,539	222		NA
	6,453	299			6,622		186	NA
984 Average			54	6	6,693	243	205	NA
985 Average	6,419	381	-41	10	6,831	223	190	NA
986 Average	6,752	326	11	33	7,034	233	194	NA
987 Average	6,841	384	-15	35	7,206	226	189	NA
988 Average	6,956	405	3	22	7,336	228	190	NA
989 Average	6,963	369	-35	39	7,328	213	177	NA
990 Average	6,959	342	10	55	7,235	220	181	NA
991 Average	6,975	297	3	82	7,188	219	182	NA
992 Average	7,058	294	-11	96	7,268	216	178	NA
993 January	<sup>9</sup> 7,228	204	652	142	<sup>9</sup> 6,639	240	198	<sup>h</sup> 15
February	7,144	216	149	99	7,112	245	202	14
March	6,904	177	-417	109	7,389	230	189	15
April	7,126	253	-168	111	7,435	225	184	15
May	7,446	323	93	90	7,585	225	187	17
June	7,442	251	-88	81	7,700	221	184	18
July	7,337	300	-240	92	7,785	215	177	
August	7,335	283	-323	77	7,765 7,864	202		20
September	7,573	267	148	85	•		167	21
October	7,373 7,394	210	142		7,607	208	171	19
November	7,652	252		80	7,382	212	176	18
	•		245	126	7,533	222	183	16
Average	7,725 <b>7,360</b>	231 <b>247</b>	132 <b>26</b>	162 <b>105</b>	7,661 <b>7,476</b>	226 <b>226</b>	187 <b>187</b>	13 <b>13</b>
-	7.098	206			·			
994 January	• • • • • • • • • • • • • • • • • • • •		291	97	6,916	236	195	11
February	6,780	281	-288	77	7,272	227	187	11
March	6,740	387	-340	88	7,379	214	176	13
April	7,171	460	28	73	7,530	214	177	15
May	7,282	464	90	64	7,592	216	180	16
June	7,448	473	-93	88	7,926	212	177	18
July	7,372	464	-88	78	7,846	209	174	22
August	7,432	434	-211	70	8,007	202	168	24
September	7,387	360	53	74	7,619	205	169	25
October	7,149	263	-245	110	7,547	201	162	23
November	7,849	209	470	108	7,479	218	176	20
December	7,860	265	-8	231	7,902	215	175	17
Average	7,300	356	-28	97	7,587	215	175	17
995 January	7,317	174	235	100	7,157	227	183	16
February	7,250	223	-116	84	7.505	225	180	16
March	R 7,171	R 336	R -380	P 107	<sup>P</sup> 7,780	R 211	P 168	15
April	E 7,520	E 254	E-66	E 101	E 7,739	E 209	E 167	
4-Month Average	E 7,314	E 247	E -81	E 98	E 7,739	E 209	E 167	NA <b>NA</b>
994 4-Month Average	6,949	334	-73	84	7,272	214	177	15
993 4-Month Average	7,099	212	53	116	7,142	225	184	15

<sup>&</sup>lt;sup>a</sup> Stocks are totals as of end of period.

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

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, May 1995, Table S4.

From 1981 forward, blending components are excluded.

<sup>&</sup>lt;sup>c</sup> 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.

<sup>&</sup>lt;sup>e</sup> See Note 4 at end of section. <sup>f</sup> See Note 2 at end of section.

<sup>&</sup>lt;sup>9</sup> Beginning in 1993, motor gasoline production and product supplied include blending of fuel ethanol and an adjustment to correct for the

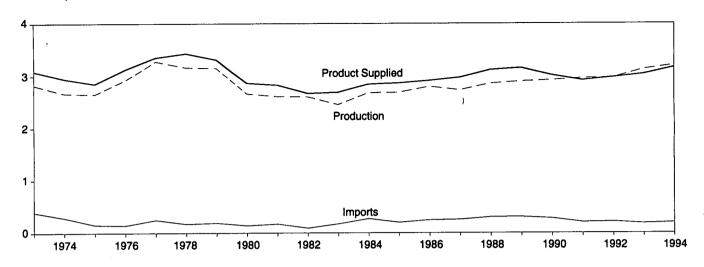
section.

h See Note 1 at end of section.

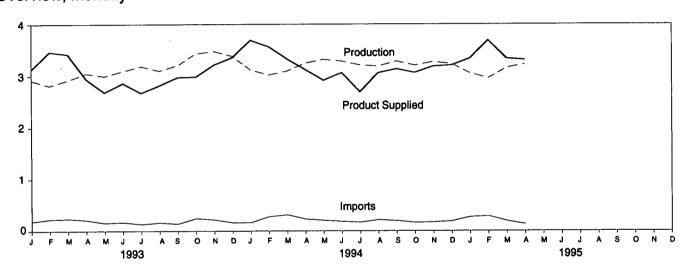
R=Revised data. NA=Not available. E=Estimate. (s)=Less than 500 barrels per day.

Figure 3.3 Distillate Fuel

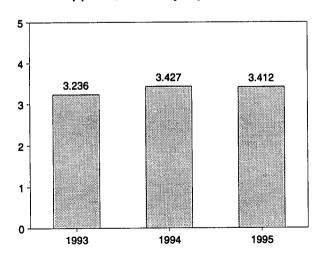
Overview, 1973-1994



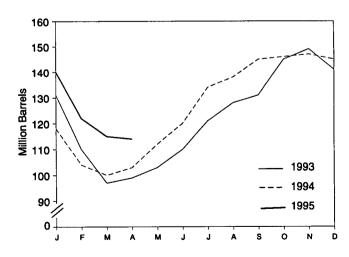
# Overview, Monthly



Product Supplied, January-April



Stocks, End of Month



Source: Table 3.5.

Table 3.5 Distillate Fuel Oil Supply and Disposition

		Supply			Disposition			Ending Stock	8 <sup>8</sup>
								Sulfur	Content
	Total Production	Imports	Crude Oil Used Directly <sup>b</sup>	Stock Change <sup>c</sup>	Exports	Product Supplied <sup>b</sup>	Total	0.05 Percent or Less <sup>d</sup>	Greater Than 0.05 Percent
			Thousand Ba	rrels per Day				Million Barrel	s
072 Averes	2,822	392	2	115	9	3,092	196	NA	NA
973 Average 974 Average	2,669	289	2	e 10	2	2,948	f 200	NA NA	NA NA
975 Average	2,654	155	2	e,f -41	ī	2,851	209	NA NA	NA NA
776 Average	2,924	146	ī	-62	i	3,133	186	NA NA	NA NA
77 Average	3,278	250	i	176	i	3,352	250	NA NA	NA NA
•	3,167	173	i	-93	3	3,432	216	NA NA	NA NA
78 Average		193	i	34	3	3,311	229	NA NA	NA NA
79 Average	3,153		i	-64	3		f 205	NA NA	NA NA
80 Average	2,662	142	-	f -38	3 5	2,866			
81 Average <sup>9</sup>	2,613	173	10		_	2,829	192	NA NA	NA
82 Average	2,606	93	10	-35	74	2,671	179	NA	NA
83 Average	2,456	174	_	1-124	64	2,690	140	NA	NA
84 Average	2,681	272	-	57	51	2,845	161	NA	NA
85 Average	2,687	200	-	-48	67	2,868	144	NA	NA
86 Average	2,798	247	-	31	100	2,914	155	NA	NA
87 Average	2,731	255	_	-56	66	2,976	134	NA	NA
88 Average	2,859	302	-	-30	69	3,122	124	NA	NA
89 Average	2,899	306	-	-49	97	3,157	106	NA	NA
90 Average	2,925	278	-	73	109	3,021	132	NA	NA
91 Average	2,962	205	_	31	215	2,921	144	NA	NA
92 Average	2,974	216	-	-8	219	2,979	141	NA	NA
93 January	2,914	182	_	-318	287 '	3,128	131	<sup>9</sup> 15	<sup>9</sup> 115
February	2,815	224	-	-727	301	3,465	110	12	99
March	2,919	235	-	-420	154	3,420	97	11	87
April	3,047	209	_	71	241	2,943	99	12	88
May	2,994	153	_	106	355	2,685	103	12	91
June	3,093	168	_	241	158	2,863	110	15	95
July	3,186	130	_	346	296	2,674	121	21	100
August	3,100	159	_	243	196	2,820	128	44	84
September	3,205	137	_	102	267	2,973	131	48	84
October	3,432	242	_	453	237	2,983	145	55	90
November	3,474	214	_	127	342	3,218	149	64	85
December	3,382	160	_	-267	453	3,357	141	64	77
Average	3,132	184	_	1	274	3,041	141	64	77
94 January	3,117	160	_	-746	332	3,692	118	56	62
February	3,019	276	_	-505	235	3,565	104	49	55
March	3,095	313	_	-142	220	3,330	100	50	50
April	3,250	226	_	100	252	3,124	103	56	46
May	3,319	202	_	317	289	2,915	112	61	52
June	3,287	181	_	239	168	3,061	120	61	58
July	3,211	164	_	461	220	2,694	134	68	65
August	3,189	211	_	147	193	3,060	138	67	72
September	3,286	193	_	205	140	3,135	145	66	79
October	3,206	159	_	46	256	3,063	146	67	79
	0.074	166	_	: 7	044		: :=	70	79 78
November	3,274 3,236		-	44 -70	211 284	3,185 3,207	147 145	70 72	78 73
December Average	3,208	185 <b>202</b>	_	11	234	3,207 <b>3,166</b>	145	72 72	73 73
95 January	3,055	270	_	-152	141	3,335	140	69	71
February	2,954	287	_	-660	212	3,689	122	63	59
March	R 3,156	R 188	_	R -208	R 216	R 3,336	R 115	R 59	R 56
April	E 3,229	E 128	_	E-166	E 212	E 3,310	E 114	E 61	E 53
4-Month Average	E 3,101	E 217	-	E -289	E 195	E 3,412	E 114	E 61	E 53
94 4-Month Average	3,122	243	_	-322	260	3,427	103	56	46
93 4-Month Average	2,925	212		-343	244	3,236	99	12	88

a Stocks are totals as of end of period.
b Beginning in January 1983, crude oil used directly as distillate fuel oil is reported as crude oil product supplied on Table 3.2b rather than as distillate fuel oil product supplied.

<sup>c</sup> A negative number indicates a decrease in stocks and a positive number

indicates an increase.

d By weight.

<sup>&</sup>lt;sup>e</sup> See Note 6 at end of section.

See Note 4 at end of section.

<sup>&</sup>lt;sup>9</sup> See Note 3 at end of section.

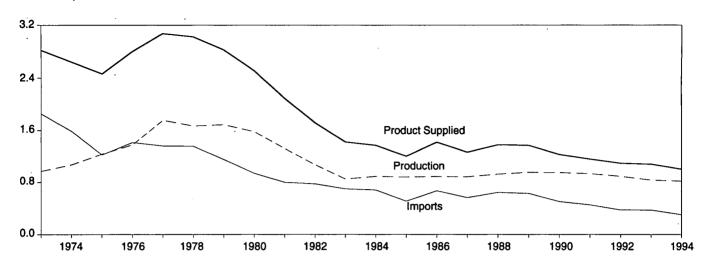
R=Revised data. NA=Not available. -=Not applicable. E=Estimate.

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

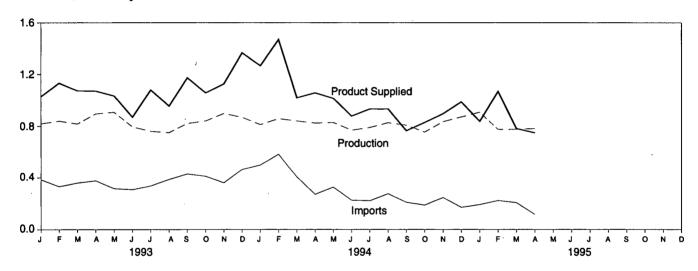
Sources: • 1973-1980: Energy Information Administration (EIA), Petroleum Supply Monthly, February 1993, Table S5. • 1981 forward: EIA, Petroleum Supply Monthly, May 1995, Table S5.

Figure 3.4 Residual Fuel

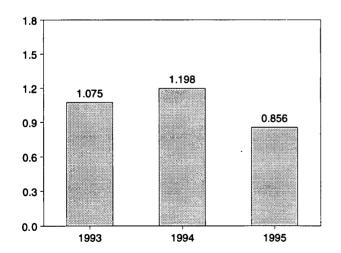
#### Overview, 1973-1994



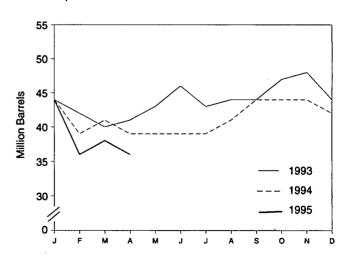
# Overview, Monthly



## Product Supplied, January-April



Stocks, End of Month



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

Table 3.6 Residual Fuel Oil Supply and Disposition

		Supply			Disposition		
	Total Production	Imports	Crude Oil Used Directly <sup>a</sup>	Stock Change <sup>b</sup>	Exports	Product Supplied <sup>a</sup>	Ending Stocks <sup>c</sup>
			Thousand Ba	rrels per Day			Million Barre
070 Average	971	1,853	17	-5	23	2,822	53
973 Average	1,070	1,587	13	17	14	2,639	d 60
974 Average			15	d <u>.′2</u>	15	2,462	74
975 Average	1,235	1,223			12	2,801	72
976 Average	1,377	1,413	17	-5 40		,	90
977 Average	1,754	1,359	13	48	6	3,071	
978 Average	1,667	1,355	13	.1	13	3,023	90
979 Average	1,687	1,151	12	15	9	2,826	96
980 Average	1,580	939	12	-10	33	2,508	d 92
981 Average <sup>e</sup>	1,321	800	48	d -37	118	2,088	<sub>.</sub> 78
982 Average	1,070	776	48	-32	209	1,716	<sup>d</sup> 66
983 Average	852	699	_	d -55	185	1,421	49
	891	681	_	12	190	1,369	53
984 Average	882	510	_	-7	197	1,202	50
985 Average			-				47
986 Average	889	669	-	-8 -X	147	1,418	
987 Average	885	565	-	(8)	186	1,264	47
988 Average	926	644	-	-8	200	1,378	45
989 Average	954	629	-	-2	215	1,370	44
990 Average	950	504	-	13	211	1,229	49
991 Average	934	453	_	4	226	1,158	50
992 Average	892	375	-	-20	193	1,094	43
993 January	820	385	_	44	133	1,028	44
February	840	332	-	-74	113	1,132	42
March	818	360	-	-47	152	1,073	40
April	896	377	_	32	169	1,071	41
May	908	316	_	54	137	1,033	43
	795	308	_	87	147	870	46
June	762	337		-102	122	1,079	43
July			_		120	955	44
August	752	387	-	64			
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	813	503	_	-16	64	1,267	44
February	859	586	_	-152	127	1,470	39
March	841	407	_	54	175	1,019	41
April	825	272	-	-70	110	1,057	39
May	830	328	_	13	129	1,015	39
June	770	227		-3	122	879	39
July	791	223	_	-2	83	933	39
	828	277	_	52	120	934	41
August	809	211	_	113	141	766	44
September			-		134	830	44
October	756	190	-	-18			
November	836	248	-	5	182	897	44
December	873	173	-	-58	115	988	42
Average	819	302	-	-6	125	1,002	42
995 January	909	194	-	60	203	839	44
February	776	225	_	-275	208	1,069	36
March	P 778	R 209	-	<sup>R</sup> 50	R 154	<sup>R</sup> 783	R 38
April	<u> </u>	E 118	-	E-13	<sup>E</sup> 163	<u>E</u> 751	Ē36
4-Month Average	E 813	<sup>E</sup> 186	-	E -39	E 181	E 856	E 36
994 4-Month Average	834	440	-	-43	119	1,198	39
1993 4-Month Average	843	364	_	-10	142	1,075	41

<sup>&</sup>lt;sup>a</sup> 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.

<sup>c</sup> Stocks are totals as of end of period.

<sup>d</sup> See Note 4 at end of section.

<sup>&</sup>lt;sup>e</sup> See Note 3 at end of section.

See Note 3 at end of section.

- 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.

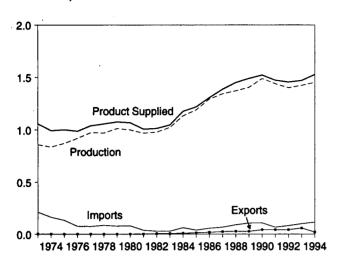
Sources: • 1973-1980: Energy Information Administration (EIA),

Petroleum Supply Monthly, February 1993, Table S6. • 1981 forward: EIA,

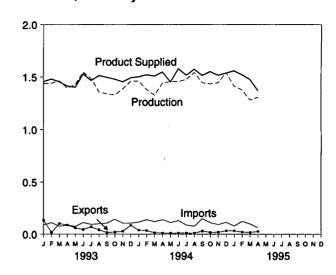
Petroleum Supply Monthly, May 1995, Table S6.

Figure 3.5 Jet Fuel

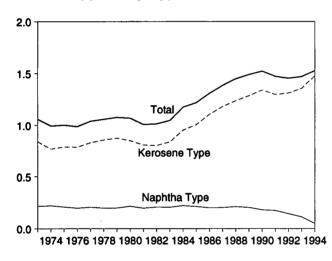
#### Overview, 1973-1994



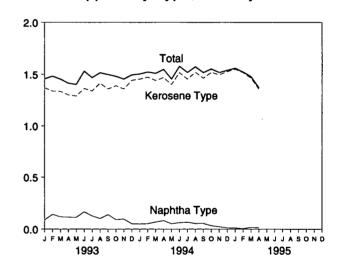
## Overview, Monthly



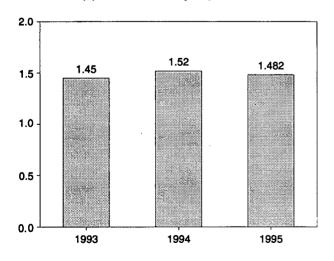
# Product Supplied by Type, 1973-1994



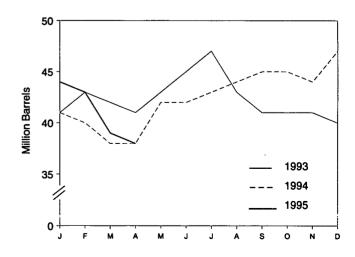
Product Supplied by Type, Monthly



# Product Supplied, January-April



Stocks, End of Month



Source: Table 3.7.

Table 3.7 Jet Fuel Supply and Disposition

		Supply			Dis	position			
	P	roduction	-	Stock		Prod	uct Supplied	Endi	ng Stocks <sup>a</sup>
	Total	Kerosene Type	Imports	Change <sup>b</sup>	Exports	Total	Kerosene Type	Total	Kerosene Type
			Thous	and Barrels p	er Day			Milli	ion Barrels
973 Average	859	679	212	8	4	1,059	842	29	23
974 Average	836	641	163	2	3	993	771	c 29	<sup>c</sup> 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
978 Average	970	791	86	-2	1	1,057	858	34	28
979 Average	1,012	835	78	13	1	1,076	876	39	33
980 Average	999	811	80	10	1	1,068	851	c 42	<sup>c</sup> 36
981 Average	968	775	38	c -4	2	1,007	809	41	34
982 Average	978	778	29	-12	6	1,013	804	° 37	<sup>c</sup> 31
983 Average	1.022	817	29	c (s)	6	1,046	839	39	32
984 Average	1,132	919	62	Š	9	1,175	953	42	35
985 Average	1,189	983	39	-4	13	1,218	1,005	40	34
<del>-</del>	1,293	1,097	57	25	18	1,307	1,105	50	43
1986 Average	1,343	1,138	67	(8)	24	1,385	1,181	50	42
<del>_</del>	1,370	1,164	90	-17	28	1,449	1,236	44	38
1988 Average	1,403	1,197	106	-8	27	1,489	1,284	41	34
1989 Average	1,488	1,311	108	31	43	1,522	1,340	52	46
1990 Average	1,438	1,274	67	-9	43	1,471	1,296	49	44
1991 Average	1,399	1,254	82	-16	43	1,454	1,310	43	39
1992 Average	1,355	1,234	02	-10		•			
1993 January	1,437	1,308	89	-64	134	1,456	1,369	41 43	36 38
February	1,440	1,316	110	53	17	1,480	1,337		38
March	1,463	1,332	76	-15	101	1,453	1,335	42	
April	1,391	1,265	88	-23	88	1,413	1,299	41	37
May	1,427	1,302	75	42	60	1,401	1,288	43	38
June	1,547	1,407	111	83	45	1,530	1,362	45	41
July	1,485	1,359	94	42	71	1,466	1,338	47	43
August	1,358	1,257	100	-98	42	1,514	1,413	43	40
September	1,338	1,241	106	-69	16	1,497	1,357	41	38
October	1,329	1,242	143	-27	20	1,479	1,389	41	37
November	1,386	1,301	105	8	29	1,453	1,357	41	38
December	1,459	1,382	105	-13	85	1,493	1,441	40	38
Average	1,422	1,309	100	-7	59	1,469	1,357	40	38
1994 January	1,461	1,394	116	36	40	1,502	1,453	41	39
February	1,379	1,331	138	-41	35	1,522	1,471	40	38
March	1,327	1,271	120	-77	14	1,509	1,440	38	36
April	1,442	1,393	138	20	12	1,548	1,467	38	36
May	1,456	1,402	112	106	9	1,453	1,401	42	40
June	1,456	1,399	130	-2	11	1,578	1,516	42	40
July	1,477	1,420	88	36	11	1,518	1,452	43	41
August	1,544	1,498	77	38	10	1,573	1,519	44	42
September	1,444	1,419	149	46	31	1,516	1,461	45	44
October	1,435	1,409	110	-25	18	1,552	1,518	45	43
November	1,444	1,433	93	(s)	19	1,517	1,495	44	43
December	1,543	1,533	114	86	33	1,538	1,526	47	46
Average	1,451	1,409	115	19	20	1,527	1,477	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	R 1,281	<sup>R</sup> 1,272	R 99	<sup>R</sup> -113	R 17	<sup>R</sup> 1,477	<sup>R</sup> 1,461	39	38
April	E 1,309	E 1,295	E 63	E -25	E 27	E 1,369	E 1,356	E 38	E 38
4-Month Average	E 1,344	E 1,333	E 90	E -72	E 25	E 1,482	E 1,470	E 38	E 38
1994 4-Month Average	1,402	1,347	128	-15	25	1,520	1,457	38	36
1993 4-Month Average	1,433	1,305	90	-14	87	1,450	1,335	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, May 1995, Table S7.

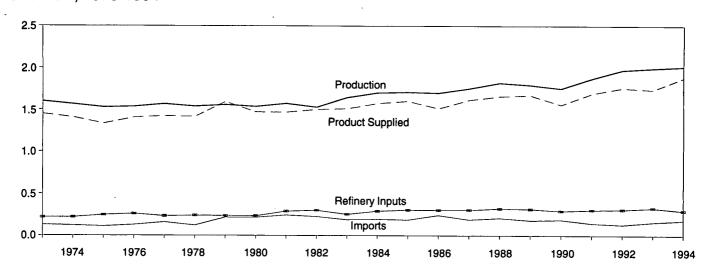
a Stocks are totals as of end of period.
 b A negative number indicates a decrease in stocks and a positive number indicates an increase.

<sup>c</sup> See Note 4 at end of section.

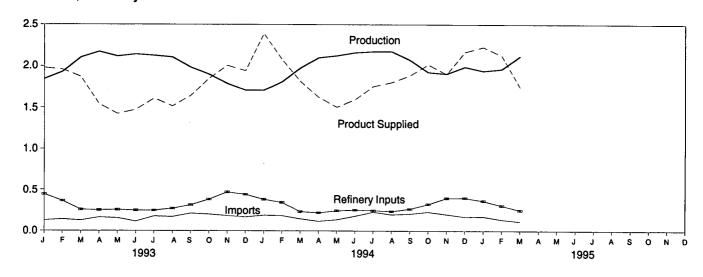
R=Revised data. E=Estimate. (s)=Less than +500 barrels per day and

Figure 3.6 Liquefied Petroleum Gases

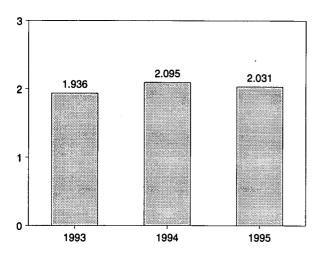
#### Overview, 1973-1994



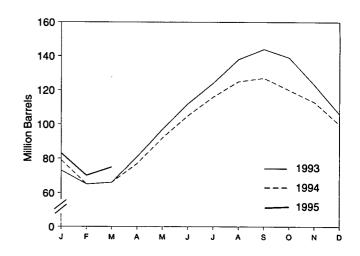
#### Overview, Monthly



Product Supplied, January-March



Stocks, End of Month



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

**Table 3.8 Liquefied Petroleum Gases Supply and Disposition** 

	Sup	ply		Dispo	Disposition					
	Total Production	Imports	Stock Change <sup>a</sup>	Refinery Inputs	Exports	Product Supplied	Ending Stocks <sup>b</sup>			
			Thousand Ba	rrels per Day			Million Barrels			
973 Average	1,600	132	35	220	27	1,449	99			
974 Average	1,565	123	38	220	25	1,406	<sup>c</sup> 113			
	1,527	112	° 35	246	26	1,333	125			
975 Average	1,535	130	-24	260	25	1,404	116			
976 Average			55	233	18	1,422	136			
977 Average	1,566	161	-12	239	20	1,413	c 132			
978 Average	1,537	123			15	1,592	111			
979 Average	1,556	217	° -70	236			° 120			
980 Average	1,535	216	27	233	21	1,469				
981 Average	1,571	244	<sup>c</sup> 18	289	42	1,466	135			
982 Average	d 1,527	226	-111	300	65	1,499	° 94			
983 Average	1,642	190	° -4	253	73	1,509	<sup>C</sup> 101			
984 Average	1,697	195	<sup>c</sup> -19	291	48	1,572	101			
	1,704	187	-75	304	62	1,599	74			
985 Average		242	80	302	42	1,512	103			
986 Average	1,695			304	38	1,612	97			
987 Average	1,748	190	-15			•	97			
988 Average	1,817	209	. 1	321	49	1,656				
989 Average	1,791	181	-47	315	35	. 1,668	80			
990 Average	1,749	188	48	293	40	1,556	98			
991 Average	1,871	147	-15	304	41	1,689	92			
992 Average	1,972	131	-10	309	49	1,755	89			
993 January	1,845	126	-492	444	39	1,980	. 73			
February	1,929	138	-309	363	55	1,958	65			
March	2,103	124	53	256	47	1,871	66			
April	2,172	161	472	250	69	1,542	81			
- T		153	540	254	50	1,425	97			
May	2,116			247	41	1,476	112			
June	2,141	111	489			1,609	124			
July	2,125	175	391	246	54					
August	2,105	168	442	269	45	1,517	138			
September	1,984	210	204	312	35	1,644	144			
October	1,899	200	-154	381	21	1,851	139			
November	1,789	181	-527	469	21	2,007	123			
December	1,710	166	-545	440	40	1,942	106			
Average	1,993	160	49	327	43	1,734	106			
994 January	1,710	187	-902	381	28	2,390	79			
February	1,809	182	-474	343	44	2,077	65			
March	1,976	144	35	232	37	1,816	66			
	2,099	114	341	218	29	1,625	77			
April	2,099	133	477	243	32	1,505	92			
May	•					1,597	105			
June	2,161	177	448	251	41	•				
July	2,174	227	358	246	40	1,757	116			
August	2,175	196	296	236	37	1,803	125			
September	2,073	205	71	264	56	1,886	127			
October	1,925	228	-229	322	40	2,019	120			
November	1,907	199	-226	396	35	1,902	113			
December	1,991	169	-448	399	41	2,168	100			
Average	2,011	180	-19	294	38	1,878	100			
995 January	1,941	172	-542	363	64	2,228	83			
February	1,964	134	-456	306	122	2,125	70			
March	2,117	111	175	248	57	1,747	75			
3-Month Average	2,009	139	-268	306	80	2,031	75			
994 3-Month Average	1,832	171	-446	318	36	2,095	66			
						1,936				

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.

Stocks are totals as of end of period.

<sup>&</sup>lt;sup>c</sup> See Note 4 at end of section.

d See Note 6 at end of section.

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

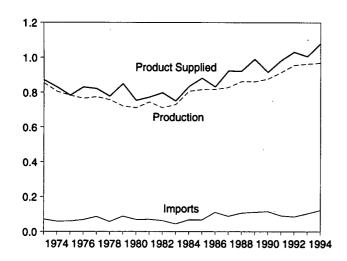
isobutane and isobutylene. propylene, normal butane, butylene,

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, May 1995, Table S9.

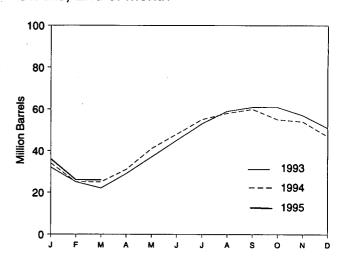
Figure 3.7 Propane and Propylene

(Million Barrels per Day, Except as Noted)

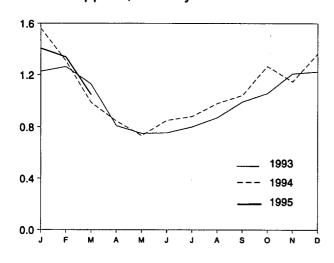
### Overview, 1973-1994



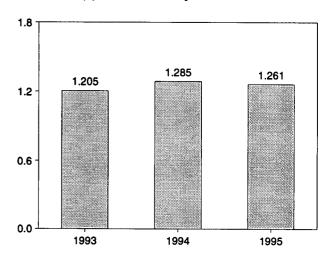
## Stocks, End of Month



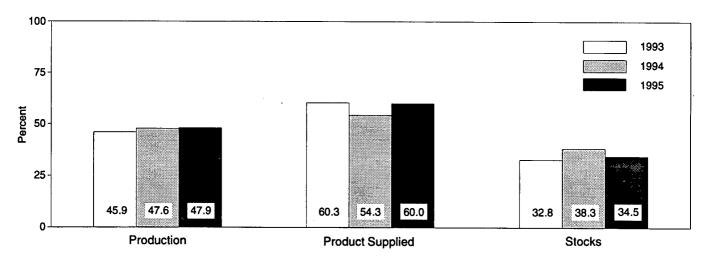
## **Product Supplied, Monthly**



## Product Supplied, January-March



## Share of Liquefied Petroleum Gases, March



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

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

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

	Sup	ply		Dispo	sition		_]
	Total Production	Imports	Stock Change <sup>a</sup>	Refinery Inputs	Exports	Product Supplied	Ending Stocks <sup>b</sup>
<del> </del>		<u>-</u>	Thousand Ba	rrels per Day			Million Barrels
	0.54	74	30	8	15	872	65
973 Average	854	71 59	30 11	9	14	830	69
974 Average	805		36	11	13	783	82
975 Average	783	60	-22	12	13	830	74
976 Average	766	68	-22 21	10	10	821	81
977 Average	775	86		13	9	778	° 87
978 Average	758	57	15 ° -61	14	8	849	64
979 Average	721	88		12	10	754	° 65
980 Average	711	69	640		18	773	76
981 Average	745	70	<sup>c</sup> 18	5	31	773 798	° 54
982 Average	711	63	-59	4		751	° 48
983 Average	730	44	° -24	4	43	833	58
984 Average	806	67	<sup>6</sup> 7	4	30		
985 Average	816	<del>6</del> 7	-50	3	48	883	39
986 Average	817	110	64	4	28	831	63
1987 Average	828	88	<b>-41</b>	8	24	924	48
1988 Average	863	106	7	8	31	923	50
989 Average	862	111	-52	11	24	990	32
990 Average	878	115	48	. (8)	28	917	49
1991 Average	915	91	-3	(8)	28	982	48
992 Average	956	85	-24	(s)	33	1,032	39
993 January	968	79	-212	1	31	1,227	32
February	964	82	-255	(s)	37	1,264	25
March	966	85	-109	(s)	32	1,129	22
April	980	108	238	(s)	40	809	29
May	951	96	266	Ö	30	750	37
June	967	75	265	0	23	754	45
July	963	118	256	0	26	800	53
	. 960	116	178	Ō	27	871	59
August	969	132	92	Ŏ	17	992	61
September	954	107	-11	ŏ	13	1,059	61
October		138	-126	ŏ	17	1,209	57
November	963			Ö	25	1,225	51
December Average	953 <b>963</b>	102 <b>103</b>	-195 <b>34</b>	(s)	26	1,006	51
_	892	134	-555	0	19	1,562	34
1994 January	908	119	-316	6	30	1,308	25
February	941	85	11	ŏ	29	987	25
March	980	81	196	ŏ	20	845	31
April	978	89	313	ŏ	20	733	41
May			224	ŏ	20	850	48
June	979	115	224 226	ŏ	22	880	55
July	979	149		0	28	980	58
August	982	133	107	0	20	1,043	60
September	1,008	131	77			1,043 1,267	55
October	953	162	-176	0	24		
November	997	137	-40	0	27	1,147	54
December	1,031	127	-233	.0	29	1,363	47
Average	969	122	-13	(8)	24	1,080	47
1995 January	1,002	108	-350	0	55 100	1,405	36 36
February	983	94	-361	, 0	100	1,338	26 26
March	1,013	90	16	(s)	39	1,048	26
3-Month Average	1,000	97	-228	(s)	63	· 1,261	26
1994 3-Month Average	914	113	-286	2	26 33	1,285 1,205	25 22

<sup>&</sup>lt;sup>a</sup> A negative number indicates a decrease in stocks and a positive number indicates an increase.

b Stocks are totals as of end of period.

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, May 1995, Table S8.

<sup>&</sup>lt;sup>c</sup> See Note 4 at end of section.

<sup>(</sup>s)=Less than 500 barrels per day.

**Table 3.10 Other Petroleum Products Supply and Disposition** 

	Supply			Disposition					
	Total Production	Imports	Stock Change <sup>a</sup>	Refinery Inputs	Exports	Products Supplied	Ending Stocks <sup>b</sup>		
			Thousand Ba	ırrels per Day			Million Barrels		
1973 Average	2,833	290	1	750	162	2,211	179		
1974 Average	2,722	269	25	665	172	2,129	° 188		
1975 Average	2,547	144	с <b>-6</b>	537	158	2,001	188		
1976 Average	2,725	129	(8)	524	172	2,158	188		
1977 Average	2,939	130	20	514	164	2,371	195		
1978 Average	3,076	80	-12	492	165	2,511	191		
1979 Average	3,141	116	24	352	208	2,673	200		
1980 Average	2,957	130	15	310	197	2,566	<sup>c</sup> 205		
1981 Average	2,771	188	c -42	723	197	2.081	241		
1982 Average	2,475	305	-68	787	205	<sup>d</sup> 1,857	<sup>c</sup> 216		
1983 Average	2,437	382	c -6	712	236	1,877	<sup>c</sup> 217		
1984 Average	2,500	503	c -32	791	236	2,007	198		
1985 Average	2,532	550	22	886	227	1,947	206		
1986 Average	2,704	504	-15	888	291	2,045	201		
1987 Average	2,737	543	-1	829	264	2,187	200		
1988 Average	2,773	645	22	799	294	2,303	208		
1989 Average	2,771	627	12	797	305	2,285	213		
1990 Average	2,842	705	-32	887	289	2,402	201		
991 Average	2,826	675	18	936	277	2,269	208		
992 Average	2,928	707	-3	906	263	2,470	<sup>c</sup> 207		
993 January	<sup>6</sup> 3,147	726	<sup>c</sup> 739	929	<sup>ө</sup> 271	<sup>6</sup> 1,933	229		
February	2,853	773	111	1,057	282	2,176	233		
March	2,887	826	245	843	269	2,356	240		
April	2,935	753	-29	1,033	315	2,368	239		
May	2,941	834	80	1,048	278	2,368	242		
June	3,099	654	-239	1,064	278	2,650	235		
July	3,213	894	61	1,008	303	2,735	237		
August	3,167	693	-28	940	294	2,654	236		
September	3,067	800	-268	1,104	282	2,749	228		
October	3,195	810	-114	1,189	369	2,561	224		
November	3,080	795	-222	1,355	309	2,433	217		
December	2,816	678	-376	1,403	349	2,117	206		
Average	3,035	770	-2	1,081	300	2,426	206		
994 January	2,719	780	507	590	256	2,147	221		
February	2,779	725	236	638	248	2,383	228		
March	2,805	753	32	939	361	2,226	229		
April	2,901	780	-108	981	272	2,536	226		
May	3,088	754	-26	975	288	2,605	225		
June	3,127	716	-133	865	331	2,781	221		
July	3,155	745	89	733	361	2,717	223		
August	3,087	801	-31	782	411	2,725	223		
September	3,086	686	92	754	388	2,538	225		
October November	3,067	700	-75	902	300	2,638	223		
	2,996	749	37	1,013	344	2,352	224		
December	2,862	762	-278	1,049	386	2,467	215		
Average	2,974	746	27	853	329	2,510	215		
995 January	2,819	563	383	634	324	2,041	227		
February	2,914	802	236	722	320	2,438	234		
March 3-Month Average	2,797 <b>2,841</b>	669 <b>674</b>	-8 <b>203</b>	873 <b>744</b>	329 <b>324</b>	2,273 <b>2,244</b>	234 <b>234</b>		
•	·						234		
994 3-Month Average 993 3-Month Average	2,768 2,966	754 775	259 373	725 939	289 274	2,248 2,154	229 240		

<sup>&</sup>lt;sup>a</sup> A negative number indicates a decrease in stocks and a positive number indicates an increase.

Stocks are totals as of end of period.

<sup>&</sup>lt;sup>c</sup> See Note 4 at end of section.

See Note 6 at end of section.

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

<sup>(</sup>s)=Less than +500 barrels per day and greater than -500 barrels per day.

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

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

### **Petroleum Notes**

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

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

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

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

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

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

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

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

- 4. New Stock Basis: In January 1975, 1979, 1981, and 1983, numerous respondents were added to bulk terminal and pipeline surveys, affecting subsequent stocks reported and stock change calculations. Using the expanded coverage (new basis), the end-of-year stocks, in million barrels, would have been:
  - Crude Oil: 1982—645 (Total) and 351 (Other Primary).
  - Crude Oil and Petroleum Products: 1974—1,121; 1980—1,425; and 1982—1,461.
  - Motor Gasoline: 1974—225; 1980—263 (Total) and 214 (Finished); 1982—244 (Total) and 202 (Finished).
  - Distillate Fuel Oil: 1974—224; 1980—205; and 1982—186.
  - Residual Fuel Oil: 1974—75; 1980—91; and 1982—69.
  - Jet Fuel: 1974—30 (Total) and 24 (Kerosene Type); 1980—42 (Total) and 36 (Kerosene Type); and 1982—39 (Total) and 32 (Kerosene Type).
  - Liquefied Petroleum Gases: 1974—113; 1978—136; 1980—128; and 1982—102.
  - Propane and Propylene: 1978—86; 1980—69; and 1982—57.
  - Other Petroleum Products: 1974—190; 1980— 207; and 1982—219.

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

In January 1984, changes were made in the reporting of natural gas liquids. As a result, unfractionated stream, which was formerly included in the "Other Petroleum Products Supply and Disposition" table, is now reported on a component basis (ethane, propane, normal butane, isobutane, and pentanes plus). Most of these stocks now appear in the "Liquefied Petroleum Gases Supply and

Disposition" table. This change affects stocks reported and stock change calculations in each table. Under the new basis, end-of-year 1983 stocks, in million barrels, would have been:

• Liquefied Petroleum Gases: 1983—108.

• Propane and Propylene: 1983—55.

• Other Petroleum Products: 1983-210.

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

- 5. Stocks of Alaskan Crude Oil: Stocks of Alaskan Crude oil in transit were included for the first time in January 1981. The major impact of this change is on the reporting of stock change calculations. Using the expanded coverage (new basis), 1980 end-of-year stocks, in million barrels, would have been 488 (Total) and 380 (Other Primary).
- 6. Data Discrepancies: Due to differences internal to EIA data processing systems, some small discrepancies exist between data in the Monthly Energy Review (MER) and the Petroleum Supply Annual (PSA) and Petroleum Supply Monthly (PSM). The data that have discrepancies are footnoted in Section 3 tables and summarized here.

Table	Data Series	Year Average	<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 March 1995 was an estimated 1.6 trillion cubic feet, less than 1 percent<sup>4</sup> higher than production during the previous March. Dry natural gas production during the first quarter of 1995 was 4.7 trillion cubic feet, 1 percent higher than during the first quarter of 1994.

Consumption of natural and supplemental gas in March 1995 was 2.1 trillion cubic feet, 3 percent above the level in March 1994. Consumption of natural and supplemental gas during the first quarter of 1995 was 6.7 trillion cubic feet, 2 percent lower than the first quarter of 1994.

Deliveries to residential consumers in February 1995 (latest date for which data are available) were 763 billion cubic feet, 9 percent below the previous February's deliv-

eries. Total deliveries to industrial consumers during February 1995 were 719 billion cubic feet, 3 percent higher than the previous February's level.

Imports of natural gas in March 1995 were 232 billion cubic feet, 8 percent higher than imports in the previous March. Imports of natural gas during the first quarter of 1995 were an estimated 706 billion cubic feet, 10 percent higher than imports during the first quarter of 1994.

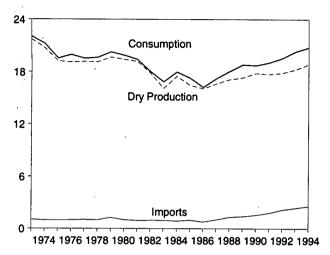
Stocks of working gas<sup>5</sup> in underground natural gas storage reservoirs at the end of March 1995 totaled 1.3 trillion cubic feet, 38 percent above the level of stocks available 1 year earlier. Net withdrawals from storage during March 1995 were 215 billion cubic feet, 62 percent above the amount of net withdrawals during the previous March.

<sup>&</sup>lt;sup>4</sup>Percentage changes are based on unrounded data.

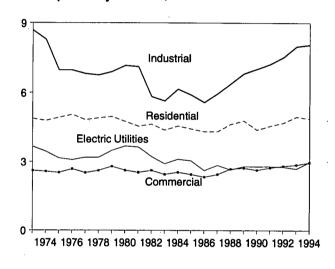
<sup>&</sup>lt;sup>5</sup>Gas available for withdrawal.

Figure 4.1 Natural Gas

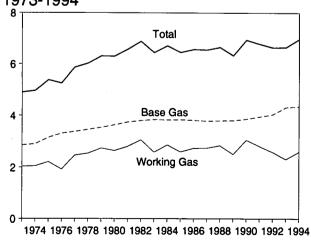
### Overview, 1973-1994



# Consumption by Sector, 1973-1994

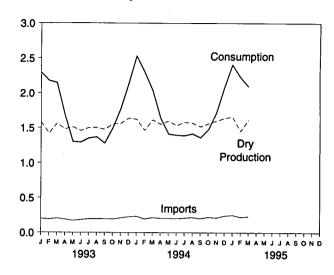


# Underground Storage, End of Year, 1973-1994

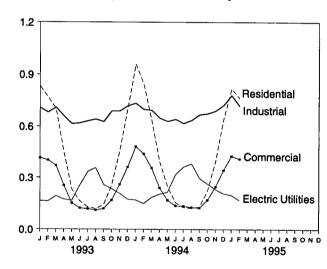


Note: Because vertical scales differ, graphs should not be compared. Sources: Tables 4.2, 4.4, and 4.5.

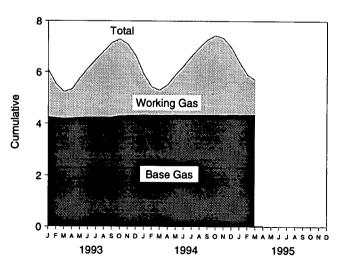
## Overview, Monthly



## Consumption by Sector, Monthly



## Underground Storage, End of Month



**Table 4.1 Natural Gas Production** 

	Gross Withdrawals <sup>a</sup>	Repressuring <sup>b</sup>	Nonhydro- carbon Gases Removed <sup>c</sup>	Vented and Flared <sup>d</sup>	Marketed Production (Wet) <sup>e</sup>	Extraction Loss <sup>f</sup>	Total Dry Gas Production <sup>s</sup>
	04.007	4 474	NA.	248	<sup>h</sup> 22,648	917	<sup>h</sup> 21,731
1973 Total	24,067	1,171	NA NA	169	h 21,601	887	<sup>h</sup> 20,713
974 Total	22,850	1,080			h 20,109	872	h 19,236
975 Total	21,104	861	NA	134		854	h 19,098
976 Total	20,944	859	NA	132	h 19,952		h 19,163
977 Total	21,097	935	NA	137	<sup>h</sup> 20,025	863	
978 Total	21,309	1,181	NA	153	<sup>ի</sup> 19,974	852	<sup>h</sup> 19,122
979 Total	21,883	1,245	NA	167	<sup>h</sup> 20,471	808	<sup>h</sup> 19,663
980 Total	21,870	1,365	199	125	20,180	777	19,403
981 Total	21,587	1,312	222	98	19,956	775	19,181
	20,272	1,388	208	93	18,582	762	17,820
982 Total	18,659	1,458	222	95	16,884	790	16,094
983 Total		1,630	224	108	18,304	838	17,466
984 Total	20,267	-,			,	816	16,454
985 Total	19,607	1,915	326	95 98	17,270	800	16,059
1986 Total	19,131	1,838	337		16,859		
987 Total	20,140	2,208	376	124	17,433	812	16,621
1988 Total	20,999	2,478	460	143	17,918	816	17,103
989 Total	21,074	2,475	362	142	18,095	785	17,311
1990 Total	21,523	2,489	289	150	18,594	784	17,810
991 Total	21,750	2,772	276	170	18,532	835	17,698
1992 Total	22,132	2,973	280	168	18,712	872	17,840
993 January	1,965	261	35	10	1,658	77	1,581
February	1,767	235	- 31	11	1,490	69	1,421
March	1,943	262	35	9	1,637	76	1,561
April	1,843	247	33	9	1,553	72	1,481
	1,879	252	35	9	1,584	73	1,511
May	,	229	27	11	1,527	71	1,457
June	1,795		36	9	1,573	73	1,501
July	1,851	232		9	•	73 73	1,502
August	1,871	250	37	_	1,575	73 72	1,476
September	1,832	240	35	10	1,548		
October	1,951	277	36	10	1,628	75	1,552
November	1,967	285	36	8	1,637	76	1,561
December	2,064	299	37	10	1,719	80	1,639
Total	22,729	3,069	414	116	19,130	886	18,244
994 January	2,045	300	33	9	1,702	79	1,623
February	1,843	270	30	8	1,534	71	_ 1,462
March	R 2,037	300	35	9	<sup>R</sup> 1,693	79	<sup>R</sup> 1,614
	R 1,943	274	33	9	<sup>R</sup> 1,627	76	R 1,552
April	2,003	286	34	ğ	1,675	78	1,597
May		261	27	9	1,608	75	1,533
June	1,906				1,656	73 77	1,533
July	1,965	269	30	10	•	77	1,568
August		267	28	10	1,645		
September	1,890	262	29	10	1,590	74	1,516
October	1,987	308	30	10	1,638	76	1,562
November	<sup>R</sup> 2,014	_ 296	30	10	R 1,677	78	<sup>R</sup> 1,599
December	<sup>R</sup> 2,095	<sup>R</sup> 336	30	_ 10	<sup>R</sup> 1,719	R 80	<sup>R</sup> 1,639
Total	R 23,678	<sup>R</sup> 3,429	369	<sup>R</sup> 115	<sup>R</sup> 19,765	<sup>R</sup> 921	R 18,844
995 January	<sup>E</sup> 2,116	€ 333	E 32	E 10	E 1,741	E 81	E 1,659
February	E	E 274	E 27	€9	<sup>E</sup> 1,523	<u>€</u> 71	E 1,452
March	E 2,055	E 320	E 30	E 10	E 1,694	E 79	<sup>E</sup> 1,615
3-Month Total		E 927	E 89	E 30	E 4,958	E 231	E 4,727
1994 3-Month Total	5,925	870	98	27	4,929	230	4,700
1007 O MOHILI I VIGI	5,675	758	101	31	4,785	222	4,563

<sup>&</sup>lt;sup>a</sup> Gas withdrawn from gas and oil wells.

