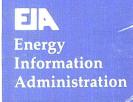
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Monthly Energy Review

May 1992



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Monthly Energy Review

May 1992

Energy Information Administration

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

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Special Features

The following is a complete list of all the special features that have appeared in the Monthly Energy Review (MER) since the first issue was published in October 1974. There are three categories of special feature on the list. Feature 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 are a new category of special feature in the MER; the first one was published in the April 1992 issue. "Energy Previews" provide brief overviews of EIA preliminary energy data on a given topic. This month, the EIA is introducing another new category of special feature, "EIA Data News." "EIA Data News" items will present information on changes in the scope, methodology, and other aspects of EIA's energy surveys and data bases.

Special Feature	Cover Date
Feature Article: Energy Consumption	March 1975
Feature Article: Nuclear Power	April 1975
Feature Article: The Price of Crude Oil	June 1975
Feature Article: U.S. Coal Resources and Reserves	July 1975
Feature Article: Propane, A National Energy Resource	September 1975
Feature Article: Short-Term Energy Supply and Demand Forecasting at FEA	October 1975 January 1976
Feature Article: Curtailments of Natural Gas Service	March 1976
Feature Article: Home Heating Conservation Alternatives and the Solar Collector Industry	September 1976
Feature Article: Trends in United States Petroleum Imports	January 1977
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Feature Article: Three Mile Island—Possible Regulatory Responses and Their Impacts on the Nation's Short-Term Electric Utility Fuel Outlook	October 1979
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Feature Article: Changes in 1981 Petroleum Data Series	May 1981
Feature Article: Information Services of the Energy Information Administration	September 1981
Feature Article: An Overview of Natural Gas Markets	December 1981
Feature Article: The Interstate and Intrastate Natural Gas Markets	January 1982
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Report	September 1982
Feature Article: Impacts of Financial Constraints on the Electric Utility Industry	October 1982
Highlights: Energy Company Development Patterns in the Postembargo Era, Volume One	November 1982
Highlights Residential Energy Consumption Survey: Consumption and Expenditures	January 1983
Highlights: Residential Energy Consumption Survey: Housing Characteristics	February 1983
Feature Article: The Effect of Weather on Energy Use	April 1983
Feature Article: Trends in U.S. Energy Since 1973	May 1983
Feature Article: Data Series on Petroleum Use at Electric Utilities	July 1983
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Highlights: Railroad Deregulation: Impact on Coal	August 1983
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Special Feature

Cover Date

	COVEL	Date
Highlights: Annual Energy Outlook 1984	December	1984
Highlights: Annual Energy Review 1984	January	1985
Highlights: Performance Profiles of Maior Energy Producers 1983	February	
Feature Article: Estimating Well Completions	March	
Highlights: International Energy Annual 1983	September	
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Highlights: Short-Term Energy Outlook, Volume 1, October 1985	August	
Highlights: Analysis of Growth in Electricity Demand, 1980-1984	August	
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Feature Article: U.S. Energy Industry Financial Development, 1987 Second Quarter	June	1987
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Highlights: U.S. Energy Industry Financial Developments, 1990 Fourth Quarter	March	
Feature Article: U.S. Wholesale Electricity Transactions	April	
Energy Preview: Residential Energy Consumption and Expenditures. Preliminary		
Estimates, 1990	April	1992
	•	

Oxygenate Data Collection Begins

The Clean Air Act Amendments of 1990 require that oxygenated motor gasoline be available in carbon monoxide nonattainment areas of the United States on November 1, 1992. To help determine the availability of oxygenates, the Energy Information Administration (EIA) conducted a survey in the fall of 1991 to identify oxygenate producers, importers, storers, and blenders. The data collected were oxygenate production and imports during 1990; volumes of oxygenates blended during 1990; end-of-year stock data and

Oxygenates are liquid organic compounds that can be blended into motor gasoline to increase its oxygen content. The presence of additional oxygen during motor gasoline combustion reduces the production of carbon monoxide and may reduce the production of ozone precursors. The Environmental Protection Agency has determined that aliphatic alcohols and ethers, in specific volumes and combinations, are both substantially similar to conventional motor gasoline and able to provide the oxygen desired under the Clean Air Act Amendments of 1990. In this context, the compounds are labeled "oxygenates," although they have a number of other properties and uses. storage capacity for 1990; and production capacity as of January 1, 1991, and projections for 1992.

The results of the data collection effort are available in the Weekly Petroleum Status Report (WPSR) dated February 26, 1992, and in the Petroleum Supply Monthly (PSM) for February 1992. Data are also available through the EIA's electronic publication system (EPUB).

To provide relevant information about U.S. and regional motor gasoline supply on a continuing basis, the EIA has begun a new monthly survey of a sample of oxygenate suppliers and blenders. Form EIA-819, "Monthly Oxygenate Telephone Report," collects data on production, imports, stocks, and the volume of oxygenates blended. Data for January through April 1992 are available in the May 1992 *PSM*. Data for each subsequent month will be released after the twentieth of the following month in the *PSM*, the *WPSR*, and EPUB under OXYDATA. EPUB dialup and publication subscription procedures are described on the inside back cover of this report and are available through the National Energy Information Center, 202-586-8800.

> EIA Program Contact: Steve Patterson Telephone: 202-586-5994 FAX: 202-586-5846

"EIA Data News" is a new type of special feature in the *Monthly Energy Review*. "EIA Data News" items are intended to provide information on changes in the scope, methodology, and other aspects of the EIA's energy surveys and data bases.

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Section 1. Energy Summary

The United States produced 1.5 percent less energy during the first two months of 1992 than during the same period in 1991, and U.S. consumption was down 0.2 percent. Net imports of all energy were 8.7 percent higher than during the first 2 months of 1991.

Energy production during February 1992 totaled 5.5 quadrillion Btu, a 0.4-percent increase compared with the level of production during February 1991. Natural gas production increased 4.6 percent, petroleum production rose 1.5 percent, and coal production dropped 4.5 percent. All other forms of energy production combined were up 1.6 percent from the level of production during February 1991.

Energy consumption during February 1992 totaled 7.0 quadrillion Btu, 5.2 percent above the level of consumption during February 1991. Petroleum consumption increased 7.4 percent, natural gas consumption rose 5.1 percent, and coal consumption was up 2.3 percent. Consumption of all other forms of energy combined increased 3.5 percent compared with the level 1 year earlier.

Net imports of energy during February 1992 totaled 1.0 quadrillion Btu, 17.0 percent above the level of net imports 1 year earlier. Net imports of petroleum increased 12.6 percent, and net imports of natural gas were up 7.3 percent. Net exports of coal dropped 2.1 percent compared with the level in February 1991.

		February			Cumulative January Through February				
	1992	1991	Percent Change ^a	1992	1992 Daily Rate	1991	1991 Daily Rate	Percent Change ^a	
Production ^b	5.459	5.439	0.4	11.355	0.189	11.338	0.192	-1.5	
Coai	1.717	1.797	-4.5	3.558	.059	3.665	.062	-4.5	
Natural Gas (Dry)	1.549	1.481	4.6	3.220	.054	3.120	.053	1.5	
Petroleum ^c	1.427	1.406	1.5	2.950	.049	2.932	.050	-1.1	
Other ^d	.767	.755	1.6	1.628	.027	1.621	.027	-1.2	
Consumption ^b	7.016	6.671	5.2	14.724	.245	14.508	.246	-25	
Coal	1.479	1.445	2.3	3.148	.052	3.176	.054	-2.5	
Natural Gas ^e	2.111	2.008	5.1	4.430	.074	4.421	.075	-1.5	
Petroleum	2.638	2.456	7.4	5.474	.091	5.275	.089	2.0	
Other ¹	.787	.761	3.5	1.672	.028	1.636	.028	.5	
Net Imports	. 963	.823	17.0	2.091	.035	1.891	.032	8.7	
Coal ^g	198	202	-2.1	416	007	358	006	14.2	
Natural Gas	.135	.125	7.3	.278	.005	.270	.005	1.3	
Petroleum ^h	1.006	.894	12.6	2.184	.036	1.964	.033	9.4	
Other ⁱ	.020	.006	218.4	.044	.001	.015	.000	182.5	

Table 1.1 Energy Summary for February 1992 (Quadrillion Btu)

^a Based on daily rates prior to rounding.

^b Production and consumption totals exclude wood, waste, geothermal, wind, photovoltaic, and solar thermal energy, except for small amounts used by electric utilities to generate electricity for distribution.

Includes crude oil, lease condensate, and natural gas plant liquids.

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

 ⁹ Includes supplemental gaseous fuels.
 ¹ "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.

9 Minus sign indicates exports are greater than imports.

h Includes crude oil, lease condensate, petroleum products, pentanes plus, unfinished oils, gasoline blending components, and imports of crude oil for the

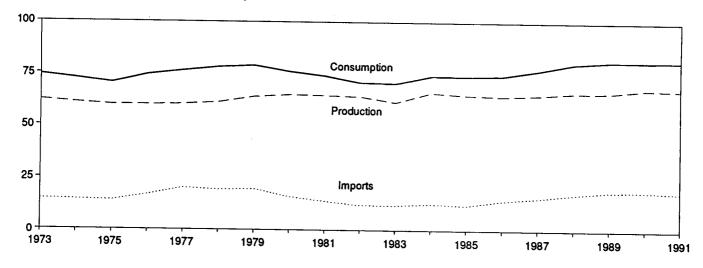
Strategic Petroleum Reserve. ' "Other" is net imports of electricity and coal coke.

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

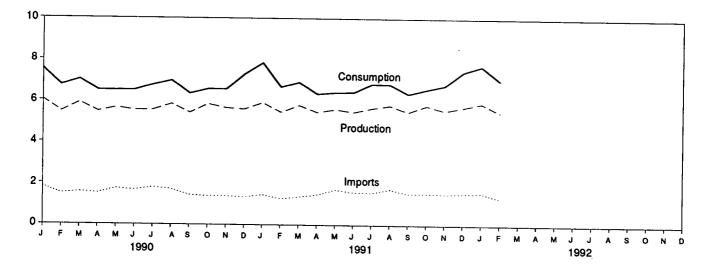
Sources: Tables 1.3, 1.4, and 1.5.

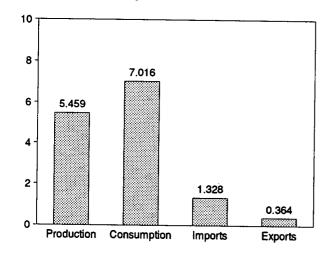
Figure 1.1 Energy Overview (Quadrillion Btu)

Consumption, Production, and Imports, 1973-1991



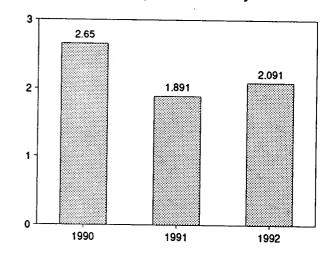
Consumption, Production, and Imports, Monthly





Overview, February 1992

Net Imports, January and February



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

Table 1.2 Energy Overview

(Quadrillion Btu)

	Productiona	Consumption ^{a,b}	Imports	Exports	Net Imports
			14 701	2.051	12.680
73 Total	62.060	74.282	14.731	2.223	12.190
74 Total	60.835	72.543	14.413	2.359	11.752
75 Total	59.860	70.546	14.111		14.648
76 Total	59.892	74.362	16.837	2.188	18.019
77 Total	60.219	76.288	20.090	2.071	
78 Total	61.103	78.089	19.254	1.931	17.323
79 Total	63.801	78.898	19.616	2.870	16.746
980 Total	64.761	75.955	15.971	3.723	12.247
981 Total	64.421	73.990	13.975	4.329	9.646
82 Total	63.962	70.848	12.092	4.633	7.460
983 Total	61.278	70.524	12.026	3.717	8.310
963 Total	65.923	74.101	12.763	3.804	8.958
	64.840	73.945	12.099	4.230	7.868
985 Total	64.295	74.237	14.430	4.054	10.376
986 Total	64.911	76.845	15.755	3.852	11.903
987 Total	66.085	80.195	17.561	4.415	13.146
988 Total		81.348	18.947	4.766	14.181
989 Total	66.133	01.340	10.377		
	6.035	7.537	1.829	.361	1.468
990 January	5,462	6.744	1.512	.330	1.182
February	5.895	7.027	1.587	.428	1.159
March	5.460	6.498	1.524	.387	1.136
April		6.491	1.747	.412	1.335
May	5.651	6.505	1.679	.412	1.267
June	5.519	6.760	1,798	.386	1.412
July	5.539		1.716	.438	1.277
August	5.833	6.975	1.448	.441	1.007
September	5.405	6.336		.418	.979
October	5.830	6.558	1.397	.410	.936
November	5.639	6.547	1.396	.400	.918
December	5.585	7.291	1.355		14.077
Total	67.853	81.273	18.987	4.910	14.077
001 January	^R 5.899	^R 7.837	1,469	.401	1.068
991 January	· ^R 5.439	R 6.671	1.285	.462	.823
February	^R 5.776	R 6.901	1.370	.397	.974
March	^R 5.443	R 6.335	1.473	.324	1.149
April	^R 5.588	R 6.403	1.715	.486	1.229
May	^R 5.453	^R 6.421	1.599	.424	1.174
June		R 6.831	1.578	.456	1.122
July	^R 5.644	R 6.813	1.744	.444	1.300
August	R 5.780		1.543	.430	1.113
September	^R 5.464	^R 6.347	1.543	.430	1,119
October	5.779	6.564 B o 700		.458	1.073
November	^R 5.534	^R 6.766	1.531 B 1.540	.458 .485	^R 1.064
December	_ ^R 5.701	^R 7.433	^R 1.549		R 13.209
Total	^R 67.500	^R 81.321	^R 18.403	5.194	13.208
	^R 5.896	^R 7.708	1.578	.450	1.127
1992 January	5.459	7.016	1.328	.364	.963
February 2-Month Total	11.355	14.724	2.905	.815	2.091
2-multin Latan		= -			
1991 2-Month Total	11.338	14.508	2.754	.863	1.891 2.650
1990 2-Month Total	11.497	14.282	3.341	.691	2.050

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

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

R=Revised data.

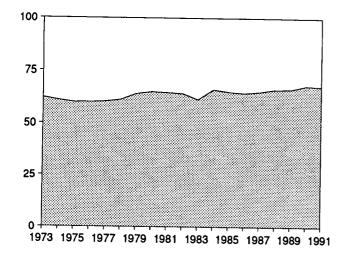
Notes: • For definitions, see Notes 1 through 4 at end of section. • Geographic coverage is the 50 States and the District of Columbia. • Totals may not equal sum of components due to independent rounding.

Sources: • Production: Table 1.3. • Consumption: Table 1.4. • Imports and Exports: Tables 3.1b, 4.2, 6.1, A3-A9, and Section 2, "Energy Consumption Notes and Sources," Notes 8 and 9. • Net Imports: Table 1.5.

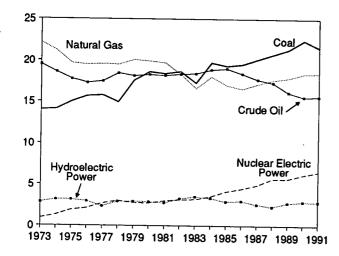
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Figure 1.2 Energy Production (Quadrillion Btu)

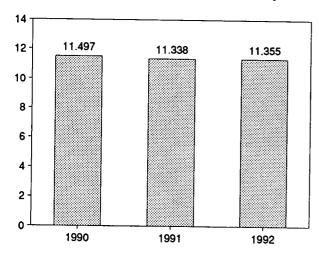
Total Production, 1973-1991



Production by Major Sources, 1973-1991

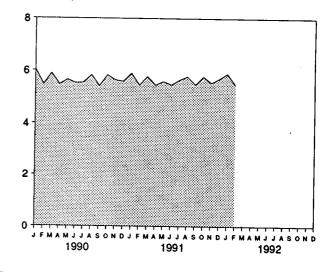


Total Production, January and February

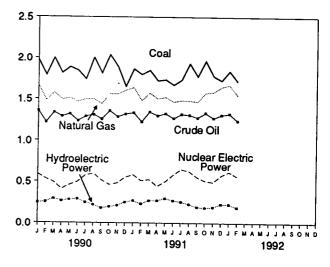


Note: Because vertical scales differ, graphs should not be compared. Source: Table 1.3.

Total Production, Monthly



Production by Major Sources, Monthly



Production by Major Sources, February 1992

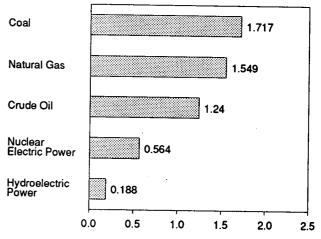


Table 1.3 Energy Production by Source

(Quadrillion Btu)

	Coal	Natural Gas (Dry)	Crude Oil ^a	Natural Gas Plant Liquids	Nuclear Electric Power	Hydro- electric Power ^b	Other ^c	Totald
070 T-1-1	13.993	22.187	19.493	2.569	0.910	2.861	0.046	62.060
973 Total	14.074	21.210	18.575	2.471	1.272	3.177	.056	60.835
974 Total	14.990	19.640	17.729	2.374	1.900	3,155	.072	59.860
975 Total		19.480	17.262	2.327	2,111	2.976	.081	59.892
976 Total	15.654		17.454	2.327	2.702	2.333	.082	60.219
977 Total	15.755	19.565		2.245	3.024	2.937	.068	61.103
978 Total	14.910	19.485	18.434		2.776	2.931	.089	63.801
979 Total	17.539	20.076	18.104	2.286 2.254	2.739	2.900	.114	64.761
980 Total	18.597	19.908	18.249			2.758	.127	64.421
981 Total	18.376	19.699	18.146	2.307	3.008	3.266	.108	63.962
982 Total	18.639	18.319	18.309	2.191	3.131		.133	61.278
983 Total	17.246	16.593	18.392	2.184	3.203	3.527		65,923
984 Total	19.719	18.007	18.848	2.274	3.553	3.348	.174	
985 Total	19.325	16.981	18.992	2.241	4.149	2.939	.213	64.840
986 Total	19.510	16.541	18.376	2.149	4.471	3.017	.231	64.295
987 Total	20.142	17.136	17.675	2.215	4.906	2.593	.244	64.911
988 Total	20.737	17.599	17.279	2.260	5.661	2.314	.235	66.085
989 Total	21.345	17.848	16.117	2.158	5.677	2.771	.217	66.133
990 January	1.976	1.668	1.357	.183	.589	.245	.018	6.035
February	1.790	1.485	1.218	.168	.534	.252	.016	5.462
March	1.999	1.575	1.337	.181	.492	.293	.018	5.895
	1.815	1.494	1.289	.171	.411	.265	.014	5.460
April	1.888	1.509	1,318	.178	.459	.282	.017	5.651
May		1.468	1,236	.167	.495	.290	.017	5.519
June	1.846	1.494	1.290	.176	.573	.247	.017	5.539
July	1.741	1.494	1.310	.187	.595	.220	.017	5.833
August	2.004		1.257	.183	.518	.178	.016	5.405
September	1.814	1.439	1.356	.198	.463	.194	.017	5.830
October	2.039	1.563	1.285	.196	.481	.209	.016	5.639
November	1.893	1.560		.194	.551	.250	.017	5.585
December	1.651	1.606	1.319		6.161	2.926	.202	67.853
Total	22.456	18.362	15.571	2.175	0.101	2.320		
991 January	1.867	1.639	1.334	.193	.581	.268	.017 .014	^R 5.899 ^R 5.439
February	1.797	1.481	1.226	.180	.511	.229	.014	^R 5.776
March	1.850	1.572	1.345	.197	.525	.270		R 5.443
April	^R 1.724	1.503	1.299	.189	.445	.269	.015	R 5.588
May	^R 1.736	1.521	1.325	.194	.499	.298	.015	R 5.453
June	^R 1.671	1.465	1.267	.184	.579	.270	.016	
July	1.735	^R 1.484	1.317	.190	.649	.254	.016	R 5.644
August	^R 1.934	^R 1.479	1.308	.191	· .624	.227	.016	R 5.780
September	^R 1.775	^R 1,468	1.276	.184	.554	.193	.015	^R 5.464
October	^R 1.966	^R 1.575	1.332	.197	.509	.183	.016	5.779
November	R 1.779	^R 1.586	1.271	.195	.494	.191	.017	^R 5.534
December	R 1.727	^R 1.648	1.309	.199	.572	.228	.017	^R 5.701
Total	R 21.563	R 18.421	15.609	2.293	6.542	2.880	.192	^R 67.500
1000 January	1.841	^R 1.671	1.324	.199	.618	.226	.017	^R 5.896
1992 January		1.549	1.240	.187	.564	.188	.015	5.459
February	1.717 3.558	3.220	2.564	.386	1.182	.414	.032	11.355
2-Month Total	3.330	3.240	2.007					
1991 2-Month Total	3.665	3.120	2.560	.373	1.092	.497	.031 .034	11.338 11.497
1990 2-Month Total	3.766	3.153	2.574	.351	1.122	.497	.034	11.497

a includes lease condensate.

 Includes lease condensate.
 Electric utility and industrial production of hydroelectric power.
 "Other" production is electricity generated for distribution from wood, waste, geothermal, wind, photovoltaic, and solar thermal energy.
 "Other" production is electricity generated for distribution from wood, waste, geothermal, wind, photovoltaic, and solar thermal energy.
 Excludes wood, waste, geothermal, wind, photovoltaic, and solar thermal energy, except for small amounts used by electric utilities to generate electricity for distribution.

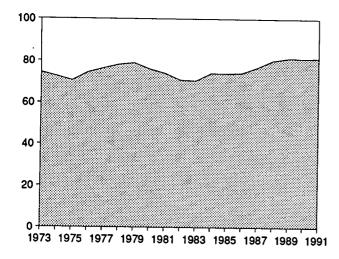
R=Revised data.

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

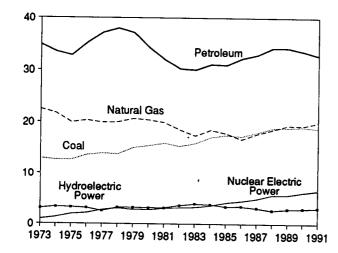
Sources: • Coal: Tables 6.1 and A6-A8. • Natural Gas (Dry): Tables 4.1 and A5. • Crude Oil and Natural Gas Plant Liquids: Tables 3.1 and A3. • Nuclear Electric Power: Tables 7.1 and A9. • Hydroelectric Power: Table 7.1; Section 2, "Energy Consumption Notes and Sources," Note 7; and Table A9. • Other: Section 2, "Energy Consumption Notes and Sources," Note 8, and Table A9.

Figure 1.3 Energy Consumption (Quadrillion Btu)

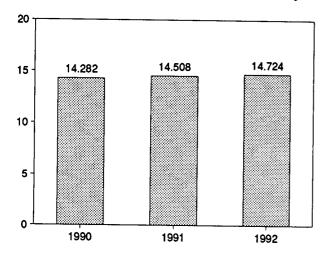
Total Consumption, 1973-1991



Consumption by Major Sources, 1973-1991

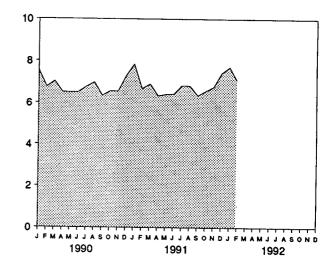


Total Consumption, January and February

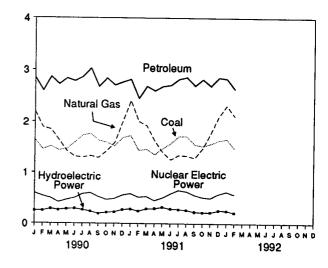


Note: Because vertical scales differ, graphs should not be compared. Source: Table 1.4.