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

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

See Note 1 at end of section.

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

gas processing plants. "Index values gas barried in the barried and gas processing plants.

<sup>e</sup> "Gross Withdrawals" minus "Repressuring," "Nonhydrocarbon Gases Removed," and "Vented and Flared." See Note 2 at end of section.

<sup>1</sup> See Note 3 at end of section.

<sup>9 &</sup>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.

Table 4.2 Natural Gas Supply and Disposition

ĺ		T	Supply			]		Dispositio	n
	Total Dry Gas Production	Withdrawals from Storage <sup>a</sup>	Supplemental Gaseous Fuels <sup>b</sup>	Imports <sup>c</sup>	Balancing Item <sup>b</sup>	Total Supply/ Disposition <sup>d</sup>	Additions to Storage <sup>a</sup>	Exports	Consumptionb
		-				<u> </u>			
1973 Total	<sup>e</sup> 21,731	1,533	NA	1,033	-196	24,101	1,974	77	22,049
1974 Total	<sup>e</sup> 20,713	1,701	NA	959	-289	23,084	1,784	77	21,223
1975 Total	<sup>6</sup> 19,236	1,760	NA	953	-235	21,714	2,104	73	19,538
1976 Total	<sup>e</sup> 19,098	1,921	NA	964	-216	21,767	1,756	65	19,946
1977 Total	<sup>6</sup> 19,163	1,750	NA	1,011	-41	21,883	2,307	56	19,521
1978 Total	<sup>6</sup> 19,122	2,158	NA	966	-287	21,958	2,278	53	19,627
1979 Total	<sup>e</sup> 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	†-703	18,712	1,822	55	16,835
1984 Total	17,466	2,098	110	843	<sup>1</sup> -217	20,300	2,295	55	17,951
1985 Total 1986 Total	16,454 16,050	2,397	126	950 750	-428 400	19,499	2,163	55	17,281
1987 Total	16,059 16,631	1,837	113	750	-493	18,266	1,984	61	16,221
1988 Total	16,621	1,905	101	993	-444	19,176	1,911	54	17,211
1989 Total	17,103 17,311	2,270	101	1,294	-453	20,315	2,211	74	18,030
1990 Total	17,810	2,854	107	1,382	-218	21,435	2,528	107	18,801
1991 Total	17,698	1,986 2,752	123 113	1,532	-149 500	21,302	2,499	86	18,716
1992 Total	17,840	2,752 2,772	118	1,773	-500 500	21,836	2,672	129	19,035
332 Total	17,040	2,772	110	2,138	-508	22,360	2,599	216	19,544
1993 January	1,581	<sup>R</sup> 614	13	200	<sup>R</sup> -63	<sup>R</sup> 2,346	R 37	17	2,292
February	1,421	<sup>R</sup> 591	11	191	R-5	R 2.209	R 22	12	2,175
March	1,561	<sup>R</sup> 395	12	204	R 69	R 2,241	R 79	16	2,146
April	1,481	<sup>R</sup> 103	10	189	R 129	R 1,912	<sup>R</sup> 216	11	1,685
May	1,511	R 30	7	171	<sup>R</sup> 66	<sup>R</sup> 1,786	R 471	11	1,303
June	1,457	R 36	9	182	R 44	<sup>R</sup> 1.727	<sup>R</sup> 424	11	1,293
July	1,501	R 35	8	195	R 24	<sup>R</sup> 1.762	R 398	13	1,352
August	1,502	R 45	8	197	R <sub>2</sub>	<sup>H</sup> 1.755	<sup>R</sup> 375	11	1,369
September	1,476	<sup>R</sup> 26	8	194	R-23	<sup>H</sup> 1.681	R 391	10	1,280
October	1,552	R 103	10	192	R <sub>-93</sub>	<sup>H</sup> 1,764	R 262	9	1,493
November	1,561	<sup>R</sup> 311	11	210	<sup>R</sup> -206	<sup>H</sup> 1.887	<sup>R</sup> 106	10	1,771
December	1,639	<sup>R</sup> 510	13	225	R-188	<sup>R</sup> 2,198	<sup>R</sup> 54	10	2,134
Total	18,244	2,799	119	2,350	-244	23,268	2,835	140	20,293
994 January	1,623	757	14	233	<sup>R</sup> -53	R 2,574	33	11	<sup>R</sup> 2,530
February	1,462	543	12	195	<sup>R</sup> 146	<sup>R</sup> 2,359	49	11	R 2,299
March	<sup>R</sup> 1,614	236	11	214	<sup>R</sup> 86	<sup>R</sup> 2.162	103	19	R 2,040
April	<sup>R</sup> 1,552	68	10	205	R 93	<sup>R</sup> 1,928	280	8	<sup>R</sup> 1,640
May	1,597	25	10	206	<sup>R</sup> -1	<sup>R</sup> 1.836	417	9	R 1,411
June	1,533	33	9	200	R <sub>B</sub>	<sup>R</sup> 1,783	375	12	<sup>R</sup> 1,396
July	1,579	24	10	209	R-20	<sup>H</sup> 1.802	403	11	<sup>R</sup> 1,389
August	1,568	29	9	218	R-32	<sup>R</sup> 1.792	364	14	R 1,415
September	1,516	21	10	203	<sup>R</sup> -39	<sup>R</sup> 1.710	335	14	<sup>R</sup> 1,361
October	1,562	53	10	221	R-141	<sup>R</sup> 1.706	215	R 13	<sup>R</sup> 1.478
November	<sup>R</sup> 1,599	196	11	212	<sup>R</sup> -183	<sup>R</sup> 1.836	98	<sup>R</sup> 19	H 1.719
December	<sup>H</sup> 1.639	422	13	241	<sup>H</sup> -156	<sup>n</sup> 2.158	54	R 17	R 2,086
Total	R 18,844	2,408	129	2,558	R-293	<sup>R</sup> 23,645	2,726	<sup>R</sup> 157	R 20,762
995 January	<sup>E</sup> 1,659	619	<sup>R</sup> 14	<sup>R</sup> 251	R-83	<sup>R</sup> 2,460	40	12	R 2,407
February	<sup>E</sup> 1.452	541	12	R 224	R 51	<sup>R</sup> 2,280	43	13	R 2,225
March	<sup>E</sup> 1.615	315	10	232	34	2,207	100	13	2,225
3-Month Total	E 4,727	1,475	36	706	3	6,947	183	37	6,727
994 3-Month Total	4,700	1,537	37	642	179	7,094	186	44	
993 3-Month Total	4,563	1,601	36	595	1/9	6,796	138	41 45	6,868 6,613

<sup>&</sup>lt;sup>a</sup> Data for 1980-1993 include underground storage and liquefied natural gas storage. All other data include underground storage only. Computation procedures are discussed in Note 8 at end of section.

b See Notes at end of section.

C See Table 4.3.
Data for 1978 forward do not include in-transit receipts and deliveries.

<sup>&</sup>lt;sup>e</sup> May include unknown quantities of nonhydrocarbon gases.

f See Note 7 at end of section.

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

Notes: 

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

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

Sources: See end of section.

**Table 4.3 Natural Gas Trade by Country** 

973 Total 974 Total 975 Total 976 Total 977 Total 978 Total 980 Total 981 Total 982 Total 983 Total 984 Total 985 Total 986 Total 987 Total 987 Total	Canada <sup>a</sup> 1,028 959 948 954 997 881 1,001 797 762 783 712 755 926 749 993 1,276	3 0 5 10 11 84 253 86 37 55 131 36 24	Other <sup>C</sup> 2 (8) 0 0 2 0 102 105 95 75 52	Total  1,033 959 953 964 1,011 966 1,253 985 904 933	15 13 10 8 (s) (s) (s) (s)	Mexico <sup>a</sup> 14 13 9 7 4 4 4 4 3	Japan <sup>b</sup> 48 50 53 50 52 48 51 45	77 77 73 65 56 53 56 49
974 Total	959 948 954 997 881 1,001 797 762 783 712 755 926 749	0 5 10 11 84 253 86 37 55 131 36 24	(8) 0 0 2 0 0 102 105 95 75	959 953 964 1,011 966 1,253 985 904 933	13 10 8 (s) (s) (s)	13 9 7 4 4 4	50 53 50 52 48 51 45	77 73 65 56 53 56
974 Total	959 948 954 997 881 1,001 797 762 783 712 755 926 749	0 5 10 11 84 253 86 37 55 131 36 24	(8) 0 0 2 0 0 102 105 95 75	959 953 964 1,011 966 1,253 985 904 933	13 10 8 (s) (s) (s)	13 9 7 4 4 4	53 50 52 48 51 45	73 65 56 53 56
975 Total	948 954 997 881 1,001 797 762 783 712 755 926 749	5 10 11 84 253 86 37 55 131 36 24	0 0 2 0 0 102 105 95 75	953 964 1,011 966 1,253 985 904 933	10 8 (s) (s) (s) (s)	9 7 4 4 4	53 50 52 48 51 45	65 56 53 56
976 Total	954 997 881 1,001 797 762 783 712 755 926 749	10 11 84 253 86 37 55 131 36 24	0 2 0 0 102 105 95 75	964 1,011 966 1,253 985 904 933	8 (s) (s) (s) (s)	7 4 4 4 4	50 52 48 51 45	65 56 53 56
977 Total	997 881 1,001 797 762 783 712 755 926 749 993	11 84 253 86 37 55 131 36 24	2 0 0 102 105 95 75	1,011 966 1,253 985 904 933	(8) (8) (8) (8)	4 4 4 4	52 48 51 45	56 53 56
977 Total	881 1,001 797 762 783 712 755 926 749 993	84 253 86 37 55 131 36 24	0 0 102 105 95 75	966 1,253 985 904 933	(s) (s) (s)	4 4 4	48 51 45	53 56
978 Total	1,001 797 762 783 712 755 926 749 993	253 86 37 55 131 36 24	0 102 105 95 75	1,253 985 904 933	(s) (s)	4	51 45	56
979 Total	797 762 783 712 755 926 749 993	86 37 55 131 36 24	102 105 95 75	985 904 933	(s)	4	45	
980 Total	797 762 783 712 755 926 749 993	37 55 131 36 24	105 95 75	904 933		•		49
981 Total 982 Total 983 Total 985 Total 986 Total 987 Total	762 783 712 755 926 749 993	55 131 36 24	95 75	933	(8)	3.		59
982 Total 983 Total 984 Total 985 Total 986 Total	783 712 755 926 749 993	131 36 24	75				56	
983 Total 984 Total 985 Total 986 Total 987 Total	712 755 926 749 993	131 36 24	75		(8)	2	50	52
984 Total 985 Total 986 Total 987 Total	755 926 749 993	36 24		918	(8)	2	53	55
985 Total 986 Total 987 Total	926 749 993	24	72	843	(8)	2	53	55
986 Total 987 Total	749 993		0	950	(s)	2	53	55
987 Total	993		2	750	`°9	2	50	61
1		0		993	3	- 2	49	54
988 Total	1,276	.0	0		20	2	52	74
		17	0	1,294		17	51	107
989 Total	1,339	42	0	1,382	38	16	53	86
990 Total	1,448	84	0	1,532	17		54	129
991 Total	1,710	64	0	1,773	15	60	53	216
992 Total	2,094	43	. 0	2,138	68	96	53	210
993 January	195	5	0	200	4	8	4	17
	183	8	Ó	191	6	2	4	12
February	199	5	Ō	204	7	4	6	16
March		8	ŏ	189	4	3	4	11
April	181	5	ŏ	171	3	4	4	11
May	166		ŏ	182	3	4	3	11
June	175	8	_	195	4	4	5	13
July	187	8	0		3	3	5	11
August	192	5	0	197	2	2	5	10
September	184	10	0	194		2	3	Š
October	187	5	0	192	3		5	10
November	202	8	0	210	3	2		10
December	216	8	2	225	3	. 1	7	
Total	2,267	82	2	2,350	45	40	56	140
004 January	221	10	2	233	4	2	5	11
994 January	189	5	- Ī	195	6	1	4	11
February		8	2	214	12	2	6	19
March		8	ō	205	4	1	4	8
April		5	2	206	3	2	4	9
May			1	200	5	ī	6	12
June		5			3	ż	6	1.
July		8	0	209	1	7	6	10
August		0	0	218	•	7	6	16
September		3	0	203	1	R 5	6	R 1
October		0	0	221	, 2 R 4	"5 Rg	6	R
November		0	0	212	R 4			R 1
December		0	0	241	R <sub>3</sub>	R7	7	R 15
Total	0.500	51	7	2,558	<sup>R</sup> 48	R 47	63	``15
IOOE January	R 248	3	0	<sup>R</sup> 251	3	4	6	1:
1995 January	D	3	ŏ	R 224	3	4	6	1
February		3	ŏ	232	3	4	6	1
March		8	ŏ	706	ğ	12	17	3
3-Month Total	698	0	Ū					
1994 3-Month Total	. 615 . 577	23 18	5 0	642 595	21 16	5 14	15 15	4

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 50 States and the District of Columbia.

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

C Other imports are from Mexico, except for 1986, when they came from Indonesia.

Table 4.4 Natural Gas Consumption by End-Use Sector

				Deliv	rered to Consum	ers		ļ
	Lease and Plant Fuel	Pipeline Fuel <sup>a</sup>	Residential	Commercial <sup>b</sup>	Industrial	Electric Utilities	Total	Total Consumptio
1973 Total	1,496	728	4,879	2 507	0.000			
1974 Totai	1,477	669	4,786	2,597	8,689	3,660	19,825	22,049
1975 Total	1,396	583		2,556	8,292	3,443	19,077	21,223
1976 Total	1,634	548	4,924 5 051	2,508	6,968	3,158	17,558	19,538
1977 Total	1,659	533	5,051	2,668	6,964	3,081	17,764	19,946
1978 Total	1,648		4,821	2,501	6,815	3,191	17,329	19,521
1979 Total	•	530	4,903	2,601	6,757	3,188	17,449	19,627
1980 Total	1,499 1,026	601	4,965	2,786	6,899	3,491	18,141	20,241
1981 Total	•	635	4,752	2,611	7,172	3,682	18,216	19,877
1997 Total	928	642	4,546	2,520	7,128	3,640	17,834	19,404
1982 Total	1,109	596	4,633	2,606	5,831	3,226	16,295	18,001
1983 Total	978	490	4,381	2,433	5,643	2,911	15,367	16,835
1984 Total	1,077	529	4,555	2,524	6,154	3,111	16,345	17,951
1985 Total	966	504	4,433	2,432	5,901	3,044	15,811	17,281
1986 Total	923	485	4,314	2,318	5,579	2,602	14,814	
1987 Total	1,149	519	4,315	2,430	5,953	2,844	15,542	16,221
1988 Total	1,096	614	4,630	2,670	6,383	2,636	16,320	17,211
1989 Total	1,070	629	4,781	2,718	6,816	2,787		18,030
1990 Total	1,236	660	4,391	2,623	7,018	2,787	17,102	18,801
1991 Total	1,129	601	4,556	2,729	7,231		16,820	18,716
1992 Total	1,171	588	4,690	2,803	7,527	2,789 2,766	17,305 17,786	19,035 19,544
993 January	102	72	831	416	708	164	0.110	•
February	92	68	768	403	681		2,119	2,292
March	101	67	703	371	710	162	2,015	2,175
April	96	52	450	254	659	194	1,978	2,146
May	98	39	232	152		174	1,537	1,685
June	94	39	164	123	614	167	1,166	1,303
July	96	41	130	119	618	255	1,160	1,293
August	97	42	120	111	631	334	1,214	1,352
September	95	39	142		641	357	1,230	1,369
October	101	45	255	120	627	258	1,146	1,280
November	102	55		169	689	235	1,347	1,493
December	107	66	457	260	689	208	1,615	1,771
Total	1,180	624	705 <b>4,95</b> 7	362 <b>2,863</b>	719 <b>7,986</b>	174 <b>2,682</b>	1,961 <b>18,488</b>	2,134
994 January	107	78	050	R 482	•	•	•	20,293
February	96	P 71	959 B 242	``482	<sup>R</sup> 734	170	<sup>R</sup> 2,345	<sup>R</sup> 2,530
March	106	R <sub>63</sub>	R 843	R 440	R 699	149	<sup>R</sup> 2,132	R 2.299
April	102		<sup>R</sup> 635 <sup>R</sup> 395	R 356	<sup>R</sup> 694	186	<sup>R</sup> 1,871	R 2,040
May	105	50	"395 Bose	R 240	<sup>R</sup> 648	204	<sup>R</sup> 1,487	<sup>R</sup> 1.640
June	101	43	R 248	<sup>R</sup> 169	<sup>R</sup> 629	216	<sup>R</sup> 1.263	R 1,411
July	104	43 R 43	R 155	R 137	<sup>R</sup> 641	319	<sup>R</sup> 1,252	<sup>H</sup> 1.396
		*43 B 44	R 128	<sup>R</sup> 135	<sup>R</sup> 617	362	<sup>R</sup> 1.243	<sup>R</sup> 1,389
August	103	R 44	R 123	<sup>R</sup> 128	<sup>R</sup> 635	382	R 1.268	R 1.415
September	100	42	R 131	R 124	<sup>R</sup> 668	296	· R 1.220	<sup>R</sup> 1,361
October	103	45	R 222	<sup>R</sup> 170	R 674	264	<sup>R</sup> 1,330	R 1,478
November	105	R 53	R 393	247	R 690	231	<sup>R</sup> 1 561	<sup>R</sup> 1,719
December	108	R 64	R 641	R 343	<sup>R</sup> 723	208	R 1.914	R 2,086
Total	<sup>R</sup> 1,237	R 639	R 4,874	R 2,971	R 8,054	2,987	R 18,886	R 20,762
95 January	R 109	R 74	<sup>R</sup> 818	<sup>R</sup> 428	<sup>R</sup> 780	199	R <sub>2,224</sub>	<sup>R</sup> 2,407
February	95	68	763	411	719	169	2,062	
2-Month Total	204	143	1,581	838	1,499	367	4,286	2,225 <b>4,633</b>
994 2-Month Total	203	149	1,802	923	1,433	319	4 477	
993 2-Month Total	194	140	1,599	819	1,389	319	4,477 4,134	4,828 4,467

<sup>&</sup>lt;sup>a</sup> Natural gas consumed in the operation of pipelines, primarily in

Notes: • Natural gas includes supplemental gaseous fuels. • Totals may

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

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

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

Table 4.5 Natural Gas in Underground Storage

(Volumes in Billion Cubic Feet)

1973 Total	atural Gas in ground Storage nd of Period	), 	Change in We from Same Previous	Period		Storage Activity	
974 Total	Vorking Gas	Totala	Volume	Percent	Injectionsb	Withdrawals <sup>b</sup>	Net <sup>c</sup>
974 Total	2.034	4,898	305	17.6	1,974	1,533	442
975 Total	2,050	4,962	16	.8	1,784	1,701	84
976 Total	2,212	5,374	162	7.9	2,104	1,760	344
977 Total	•	5,250	-286	-12.9	1,756	1,921	-165
978 Total	1,926	5,866	549	28.5	2,307	1,750	557
1979 Total   3,553     1980 Total   3,642     1981 Total   3,752     1982 Total   3,808     1983 Total   3,847     1984 Total   3,830     1985 Total   3,842     1986 Total   3,819     1987 Total   3,800     1988 Total   3,812     1990 Total   3,868     1991 Total   3,954     1992 Total   4,044     1993 January   4,259     February   4,231     March   4,204     April   4,219     May   4,244     June   4,257     July   4,256     August   4,263     September   4,326     December   4,327     Total   4,345     May   4,345     May   4,355     June   4,355     September   4,355     October   4,353     October   4,356     Oc	2,475	6,020	72	2.9	2,278	2,158	120
1980 Total   3,642     1981 Total   3,752     1982 Total   3,808     1983 Total   3,847     1984 Total   3,830     1985 Total   3,842     1986 Total   3,819     1987 Total   3,792     1988 Total   3,812     1989 Total   3,812     1990 Total   3,858     1991 Total   3,954     1992 Total   4,044     1993 January   4,259     February   4,231     March   4,204     April   4,219     May   4,256     August   4,263     September   4,256     October   4,315     November   4,327     Total   4,327     1994 January   4,348     February   4,337     March   4,343     April   4,345     May   4,355     June   4,355     June   4,355     September   4,355     October   4,356     October   4,3	2,547	6,306	207	8.1	2,295	2.047	248
1981 Total         3,752           1982 Total         3,808           1983 Total         3,847           1984 Total         3,830           1985 Total         3,842           1986 Total         3,819           1987 Total         3,792           1988 Total         3,800           1989 Total         3,812           1990 Total         3,868           1991 Total         3,954           1992 Total         4,044           1993 January         4,259           February         4,231           March         4,204           April         4,219           May         4,244           June         4,256           October         4,315           November         4,326           December         4,327           Total         4,327           1994 January         4,348           February         4,337           March         4,343           April         4,344           May         4,352           June         4,355           July         4,355           September         4,353	2,753		-99	-3.6	1,896	1,910	-14
1982 Total         3,808           1983 Total         3,847           1984 Total         3,830           1985 Total         3,842           1986 Total         3,819           1987 Total         3,800           1988 Total         3,800           1989 Total         3,868           1991 Total         3,954           1992 Total         4,044           1993 January         4,259           February         4,231           March         4,244           June         4,257           July         4,256           August         4,263           September         4,256           October         4,315           November         4,326           December         4,327           Total         4,327           Total         4,337           March         4,348           February         4,337           March         4,343           April         4,344           June         4,352           June         4,355           June         4,355           June         4,355           Oct	2,655	6,297	162	6.1	2,180	1,887	293
1983 Total         3,847           1984 Total         3,830           1985 Total         3,842           1986 Total         3,819           1987 Total         3,792           1988 Total         3,800           1989 Total         3,812           1990 Total         3,954           1991 Total         3,954           1992 Total         4,044           1993 January         4,259           February         4,231           March         4,204           April         4,219           May         4,244           June         4,257           July         4,256           August         4,263           September         4,256           October         4,315           November         4,326           December         4,327           Total         4,327           1994 January         4,348           February         4,337           March         4,343           April         4,343           April         4,343           April         4,345           May         4,352	2,817	6,569	255	9.0	2,399	2,094	306
1984 Total         3,830           1985 Total         3,842           1986 Total         3,819           1987 Total         3,792           1988 Total         3,800           1989 Total         3,812           1990 Total         3,868           1991 Total         3,954           1992 Total         4,044           1993 January         4,259           February         4,231           March         4,204           April         4,219           May         4,244           June         4,257           July         4,256           August         4,263           September         4,256           August         4,263           September         4,326           December         4,327           Total         4,327           Total         4,327           1994 January         4,348           February         4,337           March         4,343           April         4,345           May         4,352           July         4,355           July         4,355           Oct	3,071	6,879	-476	-15.5	1,700	2,142	-442
1985 Total	2,595	6,442	281	10.8	2,252	2,064	188
1986 Total         3,819           1987 Total         3,792           1988 Total         3,800           1989 Total         3,812           1990 Total         3,868           1991 Total         3,954           1992 Total         4,044           1993 January         4,259           February         4,231           March         4,204           April         4,219           May         4,244           June         4,257           July         4,263           September         4,263           September         4,263           September         4,263           September         4,326           December         4,326           December         4,327           1994 January         4,348           February         4,337           March         4,343           April         4,344           May         4,352           June         4,352           July         4,355           August         4,355           August         4,353           October         4,353	2,876	6,706		-9.4	2,128	2,359	-231
1987 Total         3,792           1988 Total         3,800           1989 Total         3,812           1990 Total         3,868           1991 Total         3,954           1992 Total         4,044           1993 January         4,259           February         4,231           March         4,204           April         4,219           May         4,244           June         4,257           July         4,256           August         4,263           September         4,256           October         4,315           November         4,326           December         4,327           1994 January         4,348           February         4,337           March         4,343           April         4,343           May         4,352           July         4,355           August         4,352           July         4,355           September         4,353           October         4,353           November         4,353           December         4,353           Decem	2,607	6,448	-270 142	-9.4 5.5	1,952	1,812	140
1988 Total         3,800           1989 Total         3,812           1990 Total         3,868           1991 Total         3,954           1992 Total         4,044           1993 January         4,259           February         4,231           March         4,204           April         4,219           May         4,244           June         4,257           July         4,256           August         4,263           September         4,256           October         4,315           November         4,326           December         4,327           Total         4,327           1994 January         4,348           February         4,337           March         4,343           April         4,343           May         4,355           June         4,355           August         4,355           July         4,355           August         4,355           November         4,353           December         4,353           December         4,350	2,749	6,567	142	3.3 .3	1,887	1,881	6
1989 Total         3,812           1990 Total         3,868           1991 Total         3,954           1992 Total         4,044           1993 January         4,259           February         4,231           March         4,204           April         4,219           May         4,244           June         4,257           July         4,266           August         4,263           September         4,256           October         4,315           November         4,326           December         4,327           Total         4,327           1994 January         4,348           February         4,337           March         4,343           April         4,345           May         4,355           June         4,355           July         4,355           August         4,355           September         4,353           October         4,354           November         4,353           December         4,353           December         4,353	2,756	6,548	7 94	.3 3.4	2,174	2,244	-69
1990 Total         3,868           1991 Total         3,954           1992 Total         4,044           1993 January         4,259           February         4,231           March         4,204           April         4,219           May         4,244           June         4,256           August         4,263           September         4,256           October         4,315           November         4,326           December         4,327           Total         4,327           1994 January         4,348           February         4,337           March         4,343           April         4,343           April         4,345           May         4,352           July         4,355           August         4,355           October         4,353           October         4,354           November         4,353           December         4,353           December         4,353	2,850	6,650		-11.8	2,491	2,804	-313
1991 Total         3,954           1992 Total         4,044           1993 January         4,259           February         4,231           March         4,204           April         4,219           May         4,244           June         4,257           July         4,256           August         4,263           September         4,256           October         4,315           November         4,326           December         4,327           1994 January         4,348           February         4,337           March         4,343           April         4,343           April         4,345           May         4,352           June         4,352           July         4,355           August         4,353           October         4,353           October         4,353           December         4,353           December         4,353	2,513	6,325	-337	22.1	2,433	1,934	499
1992 Total 4,044  1993 January 4,259 February 4,231 March 4,204 April 4,219 May 4,244 June 4,257 July 4,256 August 4,263 September 4,315 November 4,326 December 4,327  Total 4,327  1994 January 4,348 February 4,348 February 4,343 April 4,345 May 4,355 June 4,355 September 4,353 October 4,353 October 4,353 December 4,353	3,068	6,936	555	-8.0	2,433	2,689	-80
1993 January	2,824	6,778	-244		2,555	2,724	-168
February 4,231 March 4,204 April 4,219 May 4,244 June 4,256 August 4,263 September 4,256 October 4,315 November 4,326 December 4,327 Total 4,348 February 4,337 March 4,343 April 4,345 May 4,352 June 4,355 August 4,353 October 4,353 October 4,353 December 4,353	2,597	6,641	-227	-8.0	2,555	2,724	
February 4,231 March 4,204 April 4,219 May 4,244 June 4,257 July 4,256 August 4,263 September 4,315 November 4,326 December 4,327 Total 4,327  1994 January 4,348 February 4,337 March 4,343 April 4,345 May 4,352 June 4,352 June 4,355 September 4,353 October 4,353 October 4,353 December 4,353 December 4,353 December 4,353 December 4,353 December 4,353	1,827	6,085	-389	-17.6	37	592	-555 -547
March	1,303	5,533	-535	-29.1	22	569	-304
April 4,219 May 4,244 June 4,257 July 4,256 August 4,263 September 4,256 October 4,315 November 4,326 December 4,327 Total 4,327  1994 January 4,348 February 4,337 March 4,343 April 4,345 May 4,352 June 4,352 June 4,355 August 4,355 September 4,353 October 4,353 December 4,353 December 4,353 December 4,353 December 4,353 December 4,353	1,029	5,233	-516	-33.4	79	383	109
May       4,244         June       4,257         July       4,256         August       4,263         September       4,256         October       4,315         November       4,326         December       4,327         Total       4,327         1994 January       4,348         February       4,337         March       4,343         April       4,345         May       4,352         June       4,352         July       4,355         August       4,355         September       4,353         October       4,354         November       4,353         December       4,360	1,120	5,340	-453	-28.8	212	103	426
June	1,521	5,765	-327	-17.7	456	30	
July	1,895	6,151	-258	-12.0	410	36	374
August 4,263 September 4,256 October 4,315 November 4,326 December 4,327 Total 4,327  1994 January 4,348 February 4,337 March 4,343 April 4,345 May 4,352 June 4,352 June 4,355 August 4,355 September 4,353 October 4,354 November 4,353 December 4,360	2,240	6,497	-219	-8.9	385	35	350
September         4,256           October         4,315           November         4,326           December         4,327           Total         4,327           1994 January         4,348           February         4,337           March         4,343           April         4,345           May         4,352           June         4,352           July         4,355           August         4,355           September         4,353           October         4,354           November         4,353           December         4,360	2,554	6,817	-207	<b>-</b> 7.5	364	45	319
October 4,315 November 4,326 December 4,327 Total 4,327  1994 January 4,348 February 4,337 March 4,343 April 4,345 May 4,352 June 4,352 June 4,355 August 4,355 September 4,353 October 4,354 November 4,353 December 4,360	2,884	7,140	-160	-5.3	378	26	353
November 4,326 December 4,327 Total 4,327  1994 January 4,348 February 4,337 March 4,345 May 4,352 June 4,352 June 4,355 August 4,355 September 4,353 October 4,354 November 4,353 December 4,360	2,978	7,292	-245	-7.6	256	103	153
December 4,327 Total 4,327  Total 4,327  1994 January 4,348 February 4,337 March 4,343 April 4,345 May 4,352 June 4,352 July 4,355 August 4,355 September 4,353 October 4,354 November 4,353 December 4,360	2,762	7,088	-292	-9.5	106	303	-197
Total 4,327  1994 January 4,348 February 4,337 March 4,343 April 4,345 May 4,352 June 4,352 July 4,355 August 4,355 September 4,353 October 4,354 November 4,353 December 4,360	2,322	6,649	-275	-10. <del>6</del>	54	492	-439
February       4,337         March       4,343         April       4,345         May       4,352         June       4,352         July       4,355         August       4,355         September       4,353         October       4,354         November       4,353         December       4,360	2,322	6,649	-275	-10.6	2,760	2,717	43
February       4,337         March       4,343         April       4,345         May       4,352         June       4,352         July       4,355         August       4,355         September       4,353         October       4,354         November       4,353         December       4,360	1,579	5,927	-247	-13.5	33	757	-72
March       4,343         April       4,345         May       4,352         June       4,352         July       4,355         August       4,355         September       4,353         October       4,354         November       4,353         December       4,360	1.091	5,428	-212	-16.3	49	543	-49
April 4,345 May 4,352 June 4,352 July 4,355 August 4,355 September 4,353 October 4,354 November 4,353 December 4,360	958	5,301	-71	-6.9	103	236	-13
May       4,352         June       4,352         July       4,355         August       4,355         September       4,353         October       4,354         November       4,353         December       4,360	1,172	5,517	52	4.6	280	68	213
June       4,352         July       4,355         August       4,355         September       4,353         October       4,354         November       4,353         December       4,360	1,554	5,906	33	2.2	417	25	39
July       4,355         August       4,355         September       4,353         October       4,354         November       4,353         December       4,360	1,896	6,248	2	.1	375	33	34
August       4,355         September       4,353         October       4,354         November       4,353         December       4,360	2,273	6,629	33	1.5	403	24	37
September       4,353         October       4,354         November       4,353         December       4,360	2,607	6,962	53	2.1	364	29	33
October	•	7,265	28	1.0	335	21	31
November	2,912 3,075	7,205 7,429	97	3.3	215	53	16
December 4,360	3,075	7,42 <del>9</del> 7.331	216	7.8	98	196	-9
	2,978	7,331 6,966	284	7.0 12.2	54	422	-36
	2,606 <b>2,606</b>	6,966	284	12.2	2,726	2,408	31
	•	£ 200	454	28.7	40	619	-57
1995 January 4,356	2,033	6,389 E 90E		40.8	43	541	-49
February 4,359 March 4,360	1,536 1,326	5,895 5,686	445 368	40.8 38.4	100	315	-21

<sup>&</sup>lt;sup>a</sup> For total underground storage capacity at the end of each calendar year,

injections or withdrawals may not equal the difference between applicable ending stocks. See Note 8 at end of section.

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.

<sup>c</sup> Positive numbers indicate injections are greater than withdrawals. Negative numbers indicate withdrawals are greater than injections. Net

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, propane-air, refinery gas, coke oven gas, still gas, manufactured gas, biomass gas, or air or inert gases added for Btu stabilization.

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

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

5. Imports and Exports: The United States imports natural gas via pipeline from Canada. Prior to 1985, it also imported natural gas via pipeline from Mexico. Liquefied natural gas (LNG) arrives via tanker from Algeria. One shipment of LNG was received from Indonesia in December 1986. Very small amounts of LNG arrived from Canada in 1973 (667 million cubic feet), 1977 (572 million cubic feet), and 1981 (6 million cubic feet). The United States exports natural gas via pipeline to Canada and Mexico and LNG via tanker to Japan.

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

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

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

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

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

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

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

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

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

The final monthly and annual storage and withdrawal data for 1980-1993 include both underground and liquefied natural gas (LNG) storage. Annual data on LNG additions and withdrawals are from Form EIA-176. Monthly data are estimated by computing the ratio of each month's underground storage additions and withdrawals to annual underground storage additions and withdrawals and applying the ratio to the annual LNG data.

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

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

Current capacity is 8,043 billion cubic feet.

### Sources for Table 4.2

- 1973-1986: Total Dry Gas Production—Energy Inforamtion Administration (EIA), Natural Gas Annual 1991, Table 95. Withdrawals from Storage, 1973-1975 and 1980-1986—EIA, Natural Gas Annual 1991, Table 96. Withdrawals from Storage, 1976-1979-EIA, Natural Gas Production and Consumption 1979, Table 1. Supplemental Gaseous Fuels, 1980-1986—EIA, Natural Gas Annual 1990, Volume 2, Table 12. Imports, Additions to Storage, Exports, and Consumption—EIA, Natural Gas Annual 1991, Table 96. Total Supply/Disposition—Sum of disposition items. Balancing Item—Total supply/disposition minus all other supply items.
- 1987 forward: EIA, Natural Gas Monthly, May 1995, Table 2.

#### Sources for Table 4.5

- Storage Actitity: 1973-1975—Energy Information Administration (EIA) Natural Gas Annual 1990, Volume 2, Table 9. 1976-1979—EIA, Natural Gas Production and Consumption 1979, Table 1. 1980-1986—EIA, Natural Gas Annual 1990, Volume 2, Table 11. 1987-1991—EIA, Natural Gas Monthly, February 1995, Table 13. 1992 forward: Estimated by EIA.
- Other Data: 1973 and 1974—American Gas Association (AGA), Gas Facts, 1972 Data, Table 57, Gas Facts, 1973 Data, Table 57, and Gas Facts, 1974 Data, Table 40. 1975 and 1976—Federal Energy Administration (FEA), Form FEA-G318-M-O, "Underground Gas Storage Report," and Federal Power Commission (FPC), Form FPC-8, "Underground Gas Storage Report." 1977 and 1978—EIA, Form FEA-G-318-M-O, "Underground Gas Storage Report," and Federal Energy Regulatory Commission (FERC), Form FERC-8, "Underground Gas Storage Report. 1979-1986—EIA, Form EIA-191, "Underground Gas Storage Report," and FERC, Form FERC-8, "Underground Gas Storage Report." 1987 forward—EIA, Natural Gas Monthly, May 1995, Table 13.

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## Section 5. Oil and Gas Resource Development

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

The April 1995 rotary rig count of 678 was 2 percent higher than the count in the previous month and 6 percent lower than the count in April 1994. Of the total number of rigs in operation, 587 were onshore and 91 were offshore. The number of onshore rigs was down 5 percent from the number in April 1994, and the number of offshore rigs was down 14 percent.

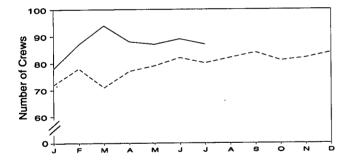
Total footage drilled in March 1995 was 7.75 million feet, up less than 1 percent from footage drilled in Feb-

ruary 1995 and down 15 percent from that drilled in March 1994.

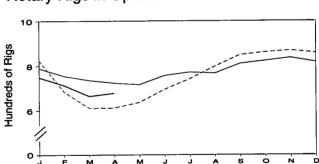
The estimated number of exploratory and development oil and gas wells drilled during March 1995 was 872, 8 percent higher than the number drilled in February 1995 and 20 percent lower than the number drilled in March 1994. The estimated number of oil wells drilled was 410, and the estimated number of gas wells was 462, 21 percent lower and 19 percent lower, respectively, than their March 1994 levels. The estimated number of dry holes drilled in March 1995 was 284, up 13 percent from the number drilled in February 1995 and 26 percent lower than the number drilled in March 1994.

Figure 5.1 Oil and Gas Resource Development Indicators

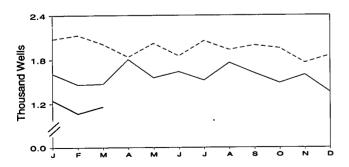
## Crews Engaged in Seismic Exploration



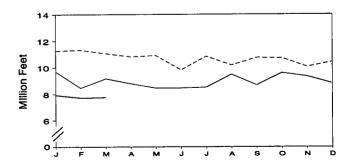
## Rotary Rigs in Operation



### Wells Drilled



## Footage Drilled



Sources: Tables 5.1 and 5.2.

1993 1994

1995

**Table 5.1 Oil and Gas Drilling Activity Measurements** 

1973 Average	23 31 30	Onshore onthly Avera	Total ge_	By Offshore	Site Onshore		уре		Total	Active
1974 Average 1975 Average 1976 Average	23 31 30	nthly Avera	·	Offshore	Onshore	_	By Site By Type			Active Well Servicing
1974 Average 1975 Average 1976 Average	23 31 30		ge			Oil	Gas	Total <sup>b</sup>	Footage Drilled <sup>c</sup>	Well Servicing Units <sup>d</sup>
1974 Average 1975 Average 1976 Average	31 30	227		I	We	ekly Avera	ge		Thousand Feet	Number
1974 Average 1975 Average 1976 Average	30		250	84	1,110	NA	NA	1,194	139,427	NA
1976 Average		274	305	94	1,378	NA	NA	1,472	153,791	NA NA
		254	284	106	1,554	NA	NA	1,660	181,046	NA NA
1977 Averses	25	237	262	129	1,529	NA	NA	1,658	187,291	2,601
1977 Average	27	281	308	167	1,834	NA	NA	2,001	215,696	2,828
1978 Average	25	327	352	185	2,074	NA	NA	2,259	238,388	2,988
1979 Average	30	370	400	207	1,970	NA	NA	2,177	243,686	3,399
1980 Average	37	493	530	231	2,678	NA	NA	2,909	312,303	4,089
1981 Average	44	637	681	256	3,714	NA	NA	3,970	408,842	4,850
1982 Average	57	531	588	243	2,862	NA	NA	3,105	378,437	4,248
1983 Average	47	426	473	199	2,033	NA	NA	2,232	318,585	3,732
1984 Average	49	445	494	213	2,215	NA	NA	2,428	370,730	4,663
1985 Average	45	333	378	206	1,774	NA	NA	1,980	312,569	4,716
1986 Average	24	176	200	99	865	NA	NA	964	177,486	3,036
1987 Average	24	153	177	95	841	NA	NA	936	161,226	3,060
1988 Average	29	153	182	123	813	554	354	936	153,340	3,341
1989 Average	23	109	132	105	764	453	401	869	133,383	3,391
1990 Average	23	102	125	108	902	532	464	1,010	149,378	3,658
1991 Average	19	85	104	81	779	482	351	860	142,111	3,331
1992 Average	12	64	76	52	669	373	331	721	121,451	2,732
1993 January	17	55	72	72	752	335	454	824	11,265	2,807
February	15	63	78	69	615	311	334	684	11,331	2,899
March	16	55	71	62	549	315	268	611	11,068	2,829
April	14	63	77	69	543	320	270	612	10,822	2,703
May	15	64	79	73	564	323	294	637	10,915	2,848
June	17	65	82	83	612	350	327	695	9,814	3,087
July	15	65	80	85	656	368	360	741	10,846	3,178
August	16	66	82	87	710	397	390	797	10,177	3,423
September	18	66	84	89	759	418	421	848	10,745	3,341
October	15	66	81	93	767	441	411	860	10,717	3,519
November	17	65	82	.99	769	453	408	868	10,052	3,604
December	18	66	84	103	754	425	426	857	10,435	3,662
Average	16	63	79	82	672	373	364	754	128,187	3,158
1994 January	18 10	60	78	99	690	356	425	789	9,694	3,386
February March	18 19	69 75	87	95	659	337	405	754	8,461	3,063
April	20	75 68	94	99	636	323	403	735	9,163	2,977
May	22	65	88	106	617	314	398	723	8,786	2,649
June	20	69	87	104	612	320	382	716	8,453	2,798
July	23	64	89	113	643	331	408	756	8,452	2,785
August	NA	NA	87 NA	107	664	341	415	771	8,506	2,992
September	NA	NA NA	NA NA	95 07	671	320	433	766	9,470	2,941
October	NA	NA NA		97	712	325	471	809	8,672	3,010
November	NA NA	NA NA	NA NA	99	723	342	467	822	9,587	2,991
December	NA NA	NA NA	NA NA	106	729	361	460	835	9,325	2,977
Average	NA	NA NA	NA NA	107 <b>102</b>	709 <b>673</b>	354 <b>335</b>	447 <b>427</b>	816 <b>775</b>	8,805 1 <b>07,374</b>	2,964 <b>2,961</b>
995 January	NA	NA	NA	100						
February	NA NA	NA NA	NA NA	106 100	642	325	411	748	7,928	2,855
March	NA NA	NA NA	NA NA	90	613 575	326	375	713	7,717	2,877
April	NA	NA	NA NA	90 91	575 597	322	331	665	7,751	R 2,862
4-Month Average	NA	NA	NA	93	587 <b>590</b>	328 <b>325</b>	336 <b>346</b>	678 <b>684</b>	NA NA	E 2,890 E <b>2,871</b>
994 4-Month Average	19	68	87	99						
993 4-Month Average	16	59	75	69	650 610	332 320	407 328	749 679	36,104 44,486	3,019 2,810

<sup>&</sup>lt;sup>a</sup> 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.

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.

<sup>&</sup>lt;sup>c</sup> Values shown are totals.

d See Glossary.