Total Consumption, Monthly



Consumption by Major Sources, Monthly



Consumption by Major Sources, February 1992

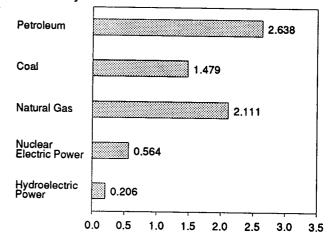


Table 1.4 Energy Consumption by Source

(Quadrillion Btu)

	Coal	Natural Gas ^a	Petroleum	Nuclear Electric Power	Hydro- electric Power ^b	Other ^c	Total ^d
					3.010	0.039	74.282
73 Total	12.971	22.512	34.840	0.910		.112	72.543
74 Total	12.663	21.732	33.455	1.272	3.309	.086	70.546
975 Total	12.663	19.948	32.731	1.900	3.219		74.362
976 Total	13.584	20.345	35.175	2.111	3.066	.081	76.288
977 Total	13.922	19,931	37.122	2.702	2.515	.097	
	13.765	20.000	37,965	3.024	3.141	.193	78.089
978 Total	15.039	20.666	37,123	2.776	3.141	.152	78.898
979 Total	15.423	20.394	34,202	2.739	3.118	.079	75.955
980 Total	15.907	19.928	31.931	3.008	3.105	.111	73.990
981 Total	15.322	18.505	30.231	3.131	3.572	.086	70.848
982 Total		17.357	30.054	3.203	3.899	.118	70.524
983 Total	15.894	18.507	31.051	3.553	3.757	.163	74.101
984 Total	17.070		30.922	4,149	3.363	.199	73.945
985 Total	17.478	17.834	32.196	4.471	3.385	.215	74.237
986 Total	17.262	16.708		4.906	3.068	.253	76.845
987 Total	18.008	17.745	32.865	4.908 5.661	2.639	.274	80.195
988 Total	18.846	18.552	34.222		2.884	.248	81.348
989 Total	18.944	19.384	34.211	5.677	2.004		
	1.646	2,198	2.846	.589	.242	.018	7.537
990 January	1.460	1.891	2.602	.534	.241	.016	6.744
February		1.849	2.866	.492	.278	.019	7.027
March	1.523	1.645	2.724	.411	.258	.014	6.498
April	1.445	1.647	2.837	.459	.276	.017	6.491
May	1.472		2.786	.495	.285	.018	6.505
June	1.599	1.323		.573	.259	.021	6.760
July	1.734	1.308	2.866	.595	.230	.017	6.975
August	1.769	1.336	3.028		.187	.017	6.336
September	1.634	1.300	2.680	.518	.210	.018	6.558
October	1.599	1.428	2.841	.463	.219	.015	6.547
November	1.530	1.592	2.710	.481	.263	.018	7.291
December	1.691	2.001	2.767	.551		.207	81.273
Total	19.101	19.304	33.553	6.161	2.946	.207	01.475
	^R 1.730	^R 2.413	2.819	.581	.277	.018	R7.837
1991 January		R 2.008	2.456	.511	.235	.015	86.671
February	R 1.445	^R 1.925	2.689	.525	.280	.018	R 6.901
March	^R 1.465	^R 1.630	2.603	.445	.284	.016	^R 6.335
April	^R 1.359	^R 1.406	2.688	.499	.311	.016	^R 6.403
May	^R 1.481	·· 1.406		.579	.278	.015	^R 6.421
June	^R 1.579	^R 1.261	2.709	.649	.271	.019	^R 6.831
July	^R 1.719	R 1.350	2.824	.624	.256	.014	R 6.813
August	1.719	R 1.338	2.861	.624 .554	.221	.019	^R 6.347
September	_1.560	^R 1.294	2.699		.211	.015	6.564
October	^R 1.525	^R 1.483	2.821	.509	.211	.018	^R 6.766
November	^R 1.572	P 1.776	2.695	.494	.211	.017	R 7.433
December	^R 1.637	^R 2.102	2.855	.572			R 81.321
Total	^R 18.791	^R 19.985	32.720	6.542	3.082	.201	01.521
		Booto	2.836	.618	.246	.021	^R 7.708
1992 January	1.668	^R 2.319	-	.564	.206	.018	7.016
February	1.479	2.111	2.638	1.182	.452	.038	14.724
2-Month Total	3.148	4.430	5.474	1.104	.774		
1001 0 Marth Total	3.176	4.421	5.275	1.092	.511	.033	14.508
1991 2-Month Total	3.170	4.089	5.448	1.122	.482	.034	14.282

a includes supplemental gaseous fuels.

^b Electric utility and industrial production and net imports of electricity.

Check consumption is net imports of coal coke and electricity generated for distribution from wood, waste, geothermal, wind, photovoltaic, and solar thermal
 C "Other" consumption is net imports of coal coke and electricity generated for distribution from wood, waste, geothermal, wind, photovoltaic, and solar thermal

energy. d 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.

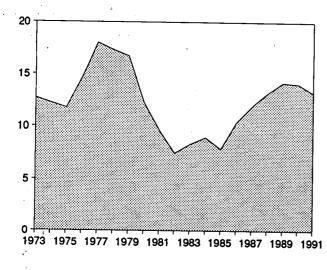
Notes: • See Note 2 at end of section. • Geographic coverage is the 50 States and the District of Columbia. • Totals may not equal sum of components due

Sources: • Coal: Tables 6.1 and A6-A8. • Natural Gas: Tables 4.2 and A5. • Petroleum: Tables 3.1a and A4. • Nuclear Electric Power: Tables 7.1 and A9. • Hydroelectric Power: Table 7.1; Section 2, "Energy Consumption Notes and Sources," Note 8; and Table A9. • Other: Section 2, "Energy Consumption Notes and Sources," Note 7, and Table A9.

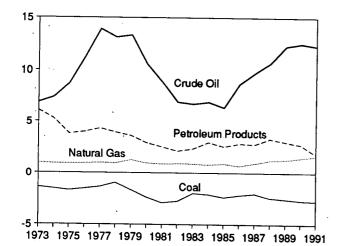
Figure 1.4 Energy Net Imports

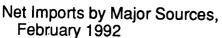
(Quadrillion Btu, Except as Noted)

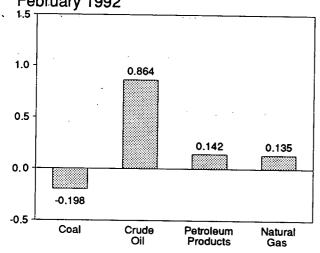
Total Net Imports, 1973-1991



Net Imports by Major Sources, 1973-1991

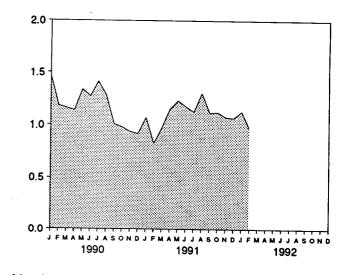




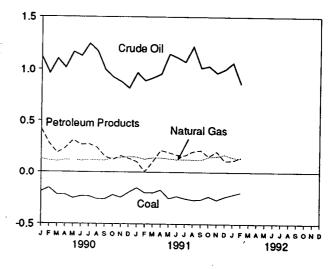


Note: Because vartical scales differ, graphs should not be compared. Sources: Tables 1.4 and 1.5.

Net Imports, Monthly



Net Imports by Major Sources, Monthly



Net Imports as Share of Consumption, January and February

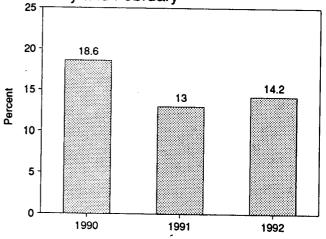


Table 1.5 Energy Net Imports by Source

(Quadrillion Btu)

	Coal	Natural Gas	Crude Oli ^a	Petroleum Products ^b	Electricity ^c	Coal Coke	Total
973 Total	-1.422	0.981	6.883	6.097	0.148	-0.007	12.680
974 Total	-1.568	.907	7.389	5.273	.133	.056	12.190
975 Total	-1.738	.904	8,708	3.800	.064	.014	11.752
	-1.567	.922	11.221	3,982	.089	(8)	14.648
976 Total		.981	13.921	4.321	.182	.015	18.019
977 Total	-1.401			3.932	.204	.125	17.323
978 Total	-1.004	.941	13.125	3.603	.211	.063	16.746
979 Total	-1.702	1.243	13.328			035	12.247
980 Total	-2.391	.957	10.586	2.912	.217		9.646
981 Total	-2.918	.857	8.854	2.522	.347	016	
982 Total	-2.768	.898	6.917	2.128	.306	022	7.460
983 Total	-2.013	.885	6.731	2.351	.372	016	8.310
984 Total	-2.119	.792	6.918	2.970	.409	011	8.958
	-2.389	.896	6.381	2.570	.423	013	7.868
985 Total		.686	8.676	2.855	.368	017	10.376
986 Total	-2.193		9.748	2.784	.475	.009	11.903
987 Total	-2.049	.937		3.308	.325	.040	13.146
988 Total	-2.446	1.221	10.698			.030	14.181
989 Total	-2.566	1.278	12.296	3.029	.113	.030	14.101
990 January	- 191	.127	1.119	.415	003	(s)	1.468
February	157	.111	.963	.276	011	(S)	1.182
March	220	.106	1.101	.186	015	.001	1.159
	220	.118	1.015	.231	007	001	1.136
April		.118	1.167	.310	006	(S)	1.335
May	254		1.128	.266	005	.001	1.267
June	235	.112			.011	.003	1.412
July	236	.116	1.245	.272	.010	001	1.277
August	261	.114	1.175	.239			1.007
September	263	.114	.996	.150	.009	.001	
October	222	.138	.925	.123	.015	.001	.979
November	246	.136	.881	.157	.010	001	.936
December	198	.151	.819	.133	.013	.001	.918
Total	-2.705	1.463	12.536	2.757	.020	.005	14.077
	450	145	.969	.102	^E .008	.001	1.068
991 January	156	.145		.003	E.006	.001	.823
February	202	.125	.891		E.011	.002	.974
March	203	.140	.921	.103		.002	1.149
April	176	.139	.957	.213	^E .015		1.229
May	256	.131	1,148	.192	E.014 E.008	.001	
June	236	.122	1.114	.168	.000	001	1.174
July	256	.125	1.072	.160	Ē.017	.003	1.122
August	270	.122	1.219	.201	E.029	002	1.300
September	267	.120	1.015	.213	^E .028	.004	1.113
	237	.147	1.031	.151	^E .028	001	1.119
October	237	.154	.967	.202	E.019	.001	1.073
November		R.171		.111	E.020	(S)	R 1.064
December	240	",1/1 Pa eaa	1.002		E.202	.009	R 13.209
Total	-2.769	^R 1.641	12.307	1.819	202	.003	10.20
992 January	218	.144	1.064	.114	E.020	.004	1.127
February	198	.135	.864	.142	E.018	.003	.96
2-Month Total	416	.278	1.928	.256	^E .038	.006	2.09
		070	1.060	.104	^E .014	.002	1.891
1991 2-Month Total	358	.270	1.860	.691	015	(s)	2.65
1990 2-Month Total	348	.239	2.082	.031	010	(*)	2.70

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

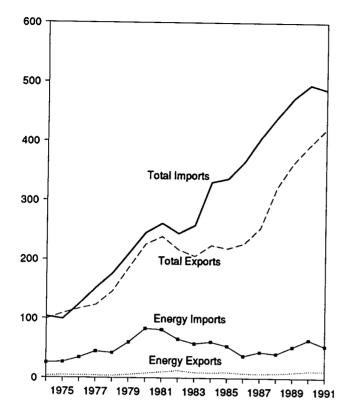
^b Petroleum products, unfinished oils, pentanes plus, and gasoline blending components.

^c Assumed to be hydroelectricity and estimated at the average input heat rate for fossil-fuel steam-electric power plant generation, which has ranged from 10.2 Assumed to be hydroelectricity and estimated at the average input heat rate for tossil-fuel steam-electric power plant generation, which has ranged from 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 A9. 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 equals imports minus exports. Minus sign indicates exports are greater than imports.
 Geographic coverage is the 50 States and the District of Columbia. • Totals may not equal sum of components due to independent rounding. Sources: • Coal: Tables 6.1 and A6-A8. • Natural Gas: Tables 4.2 and A5. • Crude Oit and Petroleum Products: Tables 3.1b and A3.
 Electricity: Section 2, "Energy Consumption Notes and Sources," Note 8, and Table A9. • Coal Coke: Section 2, "Energy Consumption Notes and Sources," Note 8, and Table A9. • Coal Coke: Section 2, "Energy Consumption Notes and Sources," Note 8, and Table A9. • Coal Coke: Section 2, "Energy Consumption Notes and Sources," Note 8, and Table A9. • Coal Coke: Section 2, "Energy Consumption Notes and Sources," Note 8, and Table A9. • Coal Coke: Section 2, "Energy Consumption Notes and Sources," Note 8, and Table A9. • Coal Coke: Section 2, "Energy Consumption Notes and Sources," Note 8, and Table A9. • Coal Coke: Section 2, "Energy Consumption Notes and Sources," Note 8, and Table A9. • Coal Coke: Section 2, "Energy Consumption Notes and Sources," Note 8, and Table A9. • Coal Coke: Section 2, "Energy Consumption Notes and Sources," Note 8, and Table A9. • Coal Coke: Section 2, "Energy Consumption Notes and Sources," Note 8, and Table A9. • Coal Coke: Section 2, "Energy Consumption Notes and Sources," Note 8, and Table A9. • Coal Coke: Section 2, "Energy Consumption Notes and Sources," Note 8, and Table A9. • Coal Coke: Section 2, "Energy Consumption Notes and Sources," Note 8, a

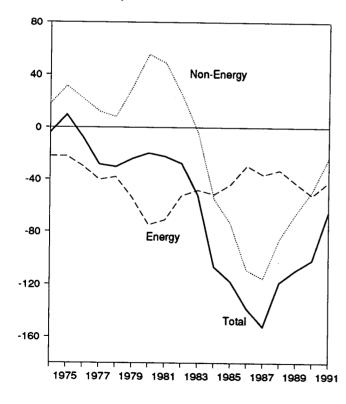
Sources," Note 9, and Table A8.

Figure 1.5 Merchandise Trade Value (Billion Dollars)

Imports and Exports, 1974-1991

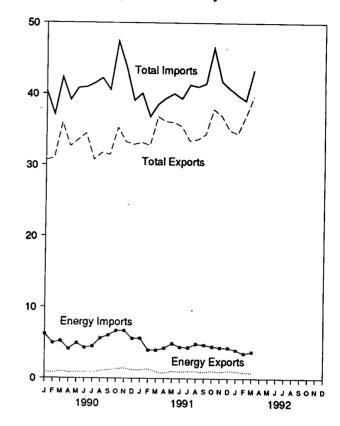


Trade Balance, 1974-1991



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

Imports and Exports, Monthly



Trade Balance, Monthly

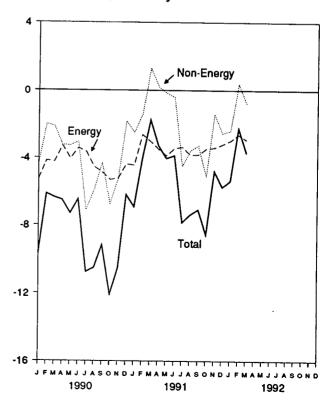


Table 1.6 Merchandise Trade Value

(Million Dollars)

	Petroleum		n	1	Energy		Non-	Total Merchandise		
	Exports	Imports	Balance	Exports	Imports	Balance	Energy Balance	Exports	Imports	Balance
1974 Total	792	24,668	-23,876	3,444	25,454	-22,010	18,126	99,437	103,321	-3,884
975 Total	907	25,197	-24,289	4,470	26,476	-22,006	31,557	108,856	99,305	9,551
••••	998	32,226	-31,228	4,226	33,996	-29,770	21,950	116,794	124,614	-7,820
976 Total	1.276	42.368	-41,093	4,184	44,537	-40,354	12,001	123,182	151,534	-28,353
977 Total	,			•	42,096	-38,215	8,010	145,847	176,052	-30,205
978 Total	1,561	39,526	-37,965	3,881		-54,377	30,455	186,363	210,285	-23,922
979 Total	1,914	56,715	-54,801	5,621	59,998	•	55,246	225,566	245,262	-19,696
980 Total	2,833	78,637	-75,803	7,982	82,924	-74,942		238,715	260,982	-22,267
981 Total	3,696	76,659	-72,963	10,279	81,360	-71,081	48,814			-27,510
982 Total	5,947	60,458	-54,511	12,729	65,409	-52,680	25,170	216,442	243,952	
983 Total	4,557	53,217	-48,659	9,500	57,952	-48,452	-3,957	205,639	258,048	-52,409
984 Total	4,470	56,924	-52,454	9,311	60,980	-51,669	-55,033	223,976	330,678	-106,703
985 Total	4,707	50,475	-45,768	9,971	53,917	-43,946	-73,765	218,815	336,526	-117,712
986 Total	3,640	35,142	-31,503	8,115	37,310	-29,195	-109,084	227,159	365,438	-138,279
987 Total	3,922	42,285	-38,363	7,713	44,220	-36,506	-115,613	254,122	406,241	-152,119
988 Total	3,693	38,787	-35,094	8,235	41,042	-32,807	-85,720	322,426	440,952	-118,526
989 Total	5,021	49,704	-44,683	9,869	52,779	-42,910	-66,490	363,812	473,211	-109,399
000 100000	486	5.923	-5,437	881	6,171	-5,290	-4,349	30,664	40,304	-9,640
990 January	436	4,704	-4,269	781	4,938	-4,157	-1.993	30,962	37,112	-6,150
February	430 514	4,867	-4,352	976	5,205	-4,229	-2,140	35,971	42,339	-6,369
March	- · ·			828	4,101	-3,274	-3,253	32,617	39,144	-6.527
April	392	3,970	-3,578			-4,041	-3,267	33,539	40,846	-7,308
May	390	4,650	-4,259	872	4,913		-3,056	34,470	40,946	-6,476
June	388	4,062	-3,674	866	4,286	-3,420		30,736	41,495	-10,759
July	385	4,238	-3,853	837	4,482	-3,645	-7,114		42,232	-10,509
August	568	5,380	-4,812	1,055	5,601	-4,546	-5,963	31,723	40,602	-9,157
September	682	5,797	-5,115	1,175	6,050	-4,875	-4,282	31,444		-12,085
October	893	6,331	-5,438	1,332	6,659	-5,327	-6,758	35,310	47,395	
November	961	6,371	-5,410	1,426	6,673	-5,247	-5,282	33,267	43,796	-10,529
December	807	5,292	-4,485	1,204	5,581	-4,377	-1,834	32,889	39,100	-6,211
Total	c 6,901	61,583	-54,682	12,233	64,661	-52,428	-49,290	393,592	495,311	-101,718
991 January	^R 881	^R 5,291	^R -4,410	^R 1,188	^R 5,627	^R -4,439	^R -2,492	^R 33,165	^R 40,095	^R -6,930
February		^R 3,667	^R -2.739	R 1,327	^R 3,958	^R -2,631	^R -1,424	^R 32,775	^R 36,830	^R -4,056
March	D	^R 3,698	^R -3,133	^R 951	^R 3,971	^R -3,020	^R 1,267	^R 36,820	^R 38,573	^R -1,753
April	D	^R 3,976	^R -3.579	R 748	R 4,232	^R -3,484	^R 198	^R 36,137	^R 39,424	^R -3,287
May	D	R 4,646	R-4,084	^R 1,031	^R 4,904	^R -3,873	^R -159	^R 36,024	^R 40,056	^R -4,033
,	Deee	^R 4,155	R-3.649	^R 936	R 4,387	R-3,451	^R -413	^R 35,480	^R 39,344	^R -3,864
June	D – . –	^R 4,092	R-3,579	^R 987	R 4,347	^R -3,360	^R -4,493	^R 33,444	^R 41,297	^R -7,853
July		R 4,092	R-4.094	^R 998	R 4,824	^R -3.826	^R -3,571	R 33,633	^R 41,030	^R -7,397
August			^R -4,034	^R 884	R 4,699	^R -3,815	R-3,271	^R 34,391	^R 41,478	R-7,087
September		^R 4,451	B 0 500	R 1.031	R 4,490	^R -3,459	R-5,111	^R 37,897	^R 46,466	^R -8,570
October	R 584	^R 4,182	^R -3,598	R943	^R 4,346	R-3,403	^R -1,406	^R 36,970	R 41,778	R-4,808
November	^R 488	^R 4,059	^R -3,570		H 4,340		^R -2,549	^R 34,996	^R 40,758	^R -5,762
December	^R 620	_ ^R 3,973	^R -3,353	^R 1,058	^R 4,271	^R -3,213	B 00,405	B 401 700	B 40,7 120	^R -65,399
Total	^R 6,954	^R 50,777	^R -43,823	^R 12,081	^R 54,056	^R -41,974	^R -23,425	^R 421,730	^R 487,129	-00,399
1992 January	604	3,654	-3,050	1,001	3,992	-2,991	-2,407	34,469	39,867	-5,398
February		3,154	-2,703	864	3,490	-2,626	^R 386	^R 36,860	R 39,099	^R -2,240
March		3,434	-3,017	817	3,748	-2,931	-766	39,676	43,373	-3,698
3-Month Total		10,242	-8,770	2,682	11,230	-8,549	-2,787	111,004	122,340	-11,336
1991 3-Month Total	2.374	12,655	-10,281	3,466	13,557	-10,090	-2,649	102,760	115,499	-12,739
1991 STRUILLI IVIOL	1,436	15,494	-14,058	2,638	16,314	-13,676	-8,482	97,597	119,755	-22,159

R=Revised data.

Notes: • Monthly data are not adjusted for seasonal variations. • 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. See Note 5 at end of section. • Totals may not equal sum of components due to independent rounding.

Sources: • 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..."U.S. Merchandise Trade," 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 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.
1992—Monthly FT900 issues. 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 1988 Final Revisions," August 18, 1989.
1989—"Report on U.S. Merchandise Trade 1988 Final Revisions," August 18, 1989.
1989—"Report on U.S. Merchandise Trade: 1990 Final Revisions," August 18, 1989.
1989—"Report on U.S. Merchandise Trade: 1990 Final Revisions," August 18, 1989.
1989—"Report on U.S. Merchandise Trade: 1980 Final Revisions," August 18, 1989.
1989—"Report on U.S. Merchandise Trade: 1980 Final Revisions," August 18, 1989.
1989—"Report on U.S. Merchandise Trade: 1980 Final Revisions," August 18, 1989.
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1989—"Report on U.S. Merchandise Trade: 1980 Final Revisions," August 18, 1989.
1989—"Report on U.S. Merchandise Trade: 1980 Final Revisions," August 18, 1989.
1980—"Revisions Trade, 1991 Final Revisions," August 18, 1989. issues. Petroleum Balance, Energy Balance, and Non-Energy Balance-Calculated by the Energy Information Administration.