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

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

Table 5.2 Oil and Gas Wells Drilled

(Number of Wells)

		Explo	ratory			Develo	pment		Total			
	Oil	Gas	Dry	Total	Oil	Gas	Dry	Totai	Oil	Gas	Dry	Total
1973 Total	654	1,079	6,038	7,771	9,597	5,896	4,428	19,921	10,251	6,975	10.466	27,692
1974 Total	870	1,205	6,894	8,969	12,794	5,965	5,311	24,070	13,664	7,170	12,205	33,039
1975 Total	991	1,263	7,207	9,461	15,988	6.907	6.529	29,424	16,979	8,170	13,736	38,885
1976 Total	1.100	1,362	6.854	9,316	16,597	8,076	6,951	31,624	17,697	9,438	13,805	40,940
1977 Total	1.183	1,562	7,402	10.147	17,517	10,557	7,634	35,708	18,700	12,119	15,036	45,855
1978 Total	1,191	1,792	8,054	11,037	17,874	12,613	8,537	39,024	19,065	14,405	16,591	50,061
1979 Total	1,335	1,920	7,478	10,733	19,368	13,250	8,560	41,178	20,703	15,170	16,038	51,911
1980 Total	1,781	2,094	9,035	12,910	30,497	15,129	11,302	56,928	32,278	17,223	20,337	69,838
1981 Total	2,667	2,533	12,297	17,497	40,176	17,374	14,987	72,537	42,843	19,907	27,284	90,034
1982 Total	2,470	2,168	11,346	15,984	36,672	16,776	15,036	68,484	39,142	18,944	26,382	84,468
	2,113	1,660	10,271	14,044	35,086	12,896	14,065	62,047	37,199	14,556	24,336	76,091
1983 Total	•	•								17,012	25,797	85,394
1984 Total	2,335	1,599	11,482	15,416	40,250	15,413	14,315	69,978	42,585			
1985 Total	1,879	1,282	9,445	12,606	33,142	12,970	11,763	57,875	35,021	14,252	21,208	70,481
1986 Total	988	733	5,511	7,232	17,713	7,402	7,255	32,370	18,701	8,135	12,766	39,602
1987 Total	859	673	5,179	6,711	15,327	7,084	6,302	28,713	16,186	7,757	11,481	35,424
1988 Total	792	663	4,766	6,221	12,530	7,575	5,476	25,581	13,322	8,238	10,242	31,802
1989 Total	580	654	4,001	5,235	9,759	8,571	4,490	22,820	10,339	9,225	8,491	28,055
1990 Total	617	587	3,782	4,986	11,533	9,853	4,830	26,216	12,150	10,440	8,612	31,202
1991 Total	545	464	3,322	4,331	11,363	8,773	4,609	24,745	11,908	9,237	7,931	29,076
1992 Total	446	358	2,538	3,342	8,257	7,587	3,938	19,782	8,703	7,945	6,476	23,124
1993 January	41	35	162	238	622	926	290	1,838	663	961	452	2,076
February	32	41	171	244	586	948	351	1,885	618	989	522	2,129
March	24	25	187	236	626	895	252	1,773	650	920	439	2,009
April	42	26	205	273	584	624	355	1,563	626	650	560	1,836
May	40	36	176	252	595	712	462	1,769	635	748	638	2,021
June	39	32	193	264	621	582	384	1,587	660	614	577	1,851
July	36	27	256	319	674	564	498	1,736	710	591	754	2,055
August	21	35	226	282	695	600	357	1,652	716	635	583	1,934
September	29	30	223	282	656	652	405	1,713	685	682	628	1,995
October	37	42	186	265	688	678	323	1,689	725	720	509	1,954
November	28	32	198	258	632	555	312	1,499	660	587	510	1,757
December	25	32	194	251	666	614	326	1,606	691	646	520	1,857
Total	394	393	2,377	3,164	7,645	8,350	4,315	20,310	8,039	8,743	6,692	23,474
1004 (00)	47	26	183	265	E01	522	238	1 2/1	628	557	401	1 606
1994 January	26	35 42	121	189	581 547	513	236	1,341 1,271	573	555	421 332	1,606 1,460
February												
March	28	54	164	246	488	516 566	218	1,222	516	570	382	1,468
April	54	58	144	256	623	566 501	359 325	1,548	677 436	624	503	1,804
May	36	34	177	247	400	581 560		1,306		615	502	1,553
June	· 49	41	175	265	504	569	297	1,370	553	610	472	1,635
July	40	55	177	272	373	631	242	1,246	413	686	419	1,518
August	34	37	201	272	523	684	279	1,486	557	721	480	1,758
September	38	46	180	264	460	650	240	1,350	498	696	420	1,614
October	33	2	163	198	415	644	224	1,283	448	646	387	1,481
November	39	4	200	243	449	662	238	1,349	488	666	438	1,592
December	48	3	167	218	443	488	207	1,138	491	491	374	1,356
Total	472	411	2,052	2,935	5,806	7,026	3,078	15,910	6,278	7,437	5,130	18,845
1995 January	38	17	137	192	392	500	161	1,053	430	517	298	1,245
February	35	13	102	150	303	459	150	912	338	472	252	1,062
March	38	13	127	178	372	449	157	978	410	462	284	1,156
3-Month Total	111	43	366	520	1,067	1,408	468	2,943	1,178	1,451	834	3,463
1994 3-Month Total	101	131	468	700	1,616	1,551	667	3,834	1,717	1,682	1,135	4,534
1993 3-Month Total	97	101	520	718	1,834	2,769	893	5,496	1,931	2,870	1,413	6,214

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

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

There is no update to "Total Footage Drilled" on Table 5.1 or to any of the data on Table 5.2 this month.

## 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. 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 March 1995 totaled 96 million short tons, slightly lower<sup>6</sup> than the rate in March 1994. Coal production during the first 3 months of 1995 totaled 273 million short tons, 7 percent higher than coal production during the first 3 months of 1994.

Electric utility coal consumption in February 1995 totaled 64 million short tons, 2 percent lower than the consumption level in February 1994.

Electric utility coal stocks were 130 million short tons at the end of February 1995, up 33 percent from the 98 million short tons at the end of February 1994.

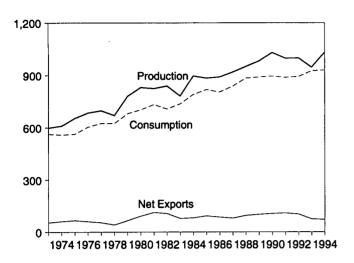
Coal exports in February 1995 totaled 6 million short tons, 36 percent higher than exports in February 1994. Coal imports in February 1995 totaled 486 thousand short tons, 35 percent lower than imports in February 1994.

<sup>&</sup>lt;sup>6</sup>Percentage changes are based on unrounded data.

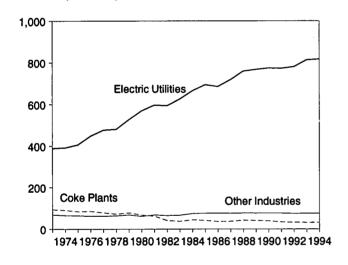
Figure 6.1 Coal

(Million Short Tons)

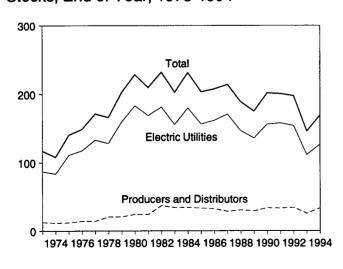
### Overview, 1973-1994



## Consumption by Sector, 1973-1994

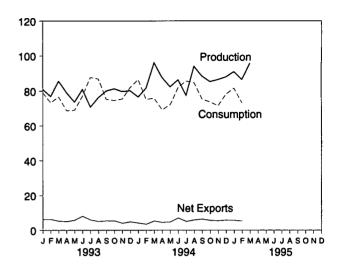


## Stocks, End of Year, 1973-1994

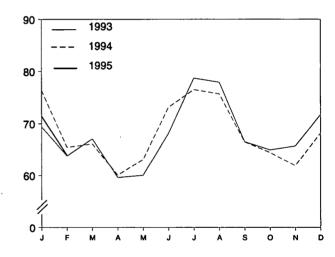


Note: Because vertical scales differ, graphs should not be compared. Sources: Tables 6.1, 6.2, and 6.3.

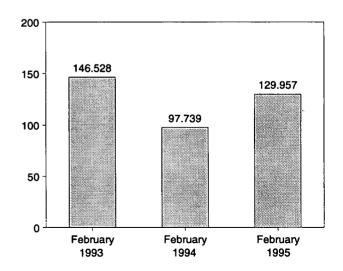
### Overview, Monthly



## Consumption by Electric Utilities, Monthly



### Stocks at Electric Utilities, End of Month



**Table 6.1 Coal Overview** 

(Thousand Short Tons)

		<u> </u>	•	•	Stocksb	
973 Total	598,568	562,584	127	53,587	116,865	
	610,023	558,402	2,080	60,661	107,957	
974 Total			•			
975 Total	654,641	562,640	940	66,309	140,158	
976 Total	684,913	603,790	1,203	60,021	148,659	
977 Total	697,205	625,291	1,647	54,312	171,323	
978 Total	670,164	625,225	2,953	40,714	166,246	
979 Total	781,134	680,524	2,059	66,042	202,472	
980 Total	829,700	702,730	1,194	91,742	228,407	
981 Total	823,775	732,627	1,043	112,541	209,423	
982 Total	838,112	706,911	742	106,277	232,038	
983 Total	782,091	736,672	1,271	77,772	202,584	
			1,286	81,483	231,300	
984 Total	895,921	791,296	•	•		
985 Total	883,638	818,049	1,952	92,680	203,367	
986 Total	890,315	804,231	2,212	85,518	207,319	
987 Total	918,762	836,941	1,747	79,607	213,780	
988 Total	950,265	883,642	2,134	95,023	188,831	
989 Total	980,729	889,699	2,851	100,815	175,087	
990 Total	1,029,076	895,480	2,699	105,804	201,629	
991 Total	995.984	887,621	3,390	108,969	200,682	
			,	102,516	197,685	
992 Total	997,545	892,421	3,803	102,310	151,000	
993 January	80,982	79,116	344	6,506	195,037	
February	76,919	73,372	454	6,715	192,442	
March	85,516	76,677	415	5,648	191,072	
April	79.074	68,719	281	5,268	194,213	
May	73,728	68,998	298	6,060	195,654	
June	80.948	77,102	514	8,619	189,669	
July	70,798	87,695	643	6,573	168,179	
	,	•	747	•	152,790	
August	76,277	86,870		5,830		
September	80,056	75,306	753	6,120	149,092	
October	81,232	74,635	1,054	6,485	150,745	
November	79,720	75,471	970	5,019	151,116	
December	80,176	81,981	836	5,677	145,742	
Total	945,424	925,944	7,309	74,519	145,742	
994 January	76.637	86.422	540	4,731	<sup>R</sup> 134,965	
February	81,656	75,205	753	4,252	R 136,680	
March	96,087	75,938	557	5,894	R 146,398	
	87.683	R 69,176	456	4,976	R 155,470	
April	•			•		
May	82,262	R 72,097	550	5,326	R 163,624	
June	86,367	R 81,842	571	7,637	R 162,406	
July	77,537	85,619	833	5,882	<sup>R</sup> 152,709	
August	94,082	84,765	731	6,670	<sup>R</sup> 151,347	
September	88,518	75,360	740	7,152	<sup>R</sup> 154,152	
October	85,298	73,786	434	6,110	<sup>R</sup> 158,701	
November	86,512	71,543	601	6.098	R 165,546	
December	88,009	78,272	819	6,630	169,305	
	1,030,649	R 930,024	7,584		169,305	
Total	1,030,049	930,024	1,384	71,359	109,305	
995 January	91,062	€ 81,539	530	6,184	E 165,438	
February	86,459	<sup>E</sup> 73,138	486	5,774	E 170,020	
March	95,765	NA	NA	NA	NA	
3-Month Total	273,286	NA	NA	NA	NA	
994 3-Month Total	254 201	227 565	1 050	14 077	146 200	
334 3-MONIN TOTAL	254,381	237,565	1,850 1,213	14,877 18,870	146,398 191,072	

<sup>&</sup>lt;sup>a</sup> Includes Puerto Rico.

Notes: • Data through 1993 are final. Subsequent data are preliminary.

<sup>&</sup>lt;sup>b</sup> 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.

<sup>•</sup> 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		Other Industrial		
	and	Coke	Including	Electric	
	Commercial	Plants	Transportation	Utilities	Total
<u> </u>					
973 Total	11,117	94,101	68,154	389,212	562,584
974 Total	11,417	90,191	64,983	391,811	558,402
975 Total	9,410	83,598	63,670	405,962	562,640
976 Total	8,916	84,704	61,799	448,371	603,790
977 Total	8,954	77,739	61,472	477,126	625,291
978 Total	9,511	71,394	63,085	481,235	625,225
979 Total	8,388	77,368	67,717	527,051	680,524
980 Total	6,452	66,657	60,347	569,274	702,730
981 Total	7,421	61,014	67,395	596.797	732,627
982 Total	8,240	40,908	64,097	593,666	706,911
983 Total	8,448	37,033	65,980	625,211	736,672
984 Total	9,130	44,022	73,745	664,399	791,296
985 Total	7,779	41,056	75,372	693,841	818,049
986 Total	7,667	35,924	75,583	685,056	804,231
987 Total	6,914	36,957	•	•	•
988 Total	•	•	75,175 76,050	717,894	836,941
	7,130	41,888	76,252	758,372	883,642
989 Total	6,167	40,508	76,134	766,888	889,699
990 Total	6,724	38,877	76,330	773,549	895,480
991 Total	6,094	33,854	75,405	772,268	887,621
992 Total	6,153	32,366	74,042	779,860	892,421
993 January	662	2,674	6,380	69,400	79,116
February	641	2,468	6,451	63,812	73,372
March	514	2,640	6,450	67,073	76,677
April	613	2,578	5,931	59,596	68,719
May	323	2,719	5,925	60,032	68,998
June	418	2,588	5,978	68,118	77,102
	424	2,678		•	
July	382	•	5,876	78,717	87,695
August		2,664	5,892	77,932	86,870
September	288	2,618	5,907	66,493	75,306
October	386	2,660	6,647	64,941	74,635
November	649	2,447	6,697	65,677	75,471
December	921	2,587	6,757	71,717	81,981
Total	6,221	31,323	74,892	813,508	925,944
994 January	854	2,619	6.588	76,362	86,422
February	669	2,481	6,599	65,455	75,205
March	493	2,654	6,693	66,098	75,938
April	455	R 2,811	5,870	60,040	<sup>R</sup> 69,176
May	334	R 2,757	5,921	63.084	R 72,097
June	398	R 2,397	5,917	73,130	R 81,842
July	456	2,673	5,917 6,001	75,130 76,489	
August	392	•	•	•	85,619 84.765
		2,659	6,032	75,682	84,765
September	288	2,613	6,014	66,445	75,360
October	337	2,643	6,358	64,447	73,786
November	541	2,666	6,460	61,877	71,543
December	796	2,767	6,549	68,161	78,272
Total	6,013	R 31,740	75,001	817,270	R 930,024
995 January	E 691	<sup>E</sup> 2,557	E 6,860	71,431	E 81.539
February	E 585	E 2,361	E 6,252	63,940	E 73,138
2-Month Total	E 1,276	E 4,918	E 13,112	135,371	E 154,677
004 2 Month Total	1 500	E 100	12 107	. 444 047	
994 2-Month Total	1,523	5,100 5,142	13,187	141,817	161,627
993 2-Month Total	1,303	5,142	12,831	133,212	152,488

R=Revised data. E=Estimate.

Notes: • For sector-specific reporting and estimating information, see Note 2 at end of section. • Data through 1993 are final. Subsequent data are preliminary. • Totals may not equal sum of components due to independent

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

Table 6.3 Coal Stocks, End of Period

(Thousand Short Tons)

		Cons	umer		Producers		
	Coke Plants	Other Industrial	Electric Utilities	Totala	and Distributors	· Total <sup>a</sup>	
1973 Year	6,998	10,370	86,967	104,335	12,530	116,865	
974 Year	6,209	6,605	83,509	96,323	11,634	107,957	
975 Year	8,797	8,529	110,724	128,050	12,108	140,158	
976 Year	9,902	7,100	117,436	134,438	14,221	148,659	
977 Year	12,816	11,063	133,219	157.098	14,225	171,323	
978 Year	8,278	9,048	128,225	145,551	20,695	166,246	
979 Year	10,155	11,777	159,714	181,646	20,826	202,472	
980 Year	9,067	11,951	183,010	204,028	24,379	228,407	
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	
984 Year	6,166	11,317	179,727	197,211	34,090	231,300	
985 Year	3,420	10,438	156,376	170,234	33,133	203,367	
986 Year	2,992	10,429	161,806	175,226	32,093	207,319	
987 Year	3.884	10,777	170,797	185,459	28,321	213,780	
988 Year	3,137	8.768	146,507	158,413	30,418	188,831	
989 Year	2,864	7,363	135,860	146,087	29,000	175,087	
990 Year	3,329	8,716	156,166	168,210	33,418	201,629	
991 Year	2,773	7,061	157,876	167,711	32,971	200,682	
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	
April	2,879	5,911	148,178	156,968	37,245	194,213	
May	2,949	5,990	150.678	159.618	36,036	195.654	
June	3.020	6.070	145,753	154,842	34,827	189,669	
		- 7	•	•			
July	2,858	6,227	126,815	135,900	32,279	168,179	
August	2,697	6,383	113,978	123,058	29,731	152,790	
September	2,536	6,540	112,833	121,909	27,183	149,092	
October	2,491	6,599	115,105	124,195	26,550	150,745	
November	2,446	6,657	116,095	125,199	25,917	151,116	
December	2,401	6,716	111,341	120,458	25,284	145,742	
994 January	<sup>R</sup> 2,345	6,091	98,294	<sup>R</sup> 106,730	28,236	<sup>R</sup> 134,965	
February	<sup>R</sup> 2,289	5,465	97,739	<sup>R</sup> 105,493	31,188	<sup>R</sup> 136,680	
March	R 2,232	4,840	105.186	R 112,258	34.139	R 146,398	
April	R 2,408	5.059	113,324	R 120,792	34,679	R 155,470	
	R 2,583	5,279	120,543	R 128,405	•	R 163,624	
May	R 2,759			120,400 R 100 640	35,218 35,758	B 460 400	
June	B0744	5,499 5,705	118,391	<sup>R</sup> 126,649	35,758	R 162,406	
July	R 2,741	5,725	109,419	R 117,885	34,823	R 152,709	
August	R 2,724	5,951	108,783	<sup>R</sup> 117,458	33,889	R 151,347	
September	<sup>R</sup> 2,706	6,177	112,314	R 121,197	32,955	<sup>R</sup> 154,152	
October	<sup>R</sup> 2,690	6,295	116,673	<sup>R</sup> 125,658	33,043	<sup>R</sup> 158,701	
November	<sup>R</sup> 2,673	6,413	123,328	<sup>R</sup> 132,415	33,131	<sup>R</sup> 165,546	
December	2,657	6,532	126,897	136,086	33,219	169,305	
995 January	<sup>E</sup> 1,843	<sup>E</sup> 6,120	125.475	E 133.438	E 32,000	<sup>E</sup> 165,438	
	E 1,885	E 6.178	129,957	E 138,020	E 32,000	E 170.020	
February	- 1,085	8/1,0 -	129,957	- 138,020	- 32,000	- 170,020	

 $<sup>^{\</sup>rm a}$  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 1993 are final. Subsequent data are

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

### **Coal Notes**

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

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

- 2. Consumption: Coal consumption data are reported by major end-use sector. Estimated data for the most recent months (designated by an "E") are derived from forecasted values shown in the EIA Short-Term Energy Outlook (DOE/EIA-0202) table titled "Supply and Disposition of Coal: Mid World Oil Price Case." The monthly estimates are one-third of the quarterly values shown in the then current issue of the publication, regularly released in February, May, August, and November. The estimates are revised quarterly as collected data become available from the data sources. Sector-specific information follows.
  - Residential and Commercial—Prior to 1980, monthly consumption estimates for the residential and commercial sector were derived by using reported data to modify baseline figures developed by the Bureau of Mines. From 1980-1987,

- monthly estimates were derived by proportioning reported quarterly data by using the ratios of monthly-to-quarterly consumption data in 1979, the last year in which monthly data were reported on Form EIA-2. During 1981 and 1982, the estimates were also modified to reflect air temperature degree-Ouarterly 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. 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, August, and November. The estimates are revised quarterly as collected data become available from the data sources. Sector-specific information follows.
  - Coke Plants—Prior to 1980, monthly stocks at coke plants were taken directly from reported data. From 1980 forward, coke plant stocks are estimated by using one-third of the current quarterly change to indicate the monthly change in stocks. Quarterly stocks are taken directly from data reported on Form EIA-5.
  - Other Industrial—Prior to 1978, stocks for the other industrial sector were derived by using reported data to modify baseline figures from a one-time Bureau of Mines survey of consumers. For 1978-1982, monthly estimates were derived by judgmentally proportioning reported quarterly data based on representative seasonal patterns of supply and demand. From 1983 forward, other industrial coal stocks are estimated as indicated above for coke plants. Quarterly stocks are taken directly from data reported on Form EIA-3 and therefore include only manufacturing industries; data for agriculture, forestry, fishing, mining, and construction stocks are not available. Electric Utilities: 1973-September 1977-DOI, BOM, Minerals Yearbook and Minerals Industry Surveys. October 1977 forward—EIA, Form EIA-759 (formerly Form FPC-4), "Monthly Power Plant Report."
  - Electric Utilities—Monthly stocks data at electric utility plants are taken directly from reported data.
  - Producers and Distributors—Quarterly stocks at producers and distributors are taken directly from reported data. Monthly data are estimated by using one-third of the current quarterly change to indicate the monthly change in stocks.

- 4. Imports and Exports: All coal import and export figures are taken directly from data reported monthly by the Bureau of the Census.
- 5. Additional Information: EIA's Quarterly Coal Report provides additional information about coal data and estimation procedures.

#### Sources for Table 6.1

- Production: 1973-September 1977—U.S. Department of the Interior, Bureau of Mines, Minerals Yearbook and Minerals Industry Surveys. October 1977 forward—Energy Information Administration, Weekly Coal Production.
- Consumption: Table 6.2.
- Imports and Exports: U.S. Department of Commerce, Bureau of the Census, Monthly Reports IM-145 (Imports) and EM-545 (Exports).
- Stocks: Table 6.3.

#### Sources for Table 6.2

- Residential and Commercial: 1973-1976—U.S. Department of the Interior (DOI), Bureau of Mines (BOM), Minerals Yearbook. January-September 1977—DOI, BOM, Form 6-1400, "Monthly Coal Report, Retail Dealers-Upper Lake Docks." October 1977-1979—Energy Information Administration (EIA), Form EIA-2, "Monthly Coal Report, Retail Dealers-Upper Lake Docks." 1980 forward—EIA, Form EIA-6, "Coal Distribution Report, quarterly.
- Coke Plants: 1973-September 1977—DOI, BOM, Minerals Yearbook and Minerals Industry Surveys. October 1977-1980—EIA, Form EIA-5/5A, "Coke and Coal Chemicals-Monthly /Annual Supplement." 1981-1984—EIA, Form EIA-5/5A, "Coke Plant Report-Quarterly/Annual Supplement." 1985 forward—EIA, Form EIA-5, "Coke Plant Report-Quarterly."
- Other Industrial: 1973-September 1977—DOI, BOM, Minerals Yearbook and Minerals Industry Surveys. October 1977-1979—EIA, Form EIA-3, "Monthly Coal Consumption Report-Manufacturing Plants." 1980 forward—EIA, Form EIA-3, "Quarterly Coal Consumption Report-Manufacturing Plants," and Form EIA-6, "Coal Distribution Report, quarterly."
- Electric Utilities: 1973-September 1977—DOI, BOM, Minerals Yearbook and Minerals Industry Surveys. October 1977 forward—EIA, Form EIA-759 (formerly Form FPC-4), "Monthly Power Plant Report."

### Sources for Table 6.3

- Coke Plants: 1973-September 1977—U.S. Department of the Interior (DOI), Bureau of Mines (BOM), Minerals Yearbook and Minerals Industry Surveys. October 1977-1980—Energy Information Administration (EIA), Form EIA-5/5A, "Coke and Coal Chemicals-Monthly/Annual." 1981-1984—EIA, Form EIA 5/5A, "Coke Plant Report-Quarterly/Annual Supplement." 1985 forward—EIA, Form EIA-5, "Coke Plant Report-Quarterly."
- Other Industrial: 1973-September 1977—DOI, BOM, Minerals Yearbook and Minerals Industry Sur-

- veys. 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 February 1995, electric utilities generated 229 billion kilowatthours of electricity, 2 percent<sup>7</sup> more than in February 1994. Coal-fired generation totaled 129 billion kilowatthours, 2 percent less than in February 1994. Nuclear generation totaled 52 billion kilowatthours, 4 percent above the level 1 year earlier. Hydroelectric generation totaled 24 billion kilowatthours, 25 percent higher than the February 1994 level. Natural gas-fired generation was 16 billion kilowatthours, 13 percent higher than the February 1994 level. Petroleum-fired generation totaled 7 billion kilowatthours, 27 percent below the level 1 year earlier-

Sales of electricity to all ultimate consumers in the United States in February 1995 were 238 billion kilowatthours, slightly higher than sales during February 1994. Sales to residential consumers during February 1995 were 87 billion kilowatthours, 3 percent lower than the level of sales during the previous year. Sales to industrial consumers totaled 79 billion kilowatthours in February 1995, 3 percent above the

level 1 year earlier. Commercial sales were 65 billion kilowatthours, 1 percent higher than the level of commercial sales during the previous year. In February 1995, other sales totaled 8 billion kilowatthours, 1 percent higher than the February 1994 level.

Electric utility consumption of coal during February 1995 was 64 million short tons, 2 percent below consumption in February 1994. Petroleum consumption (excluding petroleum coke) during February 1995 was 12 million barrels, 27 percent below the level of consumption in February 1994. During February 1995, electric utilities consumed 169 billion cubic feet of natural gas, 13 percent above the February 1994 consumption level.

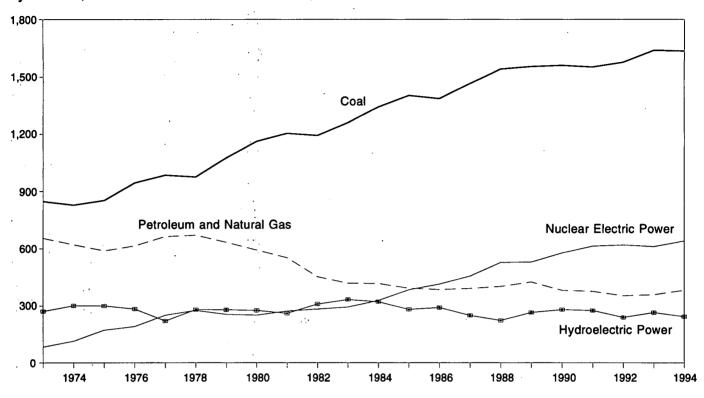
On February 28, 1995, electric utility stocks of all types of coal totaled 130 million short tons, 33 percent above the level on February 28, 1994. Stocks of pettroleum (excluding petroleum coke) on February 28, 1995, totaled 56 million barrels, 7 percent below the level on February 28, 1994.

<sup>&</sup>lt;sup>7</sup>Percentage changes are based on numbers shown in the following tables.

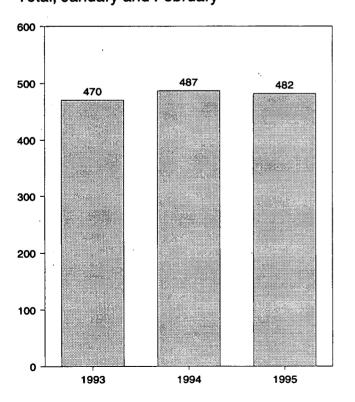
Figure 7.1 Electric Utility Net Generation of Electricity

(Billion Kilowatthours)

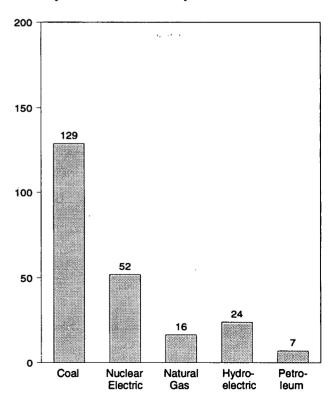
By Source, 1973-1994



Total, January and February



Total by Source, February 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 <sup>a</sup>	Petroleum <sup>b</sup>	Nuclear Electric Power	Hydro- Electric Power	Geothermal Energy	Otherc	Total
	Coai	Gas-	Petroleum	rowei	FOWEI	Ellelah	Outer	- I Otal
973 Total	847,651	340,858	314,343	83,479	272,083	1,966	328	1,860,71
974 Total	828,433	320,065	300,931	113,976	301,032	2,453	251	1,867,14
975 Total	852,786	299,778	289,095	172,505	300,047	3,246	191	1,917,64
976 Total	944,391	294,624	319,988	191,104	283,707	3,616	266	2,037,69
977 Total	985,219	305,505	358,179	250,883	220,475	3,582	481	2,124,32
78 Total	975,742	305,391	365,060	276,403	280,419	2,978	338	2,206,33
79 Total	1,075,037	329,485	303,525	255,155	279,783	3,889	498	2,247,37
980 Total	1,161,562	346,240	245,994	251,116	276,021	5,073	433	2,286,43
981 Total	1,203,203	345,777	206,421	272,674	260,684	5,686	368	2,294,81
982 Total	1,192,004	305,260	146,797	282,773	309,213	4.843	321	2,241,21
983 Total	1,259,424	274.098	144,499	293,677	332,130	6,075	381	2,310,28
984 Total	1,341,681	297.394	119,808	327,634	321,150	7,741	898	2,416,30
985 Total	1,402,128	291,946	100,202	383,691	281,149	9,325	1,399	2,469,84
986 Total	1,385,831	248,508	136,585	414,038	290,844	10,308	1,195	2,487,31
987 Total	1,463,781	272,621	118,493	455,270	249,695	10,775	1,491	2,572,12
988 Total	1,540,653	252,801	148,900	526,973	222.940	10,300	1,684	2,704,25
989 Total	1,553.661	266,598	158,318	529,355	265,063	9,342	1,968	2,784,30
990 Total	1,559,606	264,089	117,017	576,862	279,926	8,581	2,070	2,808,15
991 Total	1,551,167	264,172	111,463	612,565	275,519	8,087	2,050	2,825,02
992 Total	1,575,895	263,872	88,916	618,776	239,559	8,104	2,096	2,797,21
			,	,		-,		-• •
993 January	138,354	15,807	7,239	59,076	24,453	651	202	245,78
February	130,069	15,768	6,939	51,319	19,722	633	167	224,61
March	136,404	18,783	8,569	46,606	23,587	659	193	234,80
April	120,325	16,684	5,205	43,199	25,160	654	148	211,37
May	120,878	15,845	5,267	50,367	29,323	582	135	222,39
June	137,485	24,393	7,809	52,620	26,600	586	139	249,63
July	158,400	31,705	11,341	56,502	23,556	643	144	282,29
August	156,197	34,263	11,975	56,209	19,667	653	167	279,13
September	134,001	24,978	9,759	49,989	17,073	630	173	236,60
October	130,926	22,912	7,659	44,434	16,899	625	174	223,62
November	132,288	20,535	7,479	46,862	17,898	618	174	225,85
December	143,824	17,242	10,299	53,108	21,125	637	178	246,41
Total	1,639,151	258,915	99,539	610,291	265,063	7,571	1,994	2,882,52
994 January	152,752	16.847	14,600	56,847	19,843	631	- 177	261,69
February	131,138	14,523	9.655	49,821	19,146	574	154	225,01
March	133,528	18,177	7,960	48,969	22,161	578	170	231,54
April	119,755	20,235	7,674	43,192	23,219	592	150	214,81
May	126,454	20,676	6,991	48,525	24,329	581	147	227,70
June	147,440	30.744	9,887	51,751	23,360	522	154	263,85
July	152,182	34.857	9.317	59,123	21,938	553	179	278,14
August	151,389	37,195	6,064	60,104	19,119	610	164	274,64
September	132,059	28,803	5.027	55,628	15,431	564	151	237,66
October	129,637	25,936	4,566	50,703	16,368	578	184	227.97
November	123,604	22,774	4,480	55,280	17,858	572	177	224,74
December	135,556	20,348	4.815	60,497	20,919	584	187	242,90
Total	1,635,493	291,115	91,039	640,440	243,693	6,941	1,992	2,910,71
205 1	140 440	40.000	4.456	00.010	00.000			
995 January	142,412	19,338	4,159	63,342	23,299	408	126	253,08
February	128,917	16,422	7,042	51,858	23,953	296	106	228,59
2-Month Total	271,329	35,760	11,202	115,200	47,252	705	232	481,67
94 2-Month Total	283,890	31,370	24,255	106,668	38,990	1,205	330	486,70
93 2-Month Total	268,423	31,575	14,178	110,395	44,175	1,283	369	470,39

systems.

a Includes supplemental gaseous fuel.
 b Includes fuel oil nos. 1, 2, 4, 5, and 6, crude oil, kerosene, and petroleum

coke.

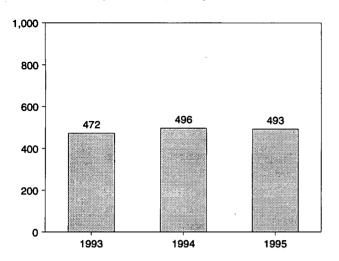
C "Other" is electricity produced from biomass fuels, wind, photovoltaic, connected to electric utility distribution and solar thermal energy sources connected to electric utility distribution

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

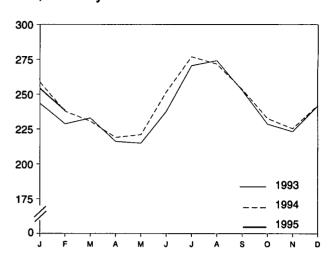
Figure 7.2 Electric Utility Retail Sales of Electricity

(Billion Kilowatthours)

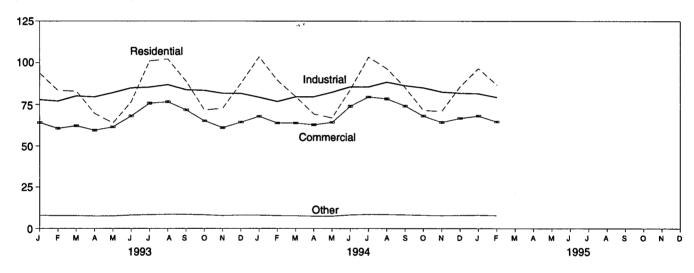
## Total, January and February



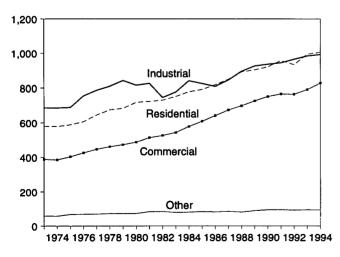
## Total, Monthly



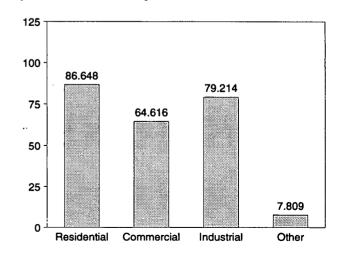
## By Sector, Monthly



By Sector, 1973-1994



By Sector, February 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 <sup>a</sup>	Total	
	Monthly Series <sup>b</sup>	Annual Series								
1973 Total	579,231	NA	388,266	NA NA	686.085	NA	59.326	NA	1,712,909	NA
1974 Total		NA NA	384,826	NA NA	684,875	NA NA	58,039	NA	1,705,924	NA
1975 Total	588,140	NA	403,049	NA NA	687,680	NA NA	68,222	NA	1,747,091	NA
	606,452	NA NA	425,094	NA	754,069	NA NA	69,631	NA	1,855,246	NA NA
1976 Total		NA NA	446,514	NA NA	786,037	NA NA	70,571	NA NA	1,948,361	NA NA
1977 Total	645,239				•	NA NA	73,215	NA	2.017.922	NA
1978 Total	674,466	NA NA	461,163	NA NA	809,078	NA NA	73,213	NA NA	2,071,099	NA
1979 Total	682,819		473,307		841,903	NA NA		NA NA	2,071,099	NA NA
1980 Total	717,495	NA	488,155	NA	815,067		73,732		, ,	
1981 Total	722,265	NA	514,338	NA	825,743	NA	84,756	NA	2,147,103	NA
1982 Total	729,520	NA	526,397	NA	744,949	NA	85,575	NA	2,086,441	NA
1983 Total	750,948	NA	543,788	NA	775,999	NA	80,219	NA	2,150,955	NA
1984, Total	777,654	780,092	578,281	582,621	840,588	837,836	81,849	85,248	2,278,372	2,285,796
1985 Total	790,977	793,934	608,968	605,989	824,523	836,772	85,075	87,279	2,309,543	2,323,974
1986 Total	817,663	819,088	641,469	630,520	808,292	830,531	83,409	88,615	2,350,835	2,368,753
1987 Total	849,613	850,410	673,707	660,433	845,266	858,233	86,854	88,196	2,455,440	2,457,272
1988 Total	892,125	892,866	697,711	699,100	895,751	896,498	82,362	89,598	2,567,949	2,578,062
1989 Total	903,979	905,525	725,229	725,861	926,376	925,659	91,066	89,765	2,646,651	2,646,809
1990 Total	921,473	924,019	750,835	751,027	936,428	945,522	95,936	91,988	2,704,672	2,712,555
1991 Total	957,801	955,417	765,476	765,664	944,684	946,583	96,513	94,339	2,764,474	2,762,003
1992 Total	934,044	935,939	763,664	761,271	965,356	972,714	94,003	93,442	2,757,067	2,763,365
1993 January	93,740	_	63,998	_	77,832	_	7,930	_	243,499	·: -
February	83,376	_	60,609	_	77,008	-	7.752	_	228,745	_
March	83,023	_	62,169	_	80,028	_	7,734	_	232,954	_
April	69,669	_	59,479	_	79,465	_	7,511	_	216,123	
May	63,852	_	61,430	_	82,090	_	7,496	_	214,868	_
June	76,555	_	68,107	_	84,887	_	8,088	_	237,637	_
July	101,026	_	75,706		85,371	_	8,351	_	270,454	_
August	102,181	, <del>-</del>	76,533	_	86,814	_	8,551	_	274,080	_
September		· <del>-</del>	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	. <del>-</del>
December	87,656	_	64,257	_	81,632	_	8,059	_	241,604	· <del>-</del>
Total	994,380	994,781	790,225	794,573	984,111	977,164	96,065	94,944	2,864,782	2,861,462
1994 January	103,502	_	67,928	_	79,231	_	8,046	_	258,706	·_
	89,432	_	63,815	_	76,758	_	7,746	_	237,750	_
February		_	63,786	_	79,494	_	7,746	_	230,664	_
March	69,318	<u>-</u>	62,713	-	79,49 <del>4</del> 79,556	_	7,389	_	218,976	_
•	66,991	_	64,174	_	82,362	_	7,403	_	220,931	<u>-</u>
May		_		_		_	8,214	_	•	_
June	83,868 103,337	_	73,936	_	85,553	_		_	251,570 276,844	-
July	103,327		79,470		85,517		8,530 8 441			_
August	96,486	-	78,336	_	88,378 86.257	_	8,441	_	271,641	-
September	85,122	-	74,120		86,257		8,220	-	253,720	
October	71,511	-	68,107	<del>-</del> , .	84,979	-	8,004	<del>-</del>	232,602	_
November	70,901	_	64,226	-	82,534	-	7,728	_	225,388	_
December Total		- NA	66,698 <b>827,309</b>	NA	81,803 <b>992,422</b>	NA	7,929 <b>95,326</b>	NA	242,068 <b>2,920,860</b>	NA
			•		•		•		••	
1995 January	96,576 86,648	_	68,089 64,616	_	81,499 79,214	_	8,061 7,809	_	254,226 238,286	-
2-Month Total	183,224	_	132,705	_	160,713	_	15,871	-	492,512	_
1004 2 Month Total	102 024		121 742		155 000	_	15 701	_	AGE AFE	
1994 2-Month Total	192,934 177,116	_	131,742 124,607	-	155,989 154,840	_	15,791 15,682	_	496,456 472,245	_

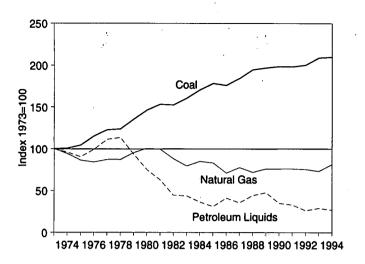
a "Other" is public street and highway lighting, other sales to public authorities, sales to railroads and railways, and interdepartmental sales.
 b Annual totals are the sums of the monthly values.

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

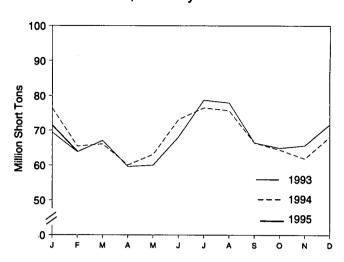
Geographic coverage is the 50 States and the District of rounding. Columbia.

Figure 7.3 Electric Utility Consumption and Stocks of Fossil Fuels

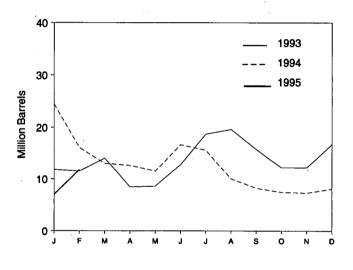
## Fuels Consumed, 1973-1994



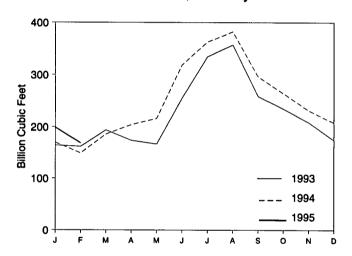
## Coal Consumed, Monthly



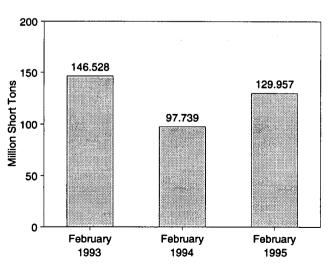
## Petroleum Liquids Consumed, Monthly



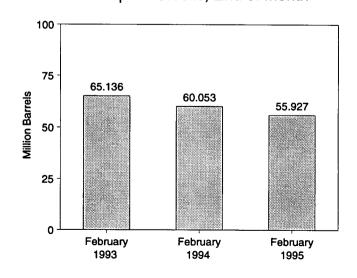
Natural Gas Consumed, Monthly



## 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	pal Petroleum						Petroleum					
					By T of Petr		By Pr Mover							
	Anthra- cite	Bituminous Coal	Lignite	Total	Heavy Oil <sup>a</sup>	Light Oil <sup>b</sup>	Steam Plants	GT/IC°	Total Liquids	Petroleum Coke	Natural Gas <sup>d</sup>			
		Thousand \$	Short Tons			The	ousand Barr	els		Thousand Short Tons	Million Cubic Feet			
070 7-4-1	1,443	376,975	10,794	389,212	NA	NA NA	513,190	47,058	560,248	507	3,660,172			
973 Total 974 Total	1,443	378,643	11,670	391,811	NA	NA	483,146	53,128	536,274	625	3,443,428			
975 Total	1,480	388,523	15,960	405,962	NA	NA	467,221	38,907	506,128	70	3,157,669			
976 Total	•	425,205	21,817	448,371	NA	NA	514,077	41,843	555,920	68	3,080,868			
977 Total		451,051	24,650	477,126	NA	NA	574,869	48,837	623,705	98	3,191,200			
978 Total		448,763	31,407	481,235	NA	NA	588,319	47,520	635,839	398	3,188,363			
979 Total		488,129	37,876	527,051	NA	NA	492,606	30,691	523,297	268	3,490,523			
980 Total		526,680	41,642	569,274	391,163	29,051	401,863	18,351	420,214	179	3,681,595			
981 Total		550,784	44,792	596,797	329,798	21,313	339,680	11,431	351,111	139	3,640,154			
982 Total		543,346	49,245	593,666	234,434	15,337	243,537	6,234	249,771	149	3,225,518			
983 Total		570,108	54,067	625,211	228,984	16,512	237,845	7,652	245,497	261	2,910,767			
984 Total	*	606,339	56,990	664,399	189,289	15,190	197,050	7,429	204,479	252	3,111,342			
985 Total		631,885	60,923	693,841	158,779	14,635	166,842	6,572	173,414	231	3,044,083			
986 Total		616,134	68,093	685,056	216,156	14,326	222,500	7,983	230,482	313	2,602,370			
987 Total		647,824	69,098	717,894	184,011	15,367	190,818	8,560	199,378	348	2,844,051			
988 Total		681,048	76,260	758,372	229,327	18,769	235,817	12,279	248,096	409	2,635,613			
989 Total		688,504	77,335	766,888	241.960	25,491	250,315	17,136	267,451	517	2,787,012			
990 Total		694,317	78,201	773,549	181,231	14,823	187,531	8,523	196,054	819	2,787,332			
991 Total		691,275	79,999	772,268	171,157	13,729	177,286	7,600	184,886	722	2,789,014			
992 Total		698,626	80,248	779,860	135,779	11,556	141,163	6,172	147,335	999	2,765,608			
		,	,	,	<b>,</b>	•	•	•						
993 January	. 79	61,703	7,617	69,400	10,804	1,013	11,265	552	11,817	92	164,374			
February		57,293	6,431	63,812	10,569	935	11,002	503	11,504	81	161,928			
March		60,969	6,002	67,073	12,784	1,277	13,313	748	14,061	87	193,811			
April		53,755	5,757	59,596	7,629	819	8,094	354	8,448	79	173,834			
May		53,380	6,570	60,032	7,722	868	8,198	392	8,590	86	166,840			
June		61,090	6,948	68,118	11,756	1,033	12,249	540	12,789	98	254,823			
July		71,134	7,511	78,717	16,896	1,817	17,406	1,306	18,713	125	334,101			
August		70,241	7,624	77,932	18,044	1,566	18,509	1,101	19,610	112	357,027			
September		60,143	6,289	66,493	14,730	1,031	15,111	650	15,761	129	258,325			
October		59,125	5,752	64,941	11,318	897	11,771	444	12,216	112	234,544			
November		59,385	6,211	65,677	11,339	886	11,781	444	12,225	101	208,335			
December		64,516	7,109	71,717	15,694	1,027	16,206	514	16,720	120	174,498			
Total		732,736	79,821	813,508	149,287	13,168	154,905	7,549	162,454	1,220	2,682,440			
		,	,	•	•	•	-							
994 January	. 82	69,022	7,257	76,362	20,743	3,709	21,602	2,850	24,452	112	169,983			
February		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	12,626	71	203,934			
May		56,482	6,513	63,084	10,346	1,164	10,839	670	11,510	59	216,022			
June		66,162	6,881	73,130	14,775	1,871	15,369	1,278	16,646	71	318,528			
July			6,964	76,489	14,062	1,530	14,576	1,016	15,592	76	362,444			
August			6,877	75,682	8,992	1,021	9,453	559	10,013	65	382,114			
September			6,479	66,445	7,346	870	7,759	456	8,216	62	295,956			
October			6,330	64,447	6,634	811	7,057	387	. 7,444	62	263,958			
November			6,245	61,877	6,432	863	6,910	385	7,294	59	231,242			
December			6,977	68,161	7,029	1,048	7,523	554	8,077	57	207,886			
Total			79,045	817,270	134,666	16,338	140,907	10,097	151,004	875	2,987,146			
		0.000	7 400	74 404	E 055	4 057	6 200	622	7,012	64	198,657			
995 January			7,103	71,431	5,955	1,057	6,380	632 890	11,773		168,710			
February			5,729	63,940	10,457	1,316	10,883 <b>17,263</b>	1,523	18,786		367,366			
2-Month Total	. 157	122,382	12,833	135,371	16,412	2,373	17,203	1,523	10,700	123	551,550			
994 2-Month Total	. 180	127,865	13,771	141,817	35,440	5,105	36,844	3,701	40,546	200	319,140			
			14,049	133,212	21,373	1,948	22,267	1,055	23,322		326,302			
1993 2-Month Total	. 107	110,550	1-7,043	100,212	-1,070	1,540	,_,	.,	,		,			

<sup>&</sup>lt;sup>a</sup> Heavy oil includes fuel oil nos. 4, 5, and 6, and residual fuel oils.

d Includes supplemental gaseous fuels.

NA=Not available.

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

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

GT/IC = Gas turbine and internal combustion plants.

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

		Coa	al		Petroleum						
						Type roleum		rime r Type			
, . · · ·	Anthracite	Bituminous Coal	Lignite	Total	Heavy Oil <sup>a</sup>	Light Oil <sup>b</sup>	Steam Plants	GT/IC°	Total Liquids	Petroleum Coke	
		Thousand S	hort Tons			ד	housand Barre	els		Thousand Short Tons	
1973 Total	1.066	84,941	961	86.967	NA	NA	70 404	40.005			
1974 Total		81,712	867	83,509	NA NA	NA NA	79,121	10,095	89,216	312	
1975 Total		107,927	1,815	110,724	NA NA	NA NA	97,718	15,199	112,917	35	
1976 Total		114,130	2,306	117,436	NA NA	NA NA	108,825	16,432	125,257	. 31	
1977 Total	2,321	128,210	2,688	133,219	NA NA		106,993	14,703	121,696	32	
1978 Total	2,178	123,020	3,027	128,225	NA NA	NA NA	124,750	19,281	144,031	. 44	
1979 Total	3,274	152,981	3,459	159,714	NA NA		102,402	16,386	118,788	198	
1980 Total	4,741	174,154	4,115	183,010		NA 20.000	111,121	20,301	131,422	183	
1981 Total		158,258	5,098	168,893	105,351	30,023	117,227	18,147	135,374	52	
1982 Total	6,080	170,480	4,573		102,042	26,094	112,380	15,756	128,136	42	
1983 Total			•	181,132	95,515	23,369	105,287	13,597	118,884	41 .	
1984 Total	6,710	145,250 167,118	3,841	155,598	70,573	18,801	78,285	11,090	89,375	55	
1985 Total	7,189		5,899	179,727	68,503	19,116	76,836	10,784	87,619	50	
	7,169 7,099	142,144	7,043	156,376	57,304	16,386	64,704	8,985	73,689	49	
1986 Total	6,940	148,665	6,042	161,806	56,841	16,269	64,258	8,853	73,111	40	
1987 Total		156,670	7,187	170,797	55,069	15,759	61,705	9,123	70,827	51	
1988 Total	6,561	133,434	6,512	146,507	54,187	15,099	60,311	8,974	69,285	86	
1989 Total	6,403	122,967	6,490	135,860	47,446	13,824	53,309	7,962	61,270	105	
1990 Total	6,499	142,650	7,016	156,166	67,030	16,471	73,306	10,195	83,501	94	
1991 Total	6,513	145,367	5,996	157,876	58,636	16,357	65,032	9,961	74,993	70	
1992 Total	6,215	142,156	5,759	154,130	56,135	15,714	62,374	9,475	71,849	67	
1993 January	6.166	138,615	5,521	150,302	53.781	15.840	60,193	9,428	69,620	C.F.	
February	6,107	135,063	5,357	146,528	50,005	15,131	56,303	8,833		65 60	
March	6,036	132,183	5,758	143,978	45,313	14,914	51,528	8,698	65,136	.60	
April	5,802	136,199	6,177	148,178	47,356	14,856	53,475		60,227	66	
May	5,773	138,668	6,238	150,678	50,422	14,669	56,495	8,736	62,211	77	
June	5,766	133,977	6,009	145,753	49,294	14,936	55,604	8,596	65,091	82	
July	5,755	115,383	5,677	126,815	47,401	14,536		8,626	64,230	92	
August	5,745	102,582	5,651	113,978	43,943	14,818	53,639	8,380	62,019	90	
September	5,735	100,951	6,147	112.833	45,913		50,223	8,562	58,785	99	
October	5,718	102,700	6,687	115,105	46,298	14,774	52,071 52,005	8,617	60,687	62	
November	5,693	103,447	6,955	116,095	46,603	14,822 14,878	52,385	8,735	61,120	69	
December	5,639	98,560	7,142	111,341	46,769	15,674	52,812 <b>53,360</b>	8,668 <b>9.083</b>	61,481 <b>62,443</b>	84 <b>89</b>	
4004 1			•	•	·	·	•	5,550	02,110	03	
1994 January	5,576	86,043	6,676	98,294	42,781	15,127	49,922	7,986	57,908	83	
February	5,496	85,523	6,720	97,739	44,764	15,289	51,209	8,843	60,053	73	
March	5,420	92,333	7,433	105,186	45,750	15,024	51,950	8,824	60,774	89	
April	5,360	100,161	7,803	113,324	44,221	14,937	50,528	8,630	59,158	103	
May	5,309	107,716	7,518	120,543	46,104	15,170	52,623	8,651	61,274	78	
June	5,275	105,668	7,449	118,391	44,719	15,541	51,361	8,898	60,259	63	
July	5,214	96,502	7,704	109,419	44,259	15,323	50,654	8,928	59,582	37	
August	5,173	95,932	7,679	108,783	46,420	15,509	52,643	9,286	61,929	25,	
September	5,133	99,793	7,388	112,314	47,111	15,586	53,261	9,437	62,697	35	
October	5,080	104,432	7,161	116,673	45,971	15,930	52,182	9,720	61,902	33	
November	4,903	110,569	7,856	123,328	46,475	16,128	52,730	9,873	62,603	51	
December	4,879	115,325	6,693	126,897	46,342	16,644	52,814	10,172	62,986	69	
1995 January	4,849	114,316	6,309	125,475	45,428	16,615	51.758	10,285	62,043	75	
February	4,791	118,880	6,286	129,957	39,922	16,005	46,101	9,826	55,927	75 95	
		-,	-,	.=0,00.	50,022	10,000	70,101	3,020	33,521	90	

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

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. NA=Not available.

#### 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, May 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, May 1995, Table 18.

#### Sources for Table 7.4

- Prime Mover Type Data: 1973-September 1977— Federal Power Commission (FPC), Form FPC-4, "Monthly Power Plant Report." October 1977-1981— Federal Energy Regulatory Commission (FERC), Form FPC-4, "Monthly Power Plant Report." 1982 forward— Energy Information Administration (EIA), Form EIA-759, 'Monthly Power Plant Report."
- All Other Data: 1973-September 1977—FPC, Form FPC-4, "Monthly Power Plant Report." October 1977-1979—FERC, Form FPC-4 "Monthly Power Plant Report." 1980—EIA, Electric Power Plant Monthly, March 1991, Table 29. 1981—EIA, Electric Power Monthly, March 1992, Table 29. 1982—EIA, Electric Power Monthly, March 1993, Table 29. 1983 and 1992 monthly data—EIA, Electric Power Monthly, March 1994, Table 29. 1984 forward (except 1992 monthly data)—EIA, Electric Power Monthly, May 1995, Table 29.

# Section 8. Nuclear Energy

In February 1995, U.S. nuclear generating units produced a total of 52 net terawatthours (billion kilowatthours) of electricity, 4 percent<sup>8</sup> more than in February 1994. Nuclear units generated at an average capacity factor of 77.9 percent, 3 percentage points higher than in February 1994. Nuclear power supplied 22.7 percent of the total electric utility-generated electricity in February 1995, compared with 22.1 percent in February 1994.

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

On February 28, 1995, there were 109 operable nuclear generating units in the United States, with a collective net summer capability of 99.0 million kilowatts of elec-

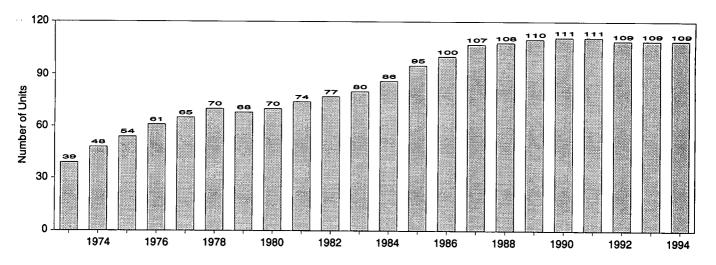
tricity. Of the 109 operable units, 19 units generated at less than 25 percent of capacity because of maintenance, refueling, or repair outage, and 9 of the 19 units generated no electricity during the month including two operable units, Browns Ferry 1 and 3, that have been shut down since March 1985.

As of February 28, 1995, there were 116 domestic nuclear generating units in all stages of construction and operation. Seven units possess a construction permit, although construction for 6 of the 7 units was canceled or halted. The aggregate net design capacity of operable units was 101.1 million kilowatts, and the design capacity of the 7 units with construction permits was 8.5 million kilowatts, for a total design capacity of 109.6 million kilowatts.

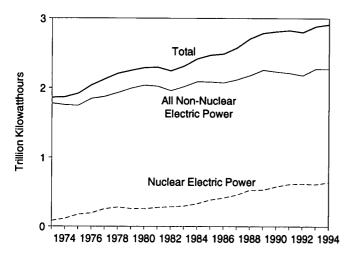
<sup>&</sup>lt;sup>8</sup>Percent changes are based on numbers shown in the following tables.

Figure 8.1 Nuclear Power Plant Operations

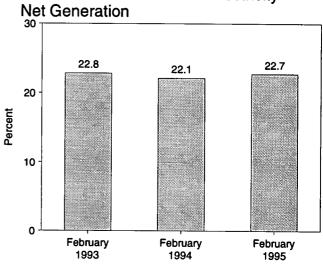
# Operable Units, End of Year, 1973-1994



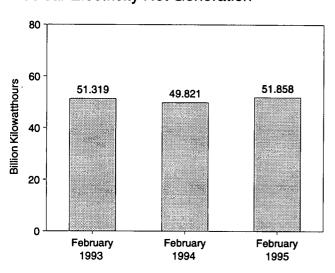
Net Generation of Electricity, 1973-1994



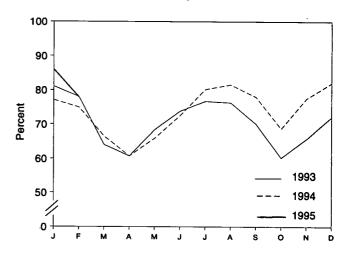
Nuclear Portion of Domestic Electricity



**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 <sup>a,b</sup>	Nuclear Electricity Net Generation	Nuclear Portion of Domestic Electricity Net Generation	Net Summer Capability of Operable Units <sup>a,c</sup>	Capacity Factor <sup>d</sup>
	Number	Million Kilowatthours	Percent	Million Kilowatts	Percent
	20	92.470	4.5	22.683	53.5
973 Year	39	83,479	6.1	31.867	47.8
974 Year	48	113,976	. 9.0	37.267	55.9
975 Year	54	172,505 191,104	9.4	43.822	54.7
976 Year	61	250,883	11.8	46.303	63.3
977 Year	65 70		12.5	50.824	64.5
978 Year	70	276,403 255 155	11.4	49.747	58.4
979 Year	68	255,155	11.4	51.810	56.3
980 Year	70 74	251,116	11.9	56.042	58.2
981 Year	74	272,674	12.6	60.035	56.6
982 Year	77	282,773	12.7	63.009	54.4
983 Year	80	293,677	13.6	69.652	56.3
984 Year	86	327,634	15.5	79.397	58.0
985 Year	95	383,691	15.5 16.6	79.397 85.241	56.9
986 Year	100	414,038		93.583	57.4
987 Year	107	455,270 536,073	17.7 19.5	94.695	63.5
988 Year	108	526,973 500.355	19.5	98.161	62.2
989 Year	110	529,355 576,863		99.624	66.0
990 Year	111	576,862	20.5	99.589	70.2
991 Year	111	612,565	21.7		70.2 70.9
992 Year	109	618,776	22.1	98.985	. 10.3
993 January	108	59,076	24.0	97.881	81.1
February	108	51,319	22.8	97.881	78.0
March	108	46,606	19.8	97.881	64.0
April	109	43,199	20.4	99.031	60.7
May	109	50,367	22.6	99.031	68.4
June	109	52,620	21.1	99.031	73.8
July	109	56,502	20.0	99.031	76.7
August	109	56,209	20.1	99.031	76.3
September	109	49,989	21.1	99.031	70.1
October	109	44,434	19.9	99.094	60.2
November	109	46,862	20.7	99.094	65.7
December	109	53,108	21.6	99.041	72.1
Year	109	610,291	21.2	99.041	70.5
994 January	109	56,847	21.7	99.041	77.1
February	109	49,821	22.1	99.041	74.9
March	109	48,969	21.1	99.041	66.5
April	109	43,192	20.1	99.041	60.7
May	109	48,525	21.3	99.041	65.9
June	109	51,751	19.6	99.041	72.5
July	109	59,123	21.3	99.041	80.2
August	109	60,104	21.9	99.041	81.6
September	109	55,628	23.4	99.041	78.0
October	109	50,703	22.2	99.041	68.7
November	109	55,280	24.6	99.041	77.5
December	109	60,497	24.9	99.041	82.1
Year	109	640,440	22.0	99.041	73.8
IOOF Innue	109	63,342	25.0	99.041	86.0
995 January	109	51,858	25.0 22.7	99.041	77.9
February	109 109	115,200	23.9	99.041	82.1
2-Month Total	103	110,200	20.0		
994 2-Month Total	109	106,668	21.9	99.041	76.1
993 2-Month Total	108	110,395	23.5	97.881	79.7

Note 4 at end of section.

Notes: • Nuclear electricity net generation totals may not equal sum of components due to independent rounding. • Geographic coverage is the 50 States and the District of Columbia.

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

Table 8.2 Nuclear Generating Units, End of Period

		nsed eration		ruction mits				Total
	Operable <sup>a</sup>	In Startup <sup>b</sup>	Granted	Pending	On Order	Announced	Total	Design Capacity <sup>c</sup>
				Number of Units	<b>3</b>			Million Kilowatts
1973 Year	39	2	. 57	52	49	9	208	198
1974 Year	48	5	62	75	30	6	226	223
1975 Year	54	2	69	69	14	5	213	212
1976 Year	61	1	71	63	16	2	214	211
1977 Year	65	2	78	49	13	2	209	203
978 Year	70	0	88	32	5	ō	195	191
979 Year	68	Ö	90	24	3	ŏ	185	180
980 Year	70	i	82	12	3	ŏ	168	
981 Year	74	ò	76	11	2	Ö		162
982 Year	77	2	60	3	2	0	163	157
983 Year	80	3	53	0			144	134
984 Year	86	6			2	0	138	129
			38	0	2	Ō	132	123
985 Year	95	3	30	0	2	o o	130	121
986 Year	100	7	19	0	2	0	128	119
987 Year	107	4	14	0	2	0	127	119
988 Year	108	3	12	0	0	0	123	115
989 Year	110	1	10	0	0	0	121	113
990 Year	111	0	8	0	0	0	119	111
991 Year	111	0	8	0	0	0	119	111
992 Year	109	0	8	0	0	Ō	117	111
993 January	108	0	8	0	0	0	116	110
February	108	1	7	Ŏ	ŏ	ŏ	116	110
March	108	1	7	ŏ	ŏ	ŏ	116	110
April	109	Ò	7	ŏ	ŏ	ŏ	116	
May	109	ŏ	7	ŏ	Ö	ŏ		110
June	109	ŏ	7	ŏ	ŏ	0	116	110
July	109	ŏ	7	Ö	-	-	116	110
August	109	Ŏ	7		0	0	116	110
		-		0	0	0	116	110
September	109	0	7	0	0	0	116	110
October	109	0	7	0	Ō	0	116	110
November	109	0	7	0	Q	0	116	110
December	109	0	7	0	0	0	116	110
994 January	109	0	7	0	0	0	116	110
February	109	0	7	0	0	Ō	116	110
March	109	Ó	7	ŏ	ŏ	ŏ	116	110
April	109	Ŏ	7	ŏ	ŏ	Ö	116	110
May	109	0	7	Ŏ	Ö	ŏ	116	110
June	109	ŏ	7	ŏ	ŏ	Ö	116	
July	109	ŏ	7	ŏ	0	0		110
August	109	ŏ	7	ŏ	0	0	116	110
September	109	ŏ	7	0	•	-	116	110
October	109	Ö	7		0	0	116	110
		-	•	0	0	0	116	110
November	109	0	7	0	0	Õ	116	110
December	109	0	7	0	0	0	116	110
95 January	109	0	7	0	0	0	116	110
February	109	0	7	0	0	0	116	110

at end of section.

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

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

# **Nuclear Energy Notes**

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

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

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

- 2. In Startup: The period of time between a nuclear generating unit's initial fuel loading date and the issuance of its full-power license. During that period, the unit is undergoing low-power testing and the maximum level of operation is 5 percent of the unit's design thermal rating.
- 3. Capacity: Nuclear generating units may have more than one type of net capacity rating, including the following:
- (a) Net Summer Capability—The steady hourly output that generating equipment is expected to supply to system load, exclusive of auxiliary power, as demonstrated by test at the time of summer peak demand. Auxiliary

power of a typical nuclear power plant is about 5 percent of gross generation.

- (b) Net Design Capacity or Net Design Electrical Rating (DER)—The nominal net electrical output of a unit, specified by the utility and used for plant design.
- 4. Monthly Capacity Factors: The monthly capacity factors are computed as the actual monthly generation divided by the maximum possible generation for that month. The maximum possible generation is the number of hours in the month multiplied by the net summer capability at the end of the month. That fraction is then multiplied by 100 to obtain a percentage. Annual capacity factors are averages of the monthly values for that year.

# Sources for Table 8.1

- Operable Units: 1973-1982—U.S. Department of Energy (DOE), Office of Nuclear Programs, "U.S. Central Station Nuclear Electric Generating Units: Significant Milestones." 1983 forward —Nuclear Regulatory Commission (NRC), "Licensed Operating Reactors" (NUREG-0020).
- Nuclear Electricity Net Generation: Table 7.1.
- Nuclear Portion of Domestic Electricity Net Generation—Calculated from data in Table 7.1.
- Net Summer Capability of Operable Units: 1973-1982—Compiled from various sources, primarily DOE, Office of Nuclear Reactor Programs, "U.S. Central Station Nuclear Electric Generating Units: Significant Milestones." 1983 forward—Energy Information Administration (EIA), Form EIA-860, "Annual Electric Generation Report," and monthly updates as appropriate.
- Capacity Factor—EIA, Office of Coal, Nuclear, Electric and Alternate Fuels.

#### Sources for Table 8.2

- Licensed for Operation: 1973-1982—U.S. Department of Energy (DOE), Office of Nuclear Programs, "U.S. Central Station Nuclear Electric Generating Units: Significant Milestones." 1983 forward—Nuclear Regulatory Commission (NRC), "Licensed Operating Reactors" (NUREG-0020).
- Construction Permits, On Order, and Announced: 1973-1982—Compiled from various sources, primarily DOE, Office of Nuclear Reactor Programs, "U.S. Central Station Nuclear Electric Generating Units: Significant Milestones"; Energy Information Adminis-

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

• Total Design Capacity: 1973-1982—Compiled from various sources, primarily DOE, Office of Nuclear Reac-

tor 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 \$14.71 per barrel in February 1995, 37 percent higher than the level in February 1994. The refiner acquisition cost of imported crude oil in February 1995 was \$17.21 per barrel, 33 percent above the February 1994 level. The average cost of domestic crude oil in February 1995 was \$17.16, 30 percent higher than the February 1994 average.

Motor Gasoline. The national city average retail price of unleaded regular gasoline at all types of stations was \$1.12 per gallon in March 1995, 7 percent higher than the price in March 1994. The price of unleaded premium gasoline averaged \$1.31 per gallon in March 1995, 5 percent higher than the price in March 1994.

Residual Fuel Oil. The average price, excluding taxes, of residual fuel oil sold to end users in February 1995 was 39 cents per gallon, 2 percent lower than the previous month's price but 6 percent above the February 1994 average. The average resale price, excluding taxes, of residual fuel oil in February 1995 was 35 cents per gallon, 2 percent lower than the January 1995 average and 3 percent higher than the price 1 year earlier.

Aviation Fuel. The average price, excluding taxes, of aviation gasoline sold to end users in February 1995 was \$1.00 per gallon, slightly higher than the previous month's price and 13 percent higher than the February 1994 price. The average price, excluding taxes, of kerosene-type jet fuel sold to end users in February 1995 was 52 cents per gallon, slightly lower than the previous month's average price and 6 percent lower than the February 1994 average price.

No. 2 Distillate Fuel Oil. The February 1995 national average price, excluding taxes, of heating oil sold to residential customers was 88 cents per gallon, 1 percent higher than the January 1995 price but 5 percent lower than the February 1994 price. The average price of No. 2 fuel oil sold to all end users was 56 cents per gallon

in February 1995, slightly below January 1995 and 13 percent lower than the February 1994 price.

Electricity. The average price of electricity sold to all ultimate consumers in the United States in February 1995 was 6.68 cents per kilowatthour, slightly lower than the February 1994 mean price. The price of electricity sold to residential consumers in February 1995 averaged 7.98 cents per kilowatthour, 2 percent higher than the February 1994 price. The price of electricity sold to commercial consumers averaged 7.52 cents per kilowatthour in February 1995, slightly higher than the February 1994 price. The price of electricity sold to other consumers was 6.58 cents per kilowatthour, the same as the February 1994 price. The price of electricity sold to industrial users in February 1995 averaged 4.59 cents per kilowatthour, 2 percent below the price 1 year earlier.

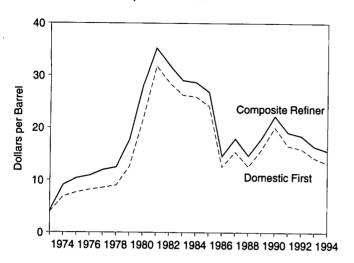
Beginning with January 1986, there were new series of national average price estimates based on a statistically derived sample of both publicly and privately owned electric utilities. Previously, average price estimates were derived from selected privately owned electric utilities and were not national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

Natural Gas. The estimated average wellhead price of natural gas for February 1995 was \$1.56 per thousand cubic feet, 27 percent below the February 1994 price.

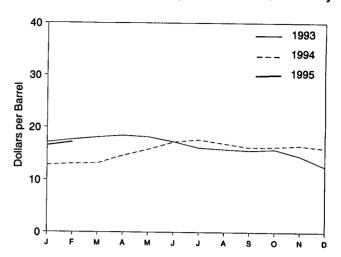
The average price of natural gas delivered to electric utility plants was \$2.13 per thousand cubic feet in January 1995 (latest date for which data are available) 20 percent below the January 1994 price. The average price of natural gas used by residential consumers in February 1995 was \$5.74 per thousand cubic feet, 5 percent below the February 1994 price. The average price of natural gas used by commercial consumers in February 1995 was \$5.11 per thousand cubic feet, 9 percent lower than the February 1994 price. The average price of natural gas used by industrial consumers in February 1995 was \$2.97 per thousand cubic feet, 15 percent below the February 1994 price.

Figure 9.1 Petroleum Prices

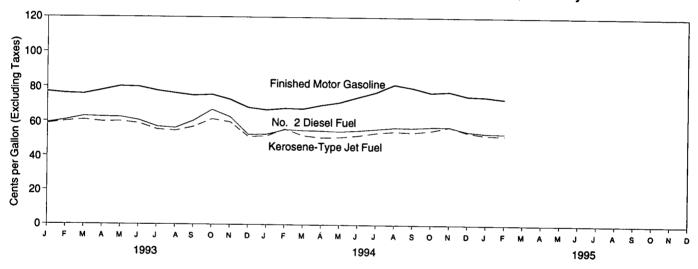
Crude Oil Prices, 1973-1994



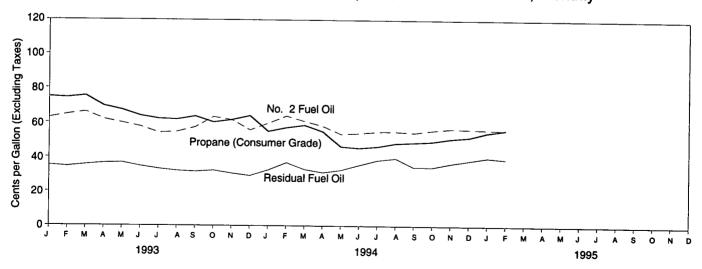
# Composite Refiner Acquisition Cost, Monthly



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



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



Sources: Tables 9.1, 9.5, and 9.7.

Table 9.1 Crude Oil Price Summary

(Dollars per Barrel)

				Re	finer Acquisition Co	st <sup>a</sup>
	Domestic First Purchase Price <sup>b</sup>	F.O.B. Cost of Imports <sup>c</sup>	Landed Cost of Imports <sup>d</sup>	Domestic	Imported	Composite
070 Avenage	3.89	<sup>e</sup> 5.21	e 6.41	<sup>E</sup> 4.17	<sup>€</sup> 4.08	<sup>E</sup> 4.15
973 Average	6.87	10.91	12.32	7.18	12.52	9.07
974 Average	7.67	11.18	12.70	8.39	13.93	10.38
975 Average	7.67 8.19	12.15	13.32	8.84	13.48	10.89
976 Average	8.57	13.24	14.36	9.55	14.53	11.96
977 Average	9.00	13.29	14.35	10.61	14.57	12.46
978 Average		20.07	21.45	14.27	21.67	17.72
979 Average	12.64	32.37	33.67	24.23	33.89	28.07
980 Average	21.59	32.37 35.15	36.47	34.33	37.05	35.24
981 Average	31.77		33.18	31.22	33.55	31.87
982 Average	28.52	32.02		28.87	29.30	28.99
983 Average	26.19	27.81	28.93	28.53	28.88	28.63
984 Average	25.88	27.60	28.54	26.53 26.66	26.99	26.75
985 Average	24.09	25.84	26.67	26.66 14.82	14.00	14.55
986 Average	12.51	12.52	13.49	14.82 17.76	18.13	17.90
987 Average	15.40	16.69	17.65		14.56	14.67
988 Average	12.58	13.25	14.08	14.74	18.08	17.97
989 Average	15.86	16.89	17.68	17.87	21.76	22.22
990 Average	20.03	20.37	21.13	22.59	18.70	19.06
991 Average	16.54	16.89	18.02	19.33	18.20	18.43
992 Average	15.99	16.77	17.75	18.63	10.20	10.43
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
1994 January	10.51	12.10	12.70	12.72	12.93	12.82
February	10.73	11.99	12.64	13.24	12.90	13.07
March	10.81	12.22	12.88	13.14	13.18	13.16
April	12.33	13.46	14.23	14.74	14.54	14.64
May	14.03	14.55	15.55	15.88	15.74	15.81
June	14.95	15.47	16.52	17.38	17.04	17.21
July	15.31	16.18	17.17	17.74	17.55	17.64
August	14.50	14.91	16.05	17.22	16.67	16.92
September	13.62	14.32	15.47	16.46	15.90	16.18
October	13.84	14.74	15.67	16.35	16.23	16.29
November	14.14	14.84	15.99	16.63	16.46	16.54
December	13.43	R 14.55	<sup>R</sup> 15.64	16.22	15.78	16.03
Average		R 14.16	15.16	15.68	15.51	15.59
1005 lanuari	R 14.01	<sup>R</sup> 15.03	<sup>R</sup> 16.15	R 16.52	<sup>R</sup> 16.56	<sup>R</sup> 16.54
1995 January February	14.71	15.59	16.68	17.16	17.21	17.18

<sup>&</sup>lt;sup>a</sup> 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.

b See Note 1 at end of section.

See Note 2 at end of section.

d See Note 3 at end of section.

<sup>&</sup>lt;sup>e</sup> 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)

			f	<del></del>	T				· ·		
	Algeria	Indonesia	Irana	Mexico	Nigeria	Saudi Arabia	United Kingdom	Venezuela	Other Countries	Arab OPEC <sup>b</sup>	Total OPEC <sup>c</sup>
1973 Averaged	7.23	5.67	4.24	NA	7.81	0.05					-
1974 Average	13.23	11.99	10.85	W	12.44	3.25	NA	5.39	4.84	4.06	5.43
1975 Average	11.93	12.55	10.81	11.44		10.17	NA	10.71	10.02	10.96	11.33
1976 Average	13.05	12.76	11.61	12.22	11.82	10.87	NA	11.04	10.86	11.18	11.34
1977 Average	14.35	13.57	12.68	13.42	13.08 14.44	11.62	W	11.39	11.92	12.06	12.23
1978 Average	14.12	13.61	12.65	13.42	14.44	12.38	14.11	12.63	13.19	13.13	13.29
1979 Average	20.53	19.03	22.93	20.27	21.69	12.70	13.82	12.38	13.35	13.28	13.31
1980 Average	36.67	32.17	22.53 NA	31.06	35.93	17.28	21.70	16.90	21.10	19.27	19.88
1981 Average	39.08	35.62	( e )	33.01	38.31	28.17	34.36	24.81	34.34	31.57	32.21
1982 Average	34.20	35.11	30.97	28.08		32.60	36.06	28.95	36.69	34.79	35.17
1983 Average	30.09	29.92	28.39		35.13	33.73	33.42	23.74	31.96	33.84	33.48
1984 Average	28.34	29.13		25.20	29.81	27.53	29.91	21.48	27.96	28.28	28.46
1985 Average	26.89		27.42	26.39	29.51	27.67	28.87	24.23	27.79	27.79	27.79
		27.12	W	25.33	28.04	22.04	27.64	23.64	26.12	24.34	25.67
1986 Average	13.62	13.19	W	11.84	14.35	11.36	13.84	10.92	13.32	11.59	12.21
1987 Average	16.79	17.40	W	16.36	18.47	15.12	18.28	15.08	17.11	15.80	16.43
1988 Average	W	13.81	(e)	12.18	15.16	12.16	14.80	12.96	13.45	12.57	13.43
1989 Average	W	17.01	(°)	15.96	18.31	16.29	17.89	16.09	17.12	16.72	17.06
1990 Average	W	21.29	(e)	19.26	22.46	20.36	23.43	19.55	19.88	18.84	20.40
1991 Average	W	18.69	15.58	15.37	20.29	14.62	20.81	14.91	17.79	15.59	16.99
1992 Average	W	17.06	(°)	15.26	19.98	15.85	19.61	14.39	17.65	16.50	16.87
1993 January	( <sup>e</sup> )	W	( <sup>e</sup> )	14.14	17.95	15.55	18.29	12.99	15.19	15.63	15.63
February	(e)	W	(e)	14.64	19.06	16.13	18.13	13.68	16.51	16.36	16.49
March	W	W	(e)	15.16	19.33	16.34	18.51	14.22	16.84	16.73	
April	(e)	W	(e)	15.04	19.21	15.23	18.36	14.52	16.76	15.46	16.91
May	(e)	19.14	(e)	15.15	18.90	13.62	18.29	13.89	16.63		16.41
June	(e)	W	(e)	14.04	18.00	W	17.03	12.44	15.86	14.09	16.16
July	`w´	16.48	/ei	13.09	17.46	w	16.07	11.96		14.20	14.95
August	( <sup>e</sup> )	17.74	įeί	13.20	17.42	ŵ	16.73		14.97	13.67	14.19
September	`w′	W	/e\	13.50	16.73	w	16.73	12.56	14.68	14.13	14.18
October	W	w	(e)	13.74	17.02	11.16		12.72	14.23	12.72	14.13
November	ŵ	ŵ	/e\	12.27	15.80	11.15	16.31	11.87	14.88	12.94	13.75
December	w	w	(e)	11.19	14.21	W W	15.29	9.97	13.85	12.19	12.45
Average	w	17.13	(e)	13.74	17.79	13.77	14.19 <b>16.64</b>	9.34 <b>12.46</b>	11.86	11.47	11.44
•								12.40	15.17	14.25	14.78
1994 January	W.	W	( <sup>e</sup> )	11.30	14.88	11.02	W	10.87	12.26	11.45	12.42
February	( <sup>e</sup> )	14.46	(a)	11.43	14.00	11.38	W	10.35	12.19	11.31	11.81
March	W	W	(a)	11.64	14.27	12.61	13.68	11.00	12.27	12.24	12.23
April	W	13.28	(a)	12.86	15.65	13.49	W	11.81	13.68	13.45	13.58
May	( <sup>e</sup> )	15.24	(a)	13.64	16.70	14.43	15.77	12.79	15.16	14.38	14.46
June	W	15.91	(a)	15.00	17.31	15.98	16.53	13.23	16.01	16.05	15.33
July	W	17.44	(a)	15.70	18.02	15.86	17.29	14.27	16.72	16.19	15.91
August	W	W	(a)	14.58	16.69	13.95	16.70	12.31	15.94	14.05	14.27
September	( e )	W	(a)	13.51	16.35	14.80	15.41	12.09	15.44	14.82	13.91
October	(°)	W	(a)	14.42	17.01	14.26	16.42	12.90	15.29	14.23	14.49
November	( e )	W	(a)	15.19	17.16	W	w	12.23	15.69	W	14.49
December	w	W	(a)	14.78	16.57	w	16.03	12.20	15.32	R 14.65	R 14.00
Average	W	15.51	(°)	<sup>R</sup> 13.68	16.34	<sup>R</sup> 13.83	15.69	12.21	14.68	R 13.83	13.96
1995 January	( <sup>e</sup> )	w	( <sup>e</sup> )	14.99	<sup>R</sup> 17.05	15.72	w	12.86	<sup>R</sup> 15.45	15.69	R 14.85
February	(e)	W	(e)	15.82	17.42	15.54	16.55	13.46	16.33	15.48	
	· •		_ ` '				.0.55	10.70	10.33	10.48	15.10

<sup>&</sup>lt;sup>a</sup> Beginning with February 1994, data for Iran are no longer reported in the Petroleum Marketing Monthly.

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

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

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

<sup>&</sup>lt;sup>b</sup> The Arab members of OPEC are Algeria, Iraq, Kuwait, Libya, Qatar, Saudi Arabia, and the United Arab Emirates.

<sup>&</sup>lt;sup>6</sup> 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.

<sup>&</sup>lt;sup>e</sup> No data reported.

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

Table 9.3 Landed Costs of Crude Oil Imports from Selected Countries

(Dollars per Barrel)