Figure 1.6 Energy Consumption per Dollar of Gross Domestic Product

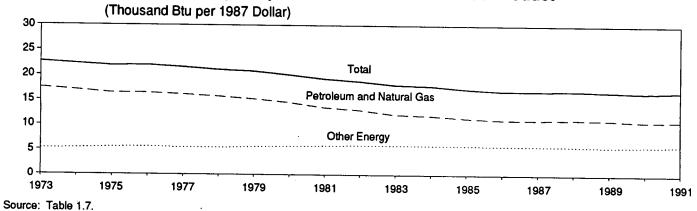


Table 1.7 Energy Consumption per Dollar of Gross Domestic Product

	Ene	rgy Consumption	n		Energy Cons	umption per Dol	ar of GDP	
	Petroleum and Natural Gas	Other Energy	Total ^a	Gross Domestic Product (GDP)	Petroleum and Natural Gas	Other Energy	Total	
		Quadrillion Btu		Trillion 1987 Dollars	Thousand Btu per 1987 Dollar			
1973 Year	57.352	16.930	74.282	3.269	17.5			
974 Year	55.187	17.356	72.543	3.248		5.2	22.7	
975 Year	52.678	17.868	70.546	3.222	17.0	5.3	22.3	
976 Year	55.520	18.842	74.362	3.381	16.4	5.5	21.9	
977 Year	57.053	19.235	76.288	3.381	16.4	5.6	22.0	
978 Year	57.966	20.123	78.089		16.1	5.4	21.6	
979 Year	57.789	21.109	78.898	3.704	15.7	5.4	21.1	
980 Year	54.596	21.359		3.797	15.2	5.6	20.8	
981 Year	51.859	22.131	75.955	3.776	14.5	5.7	20.1	
982 Year	48.736	22.131	73.990	3.843	. 13.5	5.8	19.3	
983 Year	47.411	23.112	70.848	3.760	13.0	5.9	18.8	
984 Year	49.558	24.543	70.524	3.907	12.1	5.9	18.1	
985 Year	48.756	24.543 25.189	74.101	4.149	11.9	5.9	17.9	
986 Year	48.904	25.333	73.945	4.280	11.4	5.9	17.3	
987 Year	50.610	26.235	74.237	4.405	11.1	5.8	16.9	
988 Year	52.775		76.845	4.540	11.1	5.8	16.9	
989 Year	53.595	27.420	80.195	4.719	11.2	5.8	17.0	
	23.395	27.753	81.348	4.837	11.1	5.7	16.8	
990 1 st Quarter	51.891	^R 28.105	^R 79.996	4.881	10.6	5.8		
2nd Quarter	54.136	R 28.506	^R 82.642	4.900	11.0	5.8	16.4	
3 rd Quarter	53.588	R 28,438	^R 82.026	4.903			16.9	
4 th Quarter	51.794	R 28.609	R 80.403	4.855	10.9 10.7	5.8	16.7	
Year	52.857	28.416	81.273	4.885	10.7	5.9 5.8	16.6 16.6	
	D	_	_			0.0	10.0	
991 1 st Quarter	^R 52.110	^R 28.231	^R 80.341	4.824	10.8	5.9	16.7	
2 nd Quarter	^R 52.291	^R 28.988	^R 81.279	4.841	^R 10.8	6.0	16.8	
3rd Quarter	^R 53.048	^R 28.716	^R 81.764	4.863	^R 10.9	5.9	R 16.8	
4 th Quarter	^R 53.357	^R 28.522	^R 81.879	4.868	11.0	^R 5.9	16.8	
Year	^R 52.705	^R 28.616	^R 81.321	4.849	10.9	5.9	16.8	

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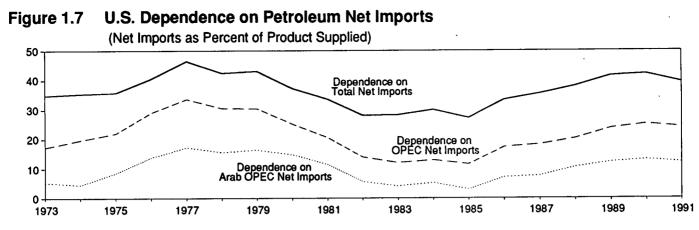
(Seasonally Adjusted at Annual Rates)

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

R=Revised data.

Notes: • Quarterly data are seasonally adjusted and shown at annual rates. • Geographic coverage is the 50 States and the District of Columbia. • Yearly data may not equal average of quarters due to seasonality adjustments and independent rounding. Sources: • Energy Consumption: Table 1.4. • Gross Domestic Product: 1973-1990-U.S. Department of Commerce, Bureau of Economic Analysis,

Sources. • Energy Consumption: Table 1.4. • Gross Domestic Product: 1973-1990-U.S. Department of Commerce, Bureau of Economic Analysis, Survey of Current Business, November 1991, Table 2. 1991 forward-U.S. Department of Commerce, Bureau of Economic Analysis, United States Department of Commerce News, April 28, 1992, Table 2.



Source: Table 1.8.

Table 1.8 U.S. Dependence on Petroleum Net Imports

		Net Imports ^a				oorts as Percen aum Products S	
	From Arab OPEC ^b	From OPEC ^c	From All Countries	Petroleum Products Supplied	From Arab OPEC ^b	From OPEC ^c	From All Countries
Annual Rate		Thousand Ba	rrels per Day	Percent			
079 Average	914	2.991	6.025	17,308	5.3	17.3	34.8
973 Average	752	3.277	5,892	16,653	4.5	19.7	35.4
974 Average	1,382	3,599	5,846	16,322	8.5	22.0	35.8
•	2.423	5,063	7,090	17,461	13.9	29.0	40.6
976 Average 977 Average	3,184	6,190	8,565	18,431	17.3	33.6	46.5
	2,962	5,747	8,002	18,847	15.7	30.5	42.5
978 Average	3,054	5,633	7,985	18,513	16.5	30.4	43.1
979 Average 980 Average	2,549	4,293	6,365	17,056	14.9	25.2	37.3
981 Average	1,844	3,315	5,401	16,058	11.5	20.6	33.6
982 Average	852	2,136	4,298	15,296	5.6	14.0	28.1
983 Average	630	1.843	4,312	15,231	4.1	12.1	28.3
984 Average	817	2.037	4,715	15,726	5.2	13.0	30.0
985 Average	470	1,821	4.286	15,726	3.0	11.6	27.3
986 Average	1,160	2.828	5,439	16,281	7.1	17.4	33.4
987 Average	1,272	3,053	5,914	16,665	7.6	18.3	35.5
	1,837	3,513	6,587	17,283	10.6	20.3	38.1
988 Average 989 Average	2,128	4,124	7,202	17,325	12.3	23.8	41.6
990 1 st Quarter	2,420	4,617	7,721	17,072	14.2	27.0	45.2
2 nd Quarter	2,245	4,397	7,733	16,952	13.2	25.9	45.6
3 rd Quarter	2,514	4,621	7.565	17,223	14.6	26.8	43.9
4 th Quarter	1,795	3,513	5,643	16,708	10.7	21.0	33.8
Average	2,243	4,285	7,161	16,988	13.2	25.2	42.2
991 1 st Quarter	1,957	3,699	5,633	16,427	11.9	22.5	34.3
2 nd Quarter	2,253	4,256	7,083	16,319	13.8	26.1	43.4
3rd Quarter	2,026	4,217	7,168	16,918	12.0	24.9	42.4
4th Quarter	1,958	3,954	6,401	16,891	11.6	23.4	37.9
Average	2,048	4,033	6,575	16,641	12.3	24.2	39.5

a Net Imports is 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.

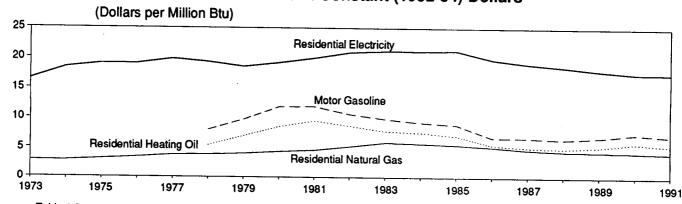
The Arab members of OPEC are Algeria, Iraq, Kuwait, Libya, Qatar, Saudi Arabia, and the United Arab Emirates. Net imports from the Neutral Zone between Kuwait and Saudi Arabia are included in net imports from Arab OPEC.

^c OPEC consists of Ecuador, Gabon, Indonesia, Iran, Nigeria, and Venezuela, as well as the Arab members.

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

 Annual averages may not equal average of quarters due to independent founding.
 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." 1981-1989—EIA, Petroleum Supply Annual. 1990 forward-EIA, Petroleum Supply Monthly. • Petroleum Products Supplied: Table 3.1a.

Cost of Fuels to End Users in Constant (1982-84) Dollars Figure 1.8



.

Source: Table 1.9.

Table 1.9 Cost of Fuels to End Users in Constant (1982-84) Dollars

	Motor	Gasoline		dential ling Oil	Resident Natural G		Resid Elect	
	Cents per Gallon	Dollars per Million Btu	Cents per Gallon	Dollars per Million Btu	Cents per Million Cubic Feet	Dollars per Million Btu	Cents per Kilowatthour	Dollars per Million Btu
973 Average	NA	NA	NA	N.A.			h	
974 Average	NA	NA	NA	NA NA	290.5	2.85	5.6	16.50
975 Average	NA	NA	NA		290.1	2.83	6.3	18.43
976 Average	NA	NA	NA	NA NA	317.8	3.12	6.5	19.07
977 Average	NA	NA	NA	NA	348.0	3.41	6.5	19.06
978 Average	100.0	8.00	75.2		387.8	3.81	6.8	19.83
979 Average	121.5	9.71		5.42	392.6	3.86	6.6	19.33
980 Average	148.2	11.85	97.0	6.99	410.5	4.03	6.3	18.57
981 Average	148.8	11.90	118.2	8.52	446.6	4.36	6.6	19.21
982 Average	132.7	10.61	131.4	9.47	471.9	4.60	6.8	19.99
983 Average	123.0	9.83	120.2	8.67	535.8	5.22	7.2	20.96
984 Average	115.3	9.83	108.2	7.80	608.4	5.90	7.2	21.19
985 Average	115.3		105.0	7.57	589.0	5.72	7.2	21.16
86 Average	84.9	8.89	97.9	7.06	568.8	5.52	7.2	21.25
87 Average	84.2	6.79	76.3	5.50	531.9	5.17	6.8	19.79
88 Average	04.∠ 81.4	6.74	70.7	5.10	487.7	4.73	6.5	19.09
89 Average		6.51	68.7	4.96	462.4	4.49	6.3	18.58
No Average	85.5	6.83	72.6	5.23	454.8	4.41	6.1	17.96
90 1 st Quarter	84.7	6.77	79.5	5.73	434.4	4.22	5.8	17.02
2 nd Quarter	86.4	6.91	69.7	5.02	469.5	4.56	6.1	17.98
3rd Quarter	94.5	7.56	75.2	5.42	531.9	5.16	6.3	18.34
4 th Quarter	106.5	8.52	92.1	6.64	435.3	4.23	5.9	17.17
Average	93.1	7.44	81.3	5.86	443.8	4.31	6.0	17.17
91 1 st Quarter	90.0	7.19	81.5	5.88	440.5			
2 nd Quarter	88.1	7.04	68.5	4.94	412.5 470.5	4.00	5.6	16.52
3rd Quarter	87.3	6.98	64.2	4.94		4.57	6.0	17.72
4th Quarter	86.1	6.88	69.6	5.02	524.5	5.09	6.1	18.01
Average	87.8	7.02	74.7		416.8	4.05	5.8	17.03
		1.92	14.1	5.39	427.3	4.15	5.9	17.43

NA=Not available.

Notes: • Fuel costs are calculated by using the Urban Consumer Price Index (CPI) developed by the Bureau of Labor Statistics. See Note 6 at end of section.

Consumers." • Conversion Factors: Tables A2, A5, and A9.

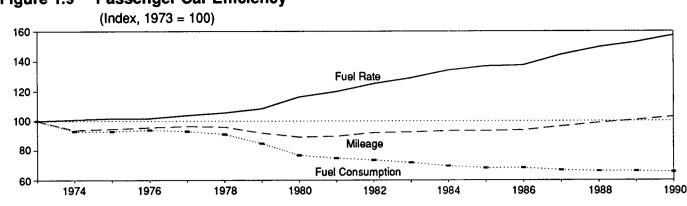


Figure 1.9 **Passenger Car Efficiency**

Source: Table 1.10.

Table 1.10 Passenger Car Efficiency

	Mi	eage	Fuel Co	nsumption	Fuel	Rate
	Miles per Car	Index 1973=100.0	Gallons per Car	Index 1973=100.0	Miles per Gallon	Index 1973=100.0
973	10,256	100.0	771	100.0	13.30	100.0
974	9,606	93.7	716	92.9	13.42	100.9
975	9,690	94.5	716	92.9	13.52	101.7
976	9,785	95.4	723	93.8	13.53	101.7
977	9,879	96.3	716	92.9	13.80	103.8
978	9,835	95.9	701	90.9	14.04	105.6
979	9,403	91.7	653	84.7	14.41	108.3
980	9,141	89.1	591	76.7	15.46	116.2
981	9,186	89.6	576	74.7	15.94	119.8
982	9,428	91.9	566	73.4	16.65	125.2
983	9,475	92.4	553	71.7	17.14	128.9
984	9,558	93.2	536	69.5	17.83	134.1
985	9,560	93.2	525	68.1	18.20	136.8
986	9,608	93.7	526	68.2	18.27	137.4
987	9,878	96.3	514	66.7	19.20	144.4
988	10,121	98.7	509	66.0	19.87	149.4
989	10,332	100.7	509	66.0	20.31	152.7
990 ^a	10,556	102.9	505	65.5	20.92	157.3

^a Preliminary data.

Note: Geographic coverage is the 50 States and the District of Columbia. Sources: Indices are prepared from statistics published by the U.S. Department of Transportation, Federal Highway Administration, Federal Highway Statistics Division. 1973-1985: Highway Statistics Summary to 1985, Table VM-201A; 1986 forward: Highway Statistics, Table VM-1.

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Table 1.11 Population-Weighted Heating Degree-Days

		April	1 through A	pril 30			July	Cumulative 1 through A		
Census				Percent	Change				Percent	Change
Divisions	Normal ^a	Normal ^a 1991	1992	Normal to 1992	1991 to 1992	Normal ^a	1991	1992	Normal to 1992	1991 to 1992
New England Connecticut, Maine, Massachusetts, New Hampshire.										
Rhode Island, Vermont	571	477	626	9.6	31.2	6,228	5,454	6,074	-2.5	11.4
Middle Atlantic New Jersey, New York, Pennsylvania	472	385	504	6.8	30.9	5,610	4,775	5,295	-5.6	10.9
East North Central Illinois, Indiana, Michigan, Ohio, Wisconsin	479	382	523	9.2	00.0	6.100	c c77	5 750		
Wisconsin West North Central Iowa, Kansas, Minnesota, Missouri, Nebraska, North Dakota, South Dakota	479	362	481	7.4	36.9 30.4	6,120 6,433	5,577 5,944	5,756 5,868	-5.9 -8.8	3.2 -1.3
South Atlantic Delaware, Florida, Georgia, Maryland and the District of Columbia, North Carolina, South Carolina, Virginia,										
West Virginia	175	136	205	17.1	50.7	2,951	2,367	2,710	-8.2	14.5
Alabama, Kentucky, Mississippi, Tennessee	188	97	196	4.3	102.1	3,487	2,877	3,159	-9.4	9.8
West South Central Arkansas, Louisiana, Oklahoma, Texas	78	45	82	(°)	(°)	2,296	2,046	2,027	-11.7	9
Mountain Arizona, Colorado, Idaho, Montana, Nevada, New Mexico, Utah, Wyoming	455	451	313	-31,2	-30.6	5,194	5.041	4.713	-9.3	-6.5
Pacific California, Oregon,	-00			-01.6	-00.0	0,194	0,041	4,713	-3.3	-0.3
Washington	321	326	186	-42.1	-42.9	3,021	2,947	2,485	-17.7	-15.7
U.S. Average ^b	347	288	346	3	20.1	4,506	4,010	4,149	-7.9	3.5

^a "Normal" is based on calculations of data from 1951 through 1980.
 ^b Excludes Alaska and Hawaii.
 ^c Percent change not meaningful: normal less than 100 or ratio incalculable. Source: See Note 7 at end of section.

Table 1.12 Population-Weighted Cooling Degree-Days

		April	1 through A	pril 30				Cumulative		
Census				Percent	Change				Percent	Change
Divisions	Normal ^a	a 1991	1992	Normal to 1992	1991 to 1992	Normal ^a	1991	1992	Normal to 1992	1991 to 1992
New England Connecticut, Maine, Massachusetts, New Hampshire,		_						_		
Rhode Island, Vermont	0	3	0	(°)	(°)	0	3	0	(°)	(°)
Middle Atlantic New Jersey, New York, Pennsylvania	0	15	o	(°)	(°)	o	15	0	(°)	(°)
East North Central Illinois, Indiana, Michigan, Ohio, Wisconsin	0	11	4	(°)	(°)	o	11	4	(°)	(°)
West North Central Iowa, Kansas, Minnesota, Missouri, Nebraska, North Dakota, South Dakota	8	12	12	(°)	(°)	14	17	12	(°)	(°)
South Atlantic Delaware, Florida, Georgia, Maryland and the District of Columbia, North Carolina, South Carolina, Virginia,				(6)	(6)		050	400		
West Virginia	76	120	74	(°)	(°)	151	253	160	6.0	-36.8
East South Central Alabama, Kentucky, Mississippi, Tennessee	34	46	43	(°)	(°)	50	69	46	(°)	(°)
West South Central Arkansas, Louisiana, Oklahoma, Texas	117	140	104	-11.1	-25.7	145	200	141	-2.8	-29.5
Mountain Arizona, Colorado, Idaho, Montana, Nevada, New Mexico, Utah, Wyoming	19	22	51	(°)	(°)	22	26	53	(°)	(°)
	19	~~				<u> </u>	20	- 33		
Pacific California, Oregon, Washington	O	o	11	(°)	(°)	0	o	11	(°)	(°)
U.S. Average ^b	28	44	32	(°)	(°)	45	74	50	(°)	(°)

^a "Normal" is based on calculations of data from 1951 through 1980.
 ^b Excludes Alaska and Hawaii.
 ^c Percent change is not meaningful: normal is less than 100 or ratio is incalculable. Source: See Note 7 at end of section.

Energy Summary Notes

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

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 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 the Appendix.

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 the Appendix. For further information on electricity, see "Note for imports and exports of electricity" under Note 8 of the Notes and Sources for the Energy Consumption Section.

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 the Appendix. For more information on electricity, see "Note for imports and exports of electricity" under Note 8 of the Notes and Sources for the Energy Consumption Section.

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., reexports) 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.

6. The Consumer Price Index: The values for the Consumer Price Index, All Urban Consumers, All Items, 1982-84=100, are as follows:

1973	44.4	1989:	1st Quarter	121.7
1974	49.3		2nd Quarter	123.7
1975	53.8		3rd Quarter	124.7
1976	56.9		4th Quarter	125.9
1977	60.6		Year	124.0
1978	65.2	1990:	1st Quarter	128.0
1979	72.6		2nd Quarter	129.3
1980	82.4		3rd Quarter	131.6
1981	90.9		4th Quarter	133.7
1982	96.5		Year	130.7
1983	99.6	1991:	1 st Quarter	134.8
1984	103.9		2nd Quarter	135.6
1985	107.6		3rd Quarter	136.7
1986	109.6		4th Quarter	137.7
1987	113.6		Year	136.2
1988	118.3			

7. Degree-Days: Degree-days are relative measurements of outdoor air temperature. Cooling degree-days are defined as deviations of the mean daily temperature at a sampling station above a base temperature equal to 65° F by convention. Heating degree-days are deviations of the mean daily temperature below 65° F. For example, if a weather station recorded a mean daily temperature of 78° F, cooling degree-days for that station would be 13 (and heating degree-days, 0). A weather station recording a mean daily temperature of 40° F would report 25 heating degree-days (and 0 cooling degree-days).

There are several degree-day databases maintained by the National Oceanic and Atmospheric Administration. The information published in the *Monthly Energy Review (MER)* 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 1980 by the U.S. Department of Commerce, Bureau of the Census. The data shown in the *MER* are available sooner than the Historical Climatology Series 5-1 and 5-2 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 1992 was 7.0 quadrillion Btu. Petroleum products accounted for 38 percent¹ of the energy consumed in February 1992, while natural gas accounted for 30 percent and coal accounted for 21 percent.

Residential and commercial sector consumption was 2.8 quadrillion Btu in February 1992, up 4 percent from the February 1991 level. The sector accounted for 40 percent of February 1992 total consumption, down 1 percentage point from its 41 percent share in February 1991.

Industrial sector consumption was 2.5 quadrillion Btu in February 1992, up 6 percent from the February 1991 level. The industrial sector accounted for 35 percent of February 1992 total consumption, about the same share as in February 1991.

Transportation sector consumption of energy was 1.7 quadrillion Btu in February 1992, up 6 percent from the February 1991 level. The sector accounted for 25 percent of February 1992 total consumption, up 1 percentage point from its 24 percent share in February 1991.

Electric utility consumption of energy totaled 2.3 quadrillion Btu in February 1992, up 3 percent from the February 1991 level. Coal contributed 54 percent of the energy consumed by electric utilities in February 1992, while nuclear electric power contributed 25 percent; hydroelectric power 9 percent; natural gas 8 percent; petroleum, 4 percent; and wood, waste, geothermal, wind, photovoltaic, and solar thermal energy, about 1 percent.

Table 2.1 Energy Consumption Summary for February 1992 (Quadrillion Btu)

		End-Us	e Sectors				
Energy Source	Residential and Commercial Industrial		Transportation	Total ^a	Electric Utilities	Total	
Coal	0.016	0.214	(^b)	0.229	1.250	1.479	
Natural Gas ^c	1.099	.760	.074	1.935	.176	2.111	
Petroleum	.205	.696	1.650	2.551	.087	2.638	
luclear Electric Power	-	_	-		.564	.564	
lydroelectric Power		.003	-	.òo3	.203	.206	
let Imports of Coal Coke		.003	-	.003	_	.003	
)ther ^d		-		-	.015	.015	
Primary Consumption	1.321	1.676	1.724	4.720	2.296	7.016	
lectricity	.508	.260	.001	.769	-	-	
Net Consumption	1.829	1.935	1.725	5.490	_		
lectrical System Energy Losses	1.009	.515	.002	1.526	-	-	
Total Consumption ^e	2.838	2.451	1.728	7.016	-	-	

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

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

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

 ^d "Other" is electricity generated for distribution from wood, waste, geothermal, wind, photovoltaic, and solar thermal energy.
 ^e Excludes wood, waste, geothermal, wind, photovoltaic, and solar thermal energy, except for small amounts used by electric utilities to generate electricity for distribution.

=Not applicable.

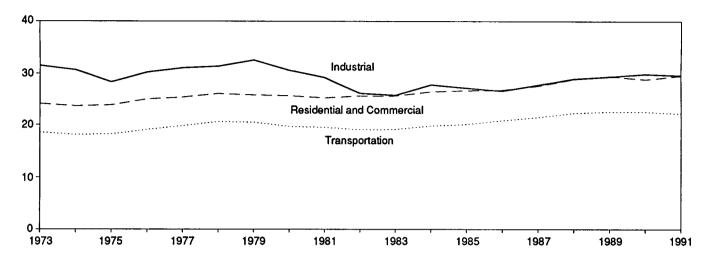
Note: Totals may not equal sum of components due to independent rounding.

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

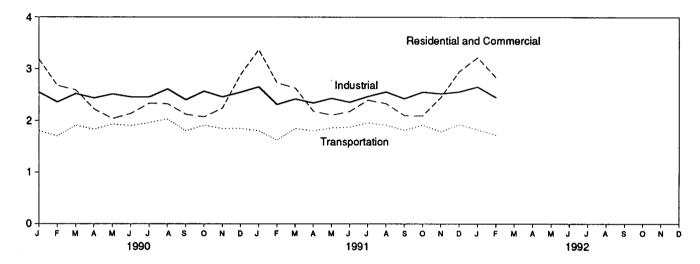
¹Percentage changes are based on numbers in the following tables.