Second   S		(											
1973 Average								Saudi	United		Other		
1973 Average		Algeria	Canada	Indonesia	Iran <sup>a</sup>	Mexico	Nigeria	Arabia	Kingdom	Venezuela	Countries	OPEC	OPEC
1973 Average				L			·	1	L				
1973 Average	4	0.00	E 00	7 22	6.40	NA	9.08	5.37	NΔ	5.99	6.99	5.92	6.85
1377 Average   12.86   12.84   13.83   12.51   12.61   12.70   12.50   NA   12.66   12.71   12.70   12.70   NA   12.86   12.64   12.71   12.70   12.70   12.70   NA   12.86   12.64   12.71   13.32   12.71   13.32   13.31   13.32   13.31   13.32   13.31   13.32   13.31   13.32   13.31   13.32   13.31   13.32   13.31   13.32   13.31   13.32   13.31   13.32   13.31   13.32   13.31   13.32   13.31   13.32   13.31   13.32   13.31   13.32   13.31   14.55   13.86												12.39	12.49
1972 Average											12.66	12.71	12.70
1977 Average												13.31	13.32
1977 Average 14.83 14.41 14.85 13.89 13.55 14.88 13.94 14.53 12.84 14.59 14.34 14.97 14.95 14.34 1977 Average 21.88 20.22 20.83 24.21 20.77 22.97 18.95 22.97 17.65 22.86 20.79 21.29 1806 Average 37.92 30.11 33.92 NA 31.77 37.15 29.80 35.68 25.92 36.15 32.97 33.56 1891 Average 35.35 27.15 35.70 32.46 28.63 36.16 34.99 34.20 37.29 29.91 38.64 36.22 36.60 1891 Average 35.35 27.15 35.70 32.46 28.63 36.16 34.99 34.25 24.93 34.03 35.15 34.81 1892 Average 31.26 25.63 31.57 29.91 25.78 30.85 29.27 30.87 22.94 29.96 29.7 20.70 20.80 1898 Average 22.05 25.55 30.87 25.70 26.85 30.85 29.27 30.85 22.97 30.25 29.91 29.10 29.06 1898 Average 27.51 25.71 28.67 25.79 25.53 28.96 24.72 23.66 24.33 27.33 25.90 26.85 1898 Average 77.51 25.71 28.67 25.79 25.53 28.96 24.72 23.64 24.33 27.33 25.90 26.85 1898 Average 77.51 70.41 18.49 18.28 16.89 19.32 16.61 18.75 15.76 18.30 17.32 17.64 18.98 Average W 13.50 15.15 W 16.25 15.90 19.32 16.61 18.75 15.76 18.10 18.98 Average W 13.50 15.15 W 16.25 19.94 22.33 15.80 13.67 14.45 13.60 14.18 1990 Average W 17.16 20.20 17.54 19.94 22.33 21.82 22.65 20.31 20.52 20.64 21.23 1991 Average W 17.04 18.76 (*) 15.60 20.75 17.48 20.63 15.13 19.25 17.63 17.81 1992 Average W 17.04 18.76 (*) 15.60 20.75 17.48 20.63 15.13 19.25 17.63 17.81 1993 Average W 17.04 18.76 (*) 15.60 20.25 17.56 18.40 18.14 16.07 17.22 16.49 16.67 17.84 April W 16.79 20.01 (*) 15.56 20.18 17.46 13.33 14.91 18.33 16.64 14.50 15.30 17.84 18.94 16.65 19.92 17.30 17.44 18.74 17.78 18.09 17.74 18.79 17.70 17.84 18.70 17.70 17.84 18.70 17.70 17.84 18.70 17.70 17.84 18.70 17.70 17.84 18.70 17.70 17.84 18.70 17.70 17.84 18.70 17.70	•										14.56	14.30	14.35
1373 Average 21.88 20.22 20.83 24.21 20.77 22.97 18.95 22.97 17.65 22.86 20.79 21.29 13.92 Average 37.92 30.11 33.92 NA 31.77 37.15 29.80 35.65 25.92 36.15 32.97 33.55 34.81 38.24 warage 40.46 32.22 37.31 (°) 33.70 39.66 34.20 37.29 29.91 38.54 36.22 36.60 1882 Average 40.46 32.22 37.31 (°) 33.70 39.66 34.20 37.29 29.91 38.54 36.22 36.60 1882 Average 31.26 25.83 31.57 29.91 25.78 30.85 29.27 30.87 22.94 29.68 29.87 29.84 1882 Average 21.06 26.56 30.87 22.70 26.85 30.36 29.20 29.45 25.19 29.21 29.10 29.06 1884 Average 21.06 25.56 30.87 22.70 26.85 30.36 29.20 29.45 25.19 29.21 29.10 29.06 1885 Average 21.51 25.71 28.67 25.79 25.63 28.96 24.72 28.36 24.43 27.33 25.90 25.66 1885 Average 14.82 13.43 14.63 12.33 12.17 15.29 12.84 14.63 11.52 14.25 13.14 13.46 1886 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 1888 Average W 13.50 15.15 W 12.59 15.88 13.37 15.82 13.43 14.45 13.65 14.18 1888 Average W 20.48 22.50 (°) 19.44 23.33 21.82 22.50 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 17.91 17.78 1990 Average W 17.16 20.20 17.54 15.89 21.39 17.22 21.37 15.92 19.73 17.45 18.08 17.91 17.94 18.79 W 16.79 20.01 17.54 15.89 21.39 17.22 21.37 15.92 19.73 17.45 18.08 17.94 17.79 17.04 18.76 (°) 15.50 20.78 17.48 20.53 15.13 19.25 17.53 17.84 18.94 19.92 17.30 19.28 14.60 18.17 17.30 17.44 Average W 17.16 20.20 17.54 15.89 21.39 17.22 21.37 15.92 19.73 17.45 18.08 17.94 19.79 17.94 18.79 17.94 18.94 19.25 17.55 18.31 18.74 18.74 17.30 17.44 18.76 (°) 15.56 20.58 19.19 19.28 14.60 18.17 17.30 17.44 18.76 (°) 15.56 20.81 17.46 19.32 15.55 18.41 17.45 17.71 17.40 18.49 19.22 17.40 18.49 19.22 17.40 18.49 19.22 17.40 18.49 19.22 17.40 18.49 19.22 17.40 18.49 19.22 17.40 18.49 19.22 17.40 18.49 19.22 17.40 18.49 19.22 17.40 18.49 19.22 17.40 18.49 19.28 18.49 19.28 18.49 19.28 18.55 18.41 17.45 17.71 17.40 18.49 19.28 18.49 19.28 18.49 19.28 18.49 19.28 18.49 19.28 18.49 19.29 18.49 19.28 18.49 19.28 18.49 19.28 18.49 19.28 18.49 19.28 18	•										14.58	14.36	
1890 Average 37.92 30.11 33.92 NA 31.77 37.15 29.80 35.68 25.92 36.16 32.97 33.56 1891 Average 40.46 32.22 37.31 (°) 33.70 39.56 34.20 37.29 29.91 38.64 36.22 36.60 1892 Average 35.35 27.15 36.70 32.46 28.83 36.16 34.99 34.25 24.93 34.03 35.15 34.81 1892 Average 31.26 25.83 31.57 29.91 25.78 30.85 29.27 30.87 22.94 29.96 29.7 29.87 29.81 29.81 29.84 24.93 34.03 35.15 34.81 1993 Average 29.05 25.56 30.87 28.70 26.85 30.85 29.20 29.45 25.19 29.21 29.10 29.06 1984 Average 27.51 25.71 28.67 25.79 25.83 28.96 24.72 29.36 24.43 27.33 25.90 26.85 1985 Average 27.51 25.71 28.67 25.79 25.83 28.96 24.72 29.36 24.43 27.33 25.90 26.85 1986 Average 37.75 17.04 18.49 18.28 16.69 19.32 16.81 18.78 15.76 18.30 17.32 17.64 18.98 Average 37.37 17.04 18.49 18.28 16.69 19.32 16.81 18.78 15.76 18.30 17.32 17.64 1989 Average 37.37 17.04 18.49 18.28 16.89 19.32 16.81 18.78 15.76 18.30 17.32 17.64 1990 Average 38 19.13 16.81 18.35 (°) 19.44 22.33 21.82 22.65 20.31 20.52 20.64 21.23 1990 Average 48 17.16 20.20 17.54 19.44 22.33 17.22 21.74 16.79 19.44 18.79 19.19 19.19 18.76 (°) 15.60 20.78 17.48 20.63 15.13 19.25 17.63 17.81 1992 Average 48 17.16 20.20 17.54 18.99 21.39 17.22 21.75 15.92 19.73 17.45 18.09 17.41 17.78 18.99 Average 48 17.16 20.20 17.54 18.99 19.92 21.39 17.22 21.75 15.92 17.69 17.74 18.76 18.09 17.74 17.74 17.78 18.09 17.74 17.74 17.78 18.09 17.74 17.74 17.78 18.09 17.74 17.74 17.78 18.09 17.74 17.74 17.78 18.09 17.74 17.74 17.78 18.09 17.74 17.74 17.75 18.09 17.75									22.97	17.65	22.86	20.79	21.29
1881 Average 340.46 32.32 37.31 (°) 33.70 39.56 34.20 37.29 29.91 38.54 36.22 36.60 1892 Average 35.35 27.15 36.70 22.46 28.63 36.16 34.99 34.25 24.93 34.03 34.03 35.15 34.81 1892 Average 35.35 27.15 36.70 22.46 28.65 30.85 29.27 30.87 22.94 29.68 29.87 29.84 1898 Average 25.06 26.56 30.87 28.70 26.85 30.86 29.27 30.87 22.94 29.68 29.87 29.84 1898 Average 27.51 25.71 25.77 25.79 25.53 28.96 24.72 28.36 24.43 27.33 25.90 26.68 1896 Average 27.51 25.71 25.77 25.79 25.53 28.96 24.72 28.36 24.43 27.33 25.90 26.68 1896 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 1998 Average W 13.50 15.15 W 12.58 15.88 13.37 15.62 13.66 14.45 13.60 14.18 1998 Average W 20.48 22.50 (°) 19.84 23.33 21.62 22.65 20.13 26.59 14.45 13.60 14.18 1998 Average W 17.16 20.20 17.54 15.89 21.39 17.22 21.37 15.92 19.73 15.99 19.94 Average W 17.16 20.20 17.54 15.89 21.39 17.22 21.37 15.92 19.73 17.45 18.09 1992 Average W 17.04 18.76 (°) 15.50 20.78 17.48 20.63 15.13 19.25 17.63 17.81 1993 Average W 17.04 18.76 (°) 15.50 20.78 17.48 20.63 15.13 19.25 17.63 17.81 1993 Average W 17.04 18.76 (°) 15.50 20.78 17.48 20.63 15.13 19.25 17.63 17.81 1993 Average W 17.04 18.76 (°) 15.50 20.78 17.49 20.63 15.13 19.25 17.63 17.81 1993 Average W 17.04 18.76 (°) 15.50 20.78 17.49 20.63 15.13 19.25 17.63 17.81 17.45 17.71 19.94										25.92	36.15	32.97	33.56
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 1883 Average 312.6 25.83 31.57 29.81 25.78 30.85 29.27 30.87 22.94 29.68 29.87 29.84 1883 Average 29.06 26.56 30.87 25.79 25.63 26.85 30.36 29.20 29.45 25.19 29.21 29.10 29.06 1896 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 1896 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 18.98 Average W 13.50 15.15 W 12.58 15.88 13.37 15.82 13.56 14.45 13.60 14.18 1987 Average W 13.50 15.15 W 12.58 15.88 13.37 15.82 13.56 14.45 13.60 14.18 1990 Average W 20.48 22.50 (*) 19.64 23.33 21.82 22.55 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 10.73 17.45 18.09 19.24 14.07 17.22 16.49 1992 Average W 17.04 18.76 (*) 15.50 20.78 17.48 20.63 15.13 19.25 17.63 17.81 1993 Alauray (*) 15.84 W (*) 14.50 18.94 16.46 19.12 14.07 17.22 16.49 16.67 April W 16.79 20.01 (*) 15.56 20.18 17.46 19.33 14.60 18.17 17.30 17.44 April W 16.79 20.01 (*) 15.56 20.18 17.46 19.33 14.60 18.17 17.30 17.44 April W 16.79 20.01 (*) 15.56 20.18 17.46 19.33 14.91 18.34 15.15 18.34 17.45 17.71 May W 15.30 17.88 (*) 13.66 18.10 15.07 19.83 16.45 19.33 14.91 18.33 16.56 17.22 10.94 14.94 19.28 (*) 13.66 18.10 15.07 19.83 16.45 19.33 14.91 18.33 16.56 17.22 16.49 15.23 19.24 14.07 17.22 16.49 15.23 19.26 17.34 17.45 17.71 May W 16.79 20.01 (*) 15.56 20.18 17.46 19.33 14.91 18.33 18.67 18.33 18.67 18.33 18.67 18.33 18.67 18.33 18.67 18.33 18.6	•								37.29	29.91	38.54	36.22	
1893 Average 31.28 25.83 31.57 29.81 25.78 30.85 29.27 30.87 22.94 29.87 29.84 1984 Average 29.05 26.85 30.87 28.70 26.85 30.86 29.20 29.85 25.19 29.21 29.10 29.06 1984 Average 27.51 25.71 28.67 25.79 25.63 28.96 24.72 28.36 24.43 27.33 25.50 26.86 1985 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 1986 Average 17.87 17.04 18.65 (*) 18.35 19.13 18.81 18.78 15.76 18.30 17.32 17.64 1998 Average 19.13 16.81 18.35 (*) 18.35 19.13 17.34 18.74 16.78 18.08 17.41 17.78 1999 Average W 20.48 22.50 (*) 19.64 23.33 21.26 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 17.65 18.99 19.92 Average W 17.16 20.20 17.54 15.89 21.39 17.22 21.37 15.92 19.73 17.65 18.99 19.93 Average W 17.16 20.20 17.54 15.89 20.78 17.48 20.63 15.13 19.25 17.63 17.81 1993 Average W 17.16 20.20 17.54 15.89 21.39 17.22 21.37 15.92 19.73 17.65 18.91 19.93 Average W 17.16 20.20 17.54 15.89 21.39 17.22 21.37 15.92 19.73 17.65 18.09 19.93 Average W 17.16 20.20 17.54 15.89 21.39 17.22 21.37 15.92 19.73 17.65 18.09 19.93 Average W 17.16 20.20 17.54 15.89 20.78 17.48 20.63 15.13 19.25 17.63 17.81 1993 Average W 17.16 20.20 17.54 15.89 20.78 17.48 20.63 15.13 19.25 17.63 17.81 1993 Average W 17.16 20.20 17.54 15.89 19.93 17.22 21.37 15.92 19.73 17.45 18.08 19.23 19.25 17.63 19.25 17.63 17.81 1993 Average W 17.16 20.20 17.54 15.89 19.25 17.30 19.25 17.63 15.14 18.44 17.62 17.84 April W 16.79 20.01 (*) 15.55 20.18 17.46 19.12 14.07 17.22 16.49 18.74 17.74 17.30 17.44 18.7					` '		36.16	34.99	34.25	24.93	34.03	35.15	34.81
1984 Average 29.06 26.56 30.87 28.70 26.85 30.36 29.20 29.45 25.19 29.21 29.10 29.66 1985 Average 27.51 25.71 26.57 25.79 25.68 28.96 24.72 28.36 24.43 27.33 25.90 26.86 1985 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 1986 Average 17.87 17.04 18.49 18.28 16.99 19.32 16.81 18.78 15.76 18.30 17.32 17.64 18.98 Average 17.87 17.04 18.49 18.28 16.99 19.32 16.81 18.78 15.76 18.30 17.32 17.64 1989 Average 19.13 16.81 18.35 (*) 18.35 18.98 13.37 15.82 13.66 14.45 13.60 14.18 1990 Average 19.13 16.81 18.35 (*) 18.35 19.19 17.34 18.74 16.78 18.08 17.41 17.78 1990 Average W 20.48 22.50 (*) 19.54 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 1992 Average W 17.04 18.76 (*) 15.60 20.78 17.48 20.63 15.13 19.25 17.63 17.81 1993 Average W 16.64 W (*) 14.99 19.92 17.30 19.28 14.60 18.17 17.30 17.44 Avril W 16.79 20.01 (*) 15.55 20.25 17.56 19.43 15.14 18.44 17.62 17.84 Avril W 16.79 20.01 (*) 15.55 20.18 17.46 19.32 14.50 18.17 17.30 17.44 Avril W 16.29 20.67 (*) 15.57 19.83 16.45 19.33 14.91 18.33 16.56 17.22 June (*) 15.92 10.94 19.92 17.30 19.28 14.60 18.17 17.30 17.44 Avril W 16.25 W (*) 14.49 18.94 15.30 18.67 13.49 18.33 16.56 17.22 June (*) 14.94 19.28 (*) 13.66 18.10 15.05 18.14 14.91 18.33 16.56 17.22 June (*) 14.94 19.28 (*) 13.66 18.10 15.55 14.34 14.91 18.33 16.56 17.22 June (*) 14.94 19.28 (*) 13.66 18.10 15.55 14.34 14.91 18.33 16.56 17.22 June (*) 14.94 19.28 (*) 13.66 18.10 15.55 14.34 14.91 18.33 16.56 14.39 18.39 16.55 14.34 14.95 18.39 16.55 14.34 14.95 18.39 16.55 14.39 18.59 18.39 16.44 15.52 15.55 14.34 14.95 18.39 16.55 14.39 18.59 18.39 18.59 18.39 18.59 18.39 18.45 15.59 18.49 18.39 16.55 14.39 18.39 16.55 14.39 18.39 16.55 14.39 18.39 16.55 14.39 18.39 16.55 14.39 18.39 16.55 14.39 18.39 16.55 14.39 18.39 16.55 14.39 18.39 16.55 14.39 18.39 18.55 18.49 18.39 18.59 18.39 18.39 18.55 18.49 18.39 18.55 18.49 18.39 18									30.87	22.94	29.68	29.87	
1995 Average 27.51 28.67 25.79 25.63 28.96 24.72 28.36 24.43 27.33 25.90 26.86 1996 Average 14.82 13.43 14.83 12.38 12.17 15.29 12.84 14.63 11.52 14.25 13.14 13.46 1996 Average 17.87 17.04 18.49 18.28 16.89 19.32 16.81 18.78 15.76 18.30 17.32 17.64 1998 Average 19.13 16.81 18.35 (*) 16.35 19.19 17.34 18.74 16.78 18.08 17.41 17.78 1999 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 Anuary (*) 15.28 W (*) 14.50 18.94 16.64 19.12 14.07 17.22 16.49 16.67 April 19.40 18.74 1							30.36	29.20	29.45	25.19	29.21	29.10	
1996 Average 14.82 13.43 14.83 12.38 12.17 15.29 12.84 14.63 11.52 14.25 13.14 13.46 1987 Average 17.37 17.04 18.49 18.28 16.89 19.32 16.81 18.78 15.76 18.30 17.32 17.64 1987 Average W 13.50 15.15 W 12.58 15.88 13.37 15.82 13.66 14.45 13.60 14.18 1988 Average W 20.48 22.50 (°) 18.35 19.19 17.34 18.74 16.78 18.08 17.41 17.78 1990 Average W 20.48 22.50 (°) 18.45 19.19 17.34 18.74 16.78 18.08 17.41 17.78 1990 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 (°) 15.50 20.78 17.42 21.37 15.92 19.73 17.45 18.08 1992 Average W 17.04 18.76 (°) 15.50 20.78 17.49 20.63 15.13 19.25 17.63 17.81 19.93 January (°) 15.84 W (°) 14.98 19.92 17.30 19.28 14.60 18.17 17.30 17.44 April W 16.79 20.01 (°) 15.56 20.18 17.46 19.32 15.55 18.41 17.45 17.71 April W 16.79 20.01 (°) 15.56 20.18 17.46 19.32 15.55 18.41 17.45 17.71 April W 16.79 20.01 (°) 15.57 19.83 16.45 19.33 14.91 18.33 16.56 17.22 Julne (°) 16.25 W (°) 14.49 18.94 15.83 16.67 13.39 17.42 15.92 16.04 Julne (°) 16.25 W (°) 13.66 18.10 15.05 12.05 17.56 13.32 16.04 15.09 15.32 August (°) 14.94 19.28 (°) 13.66 18.10 15.05 17.29 16.45 14.98 15.32 August (°) 14.94 19.28 (°) 13.66 18.10 15.05 17.56 13.32 16.04 15.09 15.32 August (°) 14.94 19.28 (°) 13.66 18.10 15.05 17.29 16.45 14.98 15.32 August (°) 14.94 19.28 (°) 13.66 18.10 15.05 17.70 17.66 18.10 15.04 17.56 13.32 16.04 15.09 15.23 August (°) 14.94 19.28 (°) 13.66 18.10 15.05 17.79 18.15 16.67 17.70 17.42 15.92 16.45 14.98 15.32 August (°) 14.94 19.28 (°) 13.66 18.10 15.05 17.79 18.15 16.67 17.70 17.56 13.32 16.04 15.09 15.23 August (°) 14.94 19.28 (°) 13.66 18.10 15.05 17.70 17.56 13.32 16.04 15.09 15.23 August (°) 14.94 19.28 (°) 13.66 18.10 15.05 17.70 17.56 13.32 16.04 15.09 15.23 August (°) 14.94 19.28 (°) 13.66 18.10 15.05 17.70 18.15 17.70 18.15 17.70 18.50 17.70 18.50 17.70 18.50 17.70 18.50 17.70 18.50 17.70 18.50 17.70 18.50 17.70 18.50 17.70 18.50 17.70 18.50 17.70 18.50 17.70 18.50 17.70 18.50 17.70 18.50 17.70 18.50 17.70 18.50 17.70 18.50 17.70 18.50 17.70	•								28.36	24.43			
1997 Average 17.87 17.04 18.49 18.28 16.89 19.32 16.81 18.76 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 (°) 19.44 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 Average W 17.04 18.76 (°) 15.60 20.78 17.48 20.63 15.13 19.25 17.63 17.61 1993 Average W 17.04 18.76 (°) 15.60 20.78 17.48 20.63 15.13 19.25 17.63 17.61 1993 Average W 17.04 18.76 (°) 15.60 20.78 17.48 20.63 15.13 19.25 17.63 17.61 1993 Average W 17.04 18.76 (°) 15.60 20.78 17.48 20.63 15.13 19.25 17.63 17.63 17.61 1993 Average W 16.48 W (°) 14.50 18.94 16.46 19.12 14.07 17.22 16.49 16.67 February (°) 15.84 W (°) 14.89 19.92 17.30 19.28 14.60 18.17 17.30 17.44 April W 16.79 20.01 (°) 15.55 20.25 17.56 19.43 15.14 18.44 17.62 17.84 April W 16.82 20.67 (°) 15.55 20.18 17.46 19.32 15.55 18.41 17.45 17.71 May W 16.82 20.67 (°) 15.55 20.18 17.46 19.32 15.55 18.41 17.42 15.92 16.05 19.10 19	-								14.63	11.52			
1988 Average W 13.50 15.15 W 12.58 15.88 13.37 15.82 13.66 14.45 13.60 14.18 1998 Average W 19.13 16.81 13.62 16.35 19.19 17.34 18.74 16.78 18.08 17.41 17.78 1990 Average W 20.48 22.50 (°) 15.64 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 (°) 15.28 W (°) 14.50 18.94 16.46 19.12 14.07 17.22 16.49 16.67 February (°) 15.84 W (°) 14.98 19.92 17.30 19.28 14.60 18.17 17.30 17.44 March W 16.48 W (°) 15.50 20.55 17.66 19.43 15.14 18.44 17.62 17.84 April W 16.79 20.01 (°) 15.55 20.18 17.46 19.32 15.55 18.41 17.45 17.71 May W 16.82 20.67 (°) 15.57 19.83 16.45 19.33 14.91 18.33 16.56 17.22 Julp (°) 16.25 W (°) 13.44 18.31 14.95 17.51 12.92 16.45 14.98 15.32 August (°) 14.94 19.28 (°) 13.66 18.10 15.04 17.56 13.32 16.04 15.99 15.23 September W 14.56 W (°) 13.68 18.10 15.04 17.58 13.32 16.04 15.99 15.23 September W 14.28 W (°) 12.63 16.72 13.03 16.57 10.81 14.74 13.15 13.34 December W 14.28 W (°) 12.63 16.72 13.03 16.57 10.81 14.74 13.15 13.24 April W 13.43 14.82 (°) 13.44 18.11 18.75 17.51 12.92 13.39 16.44 14.70 April W 13.43 14.82 (°) 13.43 14.91 15.14 10.14 12.82 11.67 12.05 April W 13.43 14.82 (°) 13.43 15.72 18.55 (°) 14.11 18.73 15.40 17.92 13.39 16.44 15.28 15.88  1994 January W 12.05 W (°) 14.67 11.91 15.14 10.14 10.95 15.14 10.14 10.14 12.82 11.67 12.05 April W 13.43 14.82 (°) 13.43 14.92 16.67 12.17 15.40 11.12 13.51 12.01 12.45 April W 13.43 14.82 (°) 13.49 16.47 17.78 15.14 10.14 10.14 10.14 10.14 10.14 15.28 15.88  1994 January W 15.60 W (°) 15.55 16.43 (°) 15.56 11.84 14.98 11.72 13.47 11.96 12.90 February (°) 12.05 W (°) 15.57 18.59 18.66 15.56 11.84 14.98 11.72 13.47 11.96 12.90 February (°) 15.25 16.43 (°) 15.59 18.66 15.50 11.84 14.95 15.31 12.72 15.02 13.98 14.56 May W 15.60 W 15.60 W (°) 15.50 16.94 (°) 15.50 16.66 15.81 17.41 13.24 16.92 15.69 15.65 September W 15.60 W 15.60 W (°) 15.50 16.60 15.80 17.75 17.96 15.02 15.69 15.55 Novem	•						19.32	16.81	18.78	15.76			
1993   Average   19,13   16,81   18,35   (°)   16,35   19,19   17,34   18,74   16,78   18,08   17,41   17,78   1900   Average   W   20,48   22,50   (°)   19,64   23,33   21,82   22,55   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   Average   W   17,04   18,76   (°)   15,50   20,78   17,44   20,63   15,13   19,25   17,63   17,81   19,93   14,00   18,77   17,30   17,44   18,04   16,66   19,12   14,07   17,22   16,49   16,67   17,44   16,76   17,44   16,76   17,44   16,76   17,44   16,76   17,44   16,76   17,44   17,62   17,44   17,62   17,44   16,76   17,44   16,76   17,44   17,62   17,44   17,45   17,71   17,30   17,44   17,45   17,71   18,33   14,91   18,33   16,56   17,22   17,45	_					12.58	15.88	13.37	15.82	13.66	14.45		
1990 Average					(e)	16.35	19.19	17.34	18.74	16.78			
1991 Average W 17.16 20.20 17.54 15.89 21.39 17.22 21.37 15.92 19.73 17.45 18.08 1992 Average W 17.04 18.76 (e) 15.60 20.78 17.48 20.63 15.13 19.25 17.63 17.81 1993 January (e) 15.28 W (e) 14.50 18.94 16.46 19.12 14.07 17.22 16.49 16.67 February (e) 15.84 W (e) 14.98 19.92 17.30 19.28 14.60 18.17 17.30 17.44 March W 16.48 W (e) 15.50 20.25 17.56 19.43 15.14 18.44 17.62 17.84 April W 16.79 20.01 (e) 15.56 20.18 17.46 19.32 15.55 18.41 17.45 17.71 May W 16.82 20.67 (e) 15.57 19.83 16.45 19.32 15.55 18.41 17.45 17.71 January W 15.30 17.86 (e) 13.44 18.31 14.95 17.51 12.92 16.45 14.98 15.32 August (e) 14.94 19.28 (e) 13.66 18.10 15.04 17.56 13.32 16.04 15.09 15.23 September W 14.56 W (e) 14.11 17.98 14.13 16.95 13.46 15.53 14.94 14.95 15.22 November W 14.28 W (e) 14.11 17.98 14.13 16.95 13.46 15.53 14.94 13.34 14.95 December W 12.44 15.72 (e) 11.39 15.09 11.74 15.14 10.14 12.82 11.67 12.05 Average 17.34 15.27 18.55 (e) 14.11 18.73 15.40 17.92 13.39 16.44 15.28 15.28 15.86 14.94 15.28 17.34 15.27 18.55 (e) 14.11 18.73 15.40 17.92 13.39 16.44 15.28 15.68 14.94 15.89 17.94 19.94 W 15.95 16.43 14.95 17.51 12.92 16.45 14.98 15.32 19.94 17.94 19.94 1	•				(e)	19.64	23.33	21.82					
1992 Average W 17.04 18.76 (e) 15.60 20.78 17.48 20.63 15.13 19.25 17.63 17.81 19.93 January (e) 15.28 W (e) 14.50 18.94 16.46 19.12 14.07 17.22 16.49 16.67 February (e) 15.84 W (e) 14.98 19.92 17.30 19.28 14.60 18.17 17.30 17.44 April W 16.79 20.01 (e) 15.56 20.18 17.46 19.32 15.55 18.41 17.45 17.71 May W 16.82 20.67 (e) 15.56 20.18 17.46 19.32 15.55 18.41 17.45 17.71 May W 15.30 17.86 (e) 15.50 20.25 17.56 19.43 15.14 18.33 16.56 17.22 10.10 (e) 16.25 W (e) 14.49 18.94 15.83 18.67 13.49 17.42 15.92 16.06 July W 15.30 17.86 (e) 13.44 18.31 14.95 17.51 12.92 16.45 14.98 15.32 August (e) 14.94 19.28 (e) 13.66 18.10 15.04 17.56 13.32 16.04 15.09 15.23 September W 14.56 W (e) 13.83 17.65 14.31 16.95 13.46 15.53 14.34 14.85 October W 15.14 W (e) 14.11 17.98 14.13 16.67 12.70 15.68 14.34 14.75 December W 14.28 W (e) 12.63 16.72 13.03 16.57 10.81 14.74 13.15 13.34 November W 12.44 15.72 (e) 11.39 15.09 11.74 15.14 10.14 12.82 11.67 12.05 Average 17.34 15.27 18.55 (e) 14.11 18.73 15.40 11.12 13.51 12.01 12.45 March W 11.92 W (a) 11.91 15.11 12.90 14.67 11.78 13.29 16.44 15.28 15.68 14.94 11.91 15.11 12.90 14.67 11.78 13.42 11.69 15.21 12.91 12.45 May W 15.30 (a) 14.82 (a) 13.43 14.82 (a) 13.44 14.05 15.51 12.70 15.68 14.34 15.28 15.68 May W 15.50 W (e) 15.54 W (a) 11.91 15.11 12.90 14.67 11.78 13.29 16.44 15.28 15.68 May W 15.50 W 15.50 W (a) 11.65 15.56 11.84 14.98 11.72 13.47 11.96 12.90 March W 13.43 14.82 (a) 13.21 16.40 17.79 15.51 12.70 15.68 14.34 14.70 15.45 W 15.50 W 15.50 W (a) 11.91 15.11 12.90 14.67 11.78 13.22 12.49 12.24 12.84 May W 15.50 W 16.55 16.94 (a) 15.42 18.19 16.81 17.40 14.16 17.70 16.72 15.58 14.30 15.55 16.40 15.55 16.40 15.55 16.40 15.55 16.80 15.65 15.65 15.60	•		17.16	20.20		15.89	21.39	17.22					
1993 January (e) 15.28 W (e) 14.50 18.94 16.46 19.12 14.07 17.22 16.49 16.67 February (e) 15.84 W (e) 14.98 19.92 17.30 19.28 14.60 18.17 17.30 17.44 March W 16.48 W (e) 15.50 20.25 17.56 19.43 15.14 18.44 17.62 17.84 April W 16.79 20.01 (e) 15.56 20.18 17.46 19.32 15.55 18.41 17.45 17.71 May W 16.82 20.67 (e) 15.57 19.83 16.45 19.33 14.91 18.33 16.56 17.22 June (e) 16.25 W (e) 14.49 18.94 15.83 18.67 13.49 17.42 15.92 16.06 July W 15.30 17.86 (e) 13.44 18.31 14.95 17.51 12.92 16.45 14.98 15.32 August (e) 14.94 19.28 (e) 13.66 18.10 15.04 17.56 13.32 16.04 15.09 15.23 September W 14.56 W (e) 13.83 17.65 14.31 16.95 13.46 15.53 14.34 14.85 October W 15.14 W (e) 14.11 17.98 14.13 16.67 12.70 15.68 14.34 14.70 November W 12.44 15.72 (e) 11.39 15.09 11.74 15.14 10.14 12.82 11.67 12.05 Average W 12.05 W (e) 11.65 15.66 11.84 14.98 11.72 13.47 11.96 12.90 Average W 13.43 14.82 (a) 13.21 16.40 15.31 12.91 13.34 14.86 15.68 July W 13.43 14.82 (a) 13.21 16.40 15.31 12.91 13.34 14.96 11.72 13.51 12.91 12.92 16.45 15.68 July W 13.43 14.82 (a) 13.21 16.44 14.98 11.72 13.47 11.96 12.90 14.67 11.78 13.22 12.49 12.44 15.72 (b) 14.11 18.73 15.40 17.92 13.39 16.44 15.28 15.68 July W 13.43 14.82 (a) 13.21 16.44 14.98 11.72 13.47 11.96 12.90 14.67 11.78 13.22 12.49 12.44 April W 13.43 14.82 (a) 13.21 16.44 14.05 15.31 12.72 13.51 12.01 12.45 April W 13.43 14.82 (a) 13.21 16.44 14.05 15.31 12.72 13.51 12.01 12.45 April W 13.43 14.82 (a) 13.21 16.44 14.05 15.31 12.72 13.50 12.01 12.45 April W 15.54 W 16.55 16.43 (a) 14.06 17.34 15.58 16.33 13.52 16.40 15.45 15.48 July W 15.54 W 16.55 16.43 (a) 14.06 17.34 15.58 16.33 13.52 16.40 15.45 15.48 July W 15.54 W 16.55 16.43 (a) 14.06 17.34 15.58 16.83 17.06 13.85 16.28 15.55 15.69 15.65 November W 15.54 W 16.57 19.55 16.40 17.34 15.59 17.76 15.55 15.69 15.55 15.60 15.60 15.80 17.76 15.50 15.60 15.60 15.60 15.60 15.60 15.60 15.60 15.60 15.60 15.60 15.60 15.60 15.60 15.60 15.60 15.60 15.60 15.60 15.6				18.76	(°)	15.60	20.78	17.48	20.63	15.13	19.25	17.63	17.81
1993 January   (*)   15.84   W   (*)   14.98   19.92   17.30   19.28   14.60   18.17   17.30   17.44	1002 1110 age												40.00
Februáry (e) 15.84 W (e) 14.98 19.92 17.30 19.28 14.60 18.17 17.30 17.44 March W 16.48 W (e) 15.50 20.25 17.56 19.43 15.14 18.44 17.62 17.84 April W 16.79 20.01 (e) 15.56 20.18 17.46 19.32 15.55 18.41 17.62 17.84 April W 16.79 20.01 (e) 15.56 20.18 17.46 19.32 15.55 18.41 17.45 17.71 May W 16.82 20.67 (e) 15.57 19.83 16.45 19.33 14.91 18.33 16.56 17.22 June (e) 16.25 W (e) 14.49 18.94 15.83 18.67 13.49 18.33 16.56 17.22 August (e) 14.94 19.28 (e) 13.44 18.31 14.95 17.51 12.92 16.45 14.98 15.32 August (e) 14.94 19.28 (e) 13.83 17.65 14.31 16.95 13.32 16.04 15.09 15.23 September W 14.56 W (e) 13.83 17.65 14.31 16.95 13.46 15.53 14.34 14.85 October W 14.28 W (e) 14.11 17.98 14.13 16.67 12.70 15.68 14.34 14.70 November W 14.28 W (e) 12.63 16.72 13.03 16.57 10.81 14.74 13.15 13.34 December W 12.44 15.72 (e) 11.39 15.09 11.74 15.14 10.14 12.82 11.67 12.05 Average 17.34 15.27 18.55 (e) 14.11 18.73 15.40 17.92 13.39 16.44 15.28 15.68 19.94 January W 12.05 W (e) 11.65 15.56 11.84 14.98 11.72 13.47 11.96 12.90 February (e) 12.05 16.14 (a) 11.79 15.11 12.90 14.67 11.78 13.24 12.91 12.94 April W 13.43 14.82 (a) 13.21 16.44 14.05 15.31 12.72 15.02 13.98 14.36 May (e) 15.25 16.43 (a) 14.06 17.34 15.58 16.33 13.52 16.40 15.45 15.48 June W 15.54 W (a) 15.42 18.99 16.81 17.40 14.16 17.07 16.72 15.68 15.55 October W 15.50 W (a) 15.54 18.99 16.81 17.40 14.16 17.07 16.72 15.65 16.54 June W 15.50 W (a) 15.59 17.47 18.78 17.00 15.68 15.51 12.01 12.45 15.40 11.12 13.51 12.01	1993 January	( <sup>e</sup> )	15.28	W	(e)	14.50	18.94						
March         W         16.48         W         (*)         15.50         20.25         17.56         19.43         15.14         18.44         17.62         17.84           April         W         16.79         20.01         (*)         15.56         20.18         17.46         19.32         15.55         18.41         17.42         15.56         17.22           June         (*)         16.25         W         (*)         14.49         18.94         16.85         19.33         14.91         18.33         16.56         17.22           July         W         15.30         17.86         (*)         13.44         18.31         14.95         17.51         12.92         16.45         14.98         15.32         16.04         15.09         15.23           August         (*)         14.94         19.28         (*)         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         14.44         14.95           October         W         14.28         <		(e)	15.84	W		14.98							
April W 16.79 20.01 (°) 15.56 20.18 17.46 19.32 15.55 18.41 17.49 17.71 May		*	16.48	W		15.50							
May			16.79	20.01									
July	May		16.82										
August	June	(°)											
September         W         14.56         W         (e)         13.83         17.65         14.31         16.95         13.46         15.53         14.34         14.85           October         W         15.14         W         (e)         14.11         17.98         14.13         16.67         12.70         15.68         14.34         14.70           November         W         14.28         W         (e)         12.63         16.72         13.03         16.57         10.81         14.74         13.15         13.34           December         W         12.44         15.72         (e)         11.39         15.09         11.74         15.14         10.14         12.82         11.67         12.05           Average         17.34         15.27         18.55         (e)         14.11         18.73         15.40         17.92         13.39         16.44         15.28         15.68           1994 January         W         12.05         W         (e)         11.65         15.56         11.84         14.98         11.72         13.47         11.96         12.90           April         W         11.92         W         (a)         111.91         15.11	July				(8)								
September: W 14.50 W (e) 14.11 17.98 14.13 16.67 12.70 15.68 14.34 14.70 November: W 15.14 W (e) 12.63 16.72 13.03 16.57 10.81 14.74 13.15 13.34 December: W 12.44 15.72 (e) 11.39 15.09 11.74 15.14 10.14 12.82 11.67 12.05 Average: 17.34 15.27 18.55 (e) 14.11 18.73 15.40 17.92 13.39 16.44 15.28 15.68 15.68 14.94 15.28 15.68 15.68 15.64 15.25 16.14 (a) 11.70 14.67 12.12 15.40 11.12 13.51 12.01 12.45 March: W 11.92 W (a) 11.91 15.11 12.90 14.67 11.78 13.22 12.49 12.84 April: W 13.43 14.82 (a) 13.21 16.44 14.05 15.31 12.72 15.02 13.98 14.36 May. (e) 15.25 16.43 (a) 14.06 17.34 15.58 16.33 13.52 16.40 15.45 15.48 June: W 16.45 16.94 (a) 15.42 18.19 16.81 17.40 14.16 17.07 16.72 16.52 16.52 19.94 W 17.53 18.24 (a) 16.17 18.78 17.02 17.96 15.02 17.73 17.04 16.94 August: W 16.51 19.63 (a) 14.98 17.78 15.61 17.41 13.24 16.92 15.69 15.65 November: W 15.50 W (a) 14.04 17.39 15.62 16.62 13.04 16.38 15.46 15.25 October: W 15.50 W (a) 14.09 17.21 R5.54 16.98 13.32 R6.59 R5.55 R5.52 Average: W 16.03 W (a) 15.59 18.06 15.88 17.12 13.32 R6.81 16.81 16.87 R6.13 16.86 R6.15 16.81 16.87 R6.13 16.87 R6.					( )								
November	•												
December W 12.44 15.72 (e) 11.39 15.09 11.74 15.14 10.14 12.82 11.67 12.05 Average 17.34 15.27 18.55 (e) 14.11 18.73 15.40 17.92 13.39 16.44 15.28 15.68 15.68 1994 January W 12.05 W (e) 11.65 15.56 11.84 14.98 11.72 13.47 11.96 12.90 February (e) 12.05 16.14 (a) 11.70 14.67 12.12 15.40 11.12 13.51 12.01 12.45 March W 11.92 W (a) 11.91 15.11 12.90 14.67 11.78 13.22 12.49 12.84 April W 13.43 14.82 (a) 13.21 16.44 14.05 15.31 12.72 15.02 13.98 14.36 May (e) 15.25 16.43 (a) 14.06 17.34 15.58 16.33 13.52 16.40 15.45 15.48 June W 16.45 16.94 (a) 15.42 18.19 16.81 17.40 14.16 17.07 16.72 16.52 July W 17.53 18.24 (a) 16.17 18.78 17.02 17.96 15.02 17.73 17.04 16.94 August W 16.51 19.63 (a) 14.98 17.78 15.61 17.41 13.24 16.92 15.69 15.65 September W 15.50 W (a) 14.04 17.39 15.62 16.62 13.04 16.38 15.46 15.25 October W 15.54 W (a) 14.82 17.85 15.43 17.06 13.85 16.28 15.35 15.51 November W 16.07 W (a) 15.59 18.06 15.88 17.12 13.32 16.91 15.86 15.66 December W 15.40 W (a) 15.59 18.06 15.88 17.12 13.32 16.91 15.86 15.65 Average W 14.83 16.87 (e) 14.09 17.21 17.55 13.92 16.81 16.57 17.55 13.92 R16.81 16.57 R15.30 Average W 16.03 W (e) 15.53 17.52 16.57 17.55 13.92 R16.81 16.57 R16.13 16.66 16.66 17.07 17.55 13.92 R16.81 16.57 R16.13					( )								
Average 17.34 15.27 18.55 (e) 14.11 18.73 15.40 17.92 13.39 16.44 15.28 15.68 1994 January					(0)								
1994 January					(*)								
February (e) 12.05 16.14 (a) 11.70 14.67 12.12 15.40 11.12 13.51 12.01 12.45 March W 11.92 W (a) 11.91 15.11 12.90 14.67 11.78 13.22 12.49 12.84 April W 13.43 14.82 (a) 13.21 16.44 14.05 15.31 12.72 15.02 13.98 14.36 May (e) 15.25 16.43 (a) 14.06 17.34 15.58 16.33 13.52 16.40 15.45 15.48 June W 16.45 16.94 (a) 15.42 18.19 16.81 17.40 14.16 17.07 16.72 16.52 July W 17.53 18.24 (a) 16.17 18.78 17.02 17.96 15.02 17.73 17.04 16.94 August W 16.51 19.63 (a) 14.98 17.78 15.61 17.41 13.24 16.92 15.69 15.65 September W 15.50 W (a) 14.98 17.78 15.61 17.41 13.24 16.92 15.69 15.65 October W 15.54 W (a) 14.82 17.85 15.43 17.06 13.85 16.28 15.35 15.51 November W 16.07 W (a) 15.59 18.06 15.88 17.12 13.32 16.59 R15.55 R15.32 Average W 14.83 16.87 (e) 15.53 R17.52 16.57 17.55 13.92 R16.81 16.57 R16.13	Average	17.34	15.27	18.55	(-)	14.11	10.73	15.40	17.52	10.05	10.44	10.20	
February (e) 12.05 16.14 (a) 11.70 14.67 12.12 15.40 11.12 13.51 12.01 12.45 March W 11.92 W (a) 11.91 15.11 12.90 14.67 11.78 13.22 12.49 12.84 April W 13.43 14.82 (a) 13.21 16.44 14.05 15.31 12.72 15.02 13.98 14.36 May (e) 15.25 16.43 (a) 14.06 17.34 15.58 16.33 13.52 16.40 15.45 15.48 June W 16.45 16.94 (a) 15.42 18.19 16.81 17.40 14.16 17.07 16.72 16.52 July W 17.53 18.24 (a) 16.17 18.78 17.02 17.96 15.02 17.73 17.04 16.94 August W 16.51 19.63 (a) 14.98 17.78 15.61 17.41 13.24 16.92 15.69 15.65 September W 15.50 W (a) 14.04 17.39 15.62 16.62 13.04 16.38 15.46 15.25 October W 15.54 W (a) 14.82 17.85 15.43 17.06 13.85 16.28 15.35 15.51 November W 16.07 W (a) 15.59 18.06 15.88 17.12 13.32 16.59 R 15.55 R 15.32 Average W 14.83 16.87 (e) 15.53 R 17.52 16.57 17.55 13.92 R 16.81 16.57 R 15.04	4004 lanuari	14/	12.05	w	( <del>0</del> )	11 65	15.56	11.84	14.98	11.72	13.47	11.96	12.90
March					λaί						13.51	12.01	12.45
April		` '							14.67	11.78	13.22	12.49	12.84
May		• • •						14.05	15.31	12.72	15.02	13.98	14.36
June					ζaj			15.58	16.33	13.52	16.40	15.45	15.48
July       W       17.53       18.24       (a)       16.17       18.78       17.02       17.96       15.02       17.73       17.04       16.94         August       W       16.51       19.63       (a)       14.98       17.78       15.61       17.41       13.24       16.92       15.69       15.65         September       W       15.50       W       (a)       14.04       17.39       15.62       16.62       13.04       16.38       15.46       15.25         October       W       15.54       W       (a)       14.82       17.85       15.43       17.06       13.85       16.28       15.35       15.51         November       W       16.07       W       (a)       15.59       18.06       15.88       17.12       13.32       16.91       15.86       15.66         December       W       15.40       W       (a)       15.59       17.47       15.54       16.98       13.32       16.59       815.35       15.32         Average       W       14.83       16.87       (b)       17.21       815.04       16.65       13.12       815.91       815.95       815.32         1995 January       W </th <th></th> <th>*</th> <th></th> <th></th> <th>(a)</th> <th></th> <th></th> <th>16.81</th> <th>17.40</th> <th>14.16</th> <th>17.07</th> <th>16.72</th> <th></th>		*			(a)			16.81	17.40	14.16	17.07	16.72	
August W 16.51 19.63 (a) 14.98 17.78 15.61 17.41 13.24 16.92 15.69 15.65 September W 15.50 W (a) 14.04 17.39 15.62 16.62 13.04 16.38 15.46 15.25 October W 15.54 W (a) 14.82 17.85 15.43 17.06 13.85 16.28 15.35 15.51 November W 16.07 W (a) 15.59 18.06 15.88 17.12 13.32 16.91 15.86 15.66 December W 15.40 W (a) 15.59 17.47 15.54 16.98 13.32 16.59 16.55 15.55 15.32 Average W 14.83 16.87 (e) 14.09 17.21 17.50 16.65 13.12 17.55 13.92 16.57 17.55 13.92 16.91 16.57 17.55 13.92 16.91 16.57 17.55 13.92 16.91 16.57 17.55 16.98 16.98 16.91 16.57 17.55 16.91								17.02	17.96	15.02			
September       W       15.50       W       (a)       14.04       17.39       15.62       16.62       13.04       16.38       15.46       15.25         October       W       15.54       W       (a)       14.82       17.85       15.43       17.06       13.85       16.28       15.35       15.51         November       W       16.07       W       (a)       15.59       18.06       15.88       17.12       13.32       16.91       15.86       15.66         December       W       15.40       W       (a)       15.59       17.47       P15.54       16.98       13.32       P16.59       P15.55       P15.32         Average       W       14.83       16.87       (b)       14.09       17.21       P15.04       16.65       13.12       P15.91       P15.91       P15.04       P15.04 <t< th=""><th>•</th><th></th><th></th><th>19.63</th><th>. ,</th><th>14.98</th><th>17.78</th><th>15.61</th><th></th><th></th><th></th><th></th><th></th></t<>	•			19.63	. ,	14.98	17.78	15.61					
October W 15.54 W (a) 14.82 17.85 15.43 17.06 13.85 16.28 15.35 15.51 November W 16.07 W (a) 15.59 18.06 15.88 17.12 13.32 16.91 15.86 15.66 December W 15.40 W (a) 15.59 17.47 R 15.54 16.98 13.32 R 16.59 R 15.55 R 15.32 Average W 14.83 16.87 (e) 14.09 17.21 R 15.04 16.65 13.12 R 15.91 R 14.94 R 15.04						14.04	17.39					-	
November W 16.07 W (a) 15.59 18.06 15.88 17.12 13.32 16.91 15.86 15.66 December W 15.40 W (a) 15.59 17.47 15.54 16.98 13.32 16.59 15.55 15.32 Average W 14.83 16.87 (e) 14.09 17.21 15.04 16.65 13.12 15.91 14.94 15.04				W	\ /	14.82	17.85						
December W 15.40 W (a) 15.59 17.47 R 15.54 16.98 13.32 R 16.59 R 15.55 R 15.32 Average W 14.83 16.87 (b) 14.09 17.21 R 15.04 16.65 13.12 R 15.91 R 14.94 R 15.04 1995 January W 16.03 W (b) 15.53 R 17.52 16.57 17.55 13.92 R 16.81 16.57 R 16.13				W		15.59	18.06	15.88					
Average W 14.83 16.87 (°) 14.09 17.21 H15.04 16.65 13.12 H15.91 H15.94 H15.04 16.65 13.12 H15.91 H15.94 H15.04 H15.04 H15.93 H15				W	(a)	15.59							
1995 January W 16.03 W (*) 15.53 R 17.52 16.57 17.55 13.92 R 16.81 16.57 R 16.13			14.83	16.87	( <sup>e</sup> )	14.09	17.21	<sup>H</sup> 15.04	16.65	13.12	⁻ 15.91	<sup>-</sup> 14.94	<sup>-</sup> 15.04
1999 January 17 18 16 84 16 46	•						0		<u> </u>	40.00	B 4 C C 4	16.57	R46 40
February W 16.74 W (°) 16.25 18.21 16.87 17.66 14.44 17.53 16.84 16.46	1995 January				( )								
	February	. <b>W</b>	16.74	W	( ,	16.25	18.21	16.87	17.66	14.44	17.53	10.84	10.40

<sup>&</sup>lt;sup>a</sup> Beginning with February 1994, data for Iran are no longer reported in the *Petroleum Marketing Monthly*.

<sup>b</sup> The Arab members of OPEC are Algeria, Iraq, Kuwait, Libya, Qatar, Saudi Arabia, and the United Arab Emirates.

Notes: • See Note 3 at end of section. • Values for the current 2 months are preliminary. • Prices through 1980 reflect the period of reporting; prices

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

Sources: • October 1973-September 1977: Federal Energy Administration, Form FEA-F701-M-0, "Transfer Pricing Report." • October 1977-December 1977: Energy Information Administration (EIA), Form FEA-F701-M-0, "Transfer Pricing Report." • 1978 forward: EIA, Petroleum Marketing Monthly, May 1995, Table 25.

<sup>&</sup>lt;sup>c</sup> 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.

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

	Leaded Regular	Unleaded Regular	Unleaded Premium	All Types <sup>a</sup>
070 4				
973 Average	38.8	NA	NA	NA
974 Average	53.2	NA	NA	NA
975 Average	56.7	NA	NA	· NA
976 Average	59.0	61.4	NA	NA
977 Average	62.2	65.6	NA	NA NA
978 Average	62.6	67.0	NA.	65.2
979 Average	85.7	90.3	NA	88.2
980 Average	119.1	124.5	NA NA	122.1
981 Average <sup>b</sup>	131.1	137.8	c 147.0	
982 Average	122.2	129.6		135.3
983 Average	115.7		141.5	128.1
•		124.1	138.3	122.5
984 Average	112.9	121.2	136.6	119.8
985 Average	111.5	120.2	134.0	119.6
986 Average	85.7	92.7	108.5	93.1
987 Average	89.7	94.8	109.3	95.7
988 Average	89.9	94.6	110.7	96.3
989 Average	99.8	102.1	119.7	106.0
990 Average	114.9	116.4	134.9	121.7
991 Average	NA	114.0	132.1	119.6
992 Average	NA	112.7	131.6	119.0
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	
May	NA	112.9		117.5
June	NA NA	113.0	131.9	119.3
July	NA NA		132.1	119.4
August		110.9	130.5	117.4
	NA	109.7	129.4	116.3
September	NA NA	108.5	128.2	115.1
October	NA	112.7	132.3	119.3
November	NA	111.3	130.5	117.8
December	NA	107.0	126.8	113.6
Average	NA	110.8	130.2	117.3
94 January	NA	104.3	124.0	110.9
February	NA	105.1	124.5	111.4
March	NA	104.5	124.3	110.9
April	NA	106.4	126.0	112.8
May	NA	108.0	127.4	114.3
June	NA	110.6	130.0	116.7
July	NA	113.6	132.7	
August	NA	118.2	136.7	119.9
September	NA NA	117.7		124.3
October	NA NA		136.4	123.7
November		115.2	134.5	121.2
	NA NA	116.3	135.4	122.2
December	NA	114.3	133.7	120.3
Average	NA	111.2	130.5	117.4
95 January	NA	112.9	132.4	119.0
February	NA	112.0	131.6	118.1
March	NA	111.5	130.6	117.3

<sup>&</sup>lt;sup>a</sup> Also includes types of motor gasoline not shown separately.

NA=Not available.

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

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

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

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.

Table 9.5 Refiner Prices of Residual Fuel Oil

	Sulfur Co	l Fuel Oil ntent Less al to 1 Percent	Residual Sulfur ( Greater Tha	Content	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
980 Average	60.8	67.5	47.9	52.3	52.8	60.7
981 Average	74.8	82.9	62.2	67.3	66.3	75.6
982 Average	69.5	74.7	57.2	61.1	61.2	67.6
983 Average	64.3	69.5	59.1	61.1	60.9	65.1
984 Average	68.5	72.0	63.9	65.9	65.4	68.7
985 Average	61.0	64.4	56.0	58.2	57.7	61.0
986 Average	32.8	37.2	28.9	31.7	30.5	34.3
987 Average	41.2	44.7	36.2	39.6	38.5	42.3
988 Average	33.3	37.2	27.1	30.0	30.0	33.4
989 Average	40.7	43.6	33.1	34.4	36.0	38.5
990 Average	47.2	50.5	37.2	40.0	41.3	44.4
991 Average	36.4	40.2	29.2	30.6	31.4	34.0
992 Average	35.1	38.9	28.6	31.2	30.8	33.6
993 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	33.8	39.7	23.2	27.7	28.7	32.5
February	39.3	44.8	25.8	31.3	34.2	36.9
March	30.0	39.9	24.3	29.5	27.5	32.9
April	29.4	35.2	25.8	29.5	27.6	31.1
May	31.7	35.9	27.4	31.1	29.6	32.6
June	35.8	38.6	30.9	34.2	33.4	35.6
July	37.8	41.2	34.4	37.2	36.2	38.4
August	37.1	43.0	32.7	38.2	35.2	39.6
September	32.6	41.1	27.8	32.2	30.1	34.4
October	32.6	38.7	30.6	33.0	31.6	34.4
November	35.7	39.8	33.0	35.4	34.4	36.6
December	36.9	42.2	32.0	36.9	34.1	38.3
Average	34.5	40.1	28.9	33.0	31.8	35.2
995 January	38.4	R 46.0	R 33.3	R 37.7	35.9	R 40.0
February	36.4	43.7	33.8	37.4	35.1	39.1

R=Revised data.

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, May 1995, Table 19.

Table 9.6 Refiner Prices of Petroleum Products for Resale

	Finished Motor Gasoline <sup>a</sup>	Finished Aviation Gasoline	Kerosene- Type Jet Fuel	Kerosene	No. 2 Fuel Oil	No. 2 Diesel Fuel	Propane (Consumer Grade)
1978 Average	43.4	53.7	38.6	40.4	36.9	36.5	23.7
1979 Average	63.7	72.1	66.0	62.4	56.9	57.4	29.1
1980 Average	94.1	112.8	86.8	86.4	80.3	80.1	41.5
1981 Average	106.4	125.0	101.2	106.6	97.6	97.2	46.6
1982 Average	97.3	122.8	95.3	101.8	91.4	91.4	42.7
1983 Average	88.2	117.8	85.4	89.2	81.5	80.8	48.4
1984 Average	83.2	116.5	83.0	91.6	<i>3</i> 2.1	80.3	45.0
1985 Average	83.5	113.0	79.4	87.4	77.6	77.2	39.8
1986 Average	53.1	91.2	49.5	60.6	48.6	45.2	29.0
1987 Average	58.9	85.9	53.8	59.2	52.7	53.4	25.2
1988 Average	57.7	85.0	49.5	54.9	47.3	47.3	24.0
1989 Average	65.4	95.0	58.3	66.9	56.5	56.7	24.7
1990 Average	78.6	106.3	77.3	83.9	69.7	69.4	38.6
1991 Average	69.9	100.1	65.0	72.2	62.2	61.5	34.9
1992 Average	67.7	99.1	60.5	63.2	57.9	59.1	32.8
1993 January	63.8	96.9	57.7	61.4	54.4	54.9	40.2
February	63.8	96.5	60.4	63.7	56.9	57.4	36.7
March	65.2	97.4	60.3	65.4	59.0	60.0	38.2
April	67.7	97.7	59.8	60.8	57.5	59.8	36.2
May	69.1	99.4	60.1	58.3	56.9	59.6	34.0
June	66.2	99.1	58.5	56.9	55.0	57.2	33.8
July	62.7	97.9	55.1	53.6	51.0	53.2	33.3
August	62.9	96.9	55.1	55.6	51.0	53.2	33.3
September	61.5	96.3	56.6	58.7	54.8	58.9	34.1
October	61.7	95.0	60.5	65.5	58.1	65.8	34.7
November	57.0	92.7	58.7	62.4	53.1	58.9	33.6
December	50.3	87.4	51.0	53.6	45.1	46.8	30.9
Average	62.6	96.5	57.7	60.4	54.4	57.0	35.1
1994 January	52.1	87.1	52.6	65.7	50.8	49.1	32.3
February	54.6	87.8	56.0	73.5	54.1	52.8	34.0
March	54.9	87.4	52.4	59.8	49.7	52.9	31.8
April	57.8	89.5	50.8	55.0	48.9	52.3	30.5
Mav	59.2	91.2	50.6	53.2	48.9	51.7	30.4
June	62.6	93.2	51.5	53.8	49.8	52.2	29.9
July	65.4	96.1	53.8	55.1	50.9	53.7	29.8
August	67.8	98.5	54.4	55.1	51.4	54.1	31.0
September	61.0	97.3	54.0	55.3	50.1	54.2	31.7
October	61.5	95.4	54.4	59.1	50.8	55.2	33.5
November	62.2	94.9	56.3	60.7	51.0	55.1	35.0
December	57.9	95.0	53.1	57.4	49.5	50.8	35.8
Average	59.9	93.3	53.4	61.8	50.6	52.9	32.5
1995 January	<sup>R</sup> 60.1	<sup>R</sup> 92.9	<sup>R</sup> 52.3	56.7	49.4	50.1	<sup>R</sup> 35.6
February	60.3	93.2	52.2	55.3	49.1	50.6	34.5

<sup>&</sup>lt;sup>a</sup> See Note 5 at end of section.