Figure 2.1 Energy Consumption by End-Use Sector (Quadrillion Btu)

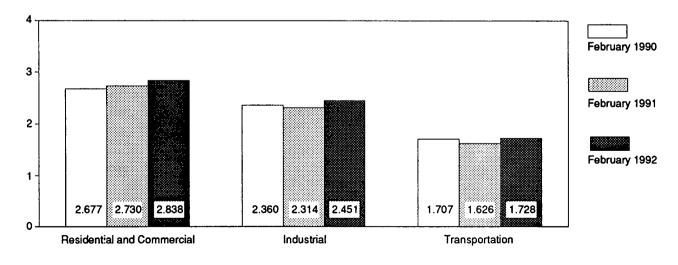
Consumption by End-Use Sector, 1973-1991



Consumption by End-Use Sector, Monthly



Consumption by End-Use Sector, February



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

Table 2.2 Energy Consumption by End-Use Sector

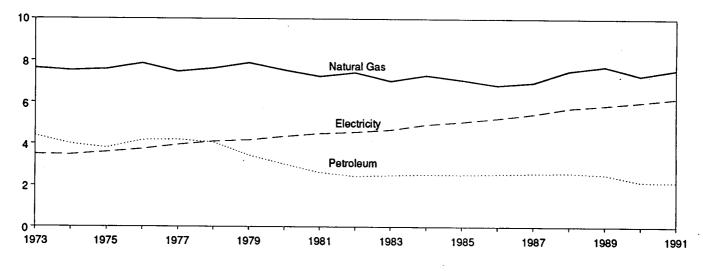
(Quadrillion Btu)

	Residential a	nd Commercial	Indu	istrial	Trans	portation		
	Net	Total	Net	Total	Net	Total	Net	Total
973 Total	15.766	24.143	25.917	31.528	18.584	18.605	60.274	74.282
974 Total	15.246	23.724	24,994	30,696	18.095	18.117	58.341	72.543
975 Total		23,900	22.737	28.401	18.219	18.244	56.157	70.546
976 Total		25.020	24.038	30.234	19.076	19.101	59.119	74.362
977 Total		25.387	24.593	31.075	19.794	19.819	60.223	76.288
978 Total		26.088	24.637	31.388	20.589	20.611	61.251	78.089
				+				78.898
979 Total		25.809	25.679	32.615	20.447	20.472	61.836	
980 Total		25.653	23.854	30.609	19.669	19.695	58.597	75.955
981 Total		25.243	22.533	29.238	19.480	19.507	56.556	73.990
982 Total		25.630	20.020	26.144	19.043	19.069	53.697	70.848
983 Total		25.630	19.401	25.756	19.109	19.135	52.907	70.524
984 Total		26.452	21.183	27.846	19.773	19.801	55.923	74.101
985 Total	14.839	26.682	20.520	27.200	20.036	20.067	55.391	73.945
986 Total	14.791	26.813	20.102	26.610	20.781	20.812	55.678	74.237
987 Total	15.152	27.596	21.113	27.807	21.415	21.444	57.678	76.845
988 Total	16.012	28.915	22.082	28.978	22.269	22,300	60.366	80.195
989 Total		29.413	22.292	29.377	22.524	22.554	61.089	81.348
990 January	2.023	3.181	2.021	2.547	1.806	1.808	5.850	7.537
February		2.677	1.832	2.360	1.705	1,707	5.231	6,744
March		2.593	1.937	2.521	1.912	1.914	5.399	7.027
April		2.226	1.876	2.437	1.835	1.837	4,991	6.498
May		2.042	1.897	2.514	1.934	1.937	4.860	6.491
June		2.140	1.805	2.457	1.904	1.907	4.671	6.505
July		2.338	1.824	2.456	1.959	1.962	4.800	6.760
		2.328	1.951	2.611	2,029	2.032	4.994	6.975
August		2.328	1.843	2.403	1,804	1.806	4.654	6.336
September								
October		2.075	1.971	2.568	1.913	1.916	4.939	6.558
November		2.241	1.891	2.458	1.847	1.850	5.014	6.547
December Total		2.887 28.857	1.940 22.788	2.549 29.879	1.849 22.497	1.852 22.528	5.523 60.929	7.291 81.273
991 January	^R 2.135	^R 3.374	^R 2.083	^R 2.652	^R 1.806	^R 1.808	^R 6.025	^R 7.837
February		^a 2.730	^R 1.821	^R 2.314	R 1.624	^R 1.626	^R 5.198	^R 6.671
March		^P 2.631	R 1.859	^R 2.420	^R 1.849	R 1.852	R 5.289	^R 6.901
April		^R 2.185	^R 1.796	R 2.344	^R 1.804	^R 1.807	^R 4.838	^R 6.335
		^R 2.108	^{P1.796}	R 2.432	^R 1.859	^R 1.862	^R 4.674	R 6.403
May	B 000	80.100	BA 740	Bo 050		^R 1.880	^R 4.607	0.403 Be 404
June		^R 2.181	^R 1.746	^R 2.358	^R 1.877	81.000	^R 4.821	^R 6.421 ^R 6.831
July		^R 2.398	^R 1.833	^R 2.469	^R 1.959	^A 1.962	"4.821 B 4.040	"0.831 Beere
August		^R 2.333	^R 1.919	^R 2.558	^R 1.917	^R 1.920	^R 4.842	^R 6.813
September		2.104	^R 1.873	R 2.427	^R 1.813	^R 1.816	^R 4.689	^R 6.347
October		^R 2.095	^R 1.967	^R 2.554	^R 1.914	^R 1.917	4.957	6.564
November	1.432	2.452	^R 1.948	^R 2.523	^R 1.789	^R 1.792	^R 5.169	^R 6.766
December	^R 1.811	^R 2.949	^R 1.984	^R 2.559	_ ^A 1.922	^R 1.925	^R 5.717	^R 7.433
Total	^R 16.064	^A 29.540	^R 22.623	^R 29.610	^R 22.133	^R 22.165	^R 60.826	^R 81.321
992 January		^R 3.222	^R 2.087	^R 2.655	^R 1.828	^R 1.831	^R 5.941	^R 7.708
February		2.838	1.935	2.451	1.725	1.728	5.490	7.016
2-Month Total		6.059	4.023	5.106	3.553	3.558	11.431	14.724
991 2-Month Total		6.104	3.903	4.967	3.430	3.435	11.224	14.508
990 2-Month Total	3.718	5.858	3.852	4.908	3.511	3.516	11.081	14.282

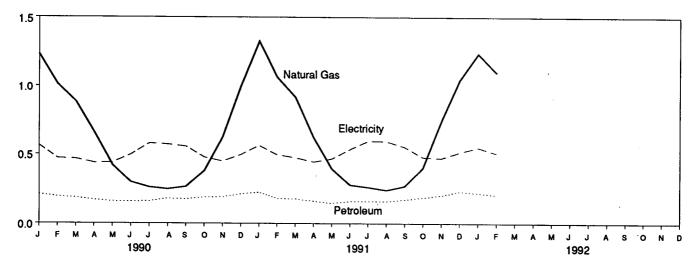
R=Revised data. Notes: • Geographic coverage is the 50 States and the District of Columbia. • Totals may not equal sum of components due to independent rounding and the use of sector-specific conversion factors for natural gas and coal. Additional Notes and Sources: See end of section.

Figure 2.2 Residential and Commercial Energy Consumption (Quadrillion Btu)

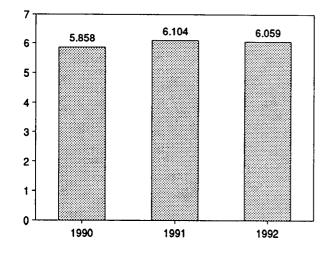
Consumption by Major Sources, 1973-1991



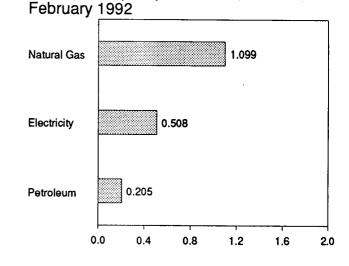
Consumption by Major Sources, Monthly



Total Consumption, January and February



Consumption by Major Sources,



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

Table 2.3 Residential and Commercial Energy Consumption

(Quadrillion Btu)

	Coal	Natural Gas ^a	Petroleum	Primary Consumption	Electricity	Net Consumption	Electrical System Energy Losses	Total Consumption ^t
1070 T-4-1	0.254	7.626	4.391	12.270	3.495	15.766	8.377	24.143
973 Total	.257	7.518	3.996	11.771	3.475	15.246	8.478	23.724
974 Total				11.595	3.604	15.200	8.700	23,900
975 Total	.209	7.581	3.805		3.747	15.997	9.023	25.020
976 Total	.203	7.866	4.181	12.250	3.955	15.828	9.559	25.387
977 Total	.205	7.461	4.206	11.873			10.065	26.088
978 Total	.214	7.624	4.070	11.908	4.116	16.023		25.809
979 Total	.187	7.891	3.448	11.525	4.184	15.709	10.101	25.653
980 Total	.145	7.540	3.035	10.721	4.355	15.075	10.578	
981 Total	.167	7.243	2.634	10.043	4.497	14.541	10.703	25.243
982 Total	.187	7.427	2.449	10.063	4.566	14.629	11.001	25.630
983 Total	.192	7.024	2.498	9.715	4.680	14.395	11.235	25.630
984 Total	.209	7.292	2.535	10.036	4.928	14.964	11.487	26.452
985 Total	.176	7.079	2.522	9.777	5.061	14.839	11.843	26.682
986 Total	.176	6.825	2.555	9.556	5.235	14.791	12.022	26.813
987 Total	.162	6.954	2.593	9.709	5.443	15.152	12.443	27.596
988 Total	.168	7.513	2.608	10.288	5.724	16.012	12.903	28.915
989 Total	.146	7.731	2.535	10.411	5.859	16.270	13.143	29.413
990 January	.016	1.232	.210	1.458	.564	2.023	1.158	3.181
February	.015	1.014	.194	1.223	.472	1.696	.982	2.677
March	.013	.886	.186	1.085	.467	1.552	1.041	2.593
April	.012	.661	.170	.842	.439	1.281	.945	2.226
May	.008	.422	.160	.590	.441	1.031	1.011	2.042
June	.009	.297	.158	.463	.498	.961	1.179	2.140
July	.012	.260	.161	.433	.580	1.013	1.325	2.338
August	.012	.247	.180	.438	.572	1.010	1.318	2.328
September	.009	.264	.175	.449	.557	1.005	1.119	2.124
October	.010	.380	.188	.577	.478	1.055	1.020	2.075
November	.014	.622	.191	.827	.450	1.278	.964	2.241
December	.024	.997	.212	1.234	.497	1.731	1.156	2.887
Total	.156	7.283	2.182	9.621	6.015	15.636	13.221	28.857
991 January	.020	^R 1.328	.224	^R 1.572	.563	^R 2.135	1.239	R 3.374
February	.014	^R 1.064	.180	^R 1.258	.496	^R 1.753	.977	^R 2.730
March	.013	^R .918	.177	^R 1.107	.475	^R 1.582	1.049	^R 2.631
April	R.009	P.622	.162	^R .793	.445	^R 1.238	.947	^A 2.185
May	.008	^H .397	.147	^R .552	.467	^R 1.019	1.089	^R 2.108
June	^R .007	^R .277	.161	^R .446	.536	^R .982	1.199	R 2.181
July	.010	.261	.160	431	.597	1.028	1.371	^R 2.398
August	.009	R.240	.161	^R .410	.594	1.003	1.329	^R 2.333
September	.007	.269	.173	^R .449	.553	_ 1.003	1.101	2.104
October	^R .008	^R .403	.188	^R .599	.478	^R 1.077	1.017	^R 2.095
November	^R .016	^R .742	.202	.960	.472	1.432	1.020	2.452
December	^R .020	^R 1.046	.230	^R 1.296	.515	^R 1.811	1.138	^R 2.949
Total	^R .141	^R 7.567	2.165	^R 9.874	6.190	^R 16.064	13.476	^R 29.540
992 January	.019	^R 1.239	.219	^R 1.476	.549	^R 2.026	1.196	^R 3.222
February	.016	1.099	.205	1.321	.508	1.829	1.009	2.838
2-Month Total	.035	2.338	.424	2.797	1.058	3.855	2.204	6.059
1991 2-Month Total	.034	2.392	.404	2.830	1.058	3.888	2.216	6.104
990 2-Month Total	.032	2.246	.404	2.682	1.037	3.718	2.140	5.858

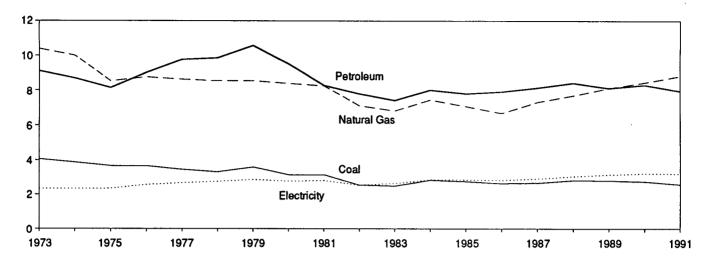
 ^a Includes supplemental gaseous fuels.
 ^b Excludes wood, waste, geothermal, wind, photovoltaic, and solar thermal energy, except for small amounts used by electric utilities to generate electricity for distribution.

R=Revised data.

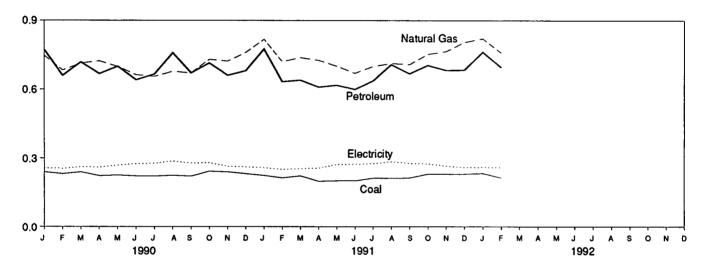
Notes: • Geographic coverage is the 50 States and the District of Columbia. • Totals may not equal sum of components due to independent rounding. Additional Notes and Sources: See end of section.

Figure 2.3 Industrial Energy Consumption (Quadrillion Btu)

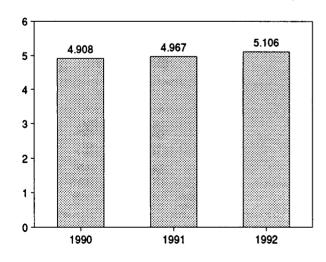
Consumption by Major Sources, 1973-1991



Consumption by Major Sources, Monthly



Total Consumption, January and February



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

Consumption by Major Sources, February 1992

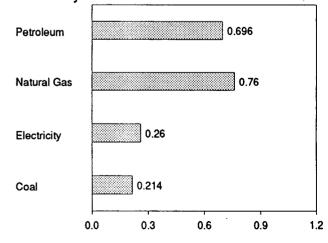


Table 2.4 Industrial Energy Consumption

(Quadrillion Btu)

	Coal	Natural Gas ^a	Petroleum	Hydro- electric Power	Net Imports of Coal Coke	Primary Consumption	Electricity	Net Consumption	Electrical System Energy Losses	Total Consumption ^b
1973 Total		10.388	9.104	0.035	-0.007	23.576	2.341	25.917	5.611	31,528
1974 Total		10.004	8.694	.033	.056	22.657	2.337	24.994	5,701	30,696
1974 Total		8.532	8.146	.033	.014	20.391	2.346	22.737	5.664	28,401
1976 Total		8.762	9.010	.032	(8)	21.465	2.573	24.038	6,196	30.234
		8.635	9.774	.033	.015	21.911	2.682	24.593	6.481	31.075
1977 Total							2.002	24.637	6.751	31.388
1978 Total		8.539	9.867	.032	.125	21.876		25.679	6.935	32.615
1979 Total		8.549	10.568	.034	.063	22.807	2.873			30.609
1980 Total		8.395	9.525	.033	035	21.073	2.781	23.854	6.755	
1981 Total		8.257	8.285	.033	016	19.715	2.817	22.533	6.705	29.238
1982 Total		7.121	7.794	.033	022	17.479	2.542	20.020	6.124	26.144
1983 Total		6.826	7.420	.033	016	16.753	2.648	19.401	6.356	25.756
1984 Total		7.448	8.014	.033	011	18.325	2.859	21.183	6.663	27.846
1985 Total		7.080	7.805	.033	013	17.665	2.855	20.520	6.681	27.200
1986 Total	2.643	6.690	7.920	.032	017	17.269	2.834	20.102	6.507	26.610
1987 Total	2.673	7.323	8.148	.032	.009	18.185	2.928	21.113	6.694	27.807
1988 Total		7.696	8.427	.032	.040	19.023	3.059	22.082	6.895	28.978
1989 Total		8.131	8.130	.033	.030	19.134	3.158	22. 292	7.085	29.377
1990 January		.748	.774	.003	(s)	1.764	.257	2.021	.527	2.547
February		.683	.660	.003	(S)	1.577	.255	1.832	.529	2.360
March		.714	.719	.003	.001	1.675	.262	1.937	.584	2.521
April		.724	.668	.003	001	1.616	.260	1.876	.560	2.437
May		.699	.700	.003	(S)	1.628	.269	1.897	.617	2.514
June		.663	.641	.003	.001	1.530	.275	1.805	.652	2.457
July		.656	.666	.003	.003	1.547	.277	1.824	.632	2.456
August		.678	.760	.002	001	1.664	.287	1.951	.661	2.611
September		.671	.671	.002	.001	1.565	.278	1.843	.560	2.403
October		.731	.715	.002	.001	1.691	.280	1.971	.597	2.568
November		.723	.661	.002	001	1.626	.265	1.891	.567	2.458
		.762	.681	.002	.001	1.678	.262	1.940	.609	2.549
December Total		8.452	8.316	.033	.005	19.562	3.226	22.788	7.091	29.879
1991 January	R.224	^R .819	.777	.003	.001	^R 1.824	.259	^R 2.083	.570	^R 2.652
February		P.721	.633	.003	.001	^R 1.570	.251	^R 1.821	.494	^R 2.314
March		.739	.640	.003	.002	^R 1.605	.254	^R 1.859	.561	R 2.420
April		P.727	.610	.003	.001	^R 1.539	.257	^R 1.796	.548	^R 2.344
May		^R .701	.618	.003	.001	^R 1.523	.273	^R 1.796	.636	R 2.432
June		R.670	.600	.003	001	P 1.472	.274	^R 1.746	.612	^R 2.358
July		R.700	.637	.003	.003	R 1.555	.277	^B 1.833	.636	^R 2.469
		^R .713	.708	.003	003	^R 1.633	.285	^R 1.919	.639	P 2.558
August		^R .708	.668	.002	002	^R 1.595	.205	^R 1.873	.554	^R 2.427
September		P.754				^R 1.691	.276	^A 1.967	.534	^R 2.554
October			.705	.002	001	- 1.091 B 4.000		^R 1.948		^R 2.523
November	^A .230	^R .766	.683	.002	.001	^R 1.683	.266	···1.948	.574	^A 2,523
December	^R .231	^R .806	.684	.002	(s)	^R 1.723	.260	^R 1.984	.575	
Total	P 2.587	^R 8.821	7.964	.033	.009	^R 19.414	3.209	^R 22.623	6.987	^A 29.610
1992 January		^R .822	.764	.003	.004	^R 1.826	.261	^R 2.087	.568	R 2.655
February		.760	.696	.003	.003	1.676	.260	1.935	.515	2.451
2-Month Total		1.582	1.459	.006	.006	3.502	.521	4.023	1.083	5.106
1991 2-Month Total		1.540	1.410	.006	.002	3.394	.509	3.903	1.063	4.967
1990 2-Month Total		1.431	1.433	.006	(8)	3.341	.511	3.852	1.056	4.908

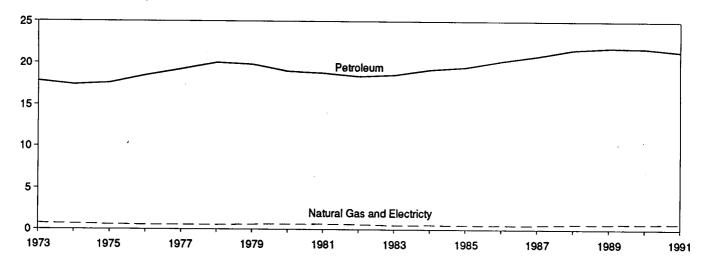
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 ^a Includes supplemental gaseous fuels.
 ^b Excludes wood, waste, geothermal, wind, photovoltaic, and solar thermal energy, except for small amounts used by electric utilities to generate electricity for distribution.

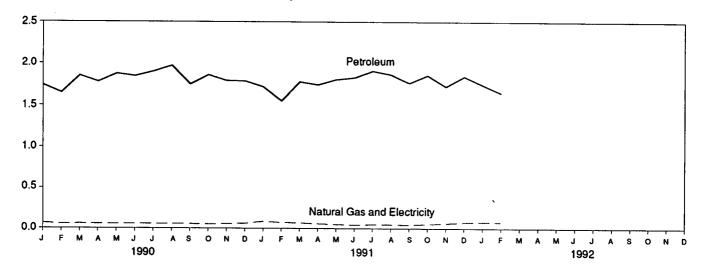
R=Revised data. (s)=Less than +0.5 trillion Btu and greater than -0.5 trillion Btu. Notes: • Geographic coverage is the 50 States and the District of Columbia. • Totals may not equal sum of components due to independent rounding. Additional Notes and Sources: See end of section.

Figure 2.4 Transportation Energy Consumption (Quadrillion Btu)

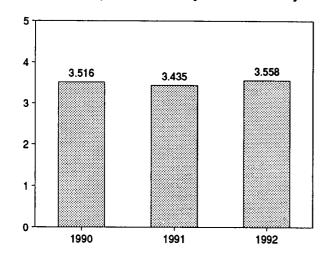
Consumption by Major Sources, 1973-1991



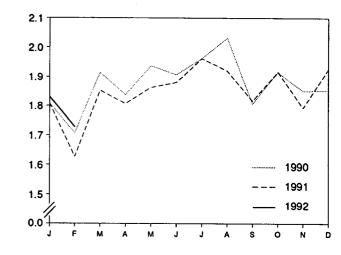
Consumption by Major Sources, Monthly



Total Consumption, January and February



Total Consumption, Monthly



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

Table 2.5 Transportation Energy Consumption

(Quadrillion Btu)

	Coal	Natural Gas ^a	Petroleum	Primary Consumption	Electricity	Net Consumption	Electrical System Energy Losses	Total Consumption
				-0.570		40.504	0.020	18.605
973 Total	0.003	0.743	17.831	18.576	0.008	18.584	.022	18.117
974 Total	.002	.685	17.399	18.086	.009	18.095	.022	18.244
975 Total	.001	.595	17.614	18.209	.010	18.219		
976 Total	(s)	.559	18.506	19.065	.010	19.076	.025	19.101
977 Total	(s)	.543	19.241	19.784	.010	19.794	.025	19.819
978 Total	(`°́)	.539	20.041	20.580	.009	20.589	.022	20.611
979 Total	(°)	. 6 12	19.825	20.436	.010	20.447	.025	20.472
980 Total	(°)	.650	19.008	19.658	.011	19.669	.026	19.695
981 Total	(°)	.658	18.811	19.469	.011	19.480	.026	19.507
982 Total	(°)	.612	18.420	19.032	.011	19.043	.026	19.069
983 Total	(°)	.505	18.593	19.098	.011	19.109	.026	19.135
984 Total	i°)	.545	19.216	19.761	.012	19.773	.028	19.801
985 Total	205	.519	19,504	20.024	.013	20.036	.030	20.067
986 Total	205	.499	20.269	20.768	.013	20.781	.030	20.812
987 Total	201	.535	20.867	21,402	.013	21.415	.029	21,444
988 Total	201	.632	21.624	22.255	.014	22.269	.031	22.300
	201	.648	21.861	22.510	.014	22.524	.031	22.554
989 Total	(1)	.040	£1.001	. 22.310	.014	22.324	.001	22.000
990 January	(°)	.066	1.739	1.805	.001	1.806	.002	1.808
February	(°)	.056	1.648	1.704	.001	1.705	.002	1.707
March	(°)	.058	1.853	1.911	.001	1.912	.002	1.914
April	(°)	.056	1.778	1.834	.001	1.835	.002	1.837
May	(°)	.057	1.876	1.933	.001	1.934	.003	1.937
June	i ° j	.056	1.847	1.903	.001	1.904	.003	1.907
July	205	.056	1.902	1.957	.001	1.959	.003	1.962
August	<u></u> ትና	.057	1.971	2.028	.001	2.029	.003	2.032
September	205	.054	1,749	1.802	.001	1.804	.002	1.806
October	205	.052	1.861	1.912	.001	1.913	.003	1.916
November	201	.055	1,792	1.846	.001	1.847	.002	1.850
December	201	.060	1.788	1.848	.001	1.849	.003	1.852
Total	(°)	.680	21.804	22.483	.014	22.497	.031	22.528
004 ((°)	^R .085	1 710	^R 1.805	.001	^R 1.806	.003	^R 1.808
991 January		ⁿ .085 ^R .071	1.719	^R 1.623	.001	^R 1.624	.002	^R 1.626
February		¹¹ .071 ^R .068	1.552	^R 1.848	.001	^R 1.849	.002	^R 1.852
March		^R .058	1.780	^R 1.803	.001	^R 1.804	.002	^R 1.807
April		··.058	1.745			^R 1.859	.002	^R 1.862
May	(°)	^R .049	1.808	^R 1.857	.001		.003	^R 1.880
June		^R .044	1.831	^R 1.875	.001	^R 1.877		^R 1.962
July	(°)	^R .047	1.910	^R 1.957	.001	^R 1.959	.003	^{11,962} ^R 1,920
August	(°)	^R .047	1.868	^R 1.916	.001	^R 1.917	.003	
September	(°)	^R .045	1.767	^R 1.812	.001	^R 1.813	.003	^R 1.816
October	(°)	^R .053	1.860	^R 1.913	.001	^R 1.914	.002	^A 1.917
November	(°)	^B .063	1.725	^R 1.788	.001	^R 1.789	.002	^R 1.792
December	(°)	^R .074	1.847	^R 1.921	.001	_ ^R 1.922	.003	^R 1.925
Total	(°)	^R .706	21.413	^R 22.118	.015	^R 22.133	.032	^R 22.165
992 January	(°)	^R 081	1.745	^R 1.827	.001	^R 1.828	.003	^R 1.831
	(°)	.074	1.650	1.724	.001	1,725	.002	1.728
February 2-Month Total	$\left(\begin{array}{c} c \\ c \end{array} \right)$.156	3.396	3.551	.001	3.553	.005	3.558
				0 407		9 490	.005	3.435
991 2-Month Total	(°)	.157	3.271	3.427 3.509	.002 .002	3.430 3.511	.005	3,435 3,516
990 2-Month Total	(*)	.122	3.387	3.308	.002	3.311	.005	3.310

^a Pipeline fuel only, including supplemental gaseous fuels.
 ^b Excludes wood, waste, geothermal, wind, photovoltaic, and solar thermal energy, except for small amounts used by electric utilities to generate electricity for distribution.
 ^c Since 1978, the small amounts of coal consumed for transportation are reported as industrial sector consumption.

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

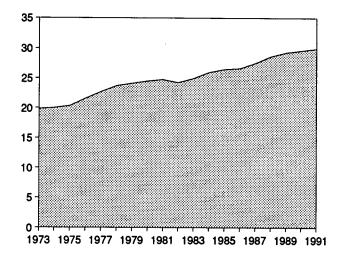
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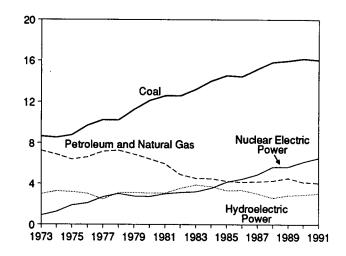
Notes: • Geographic coverage is the 50 States and the District of Columbia. • Totals may not equal sum of components due to independent rounding. Additional Notes and Sources: See end of section.

Figure 2.5 Energy Input at Electric Utilities (Quadrillion Btu)

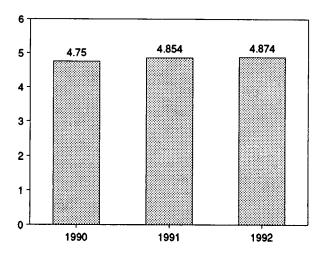
Total Input, 1973-1991



Input by Major Sources, 1973-1991

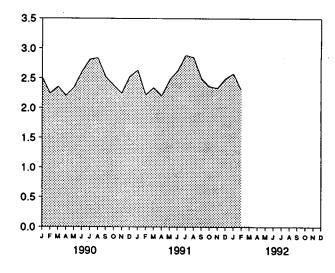


Total Input, January and February

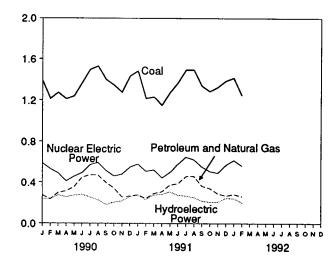


Note: Because vertical scales differ, graphs should not be compared. Source: Table 2.6.

Total Input, Monthly



Input by Major Sources, Monthly



Input by Major Sources, February 1992

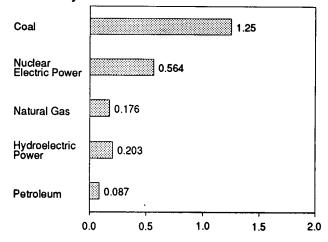


Table 2.6 Energy Input at Electric Utilities

(Quadrillion Btu)

	Coal	Natural Gas ^a	Petroleum ^b	Nuclear Electric Power	Hydro- electric Power ^c	Other ^d	Total
		<u> </u>			·		
973 Total	8.658	3.748	3.515	0.910	2.975	0.046	19.852
974 Total	8.534	3.519	3.365	1.272	3.276	.056	20.022
975 Total	8.786	3.240	3,166	1.900	3.187	.072	20.350
976 Total	9.720	3,152	3,477	2.111	3.032	.081	21.574
	10.262	3.284	3.901	2.702	2.482	.082	22.713
977 Total	10.238	3.297	3.987	3.024	3.110	.068	23.724
978 Total		3.613	3,283	2.776	3.107	.089	24.128
979 Total	11.260	3.810	2.634	2.739	3.085	.114	24.505
980 Total	12.123			3.008	3.072	.127	24.760
981 Total	12.583	3.768	2.202	3.131	3.539	.108	24.270
982 Total	12.582	3.342	1.568		3.866	.133	24.956
983 Total	13.213	2.998	1.544	3.203		.174	25.977
984 Total	14.020	3.220	1.286	3.553	3.725		26.484
985 Total	14.542	3.160	1.090	4.149	3.330	.213	
986 Total	14.444	2.691	1.452	4.471	3.353	.231	26.642
987 Total	15,173	2.935	1.257	4.906	3.035	.244	27.551
988 Total	15.850	2.709	1.563	5.661	2.607	.235	28.626
989 Total	15.988	2.871	1.685	5.677	2.852	.217	29.290
			400	.589	.239	.018	2.510
990 January	1.391	.151	.123		.239	.016	2.241
February	1.216	.136	.100	.534	.238	.018	2.358
March	1.274	.190	.108	.492		.014	2.207
April	1.213	.206	.108	.411	.255	.014	2.341
May	1.240	.252	.101	.459	.273	.017	2.608
June	1.367	.307	.141	.495	.281		2.819
July	1.497	.337	.138	.573	.256	.017	2.842
August	1.530	.355	.117	.595	.227	.017	
September	1,402	.311	.086	.518	.184	.016	2.518
October	1.347	.266	.077	.463	.207	.017	2.378
November	1.278	,191	.067	.481	.217	.016	2.249
	1.434	.181	.085	.551	.260	.017	2.528
December		2.882	1.250	6.161	2.914	.202	29.599
Total	16.189	2.002	(1250				
991 January	1.485	.179	.099	.581	.274	.017	2.634 2.220
February	1.219	.151	.092	.511	.232	.014	
March	1.233	.199	.092	.525	.278	.016	2.343
April	1.153	.223	.084	.445	.281	.015	2.201
May	1.274	.258	.115	.499	.308	.015	2.469
	1.369	.269	.117	.579	.275	.016	2.625
June	1.495	.205	.118	.649	.268	.016	2.886
July	1.495	.339	.123	.624	.254	.016	2.851
August		.272	.091	.554	.219	.015	2.491
September	1.339		.068	.509	.209	.016	2.362
October	1.287	.272		.309	.208	.017	2.335
November	1.327	.205	.084	.572	.246	.017	2.493
December	1.388	.175	.094			.192	29.909
Total	16.065	2.883	1.178	6.542	3.050	,132	20.000
1992 January	1.417	.175	.108	.618	.243	.017	2.578
February	1.250	.176	.087	.564	.203	.015	2.296
2-Month Total	2.667	.351	.195	1.182	.446	.032	4.874
-			101	1.092	.506	.031	4.854
1991 2-Month Total	2.705	.330	.191		.300	.034	4.750
1990 2-Month Total	2.607	.287	.224	1.122	.477		

^a Includes supplemental gaseous fuels.
 ^b Petroleum products reported as "oil consumed in steam plants" through 1979 and "heavy oil" from 1980 forward, which are assumed to be residual fuel oil;
 ^b Petroleum products reported as "oil consumed in gas turbine and internal combustion engine plants" through 1979 and "light oil" from 1980 forward, which are assumed to be distillate fuel oil and kerosene; and petroleum coke.
 ^c Includes net imports of electricity.
 ^d "Other" is electricity generated for distribution from wood, waste, geothermal, wind, photovoltaic, and solar thermal energy.
 Notes: • Geographic coverage is the 50 States and the District of Columbia. • Totals may not equal sum of components due to independent rounding.

Additional Notes and Sources: See end of section.

Energy Consumption Notes and Sources

The data in this section of the Monthly Energy Review (MER) are obtained initially from a group of energyrelated 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 wood, waste, geothermal, 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. The SIC code used to classify an establishment as residential is 88 (Household).

- 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. SIC codes used to classify an establishment as commercial are 50 through 87, 89, and 91 through 97.
- Industrial—Manufacturing industries, which make up the largest part of the sector, along with mining, construction, agriculture, fisheries, and forestry. Establishments in the sector range from steel mills to small farms to companies assembling electronic components. The SIC codes used to classify establishments as industrial are 1 through 39.
- 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. The SIC codes used to classify establishments as belonging to the transportation sector are 40 through 49.
- Electric Utility—Privately and publicly owned establishments that generate electricity primarily for use by the public.

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 the Appendix.

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

5. Natural Gas: Natural gas consumption by end use is based on data presented in Table 4.3 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 the Appendix. 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.
- 1980-1990: EIA, Natural Gas Annual.
- 1991 forward: 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."
- 1981-1990: EIA, Petroleum Supply Annual.
- 1991 forward: 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.

Monthly and annual consumption for 1973-1979 is assumed to be the amount of oil (minus small amounts of kerosene and kerosene-type jet fuel deliveries) reported as consumed in internal combustion and gas turbine engine plants. From January 1980, electric utility consumption of distillate fuel is assumed to be the petroleum products reported as "light oil" (minus small amounts of kerosene deliveries through 1982) consumed at electric utilities.

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."

Non-Electric Utilities, Annual Estimates Through 1990.

The aggregate non-electric utility use of distillate fuel is total distillate 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 distillate fuel delivered to end users, grouped into sectors from EIA's "Deliveries of Fuel Oil and Kerosene" ("Deliveries") reports (based primarily on data collected by Form EIA-821, previously Form EIA-172) as follows:

- Since 1979, residential deliveries data are directly from the "Deliveries" reports. Prior to 1979, each year's deliveries subtotal of the heating plus industrial category is split into residential, commercial, and industrial (including farm) in proportion to the 1979 shares.

- Since 1979, commercial deliveries data are directly from the "Deliveries" reports. Prior to

1979, each year's deliveries subtotal of the heating plus industrial category is split into residential, commercial, and industrial (including farm) in proportion to the 1979 shares.

- Since 1979, industrial deliveries data are the sum of deliveries for industrial, farm, oil company, off-highway, diesel, and all other uses. Prior to 1979, each year's deliveries 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, offhighway diesel, and all other uses.

- Transportation deliveries are the sum of deliveries for railroad, vessel bunkering, and onhighway diesel, and military uses for all years.

Non-Electric Utilities, Monthly Estimates Through 1990.

- Residential and commercial monthly consumption is estimated by allocating the annual estimates described above into months in proportion to each month's share of the year's sales of No. 2 heating oil as reported in the "Monthly Report of Heating Oil Sales" by the Ethyl Corporation from 1973-1980 and the American Petroleum Institute for 1981 and 1982, and the EIA, Form EIA-782A, "Refiners/Gas Plant Operators' Monthly Petroleum Product Sales Report," No. 2 Fuel Oil Sales to End Users and for Resale, since 1983.

- 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.

Non-Electric Utilities, 1991 Forward.

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 1990.

• Jet Fuel—Through 1982, small amounts of kerosene-type jet fuel were consumed by electric utilities. Kerosene-type jet fuel deliveries to electric utilities as reported on the Form FERC-423 (formerly Form FPC-423) were used as estimates of this consumption. All remaining jet fuel (kerosene-type and naphtha-type) is consumed by the transportation sector. • Kerosene—Total product supplied monthly is allocated to the major end-use sectors in proportion to annual deliveries grouped into end-use sectors from EIA's "Deliveries of Fuel Oil and Kerosene" ("Deliveries") reports (based primarily on data collected by Form EIA-821, previously Form EIA-172), as follows:

- Residential deliveries are directly from the "Deliveries" reports for 1979-1990. Deliveries for 1990 are used as estimates for succeeding periods. Prior to 1979, each year's deliveries category called "heating" is split into residential, commercial, and industrial in proportion to the 1979 shares.

- Commercial deliveries are directly from the "Deliveries" reports for 1979-1990. Deliveries for 1990 are used as estimates for succeeding periods. Prior to 1979, each year's deliveries category called "heating" is split into residential, commercial, and industrial in proportion to the 1979 shares.

- Industrial deliveries are directly from the "Deliveries" reports for 1979-1990. Deliveries for 1990 are used as estimates for succeeding periods. Prior to 1979, each year's deliveries 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's total supplied and the estimated consumption 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 for use 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.

- 1984-1990: 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.

- 1991 forward: The 1990 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 formed from 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.

Monthly and annual consumption for 1973-1979 is assumed to be the amount of oil reported as consumed in steam-electric power plants. From January 1980 forward, electric utility consumption of residual fuel is assumed to be the petroleum products reported as heavy oil consumed at electric utilities.

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."

Non-Electric Utilities, Annual Estimates Through 1990.

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 delivered to end users, grouped into sectors from EIA's "Deliveries of Fuel Oil and Kerosene" ("Deliveries") reports (based primarily on data collected by Form EIA-821, previously Form EIA-172), as follows:

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

- Since 1979, industrial deliveries data are the sum of deliveries for industrial, oil company, and all other uses. Prior to 1979, each year's deliveries 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 deliveries are the sum of deliveries for railroad, vessel bunkering, and military uses for all years.

Non-Electric Utilities, Monthly Estimates Through 1990.

- Commercial sector monthly consumption is estimated by allocating the annual commercial sector estimates described above into months in proportion to each month's share of the year's sales of No. 2 fuel oil as reported in the "Monthly Report of Heating Oil Sales" by the Ethyl Corporation for 1973-1980 and the American Petroleum Institute for 1981 and 1982, and the EIA, Form EIA-782A, "Refiners/Gas Plant Operators' Monthly Petroleum Product Sales Report," No. 2 Fuel Oil Sales to End Users and for Resale, since 1983.

- 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.

Non-Electric Utilities, 1991 Forward.

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 1990.

- 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 and Wood, Waste, Geothermal, 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: DOE, Assistant Secretary for Fossil Energy, Form FE-781-R, "Annual Report of International Electrical Export/Import Data."
- 1990 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 1992 forward, "Monthly Series" data are used directly. For 1984-1991, monthly estimates are created by dividing each month's "Monthly Series" value by the "Monthly Series" total for the year and multiplying by the "Annual Series" value for the year. Kilowatthours are converted to Btu at the rate of 3,412 Btu per kilowatthour. See Table 7.2 for sources of the electricity sales data.

11. Electrical System Energy Losses: Electrical system energy losses are calculated as the difference between total energy input at electric utilities and the total energy content of electricity sold to end-use consumers. Most of those losses occur at steam-electric power plants (conventional and nuclear) in the conversion of heat energy into mechanical energy to turn electric generators. The loss is a thermodynamically necessary feature of the steam-electric cycle. Part of the energy input-to-output losses is a result of imputing fossil energy sources, since there is no generally ac-

cepted practice for measuring those thermal conversion rates. In addition to conversion losses, other losses include power plant use of electricity, transmission and distribution of electricity from power plants to end-use consumers (also called "line losses"), and unaccounted for electricity. Total losses are allocated to the end-use sectors in proportion to each sector's share of total electricity sales. Overall, approximately 67 percent of total energy input is lost in conversion; of electricity generated, approximately 5 percent is lost in plant use and 9 percent is lost in transmission and distribution. Calculated electrical system energy losses may be less than actual losses, because primary consumption does not include the energy equivalent of utility purchases of electricity from non-electric utilities and from Canada and Mexico, although they are included in electricity sales.

Section 3. Petroleum

Total petroleum imports² averaged 7.8 million barrels per day in April 1992, 11 percent³ higher than the March 1992 rate and 6 percent higher than the April 1991 rate.

In April 1992, 17.1 million barrels per day of petroleum products were supplied for domestic use, 2 percent higher than the previous month and 6 percent higher than the April 1991 rate. Motor gasoline accounted for 43 percent of the total; distillate fuel oil, 18 percent; and residual fuel oil, 6 percent.

Motor gasoline supplied during April 1992 averaged 7.3 million barrels per day, 3 percent higher than both the previous month and the April 1991 rate. Stocks of total motor gasoline totaled 219 million barrels at the end of April 1992, 1 million barrels below the

stock level in the previous month but 12 million barrels above the level 1 year earlier.

In April 1992, 3.1 million barrels of distillate fuel oil were supplied per day, 3 percent below the March 1992 rate but 7 percent above the April 1991 rate. Distillate fuel oil ending stocks for April 1992 were 92 million barrels, 6 million barrels below the stock level in the previous month and 10 million barrels below the stock level 1 year earlier.

Residual fuel oil supplied in April 1992 averaged 1.1 million barrels per day, 5 percent lower than the previous month and 3 percent lower than the April 1991 rate. Residual fuel oil stocks measured 39 million barrels at the end of April 1992, 1 million barrels below the stock level in the previous month and 6 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 1992.

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

		Field Productio	on	Stock	Change ^a		Ending Stocks
	Total Domestic ^o	Crude Oil	Natural Gas Plant Production	Crude Oil ^d	Petroleum Products	Petroleum Products Supplied	Crude Oli ^d an Petroleum Products
·			Thousand Ba	rrels per Day			Million Barrels
973 Average	10,975	9,208	4 700				-
974 Average	10,498	8,774	1,738	-11	146	17,308	1,008
975 Average	10,455	8,375	1,688	62	117	16,653	^g 1,074
976 Average	9,774		1,633	⁹ 17	⁹ 15	16,322	1,133
77 Average	9,913	8,132	* 1,604	39	- -96	17,461	1,112
78 Average		8,245	1,618	170	378	18,431	1,312
79 Average	10,328	8,707	1,567	78	-172	18,847	1,278
PO Avenage	10,179	8,552	1,584	148	25	18,513	1,341
80 Average	10,214	8,597	1,573	98	42	17,056	⁹ 1,392
81 Average	10,230	8,572	1,609	^g 290	⁹ -130	16,058	1,484
82 Average	10,252	8,649	1,550	136	-283	15,296	^g 1,430
83 Average	10,299	8,688	1,559	9 214	9-234	15,231	1,454
84 Average	10,554	8,879	1,630	199	81	15,726	1,556
85 Average	10,636	8,971	1,609	50	-153	15,726	1,550
86 Average	10,289	8,680	1,551	78	124	16,281	1,519
87 Average	10,008	8,349	1,595	128	-87	16,665	•
88 Average	9,818	8,140	1,625	1	-29	•	1,607
89 Average	9,219	7,613	1,546	86	-129	17,283 17,325	1,597 1,581
90 January	9,178	7,546	1,541	070			·
February	9,147	7,497		273	1,284	16,964	1,630
March	9,034		1,570	-330	507	17,175	1,635
April		7,433	1,526	1,057	-823	17,087	1,642
	8,979	7,407	1,493	26	-83	16,778	1,640
May	8,923	7,328	1,502	479	532	16,915	1,672
June	8,645	7,106	1,458	72	378	17,165	1,685
July	8,735	7,173	1,484	-154	929	17,084	1,709
August	8,931	7,287	1.575	-227	-113	18,050	1,699
September	8,891	7,224	1,597	-896	887	16,512	
October	9,301	7,542	1,667	111	-879		1,698
November	9,155	7,387	1,690	-364		16,934	1,674
December	9,019	7,338	1,604	-528	-322	16,695	1,654
Average	8,994	7,355	1,559	-528 -35	-544 142	16,494	1,621
1 tenueru	F	-	.,		172	16,988	1,621
1 January February	^E 9,135 ^E 9,334	E7,418	1,635	-94	-1,094	16,882	1,587
March	E 9,225	^E 7,548	1,690	250	-688	16,284	1,574
April	- 9,225 E 9,206	^E 7,481	1,670	-242	-261	16,100	1,559
	= 9,206 E 0.110	E 7,467	1,656	65	560	16,103	1,578
May	E9,116	^E 7,368	1,647	638	986	16,098	1,628
June	E 8,976	^E 7,282	1,616	-364	551	16,764	1,634
July	^E 9,019	E 7,326	1,608	-163	174	16,910	1,634
August	E 8,972	E 7,272	1,617	91	265	17,133	1,645
September	E9,027	^E 7,332	1,609	-143	701	16,704	1,662
October	^E 9,162	^E 7,409	1,673	54	-656	16,894	
November	E9,107	² 7,307	1,706	45	52	16,674	1,643
December	^E 9.066	E 7,281	1,689	-629	-346		1,646
Average	E 9,111	E 7,373	1,651	-43	-346	17,099 16,641	1,616 1,616
2 January	^E 9,184	^E 7.363	1,686	E0.4	774		·
February	_ ^E 9,170	E 7,373		534	-773	16,982	1,608
March	RE 9,119	RE 7,315	1,694	176	-967	_ 16,885	_ 1,585
April	PE 9,089	PE 7,279	^R 1,695	R-247	^R -273	^R 16,789	^R 1,569
4-Month Average	PE 9,141	PE 7,332	^E 1,690 ^E 1,691	E 428 E 222	^E -396 ^E -598	^E 17,121 ^E 16,944	^E 1,573
1 4-Month Average					966-	10,344	^E 1,573
0 4-Month Average	^E 9,222 9,084	E 7,477	1,662	-12	-371	16,346	1,578
	3,004	7,471	1,532	273	217	16,999	1,640

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

Due to differences internal to Energy Information Administration data processing systems, some small discrepancies exist between the data in this table and the data in the *Petroleum Supply Annual* and *Petroleum Supply Monthly*. See Note 6 at end of section.
 ^a A negative number indicates a decrease in stocks and a positive number indicates an increase.
 ^b Stocks are totals as of end of period.
 ^c Institute and an approximation of the budgestates and elected.

c includes crude oil, natural gas plant liquids, other hydrocarbons, and alcohol.
 d includes stocks located in the Strategic Petroleum Reserve.