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

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

Source: EIA, Petroleum Marketing Monthly, May 1995, Table 4.

R=Revised data

**Table 9.7 Refiner Prices of Petroleum Products to End Users** 

	Finished Motor Gasoline <sup>a</sup>	Finished Aviation Gasoline	Kerosene- Type Jet Fuel	Kerosene	No. 2 Fuel Oil	No. 2 Diesel Fuel	Propane (Consume Grade)
1978 Average	48.4	51.6	38.7	42.1	40.0	37.7	33.5
979 Average	71.3	68.9	54.7	58.5	51.6	58.5	35.7
980 Average	103.5	108.4	86.8	90.2	78.8	81.8	48.2
981 Average	114.7	130.3	102.4	112.3	91.4	99.5	56.5
982 Average	106.0	131.2	96.3	108.9	90.5	94.2	59.2
983 Average	95.4	125.5	87.8	96.1	91.6	82.6	70.9
984 Average	90.7	123.4	84.2	103.6	91.6	82.3	73.7
985 Average	91.2	120.1	79.6	103.0	84.9	78.9	71.7
986 Average	62.4	101.1	52.9	79.0	56.0	47.8	74.5
987 Average	66.9	90.7	54.3	77.0	58.1	55.1	74.3 70.1
988 Average	67.3	89.1	51.3	73.8	54.4	50.0	71.4
989 Average	75.6	99.5	59.2	73.8 70.9	54.4 58.7	58.5	71.4 61.5
990 Average	88.3	112.0	76.6	70.9 92.3	73.4	58.5 72.5	74.5
991 Average	79.7	104.7	65.2	83.8	66.5		
992 Average	78.7 78.7	102.7	61.0			64.8	73.0
552 Average	10.1	102.7	61.0	78.8	62.7	61.9	64.3
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	66.7	88.6	51.6	79.5	59.6	52.6	54.9
February	67.6	88.4	55.7	84.1	63.9	55.4	57.1
March	67.3	89.0	51.8	78.2	60.8	54.9	58.5
April	69.5	91.3	50.7	69.7	58.0	54.5 54.7	54.9
May	71.1	92.3	50.7 50.9	55.2	53.5	54.7 54.3	54.9 46.3
June	74.1	95.6	50.9 51.9	54.5	53.5 54.0	54.3 54.9	45.5 45.5
July	77.0	95.9	53.5	60.4	54.9	55.8	45.5 46.4
August	81.5	101.7	54.4	57.8	55.0	56.7	48.3
September	79.6	101.7	53.9	58.3	54.4	56.6	46.3 48.8
October	76.9	100.0	55.9 55.0	61.5	54.4 55.7	56.6 57.1	
November	70.5 77.5	100.0	57.2	64.0	56.7 56.7	57.1 57.2	49.4
December	77.3 74.9	99.2	57.2 53.9	64.7	56.4	57.2 54.5	51.0
Average	73.7	95.6	53.4	66.0	50.4 57.2	54.5 <b>55.4</b>	51.9 <b>51.7</b>
OF Innuana	<sup>R</sup> 74.5	00.6	50.0	B 07.4	50.4	Bro 4	B = 4 =
95 January		99.6	52.3	<sup>R</sup> 67.4	56.1	R 53.4	<sup>R</sup> 54.5
February	73.3	99.8	52.1	62.8	55.9	53.3	56.0

<sup>&</sup>lt;sup>a</sup> 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, May 1995, Table 2.

R=Revised data. NA=Not available.

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

	Maine	New Hampshire	Vermont	Massachusetts	Rhode Island	Connecticut	New York	New Jersey	Pennsylvania
070 A	48.6	E0 3	50.8	48.8	50.7	50.1	50.1	49.6	48.8
978 Average	68.8	50.3 72.5	72.5	70.9	72.8	72.0	71.2	71.0	69.8
979 Average	96.3		72.5 101.5		101.1	98.3	98.2	97.9	96.4
980 Average		100.4		97.8					
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
988 Average	77.7	78.2	82.6	82.1	83.6	85.3	86.3	84.8	77.8
989 Average	89.4	89.3	90.5	92.6	93.9	92.9	95.8	91.8	85.1
990 Average	98.9	102.8	107.0	108.4	108.6	109.8	112.5	108.7	102.6
991 Average	96.0	91.6	101.9	103.0	99.9	106.2	111.3	104.0	99.7
992 Average	87.1	85.6	92.1	92.5	91.2	94.7	102.8	93.9	89.0
993 January	85.2	87.1	93.4	94.0	91.7	94.9	104.4	96.2	88.6
February	85.4	86.9	93.3	94.4	91.8	96.2	104.2	96.4	89.1
March	86.4	86.6	93.7	94.8	92.4	96.7	104.3	96.2	89.8
April	83.0	84.5	91.2	91.5	90.4	93.6	100.4	95.0	89.0
May	81.7	83.9	91.3	91.1	90.7	91.6	99.5	91.6	86.7
June	81.1	82.4	89.7	88.6	87.6	88.6	97.8	87.1	83.9
July	78.5	78.3	85.5	83.9	85.2	86.5	95.1	87.4	78.8
August	77.4	76.0	85.6	83.4	82.7	84.0	92.7	85.3	77.1
September	78.3	74.9	86.6	83.8	84.8	84.2	93.6	85.9	80.4
October	82.9	77.0	87.6	86.1	86.0	88.6	96.3	89.7	83.2
November	80.8	76.9	86.6	85.7	87.8	88.8	95.9	89.4	84.7
December	79.6	77.5	86.9	83.9	85.9	88.2	93.9	87.3	84.2
Average	82.6	82.8	90.4	89.7	89.3	91.9	100.1	92.4	86.3
994 January	83.7	80.4	88.3	88.5	87.5	90.2	97.3	91.7	87.7
February	90.4	86.6	91.6	91.0	91.7	93.8	100.9	96.0	92.6
March	85.9	83.2	90.8	88.5	90.0	92.1	99.6	94.6	90.4
April	80.8	78.0	88.2	86.3	85.6	89.4	95.5	90.4	86.2
May	77.4	74.9	86.5	84.9	84.4	85.4	96.3	85.2	83.7
June	76.3	72.7	84.5	84.0	83.1	86.3	96.6	83.5	80.3
July	76.3	71.6	82.9	82.5	82.0	84.2	93.9	82.8	75.8
August	78.1	73.1	83.7	78.8	84.5	81.1	89.1	NA NA	78.0
September	78.5	73.5	83.3	80.9	85.2	80.5	90.8	NA NA	79.1
October	77.6	74.0	83.9	83.0	84.9	83.7	92.3	NA.	80.1
November	77.8	73.7	84.3	83.5	86.2	83.9	93.4	NA	81.3
December	77.6	77.3	85.2	84.3	87.5	86.1	94.6	NA.	82.0
Average	82.0	78.9	87.3	86.9	87.7	88.7	96.6	90.0	85.7
995 January	<sup>R</sup> 77.8	78.4	<sup>R</sup> 85.8	84.8	<sup>R</sup> 87.3	86.7	95.6	NA	<sup>R</sup> 83.1
February	77.5	78.7	86.0	84.8	87.3	87.7	96.8	NA.	83.4

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

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

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

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.

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

	ldaho	Washington	Oregon	Alaska	U.S. Average	
978 Average	43.6	48.6	45.8	53.2	49.0	
979 Average	62.1	69.7	68.0	68.2	70.4	
980 Average	91.6	100.8	97.3	97.8	97.4	
981 Average	110.4	116.5	111.4	118.0	119.4.	
982 Average	110.4	117.6	111.6	117.4	116.0	
983 Average	101.8	109.0	103.6	108.8	107.8	
984 Average	98.5	102.6	99.3	106.9	109.1	
985 Average	97.2	101.1	97.1	108.3	105.3	
986 Average	73.8	77.5	70.4	94.9	83.6	
987 Average	68.8	79.5	72.5	86.5	80.3	
988 Average	68.8	78.5	70.9	86.9	81.3	
989 Average	77.8	87.4	80.2	96.4	90.0	
990 Average	97.4	102.9	97.0	110.1	106.3	
991 Average	95.1	101.6	93.3	105.0	101.9	
992 Average	85.7	94.0	87.6	94.1	93.4	
993 January	85.0	100.5	91.7	95.1	94.3	
February	84.1	101.6	89.9	95.1	94.6	
March	87.8	99.0	90.7	96.9	95.4	
April	84.6	100.5	92.1	96.1	92.6	
May	83.2	99.1	91.3	96.8	91.1	
June	82.8	95.1	90.3	98.1	88.9	
July	80.0	91.3	86.1	98.0	85.6	
August	77.0	89.3	83.5	99.7	84.1	
September	85.3	97.1	92.0	95.2	85.5	
October	94.7	105.4	100.2	98.6	88.7 -	
November	97.4	103.7	97.4	95.0	88.5	
December	81.1	96.6	87.8	91.7	86.6	
Average	86.2	99.9	91.8	96.1	91.1	
004 January	73.3	92.8	86.0	88.8	89.6	
994 January				88.5	92.8	
February	73.8	96.2 96.9	87.9 88.4	89.3	92.6 91.4	
March	77.2 76.1	96.9 97.3	88.1	89.3 88.6	91.4 87.9	
April	76.1 76.8	97.3 95.1	87.1	90.0	85.9	
May	76.8 73.4	95.1 91.8	85.1	90.0 87.6 .	84.8	
June	73.4 74.5	81.6 82.9	82.3	88.1	82.6	
July	74.5 80.8	78.8	62.3 NA	81.0	82.2 <b>-</b>	
August				83.4	83.2	
September	83.1	89.9	87.7	85.1	84.5 <b>–</b>	
October	85.3	95.6	90.8	86.6	84.5 85.6	
November	84.9	98.9	91.3		85.6 86.8	
December Average	84.5 <b>78.6</b>	97.3 <b>95.1</b>	89.2 <b>88.3</b>	84.0 <b>87.0</b>	88.3	
•	Beo a	Ros 4	<sup>R</sup> 88.5	<sup>R</sup> 83.5	07.4	
995 January	R 80.3	<sup>R</sup> 95.4			87.4	
February	NA	94.8	87.5	83.8	88.0	

R=Revised data. NA=Not available.

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

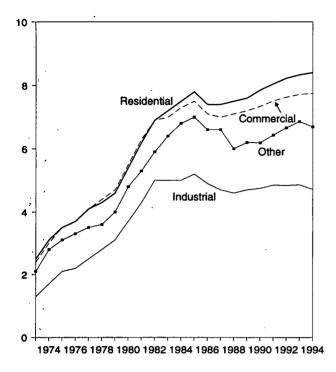
Source: EIA, Petroleum Marketing Monthly, May 1995, Table 18.

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

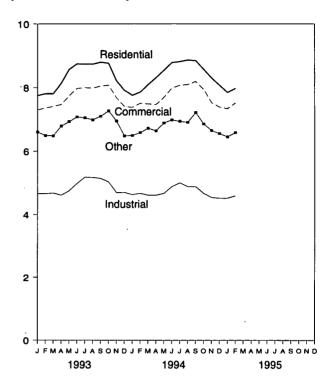
Figure 9.2 Retail Prices of Electricity Sold by Electric Utilities

(Cents per Kilowatthour)

By Sector, 1973-1994



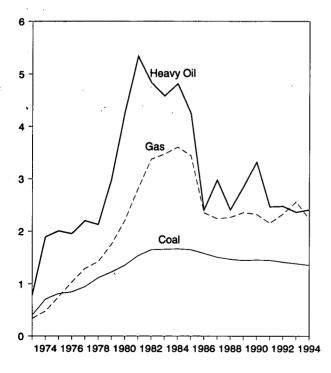
By Sector, Monthly



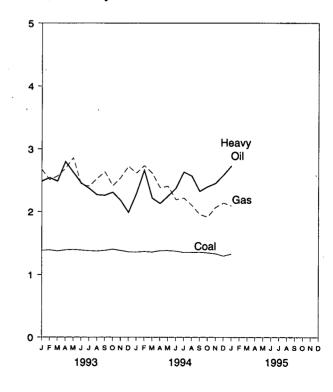
Source: Table 9.9, Monthly Series:

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	strial	Oth	er <sup>a</sup>	Total <sup>b</sup>	
	Monthly Series <sup>c</sup>	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 NA	2.8	NA	2.5	NA
	3.5	NA NA	3.5	NA	2.1	NA NA	3.1	NA	2.9	NA
1975 Average	3.5 3.7	NA NA	3.5 3.7	NA NA	2.2	NA NA	3.3	NA NA	3.1	NA NA
1976 Average		NA NA	4.1		2.5	NA NA	3.5	NA	3.4	NA NA
1977 Average	4.1			NA						
1978 Average	4.3	NA	4.4	NA	2.8	NA	3.6	NA	3.7	NA
1979 Average	4.6	NA	4.7	NA	3.1	NA	4.0	NA	4.0	NA
1980 Average	5.4	NA	5.5	NA	3.7	NA	4.8	NA	4.7	NA
1981 Average	6.2	NA	6.3	NA	4.3	NA	5.3	NA	5.5	NA
1982 Average	6.9	NA	6.9	NA	5.0	NA	5.9	NA	6.1	NA
1983 Average	7.2	NA	7.0	NA	5.0	NA	6.4	NA	6.3	NA
1984 Average	7.5	7.15	7.3	7.13	5.0	4.83	6.8	5.90	6.5	6.25
1985 Average	7.8	7.39	7.5	7.27	5.2	4.97	7.0	6.09	6.7	6.44
1986 Average	7.4	7.42	7.1	7.20	4.9	4.93	6.6	6.11	6.4	6.44
	7.4	7.45	7.0	7.08	4.7	4.77	6.6	6.21	6.3	6.37
1987 Average							6.0	6.20	6.3	6.35
1988 Average	7.5	7.48	7.1	7.04	4.6	4.70				
1989 Average	7.6	7.65	7.2	7.20	4.7	4.72	6.2	6.25	6.4	6.45
1990 Average	7.85	7.83	7.34	7.34	4.75	4.74	6.19	6.40	6.57	6.57
1991 Average	8.05	8.04	7.51	7.53	4.85	4.83	6.43	6.51	6.75	6.75
1992 Average	8.23	8.21	7.63	7.66	4.84	4.83	6.66	6.74	6.83	6.82
1993 January	7.75	_	7.30	_	4.66	-	6.60	-	6.61	_
February	7.81	_	7.36	-	4.66	_	6.49	_	6.59	_
March	7.81	_	7.41	_	4.68	_	6.48	_	6.58	_
April	8.14	_	7.47	_	4.61	_	6.79	_	6.61	· <u> </u>
May		_	7.74	_	4.75	_	6.93	_	6.81	
June	8.75	_	7.98	_	4.98	_	7.08	_	7.13	_
	8.74	_	8.00	_	5.18	_	7.05	_	7.36	_
July				_		_		_	7.35 7.35	_
August	8.74	_	7.99		5.17		6.99			
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		-	7.51	_	4.67	_	6.58	-	6.69	_
March	8.10	_	7.49	_	4.61	_	6.72	· <b>-</b>	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		_	7.99	_	4.88	_	6.99	_	7.17	-
		_	8.08	_	5.00	_	6.94	_	7.37	_
July		_		_	4.88	_	6.91	_	7.29	_
August			8.10							
September	8.85	_	8.20	_	4.88	_	7.22	-	7.25	_
October	8.58	-	7.95	-	4.67	-	6.86	-	6.91	-
November		-	7.53	-	4.54	_	6.65	_	6.65	_
December	8.08	_	7.39	-	4.52	_	6.55	-	6.64	-
Average	8.41	NA	7.75	NA	4.72	NA	6.69	NA	6.92	NA
1995 January	7.85	_	7.34	_	4.52	_	6.45	_	6.60	_
February		_	7.52	-	4.59	_	6.58	-	6.68	_
2-Month Average		- '-	7.43	-	4.55	-	6.51	-	6.64	-
1994 2-Month Average	7.81	_	7.44	_	4.65	_	6.53	_	6.68	_,
1993 2-Month Average	7.78	_	7.33	_	4.66	_	6.55	_	6.60	_

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

b Average price for total sales to ultimate consumers.

NA=Not available. -=Not applicable.

Notes: • Prices are calculated by dividing revenue by sales. Revenue may not correspond to sales for a particular month because of electric utility billing and accounting procedures. That lack of correspondence could result in uncharacteristic increases or decreases in the monthly prices. See Note 7 at end of section. . Geographic coverage is the 50 States and the District of Columbia.

<sup>&</sup>lt;sup>c</sup> 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

		- "							
	C	oal		Petro	oleum		Ga	8 <sup>8</sup>	All Fossil Fuels <sup>b</sup>
			Heav	y Oil <sup>b</sup>	Tot	al <sup>b,c</sup>			
	Quantity (thousand short tons)	Cost (cents per million Btu)	Quantity (thousand barrels)	Cost (cents per million Btu)	Quantity (thousand barrels)	Cost (cents per million Btu)	Quantity (million cubic feet)	Cost (cents per million Btu)	Cost (cents per million Btu)
1973 Year	374,842	40.5	512,650	78.5	535,859	80.0	3,382,677	33.8	47.6
1974 Year	384,868	70.9	479,166	189.0	515,217	191.0	3,225,203	48.2	91.4
1975 Year	431,527	81.4	457,582	200.5	510,352	202.3	3,034,808	75.2	104.4
1976 Year	454,858	84.8	495,363	195.2	549,973	199.0	2,962,811	103.4	111.9
1977 Year	490,415	94.7	563,685	219.8	635,556	224.9	3,106,403	129.1	129.7
1978 Year	476,169	111.6	546,197	212.5	616,040	219.1	3,140,654	142.2	141.1
1979 Year	556,558	122.4	479,705	298.8	515,695	307.2	3,368,976	174.9	163.9
1980 Year	593,995	135.1	394,159	426.7	419,140	435.1	3,588,814	219.9	192.8
1981 Year	579,374 604,407	153.2	327,477	533.4	345,544	542.5	3,573,558	280.5	225.6
1982 Year	601,427 592,728	164.7 165.6	228,200 211,705	483.2 457.8	239,111	492.2 462.8	3,161,348	337.6	224.9
1983 Year 1984 Year	684,111	166.4	193,832	457.6 481.2	219,652 202,372	482.8 486.3	2,732,248 2,878,808	347.4 360.3	220.6 219.1
1985 Year	666.743	164.8	156,410	424.4	164,947	431.7	2,808,921	344.4	209.4
1986 Year	686,964	157.9	220,585	240.1	228,522	243.7	2,387,622	235.1	175.0
1987 Year	721,298	150.6	187,300	297.6	194,578	301.1	2,605,191	224.0	170.6
1988 Year	727,775	146.6	230,234	240.5	236,924	243.9	2,362,721	226.3	164.3
1989 Year	753,217	144.5	237,668	284.6	246,422	289.3	2,472,506	235.5	167.5
1990 Year	786,627	145.5	202,281	331.9	209,350	338.4	2,490,979	232.1	168.9
1991 Year	769,923	144.7	163,106	246.5	169,625	254.8	2,630,818	215.3	160.3
Year	775,963	141.2	138,537	247.5	144,390	255.1	2,637,678	232.8	159.0
1993 <u>January</u>	65,219	138.5	8,437	248.7	9,027	259.1	159,320	267.3	156.2
February	59,225	139.3	7,002	254.1	7,421	263.8	153,537	250.7	155.6
March	63,957	137.5	8,548	248.6	9,022	258.8	185,876	256.7	156.4
April	63,814	139.3	10,074	280.0	10,534	286.5	169,838	268.9	159.9
May	62,568 63,703	140.0	10,378	262.7	10,803	269.3	163,917	286.3	161.7
June July	63,702 59,853	139.0 138.0	10,638 15,424	245.8 237.3	11,149	254.2 243.3	244,015	243.2	159.9
August	65,843	137.4	15,424	237.3 227.0	16,045 15,624	243.3 232.2	313,392 340,505	240.9 252.6	164.5
September	65,357	138.5	15,324	226.1	15,766	231.0	250,296	263.6	165.1 162.8
October	67,123	140.5	13,596	231.0	14,005	236.6	226,238	241.3	159.1
November	65,938	138.4	10,868	218.0	11,420	227.3	201,903	254.0	156.9
December	66,552	136.2	16,331	198.8	17,085	205.5	165,685	272.4	154.9
Year	769,152	138.5	141,719	236.2	147,902	243.3	2,574,523	256.0	159.5
1994 January	<sup>R</sup> 62,611	<sup>R</sup> 135.9	16,700	R 228.6	17,781	R 238.0	<sup>R</sup> 160,361	261.5	<sup>R</sup> 156.7
February	_ 64,409	_ 136.8	16,554	266.2	17,543	274.4	<sup>R</sup> 142,783	273.5	<sup>R</sup> 159.0
March	<sup>R</sup> 72,960	<sup>R</sup> 135.9	12,796	221.6	<sup>R</sup> 13,318	227.7	<sup>R</sup> 179,910	261.5	153.1
April	<sup>R</sup> 67,380	138.1	9,904	213.1	10,400	_ 220.9	<sup>R</sup> 199,349	238.2	_ 153.6
May	R 71,130	138.3	13,291	224.8	R 13,892	R 231.3	R 211,907	240.6	R 155.2
June	70,066	137.4	13,461	237.3	14,333	246.1	R 302,900	R 219.2	156.4
July	<sup>R</sup> 67,619	R 135.3	R 14,215	R 263.2	R 14,771	R 267.9	R 347,984	221.9	R 158.9
August	75,308	135.4	11,135	256.9	11,562	262.1	R 360,874	R 210.3	153.8
September	69,922 <sup>B</sup> 69,323	135.8	8,495 8 4 690	232.5 R 220.0	8,966 B 5 107	240.2 R 252.0	R 283,747	195.7	148.8
October November	R 68,846	134.8 <sup>R</sup> 133.3	<sup>R</sup> 4,689 <sup>R</sup> 6,313	<sup>R</sup> 239.8 245.2	<sup>R</sup> 5,187 <sup>R</sup> 6,852	<sup>R</sup> 253.9 256.9	R 252,845	R 191.6	145.6
December	72,354	129.7	R 7.630	R 258.1	R 8,336	256.9 R 268.6	R 221,118	<sup>R</sup> 206.8 <sup>R</sup> 213.9	146.3 B 143.9
Year	<sup>R</sup> 831,929	135.5	R 135,184	R 240.9	R 142,940	R 248.8	R 200,126 R <b>2,863,904</b>	1 213.9 223.0	<sup>R</sup> 143.8 <b>152.6</b>
1995 January	69,981	132.9	5,565	273.1	6,114	282.7	188,389	209.2	145.2

bunker oil, and liquefied petroleum gas.

R=Revised data.

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.

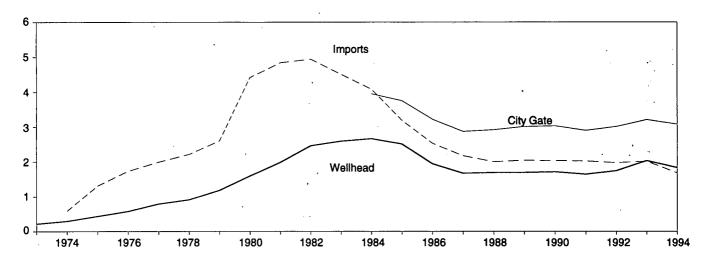
C Data for 1973-1982 do not include small quantities of rerefined motor oil,

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

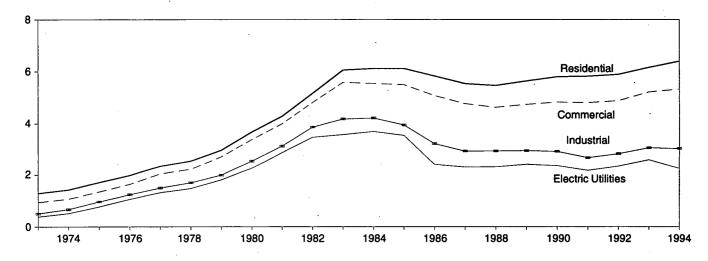
Figure 9.4 Natural Gas Prices

(Dollars per Thousand Cubic Feet)

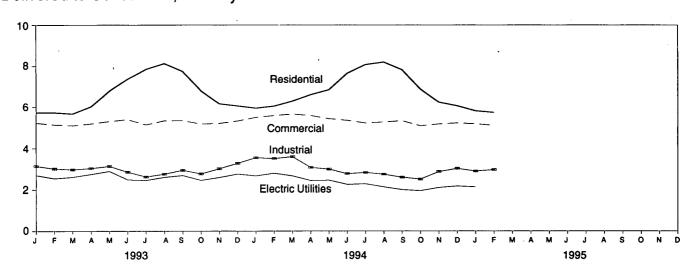
# Selected Prices, 1973-1994



# 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** 

(Dollars per Thousand Cubic Feet)

			r Interstate e Companies			Delivered to C	onsumers <sup>a,b</sup>	
	Wellhead	Imports	Purchases from Producers	City Gate	Residential	Commercial	Industrial	Electric Utilities
973 Average	0.22	NA	NA	NA	1,29	0.94	0.50	0.38
974 Average	.30	.59	.27	NA	1.43	1.07	.67	.51
975 Average	.44	1.31	.37	NA	1.71	1.35	.96	.77
976 Average	.58	1.73	.48	NA	1.98	1.64	1.24	1.06
977 Average	.79	1.99	.70	NA	2.35	2.04	1.50	1.32
78 Average	.91	2.21	.83	NA	2.56	2.23	1.70	1.48
79 Average	1.18	2.60	1.22	NA	2.98	2.73	1.99	1.81
80 Average	1.59	4.42	1.63	NA	3.68	3.39	2.56	2.27
	1.98	4.84	2.15	NA NA	4.29	4.00	3.14	2.89
981 Average	2.46	4.94	2.72	NA NA	5.17	4.82	3.87	3.48
982 Average	2.59	4.54 4.51	2.72	NA NA	6.06	4.62 5.59	4.18	
983 Average								3.58
184 Average	2.66	4.08	2.91	3.95	6.12	5.55	4.22	3.70
985 Average	2.51	3.19	2.85	3.75	6.12	5.50	3.95	3.55
986 Average	1.94	2.53	2.39	3.22	5.83	5.08	3.23	2.43
987 Average	1.67	2.17	2.10	2.87	5.54	4.77	2.94	2.32
988 Average	1.69	2.00	2.13	2.92	5.47	4.63	2.95	2.33
989 Average	1.69	2.04	2.18	3.01	5.64	4.74	2.96	2.43
990 Average	1.71	2.03	2.19	3.03	5.80	4.83	2.93	2.38
91 Average	1.64	2.02	1.92	2.90	5.82	4.81	2.69	2.18
92 Average	1.74	1.97	2.09	3.01	5.89	4.88	2.84	2.36
93 January	1.95	2.04	2.17	3.11	5.73	5.23	3.15	2.70
February	1.76	1.91	1.94	2.94	5.73	5.14	3.02	2.54
March	1.94	1.78	2.21	3.06	5.67	5.10	2.98	2.61
April	2.09	2.15	2.27	3.24	6.02	5.19	3.04	2.75
May	2.35	2.13	2.63	3.58	6.78	5.31	3.14	2.90
June	1.91	1.95	2.02	3.44	7.37	5.40	2.86	2.48
July	1.94	1.78	2.03	3.34	7.85	5.14	2.62	2.45
August	2.04	2.25	2.36	3.35	8.13	5.34	2.76	2.60
September	2.19	2.07	2.59	3.54	7.75	5.35	2.95	2.69
October	1.96	1.96	2.05	3.15	6.79	5.18	2.77	2.45
November	1.96	1.85	2.27	3.15	6.17	5.21	3.02	2.59
December	2.24	2.25	2.69	3.13	6.06	5.33	3.28	2.76
Average	2.03	2.25	2.09	3.21	6.16	5.22	3.26	2.76
994 January	2.00	2.09	2.70	R 3.03	5.95	<sup>R</sup> 5.50	3.54	2.67
February	2.13	1.81	R 3.34	3.27	6.05	R 5.59	3.50	2.80
March	2.12	2.04	2.81	3.33	6.30	A 5.66	R 3.59	R 2.67
April	1.91	2.04	2.51	3.15	6.61	A 5.59	3.08	2.67
May	1.94	1.53	2.65	3.18	6.84	R 5.44	3.00	2.44
	1.75	1.90	2.43	3.18	7.66	R 5.36	3.00 2.78	
June	1.84	1.44	2.43	R 3.12	7.00 8.08	R 5.23	R 2.84	2.25
July	1.84	1.79						2.28
August			2.33	3.16	8.20	5.28 8 5 04	2.75	2.13
September	1.56	1.39	2.08	2.92	7.83	R 5.34	2.60	2.00
October	1.48	1.28	1.79	2.82	6.87	R 5.09	2.51	1.95
November	1.68	1.25	1.46	R 2.85	R 6.25	<sup>R</sup> 5.18	R 2.88	2.10
Average	1.72 1.83	1.58 <b>1.68</b>	2.85 <b>2.44</b>	2.86 <b>3.08</b>	<sup>R</sup> 6.07 <b>6.40</b>	<sup>R</sup> 5.23 <b>5.33</b>	<sup>R</sup> 3.03 <b>3.04</b>	2.17 <b>2.27</b>
95 January	R 1.67	1.42	1.22	2.79	R 5.82	R 5.19	R2.91	R 2.13
	E 1.56	1.42	2.52	2.79		••••	2.91 2.97	
February 2-Month Average	E 1.62	1.07 1.25	2.52 1.87	2.71 2.75	5.74 <b>5.78</b>	5.11 <b>5.15</b>	2.97 <b>2.94</b>	NA NA
994 2-Month Average	2.07	1.95	3.02	3.14	6.00	5.55	3.52	2.73
93 2-Month Average	1.86	1.98	2.06	3.03	5.73	5.19	3.09	2.62

a Includes supplemental gaseous fuels.
 b See Note 9 at end of section.

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.

<sup>&</sup>lt;sup>c</sup> 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

# **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-or-greater total. Data for 1983-1990 cover all electric generating plants at which the generator nameplate capacity of all steam-electric units combined totaled 50 megawatts or greater. Data for 1991 forward cover all electric generating plants at which the generator nameplate capacity of all steam-electric units and combined-cycle units together totaled 50 megawatts or greater.
- 9. Natural gas prices are intended to include all taxes. Instructions on the data collection forms specifically direct that all Federal, State, and local taxes, surcharges, and/or adjustments billed to consumers are to be included. However, sales and other taxes itemized on more than 3,000 consumers' bills are sometimes excluded by the reporting utilities.

Delivered-to-consumers prices for 1987 forward represent natural gas delivered and sold to residential, commercial, industrial, and electric utility consumers. They do not include the price of natural gas delivered to industrial and commercial consumers on behalf of third parties. Volumes of natural gas delivered on behalf of third parties are included in the consumption data shown in Table 4.4. Additional information is available in the EIA Natural Gas Monthly, Appendix C.

#### Sources for Table 9.1

• Domestic First Purchase Price: 1973-1976—U.S. Department of the Interior (DOI), Bureau of Mines

- (BOM), Minerals Yearbook, "Crude Petroleum and Petroleum Products" chapter. 1977—Federal Energy Administration (FEA), based on Form FEA-P124, "Domestic Crude Oil Purchaser's Monthly Report." 1978 forward—Energy Information Administration (EIA), Petroleum Marketing Monthly, May 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, May 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, May 1995, Table 1.

#### Sources for Table 9.9

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

#### Sources for Table 9.10

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

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

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

#### Sources for Table 9.11

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

# Section 10. International Energy

Crude Oil Production. World crude oil production during February 1995 was 62 million barrels per day, up 0.2 million barrels per day from the level in the previous month.

Organization of Petroleum Exporting Countries (OPEC) production during February 1995 averaged 26 million barrels per day, down slightly from the level during the previous month. Production by the Arab members of OPEC in February 1995 averaged 16 million barrels per day, unchanged from the January 1995 level. During February 1995, production remained unchanged Algeria, Iraq, Kuwait, Libya, Qatar, Saudia Arabia, and the United Arab Emirates. Among the non-Arab members of OPEC, production during February 1995 increased in Iran by 50 thousand barrels per day. Production decreased in Indonesia by 40 thousand barrels per day and in Nigeria by 20 thousand barrels per day. Production remained the same in Venezuela.

Among the non-OPEC nations, production during February 1995 increased in the United States by 107 thousand barrels per day, in the United Kingdom by 90 thousand barrels per day, in the former U.S.S.R. by 70 thousand barrels per day, in Canada by 10 thousand barrels per day, and in Mexico 5 thousand barrels per day. Production remained the same in Ecuador and China.

Petroleum Consumption. In December 1994, consumption in all Organization for Economic Cooperation and Development (OECD) countries was 41.9 million barrels per day, slightly higher than the December 1993

rate. The consumption rate was higher than it was 1 year ago in Canada and Japan (both +7 percent)<sup>9</sup>, and the United States (+2 percent). Consumption was lower in Germany (-12 percent), Italy (-6 percent), the United Kingdom (-2 percent), and France (-1 percent), compared with the level 1 year earlier.

Petroleum Stocks. For all OECD countries, petroleum stocks at the end of December 1994 totaled 3.7 billion barrels, 1 percent higher than the ending stock level in December 1993. Stock levels were higher in Canada (+10 percent), Japan (+4 percent), Germany (+1 percent), and the United States (less than 1 percent). Stocks were lower in the United Kingdom (-3 percent), and France and Italy (both less than -1 percent), compared with levels 1 year earlier.

Nuclear Electricity Generation. Based on Nucleonics Week information for February 1995, all reporting countries with nuclear capacity generated 183.7 gross terawatthours of nuclear-generated electricity.

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

As of February 28, 1995, there were 431 operable nuclear generating units in the world.

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

Table 10.1a World Crude Oil Production: Algeria Through Venezuela

(Thousand Barrels per Day)

							United					
						Saudi	Arab	Arab				
	Algeria	Iraq	Kuwaita	Libya	Qatar	Arabia <sup>a</sup>	Emirates	OPECb	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	487 508	8,301	1,831	18,525	1,635	5,242	1,897	2,165
1979 Average	1,224	3,477 2,514	2,500 1,656	2,092	508 472	9,532	1,831	21,163	1,591	3,168	2,302	2,356
1980 Average	1,106 1.002	1.000	1,125	1,787 1,140	405	9,900 9,815	1,709 1,474	19,144 15,961	1,577	1,662	2,055	2,168
1981 Average 1982 Average	987	1,000	823	1,150	330	6.483	1,250	12,035	1,605 1,339	1,380	1,433	2,102
1983 Average	968	1.005	1,064	1,105	295	5,086	1,149	10.672	1,339	2,214 2,440	1,295 1,241	1,895 1,801
1984 Average	1,014	1,209	1,157	1,087	394	4.663	1,146	10,670	1,412	2,174	1.388	1,798
1985 Average	1,037	1,433	1,023	1,059	301	3,388	1,193	9.434	1.325	2,250	1,495	1,677
1986 Average	945	1,690	1,419	1,034	308	4,870	1,330	11.596	1,390	2.035	1,467	1.787
1987 Average	1,048	2,079	1,585	972	293	4,265	1,541	11,783	1,343	2,298	1,341	1,752
1988 Average	1,040	2,685	1,492	1,175	346	5,086	1,565	13,389	1,342	2,240	1,450	1,903
1989 Average	1,095	2,897	1,783	1,150	380	5,064	1.860	14,229	1,409	2,810	1,716	1,907
1990 Average	1,175	2,040	1,175	1,375	406	6,410	2,117	14,698	1,462	3,088	1,810	2,137
1991 Average	1,230	305	190	1,483	395	8,115	2,386	14,104	1,592	3,312	1,892	2.375
1992 Average	<sup>R</sup> 1,214	<sup>R</sup> 425	R 1,058	R 1,433	R 423	<sup>R</sup> 8,332	<sup>R</sup> 2,266	<sup>R</sup> 15,151	<sup>R</sup> 1,504	3,429	<sup>R</sup> 1,943	<sup>R</sup> 2,371
1993 January	1,210	500	1,675	1,480	<sup>R</sup> 456	8,500	R 2,244	R 16,065	R 1,572	3,650	2,125	R 2,484
February	1,210	500	1,865	1,425	<sup>R</sup> 436	8,440	R 2,254	R 16,130	<sup>R</sup> 1,552	3,750	2,105	<sup>R</sup> 2,464
March	1,200	500	1,650	1,350	R 406	8,300	R 2,219	<sup>R</sup> 15,625	<sup>R</sup> 1,521	3,700	2,075	<sup>R</sup> 2,412
April	1,200	500	1,645	1,350	R 406	8,000	<sup>R</sup> 2,219	<sup>R</sup> 15,320	R 1,501	3,500	2,025	<sup>R</sup> 2,412
May	1,200	500	R 1,712	1,350	R 426	8,000	R 2,180	<sup>R</sup> 15,369	R 1,531	3,650	2,025	R 2,412
June	1,200	500	1,775	1,350	R 406	8,150	R 2,180	R 15,561	R 1,531	3,650	1,995	R 2,412
July	1,180	500	1,940	1,350	R 416	8,240	R 2,161	R 15,786	R 1,531	3,800	1,975	R 2,464
August	1,180	500	2,045	1,370	<sup>R</sup> 416 <sup>R</sup> 416	8,345	R 2,161	R 16,016	R 1,531	3,500	2,025	R 2,464
September October	1,180 1,180	530 530	2,020 2,045	1,370 1,390	R 416	8,270 8,145	<sup>R</sup> 2,170 <sup>R</sup> 2,170	<sup>R</sup> 15,956 <sup>R</sup> 15,876	<sup>R</sup> 1,531 <sup>R</sup> 1,501	3,650	2,045	R 2,453
November	1,170	540	2,045	1,390	R 416	7,995	R 2,170	R 15,706	R 1,501	3,700 3,550	2,005 2,025	<sup>R</sup> 2,474 <sup>R</sup> 2,474
December	1,170	540	2,043	1,370	R 416	8,000	R 2,170	R 15,706	R 1,531	3,550	2,025 2,175	R 2,474
Average	1,190	512	1,872	1,377	R 419	8,198	R 2,191	R 15,759	R 1,528	3,650	2,050	R 2,450
1994 January	1,170	<sup>R</sup> 545	1,995	1.370	R 445	8.095	R 2.250	<sup>R</sup> 15,870	1,510	<sup>R</sup> 3,635	R 2,200	2,490
February	1,170	<sup>R</sup> 545	1,998	1,370	R 430	8,088	R 2,275	<sup>R</sup> 15,875	1,510	R 3,585	R 2,200	2,490
March	1,170	<sup>R</sup> 545	2,005	1,370	R 445	8,095	<sup>R</sup> 2,250	<sup>R</sup> 15.880	1,510	<sup>R</sup> 3.685	<sup>R</sup> 2,150	2,490
April	1,170	<sup>R</sup> 555	2,020	1,370	R 445	8,110	<sup>R</sup> 2,250	<sup>R</sup> 15,920	1,510	<sup>R</sup> 3,535	R 2,070	2,480
May	1,170	<sup>R</sup> 555	2,050	1,370	R 445	8,090	R 2,260	<sup>R</sup> 15,940	1,510	<sup>R</sup> 3,585	<sup>R</sup> 2,100	2,500
June	1,170	<sup>R</sup> 555	2,050	1,370	R 455	8,090	R 2,280	<sup>R</sup> 15,970	1,510	R 3,685	R 2.090	2,500
July	1,170	<sup>R</sup> 555	2,050	1,380	R 475	8,100	R 2,280	<sup>R</sup> 16,010	1,510	<sup>R</sup> 3,585	R 1,990	2,520
August	1,170	<sup>R</sup> 555	2,050	1,390	R 435	8,120	<sup>R</sup> 2,280	R 16,000	1,530	R 3,635	<sup>H</sup> 1,630	2,540
September	1,170	R 555	2,050	1,370	R 445	8,180	R 2,280	R 16,050	1,510	R 3,685	R 2,010	2,540
October	1,170	<sup>R</sup> 555 <sup>R</sup> 555	2,045	1,390	R 385	8,245	R 2,240	R 16,030	1,520	R 3,635	R 2,080	2,540
November	1,170	<sup>11</sup> 555 <sup>R</sup> 555	2,045	1,390	<sup>R</sup> 455 <sup>R</sup> 465	8,245	R 2,240	R 16,100	1,520	R 3,735	R 1,980	2,540
December  Average	1,170 <b>1,170</b>	R 553	2,050 <b>2,034</b>	1,390 <b>1,378</b>	R 444	8,300 <b>8,147</b>	<sup>R</sup> 2,270 <sup>R</sup> <b>2,263</b>	<sup>R</sup> 16,200 <sup>R</sup> 15,988	1,520 <b>1,514</b>	R 3,635 R <b>3,635</b>	<sup>R</sup> 1,965 <sup>R</sup> 2,037	2,530 <b>2,514</b>
1995 January	1,170	R 555	2,055	1.390	<sup>R</sup> 455	8.105	R 2.280	R 16,010	1,520	R 3,585	R 2,010	2,600
February	1,170	555	2,055	1,390	455	8,105	2,280	16,010	1,480	3,635	1,990	2,600
2-Mo. Avg	1,170	555	2,055	1,390	455	8,105	2,280	16,010	1,501	3,609	2,001	2,600
1994 2-Mo. Avg	1,170	545	1,996	1,370	438	8,091	2,262	15,872	1,510	3,611	2,200	2,490
1993 2-Mo. Avg	1,210	500	1,765	1,454	447	8,472	2,248	16,096	1,562	3,697	2,116	2,475

<sup>&</sup>lt;sup>a</sup> 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 February 1995, Neutral Zone production by both Kuwait and Saudi Arabia totaled about 410 thousand barrels per day.

Arab Emirates. Production in the Neutral Zone between Kuwait and Saudi Arabia is included in "Arab OPEC."

R=Revised data.

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.

barrels per day.

b The Arab members of the Organization of Petroleum Exporting Countries (OPEC) are Algeria, Iraq, Kuwait, Libya, Qatar, Saudi Arabia, and the United

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

(Thousand Barrels per Day)

,	Total OPEC <sup>a</sup>	Ecuadora	Persian Gulf Nations <sup>b</sup>	Canada	China	Mexico	United Kingdom	United States	Former U.S.S.R.	Other <sup>c</sup>	World
	00.770	209	20,668	1.798	1.090	465	2	9,208	8,324	3,804	55,679
1973 Average	30,779	177	21,282	1,551	1,315	571	2	8,774	8,912	3,862	55,716
1974 Average	30,552		18,934	1,430	1,490	705	12	8,375	9,523	4,139	52,828
1975 Average	26,994	161 188	21,514	1,314	1,670	831	245	8,132	10,060	4,355	57,344
1976 Average	30,549		21,725	1,314	1,874	981	768	8,245	10,603	4,616	59,707
1977 Average		183	20,606	1,321	2,082	1,209	1,082	8,707	11,105	4,782	60,158
1978 Average	29,673	202		1,500	2,122	1,461	1,568	8,552	11,384	5,089	62,674
1979 Average	30,784	214	21,066 17,961	1,435	2,114	1,936	1,622	8,597	11,706	5,204	59,599
1980 Average	26,781	204	15,245	1,435	2,012	2,313	1,811	8,572	11,850	5,390	56,076
1981 Average		211		1,271	2,045	2,748	2,065	8,649	11,912	5,646	53,481
1982 Average	18,934	211	12,156 11,081	1,271	2,120	2,689	2,291	8,688	11,972	6,248	53,255
1983 Average	17,654	237	10,784	1,438	2,296	2,780	2,480	8,879	11,861	6,897	54,488
1984 Average		258	9,630	1,436	2,505	2,745	2,530	8,971	11,585	7,540	53,981
1985 Average		281		1,474	2,620	2,435	2,539	8,680	11,895	7,850	56,227
1986 Average		293	11,696	1,535	2,690	2,548	2,406	8,349	R 12,050	8,242	R 56,666
1987 Average		174	12,103	1,616	2,730	2,512	2,232	8,140	R 12,053	8,669	R 58,737
1988 Average		302	13,457 14,837	1,560	2,757	2,520	1,802	7,613	R 11,715	9,338	R 59,863
1989 Average		279	15,278	1,553	2,774	2,553	1,820	7,355	R 10,975	9,785	<sup>R</sup> 60,566
1990 Average		285		1,548	2,835	2,680	1,797	7,417	R 9,992	10.074	R 60,210
1991 Average	23,569	299	14,741	1,548	2,838	2,668	1,825	7,171	R 8,931	R 10,169	R 60,213
1992 Average	R 24,695	318	16,104	1,550	2,000	2,000	1,020	.,			•
1993 January	R 26.213	330	R 17,066	<sup>R</sup> 1,572	2,885	2,605	<sup>R</sup> 1,821	6,961	<sup>R</sup> 8,249	R 10,478	R 61,113
February		330	R 17,285	<sup>R</sup> 1,612	2,875	2,610	<sup>R</sup> 1,931	6,943	<sup>R</sup> 8,233	<sup>R</sup> 10,618	<sup>R</sup> 61,468
March	R 25,650	330	R 16,816	<sup>R</sup> 1,637	2,885	2,635	<sup>R</sup> 1,715	6,974	<sup>R</sup> 8,127	R 10,782	<sup>R</sup> 60,736
Δnril	925 075	330	R 16,311	<sup>R</sup> 1,607	2,900	2,674	<sup>R</sup> 1,701	6,881	<sup>R</sup> 8,106	R 10,750	R 60,024
May	R 25 304	345	R 16,509	R 1,662	2,925	2,673	. R 1,751	6,847	<sup>R</sup> 7,926	<sup>R</sup> 10,781	R 60,213
		350	R 16,702	R 1,727	2,960	2,675	R 1,680	6,795	<sup>R</sup> 7,826	<sup>R</sup> 10,460	<sup>R</sup> 59,939
July	R 25 863	350	<sup>R</sup> 17,097	<sup>R</sup> 1,712	2,930	2,650	<sup>R</sup> 1,936	6,688	<sup>R</sup> 7,530	R 10,874	R 60,533
August	R 25,843	350	R 17,007	R 1,772	2,855	2,650	<sup>R</sup> 1,946	6,758	<sup>R</sup> 7,429	R 10,748	<sup>R</sup> 60,351
September	D	350	<sup>R</sup> 17.097	<sup>R</sup> 1,742	2,895	2,700	<sup>R</sup> 1,951	6,712	<sup>R</sup> 7,313	R 10,764	R 60,368
October	R 25 863	360	R 17.047	<sup>R</sup> 1,727	2,975	2,700	<sup>R</sup> 2,067	6,839	<sup>R</sup> 7,308	<sup>R</sup> 10,987	R 60,824
November	Rocces	360	<sup>R</sup> 16,757	<sup>R</sup> 1,677	2,945	2,730	R 2,202	6,912	<sup>R</sup> 7,313	R 11,179	R 60,879
December	R 25,903	360	<sup>R</sup> 16,917	R 1,712	2,898	2,745	R 2,277	6,858	<sup>R</sup> 7,281	R 11,237	R 61,270
Average	R 25,748	346	R 16,883	<sup>R</sup> 1,680	2,911	2,671	R 1,915	6,847	<sup>R</sup> 7,717	<sup>R</sup> 10,806	<sup>R</sup> 60,640
	_	360	R 17,000	<sup>R</sup> 1,669	2,900	2,745	2,280	E 6,777	6,985	R 11,104	<sup>R</sup> 60,815
1994 January		360	R 16,955	R 1,722	2,920	2,710	2,280	<sup>E</sup> 6,745	6,715	<sup>R</sup> 11,260	<sup>R</sup> 60,662
February March	R 26,830	360	R 17,060	R 1,706	2,920	2,685	2,315	E 6,719	6,660	<sup>R</sup> 11,180	R 60,571
April	" 25 845	365	R 16,950	R 1,671	2,940	2,700	2,340	<sup>E</sup> 6,634	6,485	<sup>R</sup> 11,190	<sup>R</sup> 60,170
May	R 25,075	365	<sup>R</sup> 17,020	R 1.706	2,940	2,690	2,345	<sup>E</sup> 6,658	6,635	<sup>R</sup> 11,240	<sup>R</sup> 60,554
June	. R 26,095	375	R 17,150	R 1,729	2,950	2,675	2,340	<sup>E</sup> 6,567	6,650	R 11,478	<sup>R</sup> 60,859
July	R 25 055	385	R 17,180	R 1,801	2,940	2,675	2,275	<sup>E</sup> 6,528	6,540	<sup>R</sup> 11,435	<sup>R</sup> 60,534
August	R 25 675	385	R 17,110	1,790	2,950	2,675	2,315	<sup>E</sup> 6,547	6,520	<sup>R</sup> 11,525	<sup>R</sup> 60,382
Contombor	726 126	400	R 17,230	R 1.817	2,910	2,680	2,475	<sup>E</sup> 6.551	6,480	<sup>R</sup> 11,505	R 60,953
October	R 26 145	395	R 17,140	1.735	2,950	2,685	2,435	E 6,578	6,560	<sup>R</sup> 11,940	<sup>R</sup> 61,424
November	. <sup>R</sup> 26,215	395	R 17,310	R 1,778	2,970	2,675	2,485	E 6,542	6,580	<sup>R</sup> 11,950	<sup>R</sup> 61,590
November December	R 26 190	395	R 17,310	R 1,793	2,980	2,675	2,605	E 6,686	6,520	<sup>R</sup> 12,084	R 61,928
Average	. R 26,017	378	R 17,110	<sup>R</sup> 1,743	2,939	2,689	2,375	<sup>E</sup> 6,627	6,611	R 11,493	R 60,871
	_	B 400	R 47 070	<sup>R</sup> 1,780	R 2.950	2,675	2,520	€ 6.596	R 6.415	R 12,048	R 61,444
1995 January	. R 26,060	R 400	R 17,070	•	2,950	2,675 2,680	2,520	E 6,703	6.485	12,014	61,682
February		400	17,120	1,790 <b>1,785</b>	2,950 2,950	2,677	2,563	E 6,647	6,448	12,032	61,557
2-Mo. Avg	. 26,055	400	17,094	1,700	2,530	2,011	•		-	•	
1994 2-Mo. Avg		360	16,979	1,694	2,909	2,728	2,280	E 6,762	6,857 8 241	11,178 10,544	60,742 61,282
1993 2-Mo. Avg	. 26,263	330	17,170	1,591	2,880	2,607	1,873	E 6,952	8,241	10,544	01,202

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

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." 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.

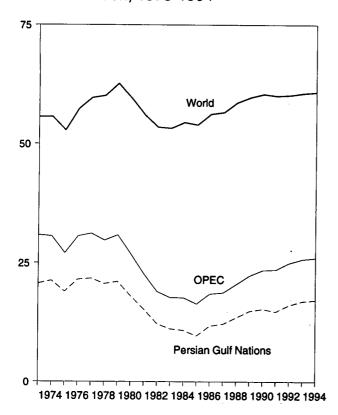
Notes: • Crude oil includes lease condensate but excludes natural gas plant liquids. • Monthly data are often preliminary figures and may not average to the annual totals because of rounding or because updates to the preliminary monthly data are not available. • Data for countries may not sum to World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

<sup>&</sup>lt;sup>c</sup> "Other" is a calculated total derived from the difference between "World"

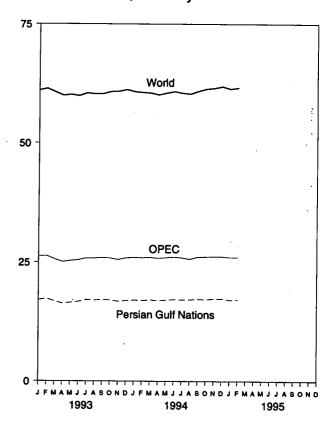
Figure 10.1 Crude Oil Production

(Million Barrels per Day)

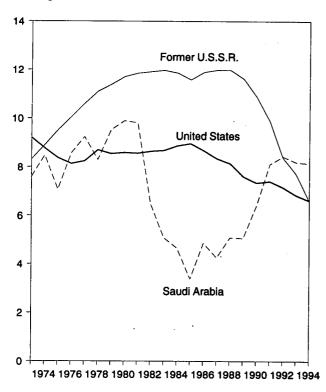
# World Production, 1973-1994



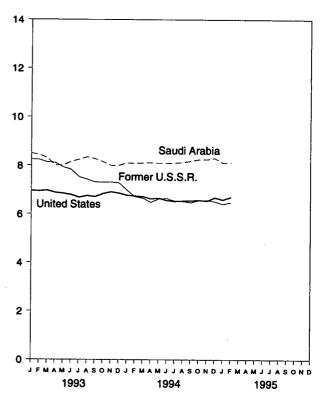
# World Production, Monthly



# Leading Producers, 1973-1994



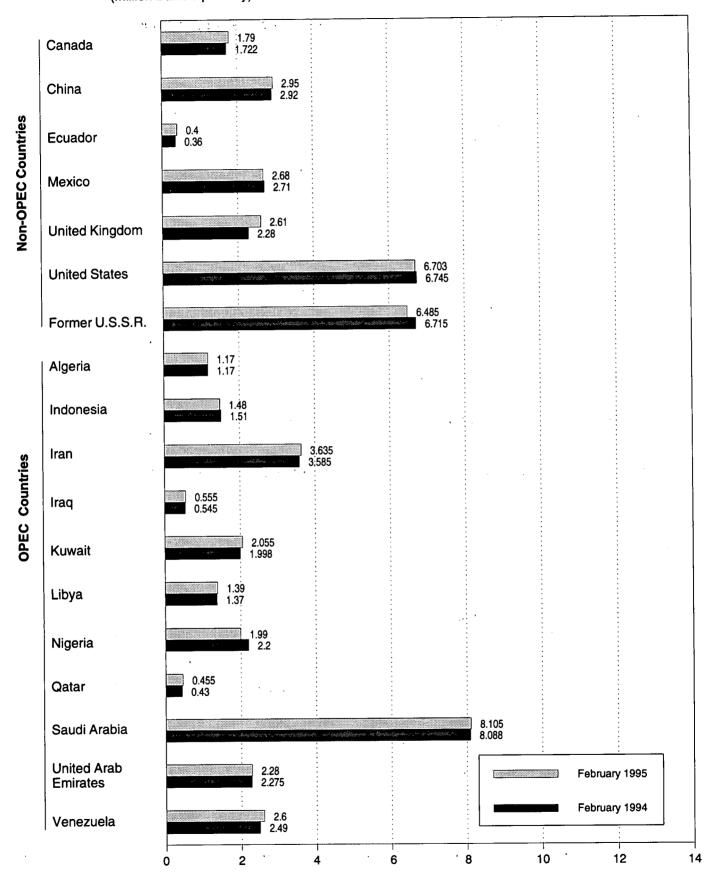
# Leading Producers, Monthly



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

Figure 10.2 Crude Oil Production by Selected Country

(Million Barrels per Day)

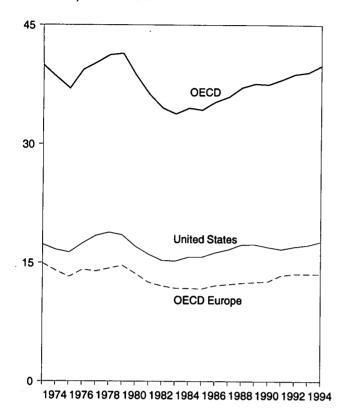


Note: OPEC is the Organization of Petroleum Exporting Countries. Sources: Tables 10.1a and 10.1b.

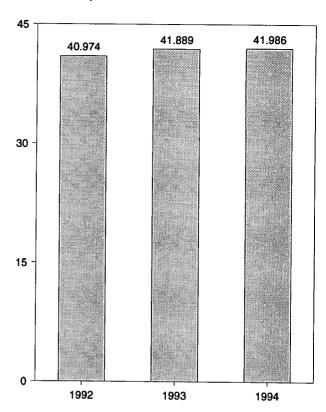
Figure 10.3 Petroleum Consumption in OECD Countries

(Million Barrels per Day)

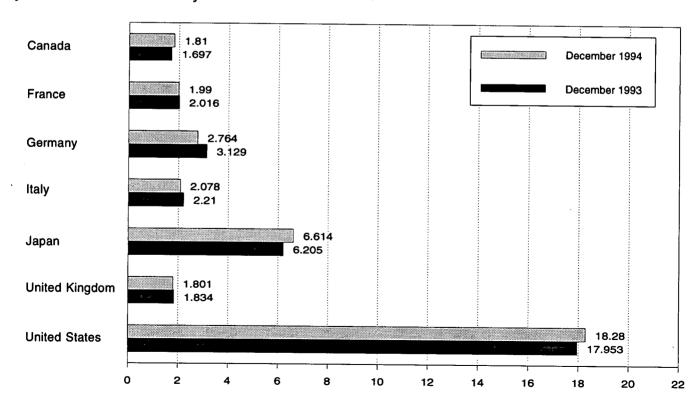
# Overview, 1973-1994



# OECD Total, December



# 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 <sup>b</sup>	Other OECD <sup>c</sup>	OECD
			_l				47.000	14.005	988	39,900
973 Average	1,729	2,601	3,055	2,068	4,949	2,341	17,308	14,925		38,379
974 Average	1,779	2,447	2,748	2,004	4,864	2,210	16,653	13,988	1,095	36,980
975 Average	1,779	2,252	2,650	1,855	4,621	1,911	16,322	13,217	1,041	
976 Average	1,818	2,420	2,877	1,971	4,837	1,892	17,461	14,124	1,119	39,358
977 Average	1,850	2,294	2,865	1,897	4,880	1,905	18,431	13,916	1,160	40,237
978 Average	1,902	2,408	2,927	1,952	4,945	1,938	18,847	14,290	1,204	41,187
979 Average	1,971	2,463	3,003	2,039	5,050	1,971	18,513	14,667	1,178	41,379
980 Average	1,873	2,256	2,707	1,934	4,960	1,725	17,056	13,634	1,072	38,595
981 Average	1,768	2,023	2,449	1,874	4,848	1,590	16,058	12,515	1,080	36,269
982 Average	1,578	1,880	2,372	1,781	4,582	1,590	15,296	12,053	1,008	34,517
983 Average	1,448	1,835	2,324	1,750	4,395	1,531	15,231	11,765	954	33,793
984 Average	1,472	1,754	2,322	1,646	4,576	1,849	15,726	11,736	989	34,500
985 Average	1,504	1,775	2,338	1,717	4,384	1,634	15,726	11,681	976	34,271
986 Average	1,506	1,772	2,498	1,738	4,439	1,649	16,281	12,102	951	35,279
	1,548	1,789	2,424	1,855	4,484	1,603	16,665	12,255	959	35,911
987 Average	1,693	1,797	2,422	1,836	4,752	1,697	17,283	12,427	939	37,093
988 Average	1,733	1,857	2,280	1,930	4,983	1,738	17,325	12,531	998	37,570
989 Average	1,733	1,818	2,382	1,872	5,140	1,752	16,988	12,629	1,027	37,475
990 Average			2,828	1,863	5,284	1,801	16,714	13,391	1,056	38,067
991 Average	1,622	1,935	£,020	1,000	0,207	.,	,,		·	•
992 January	1,627	2,211	2,968	2,237	5,768	1,833	17,012	14,459	1,020	39,885
February	1,623	2,106	2,814	2,149	6,339	1,819	16,893	14,051	1,051	39,956
March	1,595	1,937	2,809	1,886	5,865	1,818	16,825	13,681	1,060	39,026
	1,581	1,990	2,893	1,891	5,205	1,858	16,764	13,666	1,047	38,263
April	1,589	1,629	2,588	1,671	4,838	1,695	16,485	12,346	1,008	36,266
May		1,815	2,699	1,801	4,942	1,725	16,978	13,035	1,092	37,694
June	1,646		3,029	1,900	5,117	1,804	17,143	13,661	1,033	38,596
July	1,642	1,926	2,829	1,655	4,955	1,700	16,929	12,909	950	37,418
August	1,675	1,733			5,139	1,870	16,876	14,222	1,052	38,943
September	1,654	1,953	3,072	2,003		1,825	17,448	13,474	1,019	38,949
October	1,705	1,939	2,752	1,930	5,303	1,853	17,440	13,805	1,054	39,300
November	1,714	1,888	2,823	2,053	5,637		17,928	13,989	1,109	40,974
December	1,670	1,999	2,841	2,077	6,277	1,839		13,605	1,041	38,76
Average	1,643	1,926	2,843	1,937	5,446	1,803	17,033	13,003	1,041	00,700
1993 January	1,567	1,953	2,532	1,858	5,929	1,715	16,173	12,822	969	37,45
February	1,676	2,139	2,897	1,970√	6,278	1,863	17,334	14,014	1,132	40,43
March	1,674	2,012	2,935	1,945	6,230	1,875	17,575	14,027	1,167	40,67
April	1,569	1,933	2,822	1,708	5,440	1,719	16,781	13,108	1,122	38,020
May	1,576	1,697	2,589	1,688	4,754	1,664	16,508	12,071	1,144	36,05
. •	1,680	1,964	3,047	1,735	4,949	1,796	17,096	13,613	1,109	38,44
June	1,674	1,857	2,970	1,799	4,849	1,794	17,357	13,639	1,052	38,57
July	1,724	1,657	2,897	1,718	4,777	1,777	17,332	13,074	1,118	38,02
August	1,731	1,796	3,168	1,921	4,757	1,834	17,650	14,069	1,095	39,30
September	•	1,750	2,818	1,911	4,979	1,789	17,323	13,474	1,117	38,54
October	1,651	•		2,095	5,485	1,970	17,780	14,639	1,134	40,74
November	1,710	2,076	3,062			1,834	17,953	14,737	1,298	41,88
December	1,697	2,016	3,129	2,210	6,205	1,802	17,237	13,601	1,121	39,00
Average	1,661	1,908	2,904	1,879	5,381	1,602	17,237	•	1,121	•
1994 January	1,650	<sup>R</sup> 1,870	2,472	1,784	5,891	1,721	17,924	R 12,789	1,054	R 39,30
February	1,728	1,998	2,987	1,917	6,498	1,896	18,302	14,253	1,175	<sup>R</sup> 41,95
March	1,690	1,855	3,067	1,902	_ 6,247	1,932	17,289	13,955	1,218	40,39
April	1,587	1,881	2,914	1,827	<sup>R</sup> 5,279	1,786	17,428	<sup>R</sup> 13,538	1,174	R 39,00
May		1,703	2,746	1,683	<sup>R</sup> 4,881	1,747	17,094	R 12,704	1,207	R 37,53
June	1,654	1,842	2,999	1,694	<sup>R</sup> 5,118	1,857	17,830	<sup>R</sup> 13,667	1,249	<sup>R</sup> 39,51
July	1,681	1,801	2,813	1,713	5,582	1,723	17,474	<sup>R</sup> 13,024	1,203	R 38,96
	1,751	1,763	2,898	1,707	5,600	1,723	18,107	R 13,323	<sup>R</sup> 1,156	R 39,93
August	•	1,763	3,028	1,955	5,337	1,838	17,469	R 14,232	<sup>R</sup> 1,202	R 39,98
September	1,741			1,880	5,339	1,830	17,465	13,628	R 1,101	R 39,42
October		1,872	2,868		R 5,962	R 1,930	17,030	R 14,149	R 1,288	R 40,45
November		1,841	2,897	2,078				14,040	1,242	41,98
December	1,810	1,990	2,764	2,078	6,614	1,801	18,280	•		
Average	1,696	1,863	2,869	1,851	5,692	1,814	17,679	13,600	1,189	39,85

<sup>&</sup>lt;sup>a</sup> Through December 1990, the data for Germany are for the former West Germany only. Beginning with January 1991, the data for Germany are for the unified Germany, i.e., the former East Germany and West Germany.

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

consists of Canada, Japan, the United States, "OECD Europe" and "Other OECD."

Notes: • Data through 1992 are final. Subsequent data are preliminary.

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.

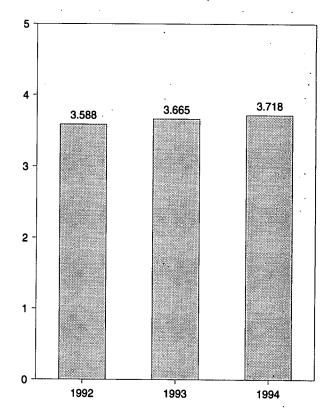
U.S. geographic coverage is the 50 States and the District of Columbia. • All Other Data: • United States: Table 3.1a. 1973-1979—International Energy Agency (IEA), Annual Oil and Gas Statistics of OECD Countries. 1980 forward—IEA, quarterly and monthly computer tapes supporting Quarterly Oil Statistics and Energy Balances.

Figure 10.4 Petroleum Stocks in OECD Countries (Billion Barrels)

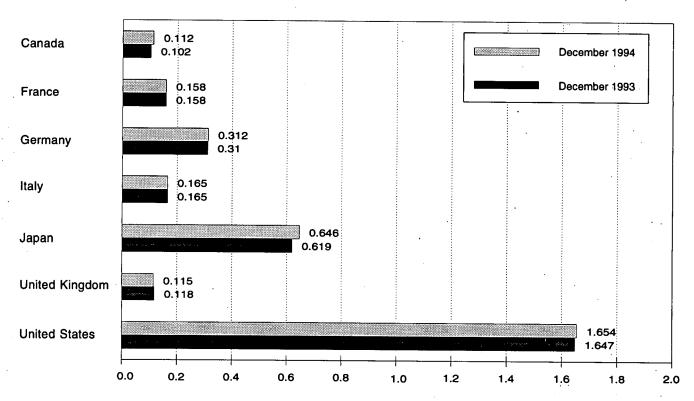
# Overview, End of Year, 1973-1994

# OECD United States OECD Europe 1974 1976 1978 1980 1982 1984 1986 1988 1990 1992 1994

# OECD Stocks, End of Month, December



# 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 <sup>a</sup>	italy	Japan	United Kingdom	United States	OECD Europe <sup>b</sup>	Other OECD <sup>c</sup>	OECDd
				I				4 000	4.070	67	2,588
973 <b>\</b>	/ear	140	201	181	152	303	156	1,008	1,070	67 64	
974	/ear	145	249	213	167	370	191	1,074	1,227	64	2,880
	/ear	174	225	187	143	375	165	1,133	1,154	67	2,903
	Year	153	234	208	143	380	165	1,112	1,205	68	2,918
	Year	167	239	225	161	409	148	1,312	1,268	68	3,224
	Year	144	201	238	154	413	157	1,278	1,219	68	3,122
		150	226	272	163	460	169	1,341	1,353	75	3,379
	Year	164	243	319	170	495	168	1,392	1,464	72	3,587
	Year	161	214	297	167	482	143	1,484	1,337	67	3,531
	Year		193	272	179	484	125	1,430	1,258	68	3,376
	Year	136		249	149	470	118	1,454	1,142	68	3,255
	Year	121	153			479	112	1,556	1,130	69	3,362
984	Year	128	152	239	159			1,519	1,092	66	3,284
985 '	Year	113	139	233	157	494	123		1,133	72	3,418
986	Year	111	127	252	155	509	124	1,593		72	3,474
987	Year	126	127	259	169	540	121	1,607	1,130		
	Year	116	140	266	155	538	112	1,597	1,118	71 71	3,440
-	Year	114	138	271	164	577	118	1,581	1,133	71	3,476
	Year	121	140	265	172	590	112	1,621	1,163	73	3,568
	Year	119	153	288	160	606	119	1,617	1,181	65	3,588
992	January	117	149	293	167	600	116	1,610	1,167	68	3,563
	February	111	145	303	172	595	118	1,588	1,180	66	3,541
	March	111	142	303	169	585	115	1,571	1,161	66	3,494
	April	111	140	307	165	578	115	1,583	1,171	62	3,504
		108	147	311	171	587	115	1,602	1,189	63	3,550
	May		147	307	166	583	114	1,603	1,190	69	3,556
	June	112			166	585	120	1,620	1,181	67	3,563
	July	110	146	299			117	1,621	1,210	69	3,616
	August	113	150	303	169	604			1,193	69	3,615
	September	110	148	299	165	607	112	1,636		69	3,630
	October	108	148	302	166	613	112	1,640	1,200		3,633
	November	110	149	306	172	610	115	1,636	1,206	71	
	December	107	146	310	174	603	113	1,592	1,219	67	3,588
993	January	108	162	319	173	615	120	1,618	1,250	68	3,660
	February	102	157	317	168	607	120	1,602	1,236	68	3,616
	March	103	155	312	165	594	120	1,590	1,220	66	3,574
	April	4.0.0	155	311	166	585	116	1,617	1,215	73	3,595
	May		162	320	172	593	117	1,650	1,227	68	3,644
	•		157	310	168	603	119	1,667	1,208	70	3,654
	June		156	313	169	618	115	1,682	1,207	70	3,690
	July		168	316	170	635	117	1,676	1,247	70	3,742
	August	114			162	648	115	1,665	1,237	77	3,735
	September		165	312		654	111	1,688	1,232	78	3,758
	October		167	318	162				1,219	78	3,734
	November	107	157	310	165	644	116	1,686	•		
	December	102	158	310	165	619	118	1,647	1,229	68	3,665
1994	January	102	165	322	166	618	118	1,620	R 1,249	69	R 3,658
	February		159	315	157	612	111	1,581	R 1,207	68	R 3,564
	March	102	152	307	154	603	110	1,578	<sup>R</sup> 1,182	72	<sup>R</sup> 3,537
	April	: : : :	152	310	159	612	108	1,585	1,187	73	3,564
			155	314	160	629	116	1,609	1,215	71	3,632
	May		161	308	157	631	112	1,616	1.218	70	3,648
	June			313	157	625	114	1,649	R 1,225	75	R 3.694
	July		159			634	116	1,656	R 1,243	74	R 3,723
	August		164	310	162				R 1,219	73	R 3,733
	September		159	305	155	647	114	1,677 `	1,218 R 1 004		R 3,754
	October	_ 119	164	307	160	658	111	1,669	R 1,234	74	80.704
	November	R 118	168	310	162	659	<sup>R</sup> 112	1,682	R 1,229	72	R 3,761
	December		158	312	165	646	115	1,654	1,238	69	3,718

<sup>&</sup>lt;sup>a</sup> 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.

Kingdom.

<sup>c</sup> "Other OECD" consists of Australia, New Zealand, and the U.S.

Territories

Territories.

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

R=Revised data.

Notes: • Petroleum stocks include crude oil (including strategic reserves), unfinished oils, natural gas plant liquids, and refined products. Petroleum stocks include all nonmilitary petroleum held for storage, regardless of

ownership, within each country in bulk terminals, refinery tanks, pipeline tankage, intercoastal tankers, tankers in port, and inland ship bunkers. Data exclude oil held in pipelines (except for those in the United States), rail and truck cars, sea-going ships' bunkers, service stations, retail stores, and tankers at sea. • In the United States in January 1975, 1981, and 1983, numerous respondents were added to bulk terminal and pipeline surveys, thereby affecting subsequent stocks reported. New-basis end-of-year U.S. stocks, in million barrels, would have been 1,121 in 1974, 1,425 in 1980, and 1,461 in 1982. • Data through 1992 are final. Subsequent data are preliminary. • Totals may not equal sum of components due to independent rounding. • U.S. geographic coverage is the 50 States and the District of Columbia.

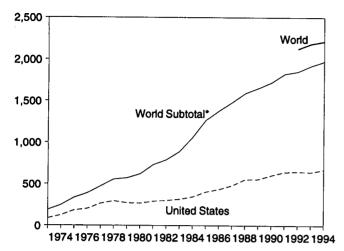
Sources: • United States: Table 3.1a. • All Other Data: International Energy Agency, quarterly and monthly computer tapes supporting Quarterly Oil Statistics and Energy Balances.

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.

#### Figure 10.5 Nuclear Electricity Gross Generation

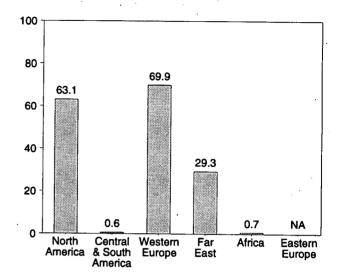
(Billion Kilowatthours)

#### U.S. and World, 1973-1994



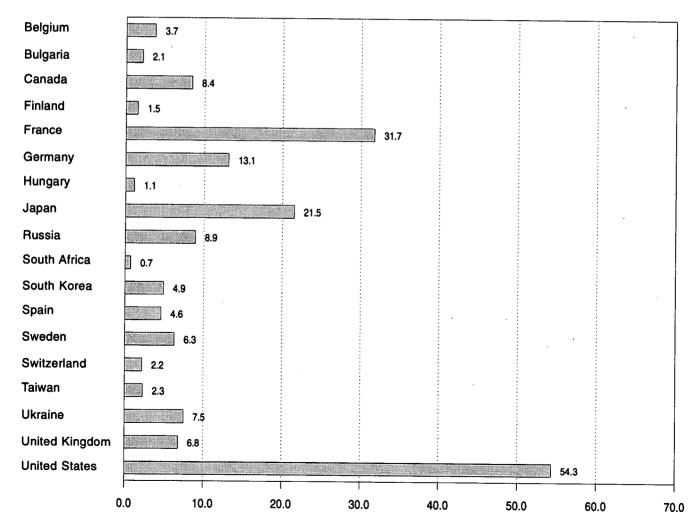
<sup>\*</sup>World excluding Eastern Europe.

#### By Region, February 1995



NA = Not available.

#### By Selected Country, February 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

974 Total		North America	Central and South America	Western Europe	Far East	Africa	Subtotal	Eastern Europe <sup>a</sup>	World
973 Total					40.0		100.2	NΔ	NΔ
974 Total	973 Total	103.1	-			-			
1975 Total	974 Total	139.7	1.0			_			
978 Total 219.8 2.6 126.2 40.3 - 368.9 NA NA PATTOTAL 290.8 1.6 148.1 31.5 - 472.0 NA NA PATTOTAL 325.4 2.9 166.9 60.6 - 555.7 NA NA NA PATTOTAL 325.4 2.9 166.9 60.6 - 555.7 NA NA NA PATTOTAL 325.4 2.9 166.9 60.6 - 557.7 NA NA NA PATTOTAL 331.6 2.8 293.4 102.9 - 730.9 NA NA NA PATTOTAL 331.8 2.8 293.4 102.9 - 730.9 NA NA NA PATTOTAL 331.8 2.8 293.4 102.9 - 730.9 NA NA NA PATTOTAL 331.8 2.8 293.4 102.9 - 730.9 NA NA NA PATTOTAL 331.8 123.6 - 788.5 NA NA NA NA PATTOTAL 331.8 123.6 - 788.5 NA NA NA PATTOTAL 366.6 3.6 377.2 140.1 - 788.5 NA NA NA PATTOTAL 366.6 3.6 377.2 140.1 - 788.5 NA NA NA PATTOTAL 366.6 3.6 377.2 140.1 - 788.5 NA NA NA PATTOTAL 366.6 3.6 377.2 140.1 - 788.5 NA NA NA PATTOTAL 366.6 3.6 377.2 140.1 - 788.5 NA NA NA PATTOTAL 366.6 3.6 377.2 140.1 - 788.5 NA NA NA PATTOTAL 366.6 3.6 377.2 140.1 - 788.5 NA NA NA PATTOTAL 366.6 3.6 377.2 140.1 - 788.5 NA NA NA PATTOTAL 366.6 3.6 377.2 140.1 - 788.5 NA NA NA PATTOTAL 366.6 3.6 377.2 223.8 9.3 1,376.9 NA NA NA PATTOTAL 366.1 NA NA NA NA PATTOTAL 366.1 NA NA NA PATTOTAL 366.1 NA	975 Total	195.5	2.5						
777 Total		219.8	2.6	126.2					
778 Total		290.8	1.6	148.1	31.5	-			
277 Total		325.4	2.9	166.9	60.6	-			
1987 total   305.8   2.3   214.2   97.4   - 619.8   NA   NA   NA   NA   NA   NA   NA   N	=			184.3	74.7	_	570.7		
331.8 2.8 293.4 102.9 - 730.9 NA				214.2	97.4	_	619.8		
341 2 1.9 321.8 123.6 - 788.5 NA				293.4	102.9	_	730.9	NA	
18						_	788.5	NA	NA
983 Iolal						_	887.5	NA	NA
984   Iola						4.2		NA	NA
985 Total								NA	NA
986 Total									NA
987 Total									
998 Total									
999 Total 681.3 9.4 738.6 284.3 8.9 1,722.5 NA NA NA 991 Total 733.4 9.2 769.7 303.3 9.7 1,825.2 NA NA NA 991 Total 733.4 9.2 769.7 303.3 9.7 1,825.2 NA NA NA 991 Total 735.2 8.8 783.9 315.2 9.9 1,852.9 E271.5 E2,124.  993 January 70.5 8.8 78.9 28.1 6 178.9 NA	988 Total								
990 Total	989 Total	640.2							
991 Total 733.4 9.2 799.7 350.5 1,852.9 E 271.5 E 2,124.  992 Total 735.2 8.8 78.9 28.1 6 176.9 NA NA NA February 61.5 6 72.6 25.3 6 160.6 NA NA NA NA March 57.7 6 76.3 26.9 5 162.1 NA NA NA March 55.2 7 68.6 25.6 6 148.7 NA NA NA May 60.0 7 60.1 E 25.9 8 E 147.5 NA NA NA NA July 68.6 7 60.7 60.7 625.0 5 E 151.0 NA NA NA NA July 68.6 7 7 60.8 6 131.8 1.0 6 163.1 NA		681.3	9.4						
993 January 70.5 8.8 78.9 28.1 6. 178.9 NA NA Pebruary 61.5 6. 72.6 25.3 6. 160.6 NA NA NA Pebruary 61.5 6. 76.3 26.9 5. 162.1 NA NA NA April 53.2 7. 68.6 25.6 6. 148.7 NA	991 Total	733.4	9.2	769.7					FO 404
993 January 70.5		735.2	8.8	783.9	315.2	9.9	1,852.9	- 271.5	- 2,124.
February 61.5	003 lanuary	70.5	.8	78.9	28.1	.6			
March 57.7 6 76.3 26.9 5 162.1 NA NA NA April 53.2 7 68.6 25.6 6 148.7 NA NA NA April 53.2 7 68.6 25.6 6 148.7 NA				72.6	25.3	.6	160.6		
March						.5	162.1	NA	NA
May 60.0 7 60.1 E 25.9 8 E 147.5 NA NA NA June 63.0 7 60.7 E 26.0 5 E 151.0 NA NA NA NA June 63.0 7 60.7 60.7 E 26.0 5 E 151.0 NA NA NA NA June 68.6 7 60.8 E 31.8 1.0 E 163.1 NA NA NA NA NA NA NA MA							148.7	NA	NA
May							E 147.5	NA	NA
June 63.0 .7 60.8 E31.8 1.0 E163.1 NA NA NA August 68.6 .7 60.8 E31.8 1.0 E163.1 NA NA NA August 68.5 .7 57.9 E33.3 .9 E161.2 NA NA NA NA September 60.8 .7 63.9 E28.5 .5 E154.4 NA NA NA NA October 55.8 .4 65.7 E28.5 .4 E150.7 NA	•								NA
July 68.6 7 57.9 E 33.3 9 E 161.2 NA NA NA September 60.8 7 63.9 E 28.5 .5 E 154.4 NA									NA
August 68.5 .7 .97.9 .83.3 .5 .6154.4 NA NA NA October 55.8 .4 .65.7 .63.9 .628.5 .5 .6150.7 NA	July		. <u>/</u>						
September   Scient   Scient	August								
October         57.7         6         70.6         E27.9         4         E157.2         NA         NA           November         57.7         6         70.6         E30.0         8         E178.1         NA         NA         NA           Total         744.6         8.1         817.0         E345.2         7.7         E1,922.7         E263.0         E2,185           994 January         69.5         .7         76.3         E28.6         .9         E176.0         NA         NA           February         61.3         .7         67.5         E25.0         .8         E155.2         NA         NA           March         61.8         .7         70.3         E27.0         .8         E160.5         NA         NA           April         55.0         .7         66.8         E28.3         1.0         E151.8         NA         NA           May         60.3         .7         66.2         E28.2         1.3         E150.7         NA         NA           Jule         .63.6         .7         59.9         E28.0         1.1         E163.3         NA         NA           Jule         .7         .7 <t< td=""><td>September</td><td></td><td></td><td></td><td>28.5</td><td></td><td></td><td></td><td></td></t<>	September				28.5				
November 57.7	October	55.8			28.5				
December 55.5 .7 744.6 8.1 817.0 E 345.2 7.7 E 1,922.7 E 263.0 E 2,185  1994 January 69.5 .7 76.3 E 28.6 .9 E 176.0 NA NA February 61.3 .7 67.5 E 25.0 .8 E 155.2 NA NA March 61.8 .7 70.3 E 27.0 .8 E 160.5 NA NA April 55.0 .7 66.8 E 28.3 1.0 E 151.8 NA NA May 60.3 .7 60.2 E 28.2 1.3 E 150.7 NA NA June 63.6 .7 59.9 E 28.0 1.1 E 153.3 NA NA June 63.6 .7 60.2 E 33.6 1.1 E 167.7 NA NA August 72.1 .7 60.2 E 33.6 1.1 E 167.7 NA NA August 73.3 .7 62.6 E 36.2 .9 E 173.8 NA NA September 67.6 .5 66.9 E 29.6 .4 E 165.0 NA NA October 62.5 .7 70.0 E 28.6 .5 E 162.3 NA NA NOvember 67.4 .7 72.6 E 28.5 .6 E 169.8 NA NA December 72.9 .7 82.4 E 30.9 .8 E 187.7 NA NA Total 787.3 8.2 815.5 E 355.1 10.3 E 1,976.4 E 237.3 E 2,213	November	57.7							
Total         744.6         8.1         817.0         = 345.2         7.7         = 1,922.7         = 283.0         = 2,189           994 January         69.5         .7         76.3         = 28.6         .9         = 176.0         NA         NA           February         61.3         .7         67.5         = 25.0         .8         = 155.2         NA         NA           March         61.8         .7         70.3         = 27.0         .8         = 160.5         NA         NA           April         .55.0         .7         66.8         = 28.3         1.0         = 151.8         NA         NA           April         .55.0         .7         66.8         = 28.3         1.0         = 151.8         NA         NA           May         .60.3         .7         60.2         = 28.2         1.3         = 150.7         NA         NA           June         .63.6         .7         59.9         = 28.0         1.1         = 153.3         NA         NA           July         .72.1         .7         60.2         = 33.6         1.1         = 167.7         NA         NA           August         .73.3         .7	December	65.5	.7						FOAGE
February 61.3 7 67.5 E25.0 8 E155.2 NA NA NA NA March 61.8 7 70.3 E27.0 8 E160.5 NA NA NA April 55.0 7 66.8 E28.3 1.0 E151.8 NA NA NA May 60.3 7 60.2 E28.2 1.3 E150.7 NA NA NA June 63.6 7 59.9 E28.0 1.1 E167.7 NA NA NA June 72.1 7 60.2 E33.6 1.1 E167.7 NA NA NA September 67.6 5 66.9 E29.6 4 E165.0 NA NA NA September 67.6 5 66.9 E29.6 4 E165.0 NA NA NA NA NA October 67.4 7 72.6 E28.5 6 E162.3 NA		744.6	8.1	817.0	⁴ 345.2	7.7	<sup>2</sup> 1,922.7	263.0	- 2,185.
February 61.3 7 67.5 E25.0 8 E155.2 NA NA NA March 61.8 7 70.3 E27.0 8 E160.5 NA NA NA April 55.0 7 66.8 E28.3 1.0 E151.8 NA NA NA May 60.3 7 60.2 E28.2 1.3 E150.7 NA NA NA June 63.6 7 59.9 E28.0 1.1 E153.3 NA NA NA June 72.1 7 60.2 E33.6 1.1 E167.7 NA NA NA August 73.3 7 62.6 E36.2 9 E173.8 NA NA NA September 67.6 5 66.9 E29.6 4 E165.0 NA NA NA October 67.4 7 70.0 E28.6 5 E162.3 NA	994 January	69.5	.7	76.3					
March 61.8				67.5	E 25.0	.8			
April 55.0 .7 66.8 E28.3 1.0 E151.8 NA	•					.8	E 160.5	NA	NA
April 30.0					E 28.3	1.0		NA	
May					E 28.2			NA	NA
June	•							NA	NA
August 73.3 7 62.6 E 36.2 9 E 173.8 NA NA NA September 67.6 .5 66.9 E 29.6 .4 E 165.0 NA NA NA October 62.5 .7 70.0 E 28.6 .5 E 162.3 NA									NA
November									
September							E 165 0		
November 67.4 .7 72.6 E 28.5 .6 E 169.8 NA NA December 72.9 .7 82.4 E 30.9 .8 E 187.7 NA NA Total 787.3 8.2 815.5 E 355.1 10.3 E 1,976.4 E 237.3 E 2,213    995 January 75.7 E 7 81.4 RE 31.2 1.0 RE 190.0 NA NA February 63.1 E 6 E 69.9 E 29.3 .7 E 163.7 NA NA NA 2-Month Total 138.8 E 1.4 E 151.3 E 60.6 1.7 E 353.7 NA	September						E 160.0		
November 72.9 .7 82.4 E30.9 .8 E187.7 NA NA NA Total 787.3 8.2 815.5 E355.1 10.3 E1,976.4 E237.3 E2,213 P95 January 75.7 E.7 81.4 RE31.2 1.0 RE190.0 NA NA February 63.1 E.6 E69.9 E29.3 .7 E163.7 NA NA 2-Month Total 138.8 E1.4 E151.3 E60.6 1.7 E353.7 NA NA NA P594 2-Month Total 130.8 1.4 143.8 53.6 1.6 331.2 NA									
Total	November								
1995 January	December	72.9							
February	Total	787.3	8.2	815.5	<sup>E</sup> 355.1	10.3	- 1,976.4	- 237.3	- 2,213
February	1995 January	75.7	€.7						NA
2-Month Total			<sup>E</sup> .6	<sup>E</sup> 69.9		.7			NA
1994 2-Month Total 130.6 1.4 143.5 50.6 1.2 220.5 NA NA			E 1.4	E 151.3	E 60.6	1.7	E 353.7	NA	NA
1994 2-MONTH TOTAL 130.0 NA NA	1004 0 Marth Total	120.0	1.4	143.8	53.6	1.6	331.2	NA	NA
	1994 2-Month Total 1993 2-Month Total	130.6	1.4	151.4	53.4	1.3	339.5		NA

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

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.

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

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

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

•	Canada	Mexico	United States	North America	Aumanat-b	0	Central and
<u> </u>	- Curiadu	MICAICO	Officed States	North America	Argentina	Brazil	South Americ
1973 Total	15.3	-	87.8	103.1	_	_	·
1974 Total	15.4	_	124.3	139.7	1.0	_	-
1975 Total	13.2	_	182.3	195.5	2.5	-	1.0
1976 Total	18.0	_	201.8	219.8		. <del>-</del>	2.5
1977 Total	26.6	_	264.2		2.6	-	2.6
1978 Total	33.0	_	294.2 292.4	290.8	1.6	-	1.6
1979 Total	38.4	_		325.4	2.9	-	2.9
1980 Total	30.4 40.4	_	270.6	309.0	2.7	-	2.7
1990 Total		_	265.4	305.8	2.3	-	2.3
1981 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
1983 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
1985 Total	62.9	_	402.7	465.6	5.8	3.4	9.1
1986 Total	74.6	_	434.1	508.8	5.7	.1	5.8
987 Total	80.6	-	479.5	560.1	5.2	1.0	6.2
1988 Total	85.6	_	554.1	639.7	5.1		
1989 Total	83.2	_	557.0	640.2	5.0	.3	5.5
990 Total	75.8	2.1	603.4			1.6	6.6
1991 Total	86.1	4.2	643.0	681.3	7.4	2.0	9.4
1992 Total	81.3			733.4	7.7	1.4	9.2
332 TOTAL	01.3	3.9	650.0	735.2	7.1	1.8	8.8
993 January	8.2	.5	61.8	70.5	.6	.2	.8
February	7.4	.3	53.7	61.5	.4	.2	.6 .6
March	7.8	.1	49.8	57.7	.6	.2 (s)	
April	7.3	.5	45.4	53.2	.0 .7		. <u>6</u>
May	6.7	.5	52.8	60.0	.7 .7	0	.7
June	7.1	.5	55.4	63.0		.0	.7
July	9.3	.5	58.9		.7	.0	.7
August	9.1	.5 .5		68.6	.7	.0	.7
September	7.9	.5 .5	58.9	68.5	.7	.0	.7
October	7.5 8.5		52.5	60.8	.7	.0	.7
November	8.2	4	46.9	55.8	.4	.0	.4
		.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
994 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 .7		•••
April	9.1	.4	45.4	55.0		.0	. <u>7</u>
May	8.8	.4	51.1	60.3	.7	.0	.7
June	8.7	.5	54.5	· · <del>-</del>	.7	.0	.7
July	9.5	.5 .5		63.6	.7	.0	.7
August	9.5 9.7		62.2	72.1	.7	.0	.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
995 January	9.0	.3	66.4	75.7	.7	E.0	F
February	8.4	.3 .4	54.3			0	E.7
2-Month Total	17.4	.4 .8	54.3 120.6	63.1 1 <b>38.8</b>	.6 1.4	E.0	<sup>E</sup> .6 <sup>E</sup> 1.4
004.0 Manuals Tabel	40.5				1.7	.0	- 1.4
994 2-Month Total 993 2-Month Total	18.8 15.6	.2 .8	111.8	130.8	1.4	.0	1.4
monun i olai	13.0	.8	115.5	132.0	1.0	.4	1.4

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

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

Table 10.4c Nuclear Electricity Gross Generation: Western Europe

	Belgium	Finland	France	Germanya	Italy <sup>b</sup>	Netherlands	Spain	Sweden	Switzerland	United Kingdom <sup>c</sup>	Western Europe
4070 T-4-1	0.0		14.7	11.9	3.1	1.1	6.5	2.1	6.2	28.2	73.9
1973 Total	.1	_	14.7	12.0	3.4	3.3	7.2	2.3	7.0	33.8	83.9
1974 Total	6.8	_	18.3	21.7	3.8	3.3	7.5	12.0	7.7	30.5	111.7
1975 Total	10.0	_	15.8	24.5	3.8	3.9	7.6	16.0	7.9	36.8	126.2
1976 Total	11.9	2.7	17.9	36.0	3.4	3.7	6.5	19.9	8.1	38.1	148.1
1977 Total	12.5	3.3	30.6	35.7	4.5	4.1	7.6	23.8	8.3	36.6	166.9
1978 Total	11.4	6.7	39.9	42.2	2.6	3.5	6.7	21.0	11.8	38.5	184.3
1979 Total	12.5	7.0	61.2	43.7	2.2	4.2	5.2	26.7	14.3	37.2	214.2
1980 Total	12.5	7.0 14.5	105.2	53.4	2.7	3.7	9.4	37.7	15.2	38.9	293.4
1981 Total	15.6	16.5	103.2	63.4	6.8	3.9	8.8	38.8	15.0	44.1	321.8
1982 Total		17.4	144.2	65. <del>4</del>	5.8	3.6	10.7	40.4	15.5	49.6	377.2
1983 Total	24.1 27.7	17.4	191.2	92.6	6.9	3.8	23.1	51.3	16.3	54.1	485.4
1984 Total		18.8	224.0	125.8	7.0	3.9	28.0	58.6	22.4	59.7	582.8
1985 Total	34.5 38.6	18.8	254.3	118.9	8.7	4.2	37.5	69.9	22.5	58.2	631.5
1986 Total	36.6 41.9	19.4	265.5	130.2	.2	3.6	41.2	67.2	23.0	56.2	648.3
1987 Total		19.4	274.9	145.2	.0	3.7	50.4	69.4	22.7	59.4	688.1
1988 Total	43.1 41.2	18.8	302.5	149.6	.0 .0	4.0	56.1	65.6	22.8	71.6	732.2
1989 Total	41.2 42.7	18.9	314.1	145.0	.0	3.4	54.3	68.2	23.6	66.1	738.6
1990 Total	42.7	19.2	331.4	147.3	.0	3.3	55.6	76.8	22.9	70.4	769.7
1991 Total	43.5	19.0	337.6	158.8	.0	3.8	55.8	63.5	23.4	78.5	783.9
1993 January	4.3	1.8	36.3	15.1	.0	.4	5.4	5.8	2.3	7.6	78.9
February	3.7	1.6	32.7	13.9	.0	.3	4.3	5.9	2.1	7.9	72.6
. March	3.4	1.8	34.3	14.2	.0	.1	4.9	7.1	2.3	8.3	76.3
April	3.3	1.7	30.5	12.4	.0	.1	4.2	6.6	2.0	7.7	68.6
May	3.1	1.3	26.9	11.8	.0	.4	4.1	4.6	1.9	6.0	60.1
June	3.0	1.6	25.4	12.0	.0	.4	4.4	4.7	1.2	8.2	60.7
July	3.2	1.8	26.9	12.3	.0	.4	5.0	3.1	1.8	6.4	60.8
August	3.4	1.5	25.9	11.1	.0	.4	5.1	3.2	1.1	6.1	57.9
September	3.4	1.3	28.8	11.2	.0	.4	4.6	4.1	1.7	8.4	63.9
October	3.2	1.8	29.1	12.6	.0	.4	4.7	4.7	2.2	6.9	65.7
November	3.7	1.7	33.7	12.6	.0	.4	4.2	5.3	2.3	6.7	70.6
December	4.3	1.8	36.2	14.3	.0	.4	5.2	6.3	2.4	10.2	81.0
Total	41.9	19.6	366.7	153.5	.0	3.9	56.1	61.4	23.3	90.4	817.0
1994 January	4.3	1.8	34.1	13.8	.0	.4	5.1	6.9	2.4	7.6 6.6	76.3 67.5
February	3.5	1.6	30.8	12.1	.0	.1	4.1	6.7	2.1		70.3
March	3.6	1.8	30.5	12.7	.0	.1	4.1	7.2	2.3	7.9	66.8
April	3.3	1.7	28.6	12.0	.0	.4	4.3	6.9	2.3	7.3	60.2
May	2.8	1.1	25.3	11.2	.0	.4 .4	4.7	5.6 4.3	2.0 1.4	7.2 8.5	59.9
June	2.4	1.6	25.5	11.8	.0		4.1		1.5		60.2
July	2.6	1.5	28.0	10.6	.0	.4	4.8 5.3	4.4 4.5	1.2	6.5 7.0	62.6
August	3.3	1.4	28.1	11.5	.0	.4 .3	5.3 5.1	4.5 5.5	1.2 2.1	7.0 8.3	66.9
September	3.2	1.4	28.7	12.3	.0	.3 .4		5.5 6.7	2.4	6.5	70.0
October	3.5	1.8	30.8	13.7	.0	.4 .4	4.1 4.2	6.7 7.1	2.4	7.1	70.0 72.6
November	4.0	1.7	31.7 37.1	14.1	.0 .0	.4 .4	4.2 5.3	7.1 7.0	2.3 2.4	8.8	82.4
Total	4.3 <b>40.6</b>	1.8 <b>19.1</b>	359.1	15.2 <b>151.1</b>	.0	4.0	55.1	72.8	24.2	89.5	815.5
1995 January	4.2	1.6	38.7	15.2	.0	.3	5.4	7.2	2.4	_ 6.4	_81.4
February	3.7	1.5	31.7	13.1	.0	(s)	4.6	<sup>E</sup> 6.3	2.2	E 6.8	_ <sup>E</sup> 69.9
2-Month Total	7.9	3.1	70.4	28.3	.0	.4	9.9	E 13.5	4.6	<sup>E</sup> 13.2	E 151.3
1994 2-Month Total	7.8	3.4	64.8	25.8	.0	. <u>4</u>	9.2	13.6	4.4	14.2	143.8
1993 2-Month Total	8.0	3.4	69.0	29.0	.0	.7	9.8	11.7	4.4	15.5	151.4

<sup>&</sup>lt;sup>a</sup> 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.