Footnotes continued on following page.

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

Total Citize Products Total Oil Products Imp Thousand Barrels per Day S73 Average 6,256 3,244 3,012 231 2 229 6 S73 Average 6,115 3,775 2,935 2201 2 229 6 S73 Average 6,115 3,775 2,936 223 8 2215 7 S73 Average 6,256 3,244 3,012 223 8 2204 5 S73 Average 6,359 1,337 2,431 50 113 8 S7 Average 6,366 6,519 1,337 441 235 226 57 S283 1,864 644 287 228 367 5 S80 Average 5,513 3,429 1,722 128 575 4 S80 Average 5,657 3,220 1,722 104 577 4			Imports			Exports		
73 Average 6,256 3,244 3,012 231 2 229 5 75 Average 6,056 4,105 1,851 203 6 215 7 76 Average 8,067 6,415 2,183 223 50 133 8 77 Average 8,067 6,415 2,180 243 50 133 8 77 Average 8,466 6,519 1,646 544 287 226 6 7 78 Average 8,466 6,519 1,646 544 287 226 6 7 80 Average 5,657 3,489 1,625 815 236 575 4 83 Average 5,697 3,221 1,722 739 164 575 4 83 Average 5,697 3,221 1,206 765 136 545 55 661 56 83 Average 5,697 3,221 1,866 761 204 574 45 651 56 85 Average 5,661 5,613 2,217 85		Total			Total			Net Imports
3 Average 0, 2,200 3,277 2,233 221 3 218 5 6 Average 0, 2,113 4,277 2,233 221 3 218 5 6 Average 0, 2,113 2,217 2,208 223 8 215 7 7 Average 0, 2,403 6,515 2,208 223 8 215 7 8 Average 0, 2,403 6,515 2,208 302 158 204 8 9 Average 0, 2,403 6,515 2,208 302 158 204 8 9 Average 0, 2,403 6,515 2,208 302 158 204 8 9 Average 0, 2,559 4,350 1,599 595 228 367 5 10 Average 0, 5,569 4,350 1,599 595 228 367 5 10 Average 0, 5,567 3,201 1,666 781 204 577 4 10 Average 0, 5,667 3,201 1,666 781 204 577 4 10 Average 0, 5,667 3,201 1,666 781 204 577 4 10 Average 0, 5,667 3,201 1,666 781 204 577 4 10 Average 0, 6,676 4,674 2,004 764 151 613 5 10 Average 0, 6,676 4,674 2,004 764 151 613 5 10 Average 0, 6,676 4,674 2,004 764 151 613 5 10 Average 0, 6,676 4,674 2,004 764 151 651 5 10 Average 0, 6,676 4,674 2,004 764 151 651 5 10 Average 0, 6,676 4,674 2,004 764 151 651 5 10 Average 0, 6,676 4,674 2,004 764 151 651 5 10 Average 0, 6,676 4,674 2,004 764 151 651 5 10 Average 0, 6,676 4,674 2,004 764 151 651 5 10 Average 0, 6,676 4,674 2,004 764 151 651 5 10 Average 0, 6,676 4,674 2,004 764 151 651 5 10 Average 0, 6,61 5,843 2,217 859 142 777 7 10 Average 0, 6,61 5,843 2,217 859 142 777 7 10 Average 0, 6,61 5,843 2,217 859 142 777 7 10 Average 0, 6,61 5,843 2,217 859 142 777 7 10 Average 0, 6,61 5,843 2,217 859 142 777 7 10 Average 0, 6,61 5,843 2,217 859 142 776 7 10 Average 0, 6,64 6,852 2,192 850 842 102 720 7 7 Average 0, 197 6,212 2,985 709 132 578 8 10 Average 0, 197 6,212 2,985 949 112 578 8 10 Average 0, 197 6,212 2,985 949 112 578 8 10 Average 0, 197 6,212 2,985 949 112 578 8 10 Average 0, 197 6,212 2,186 949 104 844 5 10 Average 0, 196 5,894 2,128 857 109 748 5 10 Average 0, 114 5,849 1,141 153 1,288 5 10 Average 0, 114 5,849 1,144 153 1,288 5 10 Average 0, 114 5,849 1,144 153 1,288 5 10 Average 0, 776 5,765 1,950 785 109 748 5 10 Average 0,776 5,765 1,950 785 109 748 5 10 Average 0,776 5,765 1,950 785 109 748 5 10 Average 0,776 5,765 1,950 785 109 783 133 1,001 4 10 Average 0,776 5,765				Tho	usand Barrels pe	r Day		
Average 6,112 3,477 2,835 221 3 218 5 6 Average 6,056 4,105 1,951 209 6 204 5 6 Average 7,313 5,287 2,026 223 8 215 7 7 Average 8,867 6,615 2,1193 243 50 193 8 8 Average 8,456 6,519 1,337 471 225 226 7 0 Average 6,609 5,283 1,646 544 227 228 6 3 Average 5,051 3,329 1,722 739 164 575 4 3 Average 5,057 3,2426 2,011 722 181 541 4 6 Average 6,676 3,201 1,866 781 204 577 4 6 Average 6,676 3,201 1,866 781 204 577 4 6 Average 5,667 3,2017 <td>3 Average</td> <td>6.256</td> <td>3.244</td> <td>3.012</td> <td>231</td> <td>2</td> <td>229</td> <td>6,025</td>	3 Average	6.256	3.244	3.012	231	2	229	6,025
S Average 6,056 4,105 1,951 209 6 204 5 6 Average 8,367 2,026 23 8 215 7 7 Average 8,363 6,356 2,000 322 158 204 8 8 Average 8,363 6,356 2,000 322 158 204 8 9 Average 8,365 6,599 5,263 1,646 544 227 258 6 0 Average 5,596 4,386 1,599 555 228 367 5 3 Average 5,617 3,220 1,722 739 164 577 4 4 Average 5,667 3,201 1,866 781 204 577 4 5 Average 6,676 4,674 2,004 764 151 613 5 7 Avarage 6,676 4,674 2,004 764 151 651 5 7 Avarage 6,061 5,843 <td></td> <td></td> <td></td> <td></td> <td>221</td> <td>3</td> <td>218</td> <td>5,892</td>					221	3	218	5,892
Average 7,313 5,287 2,026 223 8 215 7 Average 8,807 6,615 2,193 243 50 193 8 8 Average 8,456 6,519 1,937 471 225 223 7 9 Average 6,699 5,283 1,846 544 227 228 67 9 Average 5,596 4,396 1,599 555 228 367 5 1 Average 5,051 3,232 1,722 739 164 575 4 3 Average 5,057 3,426 2,011 722 151 631 5 6 Average 5,057 3,426 2,011 722 151 631 5 6 Average 6,057 3,201 1,866 761 204 577 4 6 Average 6,057 3,201 2,058 765 154 631 5 7 Average 6,0578 2,045 <td></td> <td></td> <td></td> <td></td> <td>209</td> <td>6</td> <td>204</td> <td>5,846</td>					209	6	204	5,846
Average isor isir 2,193 243 50 193 B Average 6,365 6,519 1,937 -471 235 -236 7 Average 6,366 6,519 1,937 -471 235 -236 7 Average 5,966 4,386 1,599 595 228 367 5 Average 5,113 3,428 1,622 815 236 579 4 Average 5,637 3,426 2,011 722 181 541 4 Average 5,667 3,201 1,866 781 204 577 4 Average 6,267 4,674 2,004 764 151 651 5 Average 6,061 5,843 2,217 859 142 777 7 Average 6,061 5,843 2,217 859 142 777 7 Average 6,061 5,843 2			• _		223	8	215	7,090
Average 6,365 6,365 2,008 362 158 204 B Average 6,659 5,263 1,846 644 287 236 7 Average 5,996 4,336 1,599 595 228 367 5 Average 5,051 3,229 1,722 739 164 575 4 Average 5,051 3,229 1,722 739 164 577 4 Average 5,057 3,201 1,866 781 204 6377 4 Average 6,078 4,074 2,004 764 151 613 5 Average 6,078 4,074 2,004 764 151 613 5 Average 7,402 5,107 2,285 859 142 717 7 Average 7,402 5,107 2,285 629 112 578 8 Average 7,402 5,103 2						50	193	8,565
Average 0.355 0.599 1.937 • 471 235 236 7.26 Average 5.996 4.396 1.899 592 228 367 5 Average 5.113 3.488 1.825 815 236 579 4 Average 5.051 3.222 1.722 181 541 4 Average 5.057 3.201 1.666 785 154 631 5 Average 6.067 3.201 1.666 785 154 631 5 Average 6.067 4.074 2.004 764 151 661 6 Average 7.402 5.107 2.2985 709 132 578 6 Average 8.061 5.843 2.217 859 142 717 7 Asterage 7.402 5.107 1.2985 622 102 720 7 Average 8.039 5.895 2.505						158	204	8,002
Average 6,000 5,283 1,646 544 267 258 6 Average 5,996 4,396 1,599 595 228 367 5 Average 5,113 3,488 1,625 615 236 579 4 Average 5,617 3,229 1,722 739 164 575 4 Average 5,667 3,201 1,866 781 204 577 4 Average 6,678 4,674 2,004 764 151 613 5 Average 6,678 4,674 2,004 764 151 613 5 Average 6,061 5,643 2,217 859 142 717 7 January 9,197 6,212 2,985 709 132 578 8 Average 6,061 5,843 2,217 859 142 717 7 January 9,197 6,212 2,	-	•				235	* 236	* 7,985
Average 5.990 4.996 1.990 595 228 367 5 Average 5.051 3.429 1.722 739 164 575 4 Average 5.051 3.329 1.722 739 164 575 4 Average 5.051 3.329 1.722 739 164 577 4 Average 5.057 3.420 2.011 722 181 541 4 Average 6.676 4.677 2.045 785 154 631 5 Average 6.677 4.677 2.045 785 142 717 7 Average 7.402 5.107 2.286 709 132 578 6 Average 6.671 4.617 1.446 680 132 748 7 January 9.399 5.995 2.305 622 102 720 7 March 7.865 5.13 2.045			•		••••		258	6,365
Average 5,253 1,225 1,225 1,225 1,225 1,225 1,225 1,225 1,225 1,225 1,225 1,225 1,225 1,225 1,225 1,225 1,225 1,225 1,225 1,235 1,235 1,235 1,245 1,225 1,235 1,245 1,215 1,245 1,215 <								5,401
Average 5,15 3,229 1,722 729 164 575 Average 5,051 3,329 1,722 181 541 4 Average 5,067 3,201 1,866 781 204 577 4 Average 6,678 4,674 2,004 764 151 613 5 Average 6,678 4,674 2,004 764 151 65 661 6 Average 7,402 5,107 2,295 815 155 661 6 Average 8,061 5,843 2,217 659 142 717 7 January 8,399 5,895 2,505 822 102 720 7 March 7,965 6,117 1,848 860 132 576 6 March 7,868 5,813 2,445 761 111 649 765 111 149 5 76 6 6			•				579	4,298
Average 5,001 5,021 7,011 722 161 541 Average 5,067 3,201 1,866 781 204 577 4 Average 6,224 4,178 2,045 785 154 651 5 Average 6,678 4,674 2,004 764 151 613 5 Average 6,678 4,674 2,004 764 151 613 5 Average 6,678 4,674 2,045 769 132 776 6 Average 8,061 5,843 2,217 859 142 717 7 January 9,197 6,212 2,985 2,905 822 102 720 7 March 7,985 6,117 1,848 860 132 748 7 June 8,644 6,454 2,380 690 112 578 6 August 8,644 6,452 2,19								4,312
Average 5,457 5,425 1,866 781 204 577 4 Average 6,667 3,201 1,866 785 154 631 5 Average 6,678 4,674 2,004 764 151 613 5 Average 7,402 5,107 2,295 815 155 661 6 Average 8,061 5,843 2,217 859 142 717 7 January 9,197 6,212 2,985 709 132 578 6 February 8,399 5,895 2,505 822 102 720 7 March 7,965 6,117 1,848 860 112 578 6 May 8,834 6,454 2,303 630 88 715 7 June 8,747 6,452 2,192 850 64 765 7 June 8,644 6,452 2,192				•				4,715
Average 2,00 2,02 4,07 2,04 765 154 631 5 Average 6,224 4,178 2,044 764 151 613 5 Average 6,678 4,674 2,044 764 151 613 5 Average 8,061 5,843 2,217 859 142 777 7 January 9,197 6,212 2,985 709 132 576 6 February 8,399 5,895 2,2505 822 102 720 7 April 7,965 6,117 1,848 860 132 748 7 April 7,868 5,813 2,046 7651 111 649 7 July 9,048 6,855 2,193 666 89 606 5 July 9,048 6,855 2,193 666 84 765 7 October 7,031 5,664	Average			•				4,286
Average 6,224 7,173 2,004 742 151 613 5 Average 6,678 4,674 2,004 744 155 661 6 Average 8,061 5,843 2,217 859 142 717 7 January 9,197 6,212 2,965 709 132 578 8 January 8,399 5,895 2,505 822 102 720 7 March 7,965 6,117 1,848 860 132 748 7 March 7,965 5,813 2,045 761 111 649 7 Jure 8,747 6,423 2,323 803 86 715 7 Jure 8,044 6,452 2,192 850 64 785 7 September 6,717 5,132 1,855 949 104 844 64 Average 8,018 5,894 1,948 1,87 192 1,84 192 Jure 7,361 5,664	Average			•				5,439
Average 7,402 5,107 2,295 815 155 661 6 Average 8,061 5,843 2,217 859 142 717 7 January 9,197 6,212 2,985 709 132 578 8 February 8,399 5,895 2,505 822 102 720 7 March 7,965 6,117 1,848 860 132 748 7 April 7,655 5,813 2,045 761 111 649 7 June 8,747 6,453 2,323 803 88 715 7 July 9,046 6,655 2,193 696 89 606 89 606 August 8,644 6,452 2,192 850 64 785 7 September 6,717 5,132 1,565 949 104 844 5 November 6,018 5,894 2,123 857 109 748 7 January 7,066	Average	6,224						
Average 8,061 5,843 2,217 859 142 717 7 January 9,197 6,212 2,985 709 132 578 8 February 8,399 5,895 2,505 822 102 720 7 March 7,965 6,117 1,848 860 132 748 7 April 7,858 5,813 2,045 761 111 649 7 May 8,854 6,454 2,380 690 112 578 8 June 8,747 6,423 2,323 803 88 715 7 June 8,044 6,452 2,192 850 64 785 7 August 8,644 6,452 2,192 850 64 785 7 October 6,717 5,132 1,585 949 104 844 64 Average 8,184 2,123 857 109 748 7 January 7,066 5,303 1,763 <	Average							5,914
Average 9,001 9,197 6,212 2,985 709 132 578 8 January 8,399 5,895 2,505 622 102 720 7 March 7,965 6,117 1,848 880 132 748 7 April 7,659 5,813 2,045 761 111 649 7 Mar 8,834 6,454 2,380 690 112 578 8 June 8,834 6,454 2,380 696 89 606 6 July 9,048 6,855 2,192 850 64 785 7 September 7,361 5,664 1,698 847 68 779 6 October 6,717 5,132 1,585 949 104 844 6 November 7,003 5,065 1,218 1,085 137 948 5 January 7,066 5,303 1,763 1,199 50 1,149 162 1,226 1,22 1,24	Average	7,402						6,587
January 8,197 0,112 2,255 622 102 720 7 March 7,965 6,117 1,848 860 132 748 7 April 7,858 5,613 2,045 761 111 649 7 June 8,634 6,454 2,380 690 112 578 6 June 8,747 6,423 2,323 803 86 715 7 June 8,747 6,423 2,323 803 86 715 7 September 7,361 5,664 1,698 847 66 779 6 August 6,844 6,452 2,192 850 64 785 7 September 7,361 5,685 1,918 1,085 137 948 5 October 6,717 5,132 1,585 949 104 844 5 November 6,644 5,498 1,346 1,411 153 1,288 5 Average 8,018 5,894 <td>Average</td> <td>8,061</td> <td>5,843</td> <td>2,217</td> <td>859</td> <td>142</td> <td>~~~~</td> <td>7,202</td>	Average	8,061	5,843	2,217	859	142	~~~~	7,202
February 6,399 5,895 2,505 822 102 720 7 March 7,965 6,117 1,048 860 132 748 7 March 7,858 5,813 2,045 761 111 649 7 May 8,834 6,454 2,323 803 88 715 7 June 8,747 6,625 2,192 850 64 785 7 July 9,048 6,655 2,192 850 64 785 7 September 7,361 5,664 1,698 847 68 779 6 October 6,439 4,611 1,828 1,187 162 1,026 5 December 6,439 4,611 1,828 1,187 162 1,026 5 January 7,066 5,303 1,763 1,199 50 1,149 5 January 6,650 5,129 1,421 944 136 807 5 January 6,650 5,129	January	9,197	6,212					8,488
March 7,965 6,117 1,848 880 132 7,448 7,474 April 7,858 5,813 2,045 761 111 649 7 May 8,834 6,454 2,380 690 112 578 8 June 8,747 6,423 2,323 803 88 715 7 July 9,048 6,855 2,193 699 606 64 785 7 September 7,361 5,664 1,698 847 68 779 6 October 6,717 5,132 1,585 949 104 844 5 November 7,003 5,085 1,918 1,085 137 948 5 Average 8,018 5,894 2,123 857 109 748 7 January 7,066 5,303 1,763 1,199 50 1,149 5 January 6,844 5,498 1,346 1,441 153 1,288 4 March 6,550		8,399	5,895	2,505				7,577
April 7,858 5,813 2,045 761 111 b49 ////////////////////////////////////		7,965	6,117	1,848				7,084
May 8,834 6,454 2,380 690 112 578 57 June 8,747 6,423 2,323 803 86 715 7 July 9,048 6,855 2,193 696 89 606 89 August 8,644 6,452 2,192 850 64 785 7 September 7,361 5,664 1,698 847 66 779 6 October 6,717 5,132 1,585 949 104 844 5 December 7,003 5,085 1.918 1,085 137 948 5 December 6,439 4,611 1,828 1,187 162 1,026 5 Average 8,018 5,894 2,123 857 109 748 7 January 7,066 5,303 1,763 1,199 50 1,149 5 January 7,374 5,523 1,861 737 162 575 6 March 6,456 6,38		7,858	5,813	2,045	761	111		7,097
June 8,747 6,423 2,232 803 88 715 7 July 9,048 6,855 2,193 696 89 606 89 August 8,644 6,452 2,192 850 64 785 7 September 7,361 5,664 1,698 847 66 779 6 October 6,717 5,132 1,585 949 104 844 5 November 6,303 5,085 1,918 1,085 137 948 5 December 6,439 4,611 1,828 1,187 162 1,026 5 Average 8,018 5,894 2,123 857 109 748 7 January 7,066 5,303 1,763 1,199 50 1,149 5 January 6,624 5,498 1,346 1,441 153 1,288 5 March 6,550 5,129 1,421 944 136 807 2 April 7,374 <td< td=""><td></td><td>8.834</td><td>6,454</td><td>2,380</td><td>690</td><td>112</td><td></td><td>8,144</td></td<>		8.834	6,454	2,380	690	112		8,144
July 9,048 6,855 2,193 696 89 606 84 August 8,644 6,452 2,192 850 64 785 7 September 7,361 5,664 1,698 847 68 779 6 October 6,717 5,132 1,585 949 104 844 6 November 7,003 5,095 1,918 1,095 137 948 5 December 6,439 4,611 1,828 1,187 162 1,026 5 Average 8,018 5,894 2,123 857 109 748 7 January 7,066 5,303 1,763 1,199 50 1,149 5 February 6,844 5,498 1,346 1,441 153 1,288 5 March 6,550 5,129 1,421 944 136 807 5 June 8,496 6,387 2,109 1,149 165 984 5 June 8,496				2,323	803	88	715	7,944
bddy 8,644 6,452 2,192 850 64 785 7 September 7,361 5,664 1,698 847 68 779 6 October 6,717 5,132 1,585 949 104 844 5 November 7,003 5,085 1.918 1,085 137 948 5 December 6,439 4,611 1,828 1,187 162 1,026 5 Average 8,018 5,894 2,123 857 109 748 7 January 7,066 5,303 1,763 1,199 50 1,149 5 January 6,844 5,498 1,346 1,441 153 1,288 5 January 6,650 5,129 1,421 944 136 607 5 April 7,374 5,523 1,851 737 162 575 6 April 7,714 5,949 1,765 963 139 824 6 July 7,745 <			•	•	696	89	606	8,353
August 7,361 5,664 1,698 847 68 779 6 October 6,717 5,132 1,585 949 104 844 5 November 7,003 5,085 1,918 1,085 137 948 5 Average 6,439 4,611 1,828 1,187 162 1,026 5 Average 8,018 5,894 2,123 857 109 748 7 January 7,066 5,303 1,763 1,199 50 1,149 5 January 7,066 5,303 1,763 1,99 50 1,149 5 January 7,066 5,303 1,763 1,99 50 1,149 5 January 7,374 5,523 1,851 737 162 575 6 March 6,446 6,367 2,109 1,149 165 984 7 June 8,496 6,367 2,109 1,149 165 984 7 June 7,745				•	850	64	785	7,794
October 6,717 5,132 1,585 949 104 844 5 November 7,003 5,085 1,918 1,085 137 948 5 December 6,439 4,611 1,828 1,187 162 1,026 5 Average 8,018 5,894 2,123 857 109 748 7 January 7,066 5,303 1,763 1,199 50 1,149 5 January 6,844 5,498 1,346 1,441 153 1,288 5 March 6,550 5,129 1,421 944 136 807 5 March 7,374 5,523 1,851 737 162 575 6 May 8,196 6,387 2,109 1,149 165 984 7 June 8,177 6,317 1,860 921 78 843 7 July 7,714 5,949 1,765 963 139 824 6 August 8,622 6						68	779	6,514
October 5,172 1,935 1,935 1,935 1,935 1,935 1,935 1,937 948 5,948 December 6,439 4,611 1,828 1,187 162 1,026 5,757 Average 8,018 5,894 2,123 857 109 748 7 January 7,066 5,303 1,763 1,199 50 1,149 56 January 7,066 5,303 1,763 1,199 50 1,149 56 January 7,066 5,303 1,763 1,491 53 1,288 57 January 6,844 5,498 1,346 1,441 153 1,288 57 March 6,550 5,129 1,421 944 136 807 5 March 8,496 6,387 2,109 1,149 165 984 5 Jule 8,177 6,317 1,860 921 78 843 5 <td></td> <td></td> <td></td> <td></td> <td></td> <td>104</td> <td>844</td> <td>5,768</td>						104	844	5,768
November 7,003 5,053 1,025 1,025 162 1,026 5 Average 8,018 5,894 2,123 857 109 748 7 January 7,066 5,303 1,763 1,199 50 1,149 5 February 6,844 5,498 1,346 1,441 153 1,288 5 March 6,550 5,129 1,421 944 136 807 5 April 7,374 5,523 1,851 737 162 575 6 May 8,496 6,387 2,109 1,149 165 984 7 June 8,177 6,317 1,860 921 78 843 7 July 7,714 5,949 1,765 963 139 824 6 August 8,622 6,667 1,955 837 55 783 5 October 7,396 5,683 1,712 918 91 826 6 November 7,576 5,78								5,916
December 6,433 4,011 1,022 109 748 7 Average 8,018 5,894 2,123 857 109 748 7 January 7,066 5,303 1,763 1,199 50 1,149 55 February 6,844 5,498 1,346 1,441 153 1,288 5 March 6,550 5,129 1,421 944 136 807 5 March 7,374 5,523 1,851 737 162 575 6 May 8,496 6,387 2,109 1,149 165 984 1 June 8,177 6,317 1,860 921 78 843 1 July 7,714 5,949 1,765 963 139 824 6 August 8,622 6,667 1,955 837 55 783 1 September 7,745 5,795 1,950 785 109 676 6 October 7,396 5,683 1,7								5,252
January 7,066 5,303 1,763 1,199 50 1,149 55 February 6,844 5,498 1,346 1,441 153 1,288 55 March 6,550 5,129 1,421 944 136 807 56 April 7,374 5,523 1,851 737 162 575 56 May 8,496 6,387 2,109 1,149 165 984 59 June 8,177 6,317 1,860 921 78 843 56 July 7,714 5,949 1,765 963 139 824 66 August 8,622 6,667 1,955 837 55 783 55 September 7,745 5,795 1,950 785 109 676 66 November 7,559 5,563 1,712 918 91 826 6 November 7,576 5,782 1,794 1,001 116 885 6 August 6,754		,	•					7,161
Sandary 7,503 5,498 1,346 1,441 153 1,288 March 6,550 5,129 1,421 944 136 807 Aprii 7,374 5,523 1,851 737 162 575 6 May 8,496 6,387 2,109 1,149 165 984 7 June 8,177 6,317 1,860 921 78 843 7 July 7,714 5,949 1,765 963 139 824 6 August 8,622 6,667 1,955 837 55 783 7 September 7,745 5,795 1,950 785 109 676 6 October 7,396 5,683 1,712 918 91 826 6 December 7,576 5,782 1,794 1,001 116 885 6 January 7,593 5,885 1,708 1,144 118 1,026 6 January 7,593 5,885 1,708 <	-	7 066	5 303	1 763	1.199	50	1,149	5,867
Pebruary 0.004 5,120 1,421 944 136 807 4 March 6,550 5,129 1,421 944 136 807 4 March 7,374 5,523 1,851 737 162 575 6 May 8,496 6,387 2,109 1,149 165 984 7 June 8,177 6,317 1,860 921 78 843 7 July 7,714 5,949 1,765 963 139 624 6 August 8,622 6,667 1,955 837 55 783 7 September 7,745 5,795 1,950 785 109 676 6 October 7,396 5,683 1,712 918 91 826 6 November 7,559 5,544 2,015 926 126 800 6 December 7,313 5,563 1,708 1,414 118 1,026 6 Vanuary 7,593 5,885 <td></td> <td>•</td> <td></td> <td></td> <td>•</td> <td></td> <td></td> <td>5,403</td>		•			•			5,403
March 0,350 5,123 1,421 74 5,523 1,851 737 162 575 6 April 7,374 5,523 1,851 737 162 575 6 May 8,496 6,387 2,109 1,149 165 984 June 8,177 6,317 1,860 921 78 843 July 7,714 5,949 1,765 963 139 824 6 August 8,622 6,667 1,955 837 55 783 5 September 7,745 5,795 1,950 785 109 676 6 October 7,396 5,683 1,712 918 91 826 6 November 7,559 5,544 2,015 926 126 800 6 December 7,313 5,563 1,750 1,213 133 1,081 6 January 7,576 5,782 1,794 1,001 116 885 6 March 8,7,0								5,607
April 1,374 3,325 1,051 1,49 165 984 May 8,496 6,387 2,109 1,149 165 984 June 8,177 6,317 1,860 921 78 843 July 7,714 5,949 1,765 963 139 824 6 August 8,622 6,667 1,955 837 55 783 5 September 7,745 5,795 1,950 765 109 676 6 October 7,396 5,643 1,712 918 91 826 6 October 7,313 5,563 1,750 1,213 133 1,081 6 December 7,313 5,563 1,750 1,213 133 1,081 6 January 7,593 5,885 1,708 1,144 118 1,026 6 January 7,593 5,885 1,708 1,144 118 1,026 6 January 6,754 5,033 1,721 852 </td <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>6,636</td>								6,636
May 5,455 5,455 6,307 1,850 921 78 843 June 8,177 6,317 1,860 921 78 843 6 July 7,714 5,949 1,765 963 139 824 6 August 8,622 6,667 1,955 837 55 783 5 September 7,745 5,795 1,950 785 109 676 6 October 7,396 5,683 1,712 918 91 826 6 November 7,559 5,544 2,015 926 126 800 6 December 7,576 5,782 1,794 1,001 116 885 6 January 7,593 5,885 1,708 1,144 118 1,026 6 February 6,754 5,033 1,721 852 22 829 8 March 8,736 8,519 8,178 8,171 8912 8,105 807 8 April 6,75				•				7,347
July 7,714 5,917 1,765 963 139 824 6 July 7,714 5,949 1,765 963 139 824 6 August 8,622 6,667 1,955 837 55 783 5 September 7,745 5,795 1,950 785 109 676 6 October 7,396 5,683 1,712 918 91 826 6 November 7,559 5,544 2,015 926 126 800 6 December 7,313 5,563 1,750 1,213 133 1,081 6 Average 7,576 5,782 1,794 1,001 116 885 6 January 7,593 5,885 1,708 1,144 118 1,026 6 January 6,754 5,033 1,721 852 22 829 8 March 8,7036 8,5,319 8,1,718 8912 8,105 8,807 8 April E,7781			· · · ·	•	•			7,256
July 1,714 3,955 1,955 837 55 783 August 8,622 6,667 1,955 837 55 783 September 7,745 5,795 1,950 785 109 676 October 7,396 5,683 1,712 918 91 826 November 7,559 5,544 2,015 926 126 800 December 7,313 5,563 1,750 1,213 133 1,081 Average 7,576 5,782 1,794 1,001 116 885 January 7,593 5,885 1,708 1,144 118 1,026 February 6,754 5,033 1,721 852 22 829 March R 7,036 R 5,319 R 1,178 R 912 R 105 R 807 R April E 7,781 E 5,950 E 1,832 E 955 E 132 E 823 E 4-Month Average E 7,296 E 5,552 E 1,744 E 968 E 955				•				6,75
August 6,022 0,007 1,000 785 109 676 0 September 7,745 5,795 1,950 785 109 676 0 October 7,396 5,683 1,712 918 91 826 0 November 7,559 5,544 2,015 926 126 800 0 December 7,313 5,563 1,750 1,213 133 1,081 0 Average 7,576 5,782 1,794 1,001 116 885 0 January 7,593 5,885 1,708 1,144 118 1,026 0 February 6,754 5,033 1,721 852 22 829 829 March R7,036 R 5,319 R 1,718 R 912 R 105 R 807 R April E 7,781 E 5,950 E 1,832 E 955 E 132 E 823 E 4-Month Average E 7,296 E 5,552 E 1,744 E 968 E 955 E 872 E <								7,78
September 7,743 5,783 1,712 918 91 826 October 7,396 5,683 1,712 918 91 826 0 November 7,559 5,544 2,015 926 126 800 0 December 7,313 5,563 1,750 1,213 133 1,081 0 Average 7,576 5,782 1,794 1,001 116 885 0 January 7,593 5,885 1,708 1,144 118 1,026 0 February 6,754 5,033 1,721 852 22 829 8 March R7,036 R5,319 R1,718 R912 R105 R807 R April E7,781 E5,950 E1,832 E955 E132 E 823 E 4-Month Average E7,296 E 5,552 E1,744 E 968 E 955 E 872 E	August							6,96
October 7,559 5,544 2,015 926 126 800 600 December 7,579 5,563 1,750 1,213 133 1,081 600 600 January 7,576 5,782 1,794 1,001 116 885 600 60	September	7,745		•				•
November 7,353 5,544 2,610 025 123 133 1,081 0 December 7,313 5,563 1,750 1,213 133 1,081 0 Average 7,576 5,782 1,794 1,001 116 885 0 January 7,593 5,885 1,708 1,144 118 1,026 0 January 6,754 5,033 1,721 852 22 829 0 March R7,036 R5,319 R1,718 R912 R105 R807 R April E7,781 E5,950 E1,832 E955 E132 E823 E 4-Month Average E7,296 E5,552 E1,744 E968 E95 E 872 E	October	7,396	5,683					6,478
Average 7,576 5,782 1,794 1,001 116 885 January 7,576 5,782 1,794 1,001 116 885 January 7,576 5,782 1,794 1,001 116 885 January 6,754 5,033 1,721 852 22 829 March R7,036 R5,319 R1,718 R912 R105 R807 R4 April E7,781 E5,950 E1,832 E955 E132 E823 E4 4-Month Average E7,296 E5,552 E1,744 E 968 E 95 E 872 E	November	7,559	5,544	2,015	926			6,634
Average 7,573 5,885 1,708 1,144 118 1,026 January 6,754 5,033 1,721 852 22 829 March R7,036 R 5,319 R 1,718 R 912 R 105 R 807 R April E7,781 E 5,950 E 1,832 E 955 E 132 E 823 E 4-Month Average E 7,296 E 5,552 E 1,744 E 968 E 95 E 872 E	December	7,313	5,563	1,750	1,213			6,100
Sanday 6,754 5,033 1,721 852 22 829 February 6,754 5,033 1,721 852 22 829 March 7,036 8,5319 81,718 8912 8105 8807 8 April 7,781 5,950 51,832 5955 5132 5823 5 4-Month Average 57,296 5,552 51,744 5968 55 5 6372 5	Average	7,576	5,782	1,794	1,001	116	885	6,57
February 6,754 5,033 1,721 852 22 6,29 March R7,036 R5,319 R1,718 R912 R105 R807 R April E7,781 E5,950 E1,832 E955 E132 E823 E 4-Month Average E7,296 E5,552 E1,744 E968 E95 E 872 E	January	7,593	5,885	1,708	1,144			6,449
March R 7,036 R 5,319 R 1,718 R 912 R 105 R 807 A April E 7,781 E 5,950 E 1,832 E 955 E 132 E 823 E, 4-Month Average E 7,296 E 5,552 E 1,744 E 968 E 95 E 872 E,		6.754	5.033	1.721	852	22	829	_ 5,90
April E 7,781 E 5,950 E 1,832 E 955 E 132 E 823 E 4 4-Month Average E 7,296 E 5,552 E 1,744 E 968 E 95 E 872 E 1		^R 7.036	^R 5.319	^R 1.718	^R 912	^R 105		^R 6,12
4-Month Average E7,296 E5,552 E1,744 E968 E95 E872 E		E 7 781	E 5,950	E 1.832	E 955	E 132	E 823	E 6,820
	· .	E7,296		E 1,744			E 872	E 6,32
1 4-Month Average	A Manth Avenue		5 350	1.599	1,074	124	950	5,884
		0,930						7,56

Footnotes continued.

^e. Includes crude oil for storage in the Strategic Petroleum Reserve.

f Net imports equals imports minus exports.

9 In January 1975, 1981, and 1983, numerous respondents were added to surveys affecting stocks reported and stock change calculations. See Note 4 at end of section.

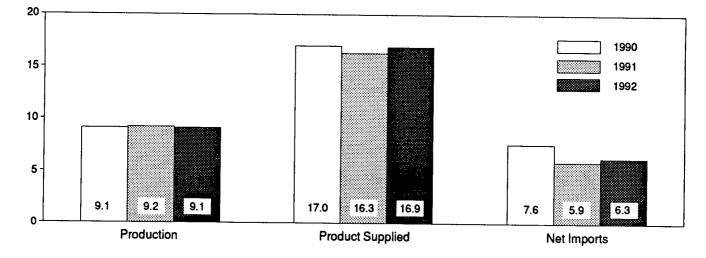
PE=Preliminary estimate. R=Revised data. E=Estimate.

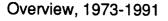
Notes: • Crude oil includes lease condensate. • Geographic coverage is the 50 States and the District of Columbia. • Totals may not equal sum of components due to independent rounding. Source: Energy Information Administration, Petroleum Supply Monthly, May 1992, Table S1.

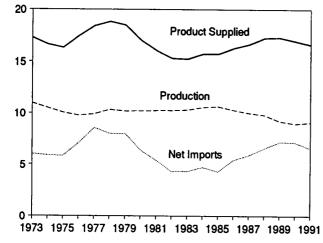
Figure 3.1 Petroleum Overview

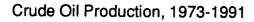
(Million Barrels per Day)

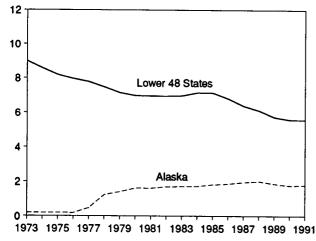
Overview, January-April





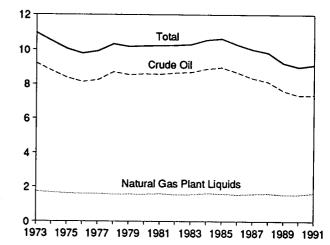


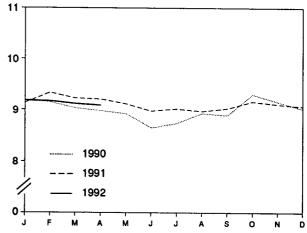




Note: Because vertical scales differ, graphs should not be compared. Sources: Tables 3.1a, 3.1b, and 3.2a.

Production, 1973-1991





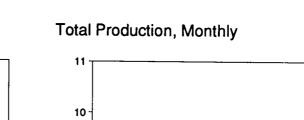
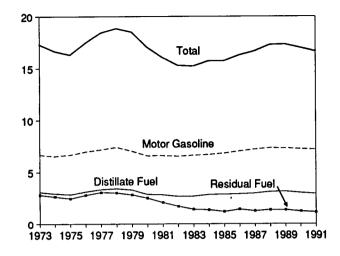


Figure 3.1 Petroleum Overview (Continued)

(Million Barrels per Day, Except as Noted)

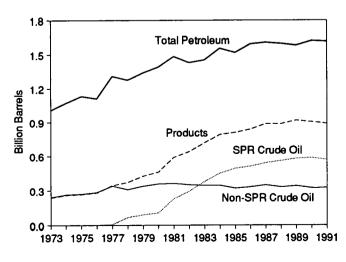
Product Supplied, 1973-1991



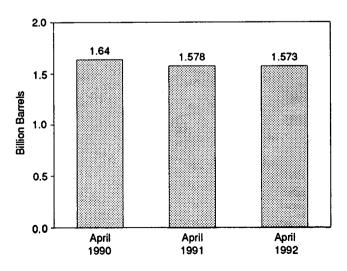
Imports from Selected Countries, March 1992

2.5 2.0 1.5 1.0 0.5 0.202 0.215 0.079 0.846 0.441 1.094 1.707 1.098 0.0 Virgin Islands **United Kingdom** Mexico Algeria Canada Saudi Arabia Venezuela Nigeria Non-OPEC Countries **OPEC** Countries





Total Petroleum Stocks, End of Month



Note: OPEC = Organization of Petroleum Exporting Countries. Note: SPR = Strategic Petroleum Reserve.

Note: Because vertical scales differ, graphs should not be compared. Sources: Tables 3.1a, 3.2b, 3.3a, 3.3b, 3.3d-3.3h, 3.4, 3.5, and 3.6.

Total Product Supplied, Monthly

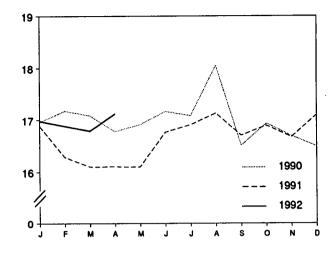


Table 3.2a Crude Oil Supply and Disposition: Supply

				Supply			
· · · ·	Field P	roduction	· · · · · · · · · · · · · · · · · · ·	Imports		Unaccounted-	
	Total Domestic	Alaskan	Total	SPR°	Other	for Crude Oll ^d	Crude Oil Used Directly®
		·	The	usand Barrels per	Day	_	
973 Average	9,208	198	3,244	_	3,244	3	-19
974 Average	8,774	193	3,477	-	3,477	-25	-15
975 Average	8,375	191	4,105	-	4,105	17	-17
976 Average	8,132	173	5,287	-	5,287	77	* -19
977 Average	8,245	464	6,615	21	6,594	-6	-14
978 Average	8,707	1,229	6,356	* 161	6,195	-57	* -15
979 Average	8,552	1,401	6,519	67	6,452	-11	* -14
980 Average	8,597	1,617	5,263	44	5,219	34	*-14
981 Average	8,572	1,609	4,396	256	4,141	83	-58
982 Average	8,649	1,696	3,488	165	3,323	71	-59
983 Average	8,688	1,714	3,329	234	3,096	114	-39
984 Average	8,879	1,722	3,426	197	3,229	185	-
985 Average	8,971	1,825	3,201	118	3,225	145	-
986 Average	8,680	1,867	4,178	48	4,130	139	-
987 Average	8,349	1,962	4,674	73	4,601		-
988 Average	8,140	2,017	5,107	51	5,055	145	-
989 Average	7,613	1,874	5,843	56	5,787	196 200	-
90 January	7,546	1,864	6,212	24	6,188	178	
February	7,497	1,834	5,895	12	5,883		-
March	7,433	1,819	6,117	44	,	-98	-
April	7,407	1,802	5,813	38	6,073 5,775	540	-
May	7,328	1,765	6,454	89		-9	-
June	7,106	1,612	6,423	17	6,365	225	-
July	7,173	1.687	6,855	0	6,407	349	-
August	7,287	1,727	6,452	95	6,855	150	-
September	7,224	1,702	5,664		6,357	259	-
October	7,542	1,884		0	5,664	402	-
November	7,387	1,746	5,132	0	5,132	382	-
December	7,338	1,838	5,085	0	5,085	269	-
Average	7,355	1,773	4,611	0	4,611	409	-
-	-	·	5,894	27	5,867	258	-
91 January February	^E 7,418 ^E 7,548	^E 1,848 ^E 1,908	5,303	0	5,303	-14	-
March		-1,908 F4.007	5,498	0	5,498	424	-
April	^E 7,481 ^E 7,467	E 1,887	5,129	0	5,129	134	-
Мау	= 7,467 E 7,368	E 1,798	5,523	0	5,523	294	-
June	^E 7,282	E 1,771	6,387	0	6,387	596	-
	E7,326	E 1,757	6,317	0	6,317	47	-
July August		E 1,775	5,949	0	5,949	418	-
September	^E 7,272 E7,332	E 1,731	6,667	0	6,667	8	-
October	= 7,332 E 7,409	E 1,787	5,795	0	5,795	546	-
November		E 1,843	5,683	0	5,683	-30	-
December	E7,307	E 1,765	5,544	0	5,544	269	-
December Average	^E 7,281 ^E 7,373	^E 1,718 ^E 1,798	5,563 5,782	0 0	5,563 5,782	147 234	-
92 January	E 7,363	^E 1,789					-
February	E7.373	E 1,789	5,885	0	5,885	353	-
	^{-7,373} ^{RE} 7,315	- 1,808 BE 1 705	5,033	0	5,033	298	-
March	PE 7,279	RE 1,785	^R 5,319	_0	^R 5,319	^R 320	-
April	PE 7 000	PE 1,749	E 5,950	E 0	E 5,950	E 560	-
4-Month Average	^{PE} 7,332	^{PE} 1,783	^E 5,552	E O	^E 5,552	E 383	-
91 4-Month Average	^E 7,477	^E 1,859	5,359	0	5,359	204	_
90 4-Month Average	7,471	1,830	6,014	30	5,984	160	-

• Due to differences internal to Energy Information Administration data processing systems, some small discrepancies exist between the data in this table and the data in the *Petroleum Supply Annual* and *Petroleum Supply Monthly*. See Note 6 at end of section.

^a Stocks are totals as of end of period.
^b A negative number indicates a decrease in stocks and a positive number indicates an increase.
^c Strategic Petroleum Reserve.
^d A balancing item.
^e Beginning in January 1983, crude oil used directly as fuel is shown as product supplied.
^f Stocks of Alaskan crude oil in transit are included beginning in January 1981. See Note 5 at end of section.
^g Stock change is calculated by using new basis stock levels. See Note 4 at end of section.
^g Footnotes continued on following page.

Footnotes continued on following page.

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

		-	Disp	position			E	Inding Stock	s ^a		
	Crude	Stock (Change ^b	Refinery		Product			Other		
	Losses	SPRC	Other	Input	Exports	Suppliede	Total	SPRC	Primar		
			Thousand I	Barrels per Day				Million Barrel	əls		
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		
78 Average	16	163	-84	14,739	158	-	376	67	309		
9 Average	16	67	81	14,648	235	-	,430	91	_ 33 9		
O Average	* 14	45	52	13,481	287	-	1466	108	' 358		
Average	5	336	[†] -46	12,470	228	-	594	230	_ 363		
2 Average	3	174	-38	11,774	236	-	9 644	294	9 350		
3 Average	2	234	9-20	11,685	164	66	723	379	344		
4 Average	2	195	4	12,044	181	64	796	451	345		
5 Average	ī	117	-67	12,002	204	60	814	493	321		
6 Average	(8)	50	28	12,716	154	49	843	512	331		
7 Average	(8)	80	49	12,854	151	34	890	541	349		
38 Average	(3)	52	-51	13,246	155	40	890	560	330		
9 Average	(s)	56	30	13,401	142	28	921	580	341		
0 January	(S)	24	249	13,491	132	40	930	581	349		
February	ò	12	-342	13,487	102	36	920	581	339		
March	Ō	44	1,013	12,876	132	24	953	582	37		
April	(S)	38	-12	13.051	111	24	954	583	370		
May	ò	89	389	13,386	112	30	969	586	383		
June	(s)	16	56	13,689	88	29	971	587	384		
July	ò	0	-154	14.212	89	31	966	587	379		
August	(s)	94	-321	14,142	64	18	959	590	370		
September	(s)	(S)	-897	14,104	68	14	932	590	343		
October	(s)	-8	120	12,825	104	15	936	589	346		
November	(s)	-111	-253	12,953	137	13	925	586	339		
December	(s)	-10	-517	12,708	162	15	908	586	323		
Average	(s)	16	-51	13,409	109	24	908	586	32		
91 January	0	0	-94	12,727	50	23	906	586	32		
February	0	-147	397	13,052	153	17	913	582	33		
March	(s)	-422	180	12,832	136	18	905	568	33		
April	(s)	0	65	13,037	162	21	907	568	33		
May	(s)	0	638	13,533	165	15	927	568	35		
June	(s)	(S)	-364	13,915	78	16	916	568	34		
July	ò	(s)	-163	13,701	139	15	911	569	34		
August	0	(s)	91	13,789	55	13	914	569	34		
September	(S)	Ó	-143	13,691	109	16	910	569	34		
October	(s)	(S)	54	12,894	91	22	911	569	34		
November	(s)	(s)	45	12,926	126	22	913	569	34		
December	(s)	(s)	-629	13,465	133	23	893	569	32		
Average	(s)	-47	4	13,298	116	18	893	569	32		
2 January	0	(S)	534	12,923	118	26	910	569	34		
February	_(s)	_ 0	_ 176	12,488	_ 22	_17	_915	569	_ 34		
March	RO	P_ (S)	^R -247	^R 13,077	^R 105	<u>P</u> 18	^R 907	ຼ569	R 33		
April	E (S)	E (s)	E 428	E 13,206	E 132	<u>E</u> 22	E 923	^E 569	E 35		
4-Month Average	E (s)	E (S)	E 222	^E 12,929	^E 95	^E 21	^E 923	^E 569	^E 35		
91 4-Month Average	(\$)	-143	131	12,907	124	20	907	568	33		
90 4-Month Average	(s)	30	243	13,221	120	31	954	583	37		

Footnotes continued.

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PE=Preliminary estimate. R=Revised data. -=Not applicable. E=Estimate. (s)=Less than 500 barrels per day. Notes: • Crude oil includes lease condensate. • Geographic coverage is the 50 States and the District of Columbia. • Totals may not equal sum of

components due to independent rounding. Source: Energy Information Administration, Petroleum Supply Monthly, May 1992, Table S2.