<sup>c</sup> Monthly data for the United Kingdom are totals for 4- or 5-week reporting

periods, not calendar months.

<sup>- =</sup>Not applicable.

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

	China <sup>a</sup>	India	Japan	Pakistan	South Korea	Taiwan	Far East	South Africa <sup>b</sup>
072 Total	_	0.5						·
973 Total	_	2.5	9.4	0.5	-	-	12.3	-
974 Total	-	1.9	18.9	.6	-	_	21.4	-
975 Total	_	2.5	21.3	.5	-	_	24.4	_
976 Total	-	3.2	36.6	.5	-	_	40.3	_
977 Total	-	2.8	28.2	.3	0.1	0.1	31.5	_
978 Total	-	2.3	53.1	.2	2.3	2.7	60.6	_
979 Total	-	3.2	62.0	(s)	3.2	6.3	74.7	_
980 Total	-	2.9	82.8	.1	3.5	8.2	97.4	_
981 Total	-	3.1	86.0	.2	2.9	10.7	102.9	_
982 Total	-	2.2	104.5	.1	3.8	13.1	123.6	_
983 Total	_	2.9	109.1	.2	9.0	18.9	140.1	_
984 Total	-	4.1	127.2	.3	11.8	24.3	167.7	4.2
985 Total	<u>-</u>	4.5	152.0	.3	16.5	28.7	202.0	5.9
986 Total	_	5.1	164.8	.5	26.1	26.9	223.6	9.3
987 Total	_	5.5	182.8	.3	37.8	33.1	259.5	
988 Total	_	6.1	173.6	.2	38.7	29.9		6.6
989 Total	_	4.0	183.7	.1	47.2		248.5	11.1
990 Total	_	6.3	191.9	.4		28.3	263.4	11.7
991 Total		5.4			52.8	32.9	284.3	8.9
992 Total	_	6.3	205.8	.4	56.3	35.3	303.3	9.7
932 TOTAL	_	0.3	218.0	.6	56.4	33.8	315.2	9.9
993 January	_	.7	19.5	(s)	4.8	3.0	28.1	.6
February	_	.6	17.4	.í	4.5	2.7	25.3	.6
March	_	.6	18.9	.1	4.6	2.8	26.9	.5
April	_	.2	17.6		4.8	2.8	25.6	.5 .6
May	NA	.4	17.4	(s)	5.3	2.7	E 25.9	
June	NA	.5	17.9	(s)	5.1	2.6	E 26.0	.8
July	NA.	.7	22.3	.1	5.1 5.5			.5
August	NA.	.5	24.2			3.4	E 31.8	1.0
September	NA NA	.5 .4		(s)	4.9	3.6	E 33.3	.9
October	NA NA	. <del>4</del> .5	20.5	<u>,1</u>	4.6	2.9	<sup>E</sup> 28.5	.5
November	NA NA	.5 .5	20.6	(s)	4.6	2.8	<u>E</u> 28.5	.4
			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	<sup>E</sup> 345.2	7.7
994 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	
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	.8
May	NA	.5	19.8	.1	4.9	2.9	E 28.2	1.0
June	NA	.5	19.4	.1				1.3
July	NA NA	.4	24.3		5.0	2.9	E 28.0	1.1
August	NA NA	. <del>4</del> .5	24.3 26.9	(s)	5.5	3.3	E 33.6	1.1
September	NA NA	.5 .3		(s)	5.3	3.5	E 36.2	.9
October	NA NA	.3 .3	21.7	(s)	4.8	2.9	E 29.6	.4
			20.5	.1	5.0	2.8	E 28.6	.5
November	NA	.5	20.6	(s)	4.7	2.7	<sup>E</sup> 28.5	.6
December	NA <sup>E</sup> <b>2.6</b>	.6	23.1	.1	4.3	2.9	_ <sup>E</sup> 30.9	.8
Total	- <b>2.</b> 0	5.0	253.8	.6	58.3	34.8	E 355.1	10.3
95 January	NA	.7	23.1	(s)	<sup>R</sup> 4.8	R 2.5	<sup>RE</sup> 31.2	1.0
February	NA	.5	21.5	(s)	4.9	2.3	E 29.3	.7
2-Month Total	NA	1.2	44.6	.1	9.8	4.9	E 60.6	., 1,7
94 2-Month Total	NA	.7	38.3	.1	• •			
		,	TH T	- 1	9.1	5.3	53.6	1.6

<sup>&</sup>lt;sup>a</sup> The total gross generation estimate for 1993 and 1994 for China is calculated as 5 percent more than the annual net nuclear generation reported by the International Atomic Energy Agency (IAEA) and is published in *Nuclear Power Reactors in the World April* 1994

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.

Power Reactors in the World, April 1994.

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

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

(s)=Less than 0.05 billion kilowatthours.

Table 10.4e Nuclear Electricity Gross Generation: Eastern Europe

	Bulgaria	Czech Republic <sup>a</sup>	Hungary	Kazakhstan <sup>a</sup>	Lithuania <sup>a</sup>	Romania <sup>b</sup>	Russia	Slovakia <sup>a</sup>	Slovenia	Ukraine	Eastern Europe <sup>c</sup>
1973 Total	_	_	_	NA	_	_	NA	NA	_	_	NA
1974 Total	NA	_	· _	NA	_	_	NA	NA	_	_	NA
1975 Total	NA	_	_	NA	_	-	NA	NA	_	_	NA
1976 Total	NA	_	_	NA	_	_	NA	NA	_	-	NA
1977 Total	NA	_	-	NA	_	_	NA	NA	_	-	NA
1978 Total	NA	_	_	NA	_	_	NA	NA	_	NA	NA
1979 Total	NA	_	_	NA	_	_	NA	NA	_	NA	NA
1980 Total	NA	_	_	NA.	_	_	NA	NA	_	NA	NA
1981 Total	NA	_	_	NA	_	_	NA	NA	_	NA	NA
1982 Total	NA	_	_	NA.	_	_	NA	NA	_	NA	NA
1983 Total	NA	_	NA	NA.	_	_	NA	NA	NA	NA	NA
1984 Total	NA	_	NA	NA	_	_	NA	NA	NA	NA	NA
1985 Total	NA	NA	NA	NA.	NA	_	NA	NA	NA	NA	NA
1986 Total	NA NA	NA	NA	NA NA	NA	_	NA	NA	NA	NA	NA
1987 Total	NA	NA	NA	NA NA	NA	_	NA	NA	NA	NA	NA
1988 Total	NA NA	NA	NA	NA NA	NA	_	NA	NA	NA	NA	NA
1989 Total	NA	NA	NA	NA NA	NA	_	NA	NA	NA	NA	NA
1990 Total	NA	NA	NA	NA	NA	_	NA	NA	NA	NA	NA
1991 Total		NA	NA	NA	NA	_	NA	NA	NA	NA	NA
1992 Total	_	E 12.9	E 13.8	E.5	E 16.4	-	<sup>E</sup> 125.6	<sup>E</sup> 11.7	<sup>E</sup> 4.0	<sup>E</sup> 74.6	<sup>E</sup> 271.5
1993 January	E 1.5	NA	1.4	NA	NA	-	11.0	NA	.5	E 7.8	NA
February	<sup>E</sup> 1.5	NA	1.2	NA	NA	-	9.8	NA	.4	<sup>E</sup> 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	.4	6.0	NA
September	1.1	.9	1.0	NA	NA	-	9.3	NA	.5	5.1	NA
October	.6	.9	1.2	NA	NA	-	9.7	NA	.5	5.3	NA
November	.9	1.0	1.3	NA	NA	-	10.4	NA	.4	5.3	NA
December	1.6	9	1.4	ŅΑ	NA	-	11.9	_ NA	.3	6.3	NA .
Total	14.0	E 13.2	13.8	<sup>E</sup> .4	<sup>E</sup> 12.9	-	120.4	E 11.6	4.0	E 72.7	E 263.0
1994 January		1.2	1.4	NA	NA	-	11.0	NA	.3	7.6	NA NA
February		1.2	1.2	NA NA	NA	-	10.0	NA NA	.4 .4	6.7 6.5	NA NA
March		1.3	1.2	NA	NA	_	9.5	NA			
April		1.3	1.0	NA NA	NA NA	-	8.0 7.5	NA NA	.5 .5	5.8 6.2	NA NA
May	_	1.3	1.0	NA NA	NA NA	-			.5 .5	5.8	NA NA
June		1.3	1.0	NA NA	NA NA		7.0	NA NA	.5 .4	3.6 3.7	NA NA
July	_	1.3	1.1	NA NA	NA NA	-	7.2	NA NA	.4 .3	3.7 2.9	NA NA
August		NA	1.0	NA NA	NA NA	_	6.0 6.5	NA NA	.3 (s)	2.9 3.6	NA NA
September		NA	1.0	NA NA	NA NA	_	6.5 7.5	NA NA	(S) .4	5.6 5.4	NA NA
October		NA	1.3	NA NA	NA NA	_	7.5 8.4	NA NA	. <del>4</del> .5	5.4 6.7	NA NA
November		NA	1.3 1.4	NA NA	NA NA	_	9.2	NA NA	.5 .5	7.4	NA NA
December Total		NA <sup>E</sup> 13.2	14.0	E.4	E 12.9	_	97.7	E 11.6	4.6	68.4	E 237.3
1995 January	2.2	NA	1.4	NA	NA	_	10.7	NA	.5	8.5	NA
February		NA	1.1	NA	NA	_	8.9	NA	.4	7.5	NA
2-Month Total		NA	2.5	NA	NA	-	19.5	NA	.9	16.0	NA
1994 2-Month Total		2.4	2.6	NA	NA	-	21.0	NA	.7	14.4	NA
1993 2-Month Total	3.0	NA	2.6	NA	NA	-	20.9	NA	.9	15.7	NA

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

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

Notes: • Armenia has two nuclear generating units under construction.

The earliest commercial operation for one unit is projected to be in 2000.

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

the World, April 1994.

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

<sup>&</sup>lt;sup>c</sup> 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.

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. Monthly Data: Petroleum Intelligence Weekly, the Oil and Gas Journal, and other industry sources.
- World: Annual Data: 1973-1979—EIA, International Energy Annual 1981, Table 8. 1980—EIA, International Energy Annual 1989, Table 1. 1981—EIA, International Energy Annual 1990, Table 1. 1982—EIA, International Energy Annual 1991, Table 1. 1983-1992—EIA, International Energy Annual 1992, Table 1. 1993—EIA, International Energy Annual 1993, Table 2.2. 1994—Average of monthly data. Monthly Data: EIA, International Petroleum Statistics Report, sum of all countries' monthly data.

## **Appendix A. Thermal Conversion Factors**

The thermal conversion factors presented in the following eight tables can be used to estimate the heat content in British thermal units (Btu) of a given amount of energy measured in physical units, such as barrels or cubic feet. For example, 10 barrels of asphalt have a heat content of approximately 66.36 million Btu (10 barrels x 6.636 million Btu/barrel = 66.36 million Btu).

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

the thermal conversion factor for butane is weighted 1.5 times more heavily than the thermal conversion factor for propane.

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

Table A1. Approximate Heat Content of Petroleum Products
(Million Btu per Barrel)

Petroleum Product	Heat Content	Petroleum Product	Heat Content
Asphalt	5.048 4.326 4.130 5.825 3.082 3.308 3.974 5.670 5.355 5.670 6.065 5.253 4.620	Petrochemical Feedstocks Naphtha Less Than 401° F Other Oils Equal to or Greater Than 401° F Still Gas Petroleum Coke Plant Condensate Propane Residual Fuel Oil Road Oil Special Naphthas Still Gas Unfinished Oils Unfractionated Stream Waxes Miscellaneous	5.825 6.000 6.024 5.418 3.836 6.287 6.636 5.248 6.000 5.825 5.418 5.537

<sup>&</sup>lt;sup>a</sup> 60 percent butane and 40 percent propane.

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

<sup>&</sup>lt;sup>b</sup> 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
973	5.800	5.817	5.800	5.897	5.752	4.049
974	5.800	5.827	5.800	5.884	5.774	4.011
975	5.800	5.821	5.800	5.858	5.748	3.984
976	5.800	5.808	5.800	5.856	5.745	3.964
977	5.800	5.810	5.800	5.834	5.797	3.941
978	5.800	5.802	5.800	5.839	5.808	3.925
979	5.800	5.810	5.800	5.810	5.832	3.955
980	5.800	5.812	5.800	5.796	5.820	3.914
981	5.800	5.818	5.800	5.775	5.821	3.930
982	5.800	5.826	5.800	5.775	5.820	3.872
983	5.800	5.825	5.800	5.774	5.800	3.839
984	5.800	5.823	5.800	5.745	5.850	3.812
985	5.800	5.832	5.800	5.736	5.814	3.815
986	5.800	5.903	5.800	5.808	5.832	3.797
987	5.800	5.901	5.800	5.820	5.858	3.804
988	5.800	5.900	5.800	5.820	5.840	3.800
989	5.800	5.906	5.800	5.833	5.857	3.826
990	5.800	5.934	5.800	5.849	5.833	3.822
991	5.800	5.948	5.800	5.873	5.823	3.807
992	5.800	5.953	5.800	5.877	5.777	3.804
993	5.800	5.954	5.800	5.883	5.779	3.801
994 <sup>a</sup>	5.800	5.951	5.800	5.863	5.773 5.781	3.794
995 <sup>a</sup>	5.800	5.951	5.800	5.863	5.781	3.794

a Preliminary.

Note: Crude oil includes lease condensate.

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

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

			Consumption					
	Residential and Commercial	Industrial	Transportation	Electric Utilities	Total	Imports	Exports	LPG Consumption
1973	5.387	5.568	5.395	6.245	5.515	5.983	5.752	3,746
1974	5.377	5.538	5.394	6.238	5.504	5.959	5.773	3.730
1975	5.358	5.528	5.392	6.250	5.494	5.935	5.747	3.715
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
979	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
991	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	<sup>R</sup> 5.148	5.200	5.438	6.241	5.379	5.620	5.777	3.606
994ª	5.122	5.181	5.441	6.231	5.370	5.538	5.779	3.635
995 <sup>a</sup>	5.122	5.181	5.441	6.231	5.370	5.538	5.779	3.635

<sup>&</sup>lt;sup>a</sup> Preliminary.

R=Revised data.

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	luction		Consumption			
r ·	Dry	Marketed (Wet)	Sectors Other Than Electric Utilities	Electric Utilities	Total	Imports	Exports
973	1,021	1.093	1,020	1.024	1,021	1,026	1,023
974	1,024	1,097	1,024	1.022	1,021	1,027	1,025
975	1,021	1,095	1,020	1,026	1,024	1,026	1,014
976	1,020	1,093	1,020	1,023	1,020	1,025	1,014
977	1,021	1,093	1,019	1,029	1,020	1,026	1,013
978	1,019	1,088	1,016	1,034	1,019	1,030	1,013
979	1,021	1.092	1,018	1,035	1,019	1,030	1,013
980	1,026	1,098	1,024	1,035	1,026	1,022	1,013
981	1,027	1,103	1,025	1.035	1,027	1,014	1,013
982	1,028	1,107	1,026	1,036	1,028	1,014	1,011
983	1,031	1,115	1,031	1,030	1,031	1,018	1,010
984	1,031	1,113	1,030	1,035	1,031	1,005	1,010
985	1,032	1,112	1,030	1,038	1,031	1,003	1,010
986	1,030	1,110	1,029	1,034	1,032	997	1,008
987	1,031	1,112	1,023	1,034	1,030	999	1,000
988	1,029	1,112	1,029	1,032	1,031	1,002	1,018
989	1,031	1,107	1,031	1,030	1,029	1,002	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	1,024	1,030	1,011	1,018
993	1,027	1,106	1,028	1,022	1,027	1,020	1,016
994ª	1,027	1,106	1,028	1,022	1,027	1,020	1,016
995a	1,027	1,106	1,028	1,022	1,027	1,020	1,016

a Preliminary.

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

**Table A5. Approximate Heat Content of Coal** 

(Million Btu per Short Ton)

				Consumption			_	
	Production	Residential and Commercial	Coke Plants	Other Industrial <sup>a</sup>	Electric Utilities <sup>b</sup>	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 <sup>c</sup>	21.388	22.994	26.800	22.123	20.639	20.983	25.000	26.335
994 <sup>c</sup>	21.352	23.600	26.800	22.067	20.691	21.015	25.000	26.329

<sup>&</sup>lt;sup>a</sup> Includes transportation.

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

C Preliminary.

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

Table A6. Approximate Heat Content of Bituminous Coal and Lignite

(Million Btu per Short Ton)

				Consumption				
	Production	Residential and Commercial	Coke Plants	Other Industrial <sup>a</sup>	Electric Utilities	Total	Imports	Exports
73	23.391	22.887	26.800	22.585	22.262	23.073	25.000	26.612
73 74	23.087	22.523	26.800	22.420	21.799	22.694	25.000	26.716
75	23.067	22.258	26.800	22.439	21.659	22.522	25.000	26.573
	22.863	22.819	26.800	22.528	21.692	22.509	25.000	26.613
76 77	22.597	22.594	26.800	22.290	21.521	22.266	25.000	26.561
77 78	22.242	22.078	26.800	22.175	21.284	22.014	25.000	26.501
79	22.449	21.884	26.800	22.436	21,372	22.100	25.000	26.570
80	22.449	22.488	26.800	22.690	21.301	21.950	25.000	26.404
81	22.301	22.010	26.800	22.572	21.091	21.710	25.000	26.176
82	<sup>'</sup> 22.233	22.226	26.800	22.695	21,200	21.670	25.000	26.231
83	22.233	22.438	26.800	22.680	21,141	21.576	25.000	26,300
84	22.005	22.406	26.800	22.525	21.108	21.570	25.000	26.410
•	21.867	22.568	26.800	22.013	20.965	21.368	25.000	26.320
85 86	21.908	22.669	26.800	22.185	21.091	21.462	25.000	26.308
	21.918	22.800	26.800	22.360	21.143	21.514	25.000	26.304
87	21.817	23.135	26.800	22.341	20.905	21.324	25.000	26.308
88 89	21.759	22.917	26.800	22.324	20.854	21.268	25.000	26.166
90	21.759	22.678	26.800	22.444	20.935	21.330	25.000	26.207
	21.678	22.635	26.800	22.448	20.761	21.146	25.000	26.192
91	21.643	22.768	26.800	22.242	20.792	21.142	25.000	26.165
92		22.766 22.749	26.800	22.242	20.644	20.983	25.000	26.341
93	21.383	22.749	26.800	22.111	20.699	21.012	25.000	26.335
94b 195 <sup>b</sup>	21.348 21.348	23.004	26.800	22.036	20.699	21.012	25.000	26.335

a Includes transportation.

b Preliminary.

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

Table A7. Approximate Heat Content of Anthracite and Coal Coke

(Million Btu per Short Ton)

· L_			Anthracite	·-		
			Consumption			
·	Production	Sectors Other Than Electric Utilities	Electric Utilities	Total	Imports and Exports	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
75	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
79	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
91	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 <sup>a</sup>	22.574	26.280	14.878	21.711	25.400	24.800
995ª	22.574	. 26.280	14.878	21.711	25.400	24.800

<sup>a</sup> Preliminary. Source: See "Thermal Conversion Factor Source Documentation," which follows Table A8.

Table A8. Approximate Heat Rates for Electricity

(Btu per Kilowatthour)

	Electricity Generation			
	Fossil-Fueled Steam-Electric Plants <sup>a</sup>	Nuclear Steam-Electric Plants	Geothermal Energy Plants	Electricity Consumption
973	10,389	10.903	21.674	3,412
974	10,442	11,161	21.674	3,412
975	10,406	11.013	21,611	3,412
976	10,373	11.047	21.611	3,412
977	10,435	10,769	21.611	3,412
978	10,361	10,941	21,611	3,412
979	10,353	10,879	21,545	3,412
980	10,388	10,908	21,639	3,412
981	10,453	11,030	21,639	3,412
982	10,454	11,073	21,629	3,412
983	10,520	10,905	21,290	8 3,412
984	10,440	10.843	21,303	3,412
985	10,447	10.813	21,263	3,412
986	10,446	10,799	21,263	3,412
987	10,419	10,776	21,263	3,412
988	10,324	10,743	21,096	3,412
989	10,317	10,724	21,096	3,412
990	10,335	10,680	21,096	3,412
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
994b	10,280	10,682	20,914	3,412
995 <sup>b</sup>	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

<sup>&</sup>lt;sup>b</sup> 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 <sup>a</sup>	=	kilograms (kg)
	pounds uranium oxide (lb U <sub>3</sub> O <sub>8</sub> )	X	0.384 647 <sup>b</sup>	=	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 <sup>3</sup> )
	cubic yards (yd <sup>3</sup> )	X	0.764 555	=	cubic meters (m <sup>3</sup> )
	cubic feet (ft <sup>3</sup> )	X	0.028 316 85	=	cubic meters (m <sup>3</sup> )
	U.S. gallons (gal)	X	3.785 412	=	liters (L)
	ounces, fluid (fl oz)	X	29.573 53	=	milliliters (mL)
	cubic inches (in <sup>3</sup> )	x	16.387 06	=	milliliters (mL)
Length	miles (mi)	x	1.609 344 <sup>a</sup>	=	kilometers (km)
	yards (yd)	X	0.914 4 <sup>a</sup>	=	meters (m)
	feet (ft)	x	0.304 8 <sup>a</sup>	=	meters (m)
	inches (in)	x	2.54 <sup>b</sup>	=	centimeters (cm)
Area	acres	x	0.404 69	=	hectares (ha)
	square miles (mi <sup>2</sup> )	x	2.589 988	=	square kilometers (km²)
	square yards (yd <sup>2</sup> )	X	0.836 127 4	=	square meters (m <sup>2</sup> )
	square feet (ft <sup>2</sup> )	X	0.092 903 04 <sup>a</sup>	=	square meters (m <sup>2</sup> )
	square inches (in <sup>2</sup> )	x	6.451 6 <sup>b</sup>	=	square centimeters (cm <sup>2</sup> )
Temperature	degrees Fahrenheit (°F)	x	5/9 (after subtracting 32) <sup>a,c</sup>	=	degrees Celsius (°C)
Energy	British thermal units (Btu)	x	1, 055.055 852 62 <sup>a,d</sup>	=	joules (J)
	calories (cal)	X	4.186 8 <sup>a</sup>	=	joules (J)
	kilowatthours (kWh)	X	3.6 <sup>a</sup>	=	megajoules (MJ)

<sup>&</sup>lt;sup>a</sup>Exact conversion.

<sup>&</sup>lt;sup>b</sup>Calculated by the Energy Information Administration.

<sup>&</sup>lt;sup>c</sup>To convert degrees Celsius (<sup>o</sup>C) to degrees Fahrenheit (<sup>o</sup>F) exactly, multiply by 9/5, then add 32.

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

Notes: • Spaces have been inserted after every third digit to the right of the decimal for ease of reading. • Most metric units belong to the International System of Units (SI), and the liter, hectare, and metric ton are accepted for use with the SI units. For more information about the SI units, contact Dr. Barry Taylor at Building 221, Room B610, National Institute of Standards and Technology, Gaithersburg, MD 20899, or on telephone number 301–975–4220.

Sources: • General Services Administration, Federal Standard 376B, Preferred Metric Units for General Use by the Federal Government (Washington, DC, January 27, 1993), pp. 9–11, 13, and 16. • National Institute of Standards and Technology, Special Publications 330, 811, and 814. • American National Standards Institute/Institute of Electrical and Electronic Engineers, ANSI/IEEE Std 268–1992, pp. 28 and 29.

**Table B2. Metric Prefixes** 

Unit Multiple	Prefix	Symbol	Unit Subdivision	Prefix	Symbol
10 <sup>1</sup>	deka	da	10 <sup>-1</sup>	deci	d
10' 10 <sup>2</sup>	hecto	h	10 <sup>-2</sup>	centi	С
	kilo	k	10 <sup>-3</sup>	milli	m
10 <sup>3</sup> 10 <sup>6</sup>	mega	M	10 <sup>-6</sup>	micro	μ
109	giga	G	10 9	nano	'n
10 <sup>12</sup>	tera	T	10 <sup>-12</sup>	pico	р
1015	peta	Р	10 <sup>-15</sup>	femto	f
1018	exa	E	10 <sup>-18</sup>	atto	а
10 <sup>18</sup> 10 <sup>21</sup> 10 <sup>24</sup>	zetta	Z	10-21	zepto	z
1024	yotta	Υ	10 <sup>-24</sup>	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 <sup>a</sup>	=	U.S. gallons (gal)
Coal	short tons	x	2,000 <sup>a</sup>	=	pounds (lb)
	long tons	x	2,240 <sup>a</sup>	=	pounds (lb)
	metric tons (t)	×	1,000 <sup>a</sup>	=	kilograms (kg)
Wood	cords (cd)	x	1.25 <sup>b</sup>	=	short tons
	cords (cd)	x	128 <sup>a</sup>	=	cubic feet (ft <sup>3</sup> )

<sup>&</sup>lt;sup>a</sup>Exact conversion.

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

<sup>&</sup>lt;sup>b</sup>Calculated by the Energy Information Administration.

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#### 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	strial		
Year	Residential and Commercial	Coke Plants <sup>a</sup>	Other Coal	Electric Utilities	U.S. Average <sup>b</sup>
1980	210.6	205.8	205.9	206.7	206.5
1981	212.0	205.8	205.9	206.9	206.7
1982	210.4	205.7	206.0	207.0	206.9
1983	209.2	205.5	205.9	207.1	207.0
1984	209.5	205.6	206.2	207.1	207.0
1985	209.3	205.6	206.4	207.3	207.1
1986	209.2	205.4	206.5	207.3	207.1
1987	209.4	205.2	206.4	207.3	207.2
1988	209.1	205.3	206.4	207.6	207.3
1989	209.7	205.3	206.6	207.5	207.3
1990	209.5	206.2	206.8	207.6	207.4
1991	210.2	206.2	206.9	207.7	207.5

<sup>&</sup>lt;sup>a</sup>No allowances have been made for carbon retained in non-energy coal chemical byproducts from the coal carbonization process.

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

<sup>&</sup>lt;sup>b</sup>Weighted average. The weights used are consumption values by sector.

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### Appendix D. List of Features

The following is a complete list of features that have appeared in the *Monthly Energy Review* since the first issue was published in October 1974. There are four categories of features on the list. "Articles" cover a wide range of energy-related subjects in depth. "Highlights" summarize the most important information presented in the subject Energy Information Administration (EIA) report. "Energy Previews"

provide brief overviews of EIA preliminary energy data on a given topic. "EIA Data News" items present information on recent changes in the scope, design, methodology, and findings of EIA's energy surveys and databases. Questions and comments about features may be directed to Barbara T. Fichman by telephone at 202-586-5737, by fax at 202-586-0018, or by Internet E-Mail at bfichman@eia.doe.gov.

Feature	Cover Date
1995 Highlights: Manufacturing Consumption of Energy 1991 Article: U.S. Wind Energy Potential: The Effect of the Proximity of Wind Resources to Transmission Lines	January 1995 February 1995
EIA Data News: The Response Analysis Survey: Evaluating Manufacturing Energy  Consumption Survey Methodology	March 1995
Market for Alternative-Fuel Vehicles Highlights: Commercial Buildings Energy Consumption and Expenditures 1992	April 1995 April 1995
1994  Energy Preview: Commercial Buildings Energy Consumption Survey, Preliminary Estimates, 1992  Highlights: Household Vehicles Energy Consumption 1991  Highlights: Energy Use and Carbon Emissions: Some International Comparisons	January 1994 February 1994 April 1994
Highlights: Commercial Buildings Characteristics 1992  Article: Demand, Supply, and Price Outlook for Reformulated Motor Gasoline 1995  Article: Commercial Nuclear Electric Power in the United States: Problems and Prospects  Highlights: Reducing Home Heating and Cooling Costs  Energy Preview: Commercial Buildings Energy Consumption and Expenditures 1992,	June 1994 July 1994 August 1994 August 1994
Preliminary Estimates	September 1994 September 1994
Waste-to-Energy Industry	September 1994 October 1994 October 1994
Energy Consumption Survey	October 1994
Energy Consumption	October 1994 November 1994 November 1994 December 1994
<b>1993</b> Energy Preview: Residential Transportation Energy Consumption Survey,	
Preliminary Estimates, 1991  ElA 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

Feature	Cover Date
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 Oxgenated 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	June 1990 August 1990
1989 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	March 1989 March 1989 May 1989 May 1989 June 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	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
1987 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	January 1987 April 1987 May 1987 June 1987 July 1987
Highlights: Uranium Industry Annual 1986	September 1987 October 1987 November 1987 December 1987

Feature	Cover Date
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?	January 1983 February 1983 April 1983 May 1983 July 1983 July 1983 August 1983 August 1983 September 1983 September 1983 November 1983 December 1983[2]
1982 Article: The Interstate and Intrastate Natural Gas Markets	January 1982 February 1982 September 1982 October 1982 November 1982

Feature	Cover Date
1981 Article: Changes in 1981 Petroleum Data Series Article: Information Services of the Energy Information Administration Article: An Overview of Natural Gas Markets	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	December 1980
1979 Article: The Energy Requirements of U.S. Agriculture	July 1979
on the Nation's Short-Term Electric Utility Fuel Outlook Article: Reduction in Natural Gas Requirements Due to Fuel Switching	October 1979 December 1979
1978 Article: Short-Term Petroleum Supply and Demand	May 1978
1977 Article: Crude Oil Entitlements Program Article: Motor Gasoline Supply and Demand	January 1977 July 1977
1976 Article: Curtailments of Natural Gas Service	January 1976 March 1976 September 1976
1975 Article: Energy Consumption	March 1975 April 1975

#### **Glossary**

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

Asphalt: A dark-brown-to-black cement-like material containing bitumens as the predominant constituents obtained by petroleum processing. The definition includes crude asphalt as well as the following finished products: cements, fluxes, the asphalt content of emulsions (exclusive of water), and petroleum distillates blended with asphalt to make cutback asphalts.

ASTM: The American Society for Testing and Materials.

Aviation Gasoline Blending Components: Naphthas that are used for blending or compounding into finished aviation gasoline (e.g., straight-run gasoline, alkylate, and reformate). Excludes oxygenates (alcohols and ethers), butane, and pentanes plus.

Aviation Gasoline, Finished: All special grades of gasoline for use in aviation reciprocating engines, as given in ASTM Specification D910 and Military Specification MIL-G-5572. Excludes blending components that will be used in blending or compounding into finished aviation gasoline.

**Barrel** (petroleum): A unit of volume equal to 42 U.S. gallons.

Base (Cushion) Gas: The volume of gas needed as a permanent inventory to maintain adequate underground storage reservoir pressures and deliverability rates throughout the withdrawal season. All native gas is included in the base gas volume.

Bituminous Coal: A dense black coal, often with well-defined bands of bright and dull material, with a moisture content usually less than 20 percent. Often referred to as soft coal. It is the most common coal and is used primarily for generating electricity, making coke, and space heating. It conforms to ASTM Specification D388-84 for bituminous coal. In this report, bituminous coal includes subbituminous coal.

British Thermal Unit (Btu): The quantity of heat needed to raise the temperature of 1 pound of water by 1° F at or near 39.2° F. See Heat Content of a Quantity of Fuel, Gross and Heat Content of a Quantity of Fuel, Net.

**Butane:** A normally gaseous straight-chain or branched-chain hydrocarbon  $(C_4H_{10})$ . It is extracted from natural gas or refinery gas streams. It includes isobutane and normal butane and is designated in ASTM Specification D1835 and Gas Processors Association Specifications for commercial butane.

- Isobutane: A normally gaseous branched-chain hydrocarbon. It is a colorless paraffinic gas that boils at a temperature of 10.9° F. It is extracted from natural gas or refinery gas streams.
- Normal Butane: A normally gaseous straight-chain hydrocarbon. It is a colorless paraffinic gas that boils at a temperature of 31.1° F. It is extracted from natural gas or refinery gas streams.

Butylene: An olefinic hydrocarbon (C<sub>4</sub>H<sub>8</sub>) recovered from refinery processes.

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

CIF: See Cost, Insurance, Freight.

City Gate: A point or measuring station at which a distribution gas utility receives gas from a natural gas pipeline company or transmission system.

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

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

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

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

Completion: The installation of permanent equipment for the production of oil or gas. If a well is equipped to produce only oil or gas from one zone or reservoir, the definition of a well (classified as an oil well or gas well) and the definition of a completion are identical. However, if a well is equipped to produce oil and/or gas separately from more than one reservoir, a well is not synonymous with a completion.

Conversion Factor: A number that translates units of one system into corresponding values of another system. Conversion factors can be used to translate physical units of measure for various fuels into Btu equivalents.

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

Electricity Production: Net electricity (gross electricity output measured at generator terminals minus power plant use) generated by publicly and

privately owned electric utilities. Excludes industrial electricity generation (except autogeneration of hydroelectric power).

Electricity Sales: The amount of kilowatthours sold in a given period of time; usually grouped by classes of service, such as residential, commercial, industrial, and other. "Other" sales include sales for public street and highway lighting and other sales to public authorities, sales to railroads and railways, and interdepartmental sales.

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

Electric Utility: A corporation, person, agency, authority, or other legal entity or instrumentality that owns and/or operates facilities for the generation, transmission, distribution, or sale of electric energy, primarily for use by the public, and that files forms listed in the Code of Federal Regulations, Title 18, Part 141. Facilities that qualify as cogenerators or small power producers under the Public Utility Regulatory Policies Act are not considered electric utilities.

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

End-Use Sectors: The residential, commercial, industrial, and transportation sectors of the economy.

Energy: The capacity for doing work as measured by the capability of doing work (potential energy) or the conversion of this capability to motion (kinetic energy). Energy has several forms, some of which are easily convertible and can be changed to another form useful for work. Most of the world's convertible energy comes from fossil fuels that are burned to produce heat that is then used as a transfer medium to mechanical or other means in order to accomplish tasks. Electrical energy is usually measured in kilowatthours, while heat energy is usually measured in British thermal units.

**Energy Consumption:** The use of energy as a source of heat or power or as an input in the manufacturing process.

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

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

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

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

Ethane: A normally gaseous straight-chain hydrocarbon  $(C_2H_6)$ . It is a colorless, paraffinic gas that boils at a temperature of -127.48° F. It is extracted from natural gas and refinery gas streams.

Ethylene: An olefinic hydrocarbon (C<sub>2</sub>H<sub>4</sub>) recovered from refinery processes or petrochemical processes.

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

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

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

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

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

Energy and the Federal Energy Regulatory Commission, an independent regulatory agency.

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

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

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

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

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

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

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

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

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

Fuel Ethanol: An anhydrous, denatured aliphatic alcohol (C<sub>2</sub>H<sub>5</sub>OH) intended for motor gasoline blending. See Oxygenates.

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

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

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

Gas-Turbine Electric Power Plant: A plant in which the prime mover is a gas turbine. A gas turbine typically consists of an axial-flow air compressor, one or more combustion chambers where liquid or gaseous fuel is burned and the hot gases expand to drive the generator and then are used to run the compressor.

Gas Well: A well completed for the production of natural gas from one or more gas zones or reservoirs. (Wells producing both crude oil and natural gas are classified as oil wells.)

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

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

Gross Domestic Product (GDP): The total value of goods and services produced by labor and property located in the United States. As long as the labor and property are located in the United States, the supplier (that is, the workers and, for property, the owners) may be either U.S. residents or residents of foreign countries.

Heat Content of a Quantity of Fuel, Gross: The total amount of heat released when a fuel is burned. Coal, crude oil, and natural gas all include chemical compounds of carbon and hydrogen. When those fuels are burned, the carbon and hydrogen combine with oxygen in the air to produce carbon dioxide and water. Some of the energy released in burning goes into transforming the water into steam and is usually lost. The amount of heat spent in transforming the water into steam is counted as part of gross heat content but is not counted as part of net heat content. Also referred to as the higher heating value. Btu conversion factors typically used in EIA represent gross heat content.

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

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

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

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

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

Imports: Receipts of goods into the 50 States and the District of Columbia from foreign countries and from Puerto Rico, the Virgin Islands, and other U.S. possessions and territories.

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

Internal Combustion Electric Power Plant: A power plant in which the prime mover is an internal combustion engine. Diesel or gas-fired engines are the principal types used in electric power plants. The plant is usually operated during periods of high demand for electricity.

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

Kerosene: A petroleum distillate that has a maximum distillation temperature of 401° F at the 10-percent recovery point, a final boiling point of 572° F, and a minimum flash point of 100° F. Included are the two grades designated in ASTM D3699 (No. 1-K and No. 2-K) and all grades of kerosene called range or stove oil. Kerosene is used in space heaters, cook stoves, and water heaters; it is suitable for use as an illuminant when burned in wick lamps.

Lease and Plant Fuel: Natural gas used in well, field, and lease operations (such as gas used in drilling operations, heaters, dehydrators, and field compressors), and as fuel in natural gas processing plants.

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

Light Oil: Lighter fuel oils distilled off during the refining process. Virtually all petroleum used in internal combustion and gas-turbine engines is light oil.

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

Liquefied Natural Gas (LNG): Natural gas (primarily methane) that has been liquefied by reducing its temperature to -260° F at atmospheric pressure.

Liquefied Petroleum Gases (LPG): Ethane, ethylene, propane, propylene, normal butane, butylene, and isobutane produced at refineries or natural gas processing plants, including plants that fractionate new natural gas plant liquids.

Low-Power Testing: The period of time between a nuclear generating unit's initial fuel loading date and the issuance of its operating (full-power) license. The maximum level of operation during that period is 5 percent of the unit's design thermal rating.

Lubricants: Substances used to reduce friction between bearing surfaces or as process materials either incorporated into other materials used as processing aids in the manufacturing of other products or as carriers of other materials. Petroleum lubricants may be produced either from distillates or residues. Other substances may be added to impart or improve certain required properties. Excluded are byproducts of lubricating oil refining, such as aromatic extracts derived from solvent extraction or tars derived from deasphalting. Included are all grades of lubricating oils from spindle oil to cylinder oil and those used in greases. Lubricant categories are paraffinic and naphthenic.

Marketed Production: Gross withdrawals less gas used for repressuring, quantities vented and flared, and nonhydrocarbon gases removed in treating or processing operations. Includes all quantities of gas used in field and processing operations.

Methanol: A light, volatile alcohol (CH<sub>3</sub>OH) eligible for motor gasoline blending. See Oxygenates.

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

Motor Gasoline Blending Components: Naphthas that will be used for blending or compounding into finished motor gasoline (e.g., straight-run gasoline, alkylate, reformate, benzene, toluene, and zylene).

Excluded are oxygenates (alcohols and ethers), butane, and pentanes plus.

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

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

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

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

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

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

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

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

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

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

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

Motor Gasoline Retail Prices: Motor gasoline prices calculated each month by the Bureau of Labor Statistics (BLS) in conjunction with the construction of the Consumer Price Index (CPI). Those prices are collected in 85 urban areas selected to represent all urban consumers—about 80 percent of the total U.S. population. The service stations are selected initially, and on a replacement basis, in such a way that they represent the purchasing habits of the CPI population. Service stations in the current sample include those providing all types of service (i.e., full-, mini-, and self-service).

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

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

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

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

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

Natural Gas Marketed Production: Gross withdrawals of natural gas from production reservoirs, less gas used for reservoir repressuring;

nonhydrocarbon gases removed in treating and processing operations; and quantities vented and flared.

Natural Gas Plant Liquids (NGPL): Natural gas liquids recovered from natural gas in processing plants and, in some situations, from natural gas field facilities, as well as those extracted by fractionators. Natural gas plant liquids are defined according to the published specifications of the Gas Processors Association and the American Society for Testing and Materials as follows: ethane, propane, normal butane, isobutane, pentanes plus, and other products from natural gas processing plants (i.e., products meeting the standards for finished petroleum products produced at natural gas processing plants, such as finished motor gasoline, finished aviation gasoline, special naphthas, kerosene, distillate fuel oil, and miscellaneous products).

Natural Gas Wellhead Price: The wellhead price of natural gas is calculated by dividing the total reported value at the wellhead by the total quantity produced as reported by the appropriate agencies of individual producing States and the U.S. Minerals Management Service. The price includes all costs prior to shipment from the lease, including gathering and compression costs, in addition to State production, severance, and similar charges.

Natural Gas, Wet: Natural gas prior to the extraction of liquids and other miscellaneous products.

Net Consumption: See Energy Consumption, End-Use.

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

Nuclear Electric Power: Electricity generated by an electric power plant whose turbines are driven by steam generated in a reactor by heat from the fissioning of nuclear fuel.

Nuclear Electric Power Plant: A single-unit or multiunit facility in which heat produced in one or more reactors by the fissioning of nuclear fuel is used to drive one or more steam turbines.

Nuclear Reactor: An apparatus in which the nuclear fission chain can be initiated, maintained, and controlled so that energy is released at a specific rate. The reactor includes fissionable material (fuel), such as uranium or plutonium; fertile material; moderating material (unless it is a fast reactor); a heavy-walled pressure vessel; shielding to protect personnel; provision for heat removal; and control elements and instrumentation.

Offshore: That geographic area that lies seaward of the coastline. In general, the coastline is the line of ordinary low water along with that portion of the coast that is in direct contact with the open sea or the line marking the seaward limit of inland water.

Oil: See Crude Oil (Including Lease Condensate).

Oil Well: A well completed for the production of crude oil from one or more oil zones or reservoirs. Wells producing both crude oil and natural gas are classified as oil wells.

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

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

Organization of Petroleum Exporting Countries (OPEC): Countries that have organized for the purpose of negotiating with oil companies on matters of oil production, prices, and future concession rights. Current members are Algeria, Gabon, Indonesia, Iran, Iraq, Kuwait, Libya, Nigeria, Qatar, Saudi Arabia, the United Arab Emirates, and Venezuela.

Oxygenated Motor Gasoline: See Motor Gasoline, Finished.

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

- Fuel Ethanol. Blends of up to 10 percent by volume anhydrous ethanol (200 proof).
- Methanol. Blends of methanol and gasoline-grade tertiary butyl alcohol (GTBA)

such that the total oxygen content does not exceed 3.5 percent by weight and the ratio of methanol to GTBA is less than or equal to 1. It is also specified that this blended fuel must meet ASTM volatility specifications.

Blends of up to 5.0 percent by volume methanol with a minimum of 2.5 percent by volume 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 (C<sub>3</sub>H<sub>6</sub>) 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.

**Historical Integrated Energy Data Reports** from the Energy Information Administration

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.

For further information, contact: National Energy Information Center, EI-231

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