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

(Thousand Barrels per Day)

				Arab C	PECa			· · _ · · ·
	Al	geria	I	raq	Ku	wait ^c	L	ibya
	Total	Crude Oil	Total	Crude Oil	Total	Crude Oil	Total	Crude Oil
973 Average	136	120	4	4	47	42	164	133
974 Average	190	180	Ó	Ó	5	5	4	4
975 Average	282	264	2	2	16	4	232	223
976 Average	432	408	26	26	5	i	453	444
977 Average	559	544	74	74	48	42	723	704
978 Average	649	634	62	62	6	5	654	638
979 Average	636	608	88	88	8	5	658	642
980 Average	488	456	28	28	27	27	554	548
981 Average	311	261	(8)	0	0	0	319	317
982 Average	170	90	3	3	5	2	26	23
983 Average	240	176	10	10	14	7	20	23
984 Average	323	194	12	12	36	24	1	0
985 Average	187	84	46	46	21	24	4	-
986 Average	- 271	78	40 81	46 81			•	0
987 Average	295	115	83		68	28	0	0
	300	58		82	84	70	0	0
988 Average 989 Average	269	56 60	345 449	343 441	92 157	80 155	0	0
990 January	413	97	690	657	250	250	0	0
February	282	47	500	488	150	140	ő	0
March	301	67	585	580	100	82	ő	-
April	234	62	588	588	50	50	0	0
May	259	38	727	724			-	-
June	333	72	708	724	64	64	0	0
	308	70	1,120		105	94	0	0
July	360	80		1,120	43	33	0	0
August			966	966	243	207	0	0
September	279	69	318	318	33	33	0	0
October	173	15	0	0	0	0	0	0
November	177	46	0	0	0	0	0	0
December	242	92	0	0	0	0	0	0
Average	280	63	518	514	86	79	0	0
91 January	327	63	0	0	0	0	0	0
February	246	38	0	0	0	0	0	0
March	222	76	0	0	0	0	0	0
April	282	90	0	0	0	0	0	0
May	308	87	0	0	0	0	0	0
June	304	70	0	0	0	0	0	0
July	202	44	0	0	0	0	0	0
August	182	16	0	0	0	0	0	0
September	205	19	0	0	34	34	0	0
October	217	53	0	0	33	33	0	0
November	278	75	0	0	0	0	0	0
December	247	54	0	0	0	0	0	0
Average	252	57	0	0	6	6	0	0
92 January	217	37	0	0	0	0	0	0
February	218	57	0	0	0	0	0	0
March	215	37	0	0	0	0	0	0
3-Month Average	217	43	0	0 .	0	0	0	0
991 3-Month Average	266	60	0	0	0	0	0	0
990 3-Month Average	334	71	595	578	167	158	0	0

See footnotes at end of Table 3.3h.

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

(Thousand Barrels per Day)

			Arab	OPECa				
	Qa	itar	Saudi	Arabia ^C	United Ar	ab Emirates		otal OPEC ^a
	Total	Crude Oil	Total	Crude Oli	Total	Crude Oil	Total	Crude Oi
973 Average	7	7	486	462	71	71	915	838
974 Average	17	17	461	438	74	69	752	713
975 Average	18	18	715	701	117	117	1,383	1,330
976 Average	24	24	1.230	1,222	254	254	2,424	2,378
977 Average	67	67	1,380	1,373	335	333	3,185	3,136
978 Average	64	64	1,144	1,142	385	385	2,963	2,930
979 Average	31	31	1,356	1,347	281	281	3,058	3,002
980 Average	22	22	1,261	1,250	172	172	2,551	2,503
981 Average	7	7	1,129	1,112	81	77	1.848	1.774
982 Average	7	7	552	530	92	81	854	736
983 Average	(s)	Ó	337	321	30	18	632	533
984 Average	5	4	325	309	117	90	819	634
985 Average	(8)	ō	168	132	45	35	472	300
986 Average	13	12	685	618	44	38	1.162	854
987 Average	iõ	0	751	642	61	56	1.274	965
988 Average	ŏ	ŏ	1,073	911	29	23	1,839	1,415
989 Average	2	2	1,224	1,116	28	21	2,130	1,794
990 January	0	0	1,214	1,055	37	0	2,605	2,060
February	0	0	1,557	1,372	18	18	2,506	2,065
March	0	0	1,157	1,060	17	17	2,161	1,805
April	43	43	1,149	950	9	0	2,073	1,693
May	0	0	1,225	1,076	73	60	2,349	1,963
June	0	0	1,153	1,041	20	0	2,318	1,916
July	0	0	1.369	1.242	13	13	2,853	2,478
August	ō	Ō	1,189	1,052	0	0	2,757	2,305
September	Ō	Ó	1,286	1,168	0	0	1,915	1,588
October	ō	Ô,	1,619	1,473	0	0	1,792	1,488
November	Ó	0	1.581	1,431	0	0	1,758	1,477
December	0	0	1,587	1,431	14	0	1,843	1,523
Average	4	4	1,339	1,195	17	9	2,244	1,864
991 January	0	0	1,934	1,782	0	0	2,261	1,846
February	0	0	1,566	1,538	0	0	1,812	1,576
March	0	0	1,623	1,586	0	0	1,845	1,662
April	0	0	1,764	1,702	0	0	2,046	1,792
May	0	0	2,258	2,053	0	0	2,566	2,140
June	0	0	1,841	1,795	0	0	2,145	1,865
July	0	0	1,725	1,641	0	0	1,928	1,685
August	0	0	2,019	1,964	7	0	2,208	1,980
September	0	0	1,708	1,562	0	0	1,947	1,615
October	0	0	1,652	1,545	18	18	1,920	1,649
November	0	0	1,778	1,626	16	0	2,072	1,701
December	0	0	1,645	1,566	0	0	1,892	1,620
Average	0	0	1,795	1,698	3	2	2,055	1,763
992 January	0	0	1,971	1,865	18	0	2,206	1,902
February	0	0	1,776	1,687	0	0	1,995	1,745
March	0	0	1,707	1,568	0	0	1,922	1,605
3-Month Average	0	0	1,819	1,707	6	0	2,042	1,751
991 3-Month Average	0	0	1,712	1,639	0	0	1,978	1,699
990 3-Month Average	0	0	1,301	1,155	24	11	2,421	1,974

See footnotes at end of Table 3.3h.

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

(Thousand Barrels per Day)

				Non-Ara	o OPEC ^a			
	Ecu	ador	Ga	bon	Inde	onesia	1	ran
	Totai	Crude Oil	Total	Crude Oil	Total	Crude Oil	Total	Crude Oil
973 Average	48	47	٥	0	213	200	223	216
974 Average	42	42	23	23	300	284	469	463
975 Average	57	57	27	27	390	379	280	278
976 Average	51	51	28	26	539	537	298	298
977 Average	57	55	42	35	541	507	535	530
978 Average	54	38	41	38	573	533	555	554
979 Average	42	30	42	42	420	380	304	297
980 Average	27	300 17	26	25	348	314	304	297
	48	38	35	35	366		9	-
981 Average	40	30	40			318	-	0
982 Average				40	248	226	35	35
983 Average	61	56	59	59	338	315	48	48
984 Average	55	47	58	57	343	304	10	10
985 Average	67	56	52	51	314	292	27	27
986 Average	77	64	26	25	318	297	19	19
987 Average	29	23	35	35	285	262	. 98	98
988 Average	47	33	16	15	205	186	d (s)	^d (s)
989 Average	89	80	50	49	183	158	Ó	Ó
990 January	48	35	75	75	153	118	0	0
February	60	40	43	43	254	189	0	0
March	49	38	134	134	138	97	0	0
April	31	29	32	28	88	80	0	0
May	17	12	27	27	85	77	0	0
June	98	86	59	59	138	129	Ő	ō
July	60	43	69	69	143	137	ō	Ō
August	81	69	119	119	69	55	ŏ	Ō
September	43	37	59	59	111	111	ŏ	ŏ
October	49	43	50	50	88	88	ŏ	ŏ
November	13	13	71	71	72	72	ů 0	ő
December	35	12	30	30	45	36	ő	ő
	49	38	64	64	114	98	0	0
Average	43	30	~	04	114	30	v	U
991 January	12 66	6 55	41 95	41 95	61 162	61 153	0	0
February March	67	58	29	29	93	93	0	0
		24					0	-
April	35		72	72	61	61	-	0
May	109	103	96	96	111	111	0	0
June	129	126	70	70	187	187	0	0
July	62	47	137	137	88	88	81	81
August	112	93	56	56	93	87	48	48
September	31	25	91	· 91	83	64	152	152
October	30	24	137	137	118	91	43	43
November	55	48	91	91	120	96	64	64
December	41	23	91	91	163	134	0	0
Average	62	53	84	84	111	102	32	32
992 January	23	23	91	91	125	117	0	0
February	37	24	105	105	39	39	0	0
March	26	26	25	25	85	83	0	0
3-Month Average	28	24	73	73	84	81	0	0
991 3-Month Average	48	39	54	54	103	101	0	0
990 3-Month Average	52	38	86	86	179	133	0	0

See footnotes at end of Table 3.3h.

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

(Thousand Barrels per Day)

		Non-Arab	OPECª					
	Ni	geria	Ven	ezuela		otal ab OPEC ^a		otal DEC ^a
	Total	Crude Oil	Total	Crude Oil	Total	Crude Oil	Total	Crude Ol
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
80 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
82 Average	514	510	412	155	1,291	998	2,146	1,734
B3 Average	302	301	422	164	1.231	944	1.862	1.477
84 Average	216	207	548	253	1,230	878	2,049	1,512
B5 Average	293	280	605	306	1,358	1,012	1,830	1,312
86 Average	440	437	793	416	1,674	1,259	2.837	2,113
	535	529	804	488	1,787	1,435	3,060	•
87 Average	535 618	52 5 607	794	439	•			2,400
88 Average 89 Average	815	800	873	435	1,681 2,010	1,281 1,582	3,520 4,140	2,696 3,376
						·		
90 January	830	830	1,155	696	2,260	1,754	4,865	3,813
February	833	816	898	564	2,088	1,652	4,594	3,717
March	1,054	1,031	893	543	2,268	1,843	4,429	3,648
April	969	941	1,005	692	2,125	1,772	4,198	3,465
Мау	1,008	9 9 7	1,087	705	2,225	1,818	4,574	3,781
June	778	760	1,070	704	2,142	1,737	4,460	3,653
July	860	855	1,007	665	2,139	1,769	4,992	4,246
August	881	881	1,014	617	2,164	1,741	4,921	4,046
September	755	743	1,062	740	2,029	1,690	3,944	3,277
October	557	536	982	717	1,725	1,434	3,517	2,921
November	574	555	1,142	725	1,871	1,435	3,629	2,912
December	499	461	975	616	1,585	1,155	3,428	2,678
Average	800	784	1,025	666	2,052	1,650	4,296	3,514
91 January	504	481	1,021	689	1,638	1,277	3.899	3,123
February	721	717	959	686	2,003	1,705	3,815	3,282
March	523	523	991	631	1,703	1,334	3,548	2,996
April	666	638	846	470	1,680	1,265	3,727	3,057
May	860	838	978	581	2,153	1,728	4,719	3,868
June	832	827	1.019	581	2,133	1,791	4,382	3,655
July	836	820	1,084	676	2,289	1,850	4,362	3,655
August	1.016	983	1,034	701	2,363	1,966	4,210	3,536
September	489	467	1,104	701	1,949	1,572	3,897	3,940
October	409 651	623	1,04	777	2,067	1,694	3,897	,
November	704	674	1,053	671	•			3,343
December	617	593	975	655	2,087	1,644	4,159	3,346
Average	702	682	975 1,014	658	1,887 2,005	1,496 1,610	3,779 4,060	3,116 3,373
-					-	-		-
92 January	593	566	1,105	787	1,935	1,583	4,141	3,485
February	322	303	1,008	655	1,511	1,126	3,506	2,871
March	441	409	1,098	793	1,676	1,336	3,598	2,941
3-Month Average	455	429	1,072	747	1,712	1,353	3,754	3,104
91 3-Month Average	578	569	991	668	1,774	1,430	3,752	3,129
90 3-Month Average	908	895	985	602	2,210	1,753	4,631	3,726

See footnotes at end of Table 3.3h.

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

(Thousand Barrels per Day)

		Non-OPEC ^b													
		Angola	A	ustralla		ahama lands	B	Irazil	C	anada		China			
	Tot	al Crude C	li Total	Crude Oll	Total	Crude Oll	Total	Crude Oil	Total	Crude Oll	Total	Crude Oil			
1973 Average		9 49	2	0	174	0	9	0	1,325	1.001	(S)	0			
1974 Average		9 48	1	0	164	0	2	0	1,070	791	Ó	0			
1975 Average		'5 71	5	0	152	0	5	0	846	600	0	0			
1976 Average	1	2 7	2	0	118	0	0	0	599	371	0	0			
1977 Average		4 17	3	0	171	0	0	0	517	279	0	0			
1978 Average		0 6	5	0	160	0	0	0	467	248	0	0			
1979 Average		3 39	6	0	147	0	1	0	538	271	13	13			
1980 Average		2 37	1	0	78	0	3	1	455	199	(s)	0			
1981 Average		9 45	5	0	74	0	23	14	447	164	18	0			
1982 Average		4 42	5	(s)	65	0	47	19	482	214	40	8			
1983 Average	7	'8 71	4	0	125	0	41	2	547	274	34	6			
1984 Average		0 85	38	25	88	0	60	(s)	630	341	46	15			
1985 Average		0 104	37	21	40	0	61	0	770	468	59	36			
1986 Average	1 1	2 102	41	30	37	0	50	0	807	570	90	68			
1987 Average	19	2 180	58	49	37	0	84	0	848	608	82	63			
1988 Average		2 203	64	59	32	0	98	0	999	681	88	82			
1989 Average		4 279	36	31	34	0	82	0	931	630	80	76			
1990 January		2 262	41	41	80	0	48	0	982	605	121	121			
February			58	55	78	0	45	0	946	585	53	51			
March		6 296	41	41	35	0	8	0	850	583	83	83			
April		81 281	25	20	51	0	40	0	925	617	80	74			
May		5 235	69	69	29	0	114	0	981	654	66	65			
June			44	44	36	0	82	0	942	699	49	43			
July			126	101	25	0	93	0	899	65 9	132	122			
August			56	33	40	0	45	0	952	676	79	77			
September			57	45	45	0	8	0	924	632	47	42			
October			31	31	9	0	12	0	917	636	85	85			
November			28	28	0	0	. 74	0	902	645	113	113			
December			64	60	13	0	16	0	987	713	47	47			
Average		37 236	53	47	37	0	49	0	934	643	80	77			
1991 January			21	21	25	0	29	0	967	722	68	63			
February			0	0	14	0	13	0	1,123	877	102	96			
March			0	0	0	0	0	0	1,051	764	96	96			
April			55	55	35	0	17	0	1,092	764	113	113			
May			57	57	42	0	31	0	1,022	752	119	113			
June			43	31	30	0	41	0	1,081	806	144	139			
July			12	12	19	0	21	0	831	606	88	88			
August			37	22	78	0	27	0	995	687	85	75			
September			24	24	29	0	19	0	1,132	849	91	86			
October			13	.0	51	0	16	0	925	639 704	29	24			
November			25	13	46	0	45	0	1,088	794	96	96			
December			13 25	13 21	53 35	0	8 22	0 0	1,080	757 750	65 91	65 87			
Average		64 254	25	21	35	U	22	U	1,031	750	91	87			
1992 January			11	11	63	0	18	0	1,023	783	144	144			
February			10	10	47	0	12	0	1,143	831	75	69			
March			0	0	76	0	0	0	1,094	829	75	75			
3-Month Averag	je 31	6 316	7	7	63	0	10	0	1,085	814	98	97			
1991 3-Month Averag			7	7	13	0	14	0	1,045	784	88	84			
1990 3-Month Averag	je 30	0 300	46	45	64	0	34	0	926	592	87	86			

See footnotes at end of Table 3.3h.

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

(Thousand Barrels per Day)

					Non	OPEC ^b				
	Colombia		Italy		Ma	laysia	Mexico		Neth	erlands
	Total	Crude Oil	Total	Crude Oil	Total	Crude Oil	Total	Crude Oil	Total	Crude Oil
1973 Average	9	2	125	0	12	1	16	1	53	0
1974 Average	5	0	74	0	12	1	8	2	43	0
1975 Average	9	0	27	0	8	5	71	70	19	4
1976 Average	21	6	39	0	18	16	87	87	8	0
1977 Average	17	0	51	0	66	55	179	177	31	4
1978 Average	20	0	38	0	42	37	318	316	5	2
1979 Average	18	0	30	0	66	52	439	437	23	7
1980 Average	4	0	4	0	70	61	533	507	2	(8)
1981 Average	1	0	11	0	36	33	522	469	30	(8)
1982 Average	5	0	18	(s)	20	18	685	645	35	(8)
1983 Average	10	0	18	(\$)	4	3	826	766	65	3
1984 Average	8	0	45	(8)	1	0	748	659	65	3
1985 Average	23	0	60 70	(8)	3	1	816	715	58	0
1986 Average	87	57	76 54	0	12	11	699	621	54	0
1987 Average	148 134	115 106		1 5	13	12	655	602	60	0
1988 Average 1989 Average	172	136	65 34	3	19 39	19 39	747 767	674 716	61 49	0
1990 January	188	146	124	0	14	14	776	691	129	0
February	203	168	76	0	42	38	725	669	80	Ō
March	177	146	47	0	28	28	815	757	21	0
April	198	143	53	0	38	38	466	414	47	0
May	220	175	101	10	0	0	788	688	63	Ó
June	180	117	95	0	9	9	912	815	92	0
July	169	111	56	11	20	20	706	651	54	0
August	203	132	43	0	142	142	773	676	39	0
September	97	84	38	0	105	105	871	807	20	0
October	183	159	21	0	78	78	828	793	37	0
November	209	177	32	0	8	8	761	706	49	0
December	161	121	13	0	6	6	637	595	28	0
Average	182	140	58	2	41	40	755	689	55	0
1991 January	194	174	25	0	0	0	779	759	6	0
February	151	98	42	13	9	9	742	693	8	0
March	157 163	127 131	29 41	0	21	21	791	772	33	0
April May	163	112	41 60	12 0	0 66	0 66	889 757	819 726	35 45	0
June	169	124	46	0				736	. –	-
July	163	124	40 54	0	49 9	49 9	919 835	872 748	49 47	0
August	219	179	57	11	9 14	9 14	878	748 797	47 30	0
September	157	103	89	0	14	14	805	797	30 44	0
October	128	80	41	ŏ	64	64	799	754	16	ő
November	145	135	15	ő	10	10	690	656	24	0
December	138	117	61	ŏ	14	14	723	708	4	ő
Average	162	125	47	3	22	22	801	757	28	ŏ
1992 January	158	111	40	0	0	0	764	721	31	0
February	114	92	48	0	0	0	819	788	9	0
March	101	74	44	0	0	0	846	809	34	Ō
3-Month Average	124	92	44	0	0	0	809	773	25	Ō
1991 3-Month Average	168	134	31	4	10	10	772	743	16	0
1990 3-Month Average	189	153	83	0	27	26	774	707	77	0

See footnotes at end of Table 3.3h.

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Table 3.3gPetroleum Imports: Netherlands Antilles, Norway, Puerto Rico, Spain,Trinidad and Tobago, and United Kingdom

	Non-OPEC ^b													
		nerlands ntilles	Norway		Pue	rto Rico	s	pain		inidad Tobago		nited ngdom		
	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	255	60	15	0		
1974 Average	511	0	1	1	90	0	12	0	251	63	8	0 '		
1975 Average	332	0	17	12	90	0	1	0	242	115	14	(s)		
1976 Average	275	0	36	35	88	0	1	0	274	104	31	13		
1977 Average	211	Ö	50	48	105	0	10	0	289	134	126	97		
1978 Average	229	0	104	104	94	0	3	0	253	142	180	169		
1979 Average	231	0	75	75	92	0	4	0	190	123	202	197		
1980 Average	225	0	144	144	88	0	1	0	176	115	176	173		
1981 Average	197	0	119	114	62	0	1	(S)	133	102	375	369		
1982 Average	175	0	102	102	50	0	3	(8)	112	92	456	441		
1983 Average	189	0	66	65	40	0	2	(s)	96	83	382	365		
1984 Average	188	Ō	114	112	42	Ó	11	· `O	94	87	402	378		
1985 Average	40	Ő	32	31	28	ō	29	1	113	98	310	278		
1986 Average	25	ŏ	60	53	21	ŏ	53	ō	125	93	350	317		
1987 Average	29	Ō	80	70	21	Ó	55	Ō	106	75	352	304		
1988 Average	36	ŏ	67	62	22	ŏ	68	ō	97	71	315	254		
1989 Average	42	Ō	138	127	32	Ō	67	Ŏ	94	73	215	160		
1990 January	9	0	75	67	35	0	60	0	109	84	219	147 [′]		
February	27	0	43	37	32	0	53	0	89	67	74	23		
March	10	0	50	50	32	0	13	0	103	96	257	221		
April	40	0	134	118	33	0	17	0	114	81	304	288		
May	20	0	166	166	38	0	87	0	88	58	369	305		
June	21	0	209	199	27	Ó	66	0	118	83	249	233		
July	30	ō	129	129	35	ō	104	Ő	107	73	224	179		
August	41	Ó	159	159	29	0	54	0	108	91	183	179		
September	33	Ō	125	119	20	Ō	23	0	89	70	155	155		
October	43	Ō	67	67	29	Ó	21	Ó	83	76	81	44		
November	46	ō	17	17	50	Ō	25	ō	81	73	112	56		
December	53	ŏ	43	17	29	ō	38	ŏ	62	62	33	19		
Average	31	ŏ	102	96	32	ō	47	Ŏ	96	76	189	155		
1991 January	103	0	45	34	22	0	26	0	75	64	32	19		
February	23	0	37	37	20	0	18	0	76	76	34	21		
March	56	0	25	16	14	0	13	0	86	73	48	19		
April	61	0	43	35	23	0	66	0	84	64	61	37		
May	113	0	165	156	42	0	53	0	61	61	222	188		
June	84	0	99	84	19	0	41	0	114	104	97	70		
July	86	0	69	63	25	0	22	0	91	72	228	164		
August	100	0	142	136	42	0	48	0	91	66	254	217		
September	75	0	79	72	28	0	42	0	119	75	218	194		
October	90	0	98	98	12	0	24	0	88	76	189	166		
November	100	0	73	65	35	0	19	0	77	69	84	18		
December	88	0	94	88	36	0	26	0	87	71	154	151		
Average	82	0	81	74	27	0	33	0	87	72	136	106		
1992 January	40	0	25	17	32	0	35	0	108	79	128	115		
February	82	0	11	0	23	0	16	0	109	76	63	0		
March	49	0	11	0	18	0	37	0	105	85	7 9	52		
3-Month Average	56	0	16	6	24	0	30	0	108	80	91	57		
1991 3-Month Average	62	0	36	29	19	0	19	0	79	71	38	20		
1990 3-Month Average	15	0	57	52	33	0	42	0	101	83	187	134		

(Thousand Barrels per Day)

See footnotes at end of Table 3.3h.

Table 3.3h Petroleum Imports: Former U.S.S.R., Virgin Islands, Total Non-OPEC, and Total Imports

(Thousand Barrels per Day)

	Non-OPEC ^b									
	Former U.S.S.R.		Virgin	Islands		Nher I-OPEC	Total Non-OPEC ^b			lotal Aports
	Total	Crude Oil	Total	Crude Oil	Total	Crude Oil	Total	Crude Oil	Total	Crude O
973 Average	26	0	329	0	153	36	3,263	1,149	6,256	3,244
974 Average	20	0	391	0	122	30	2,832	937	6,112	3,477
975 Average	14	0	406	0	120	14	2,454	893	6,056	4,105
976 Average	11	2	422	0	203	101	2,247	742	7,313	5,287
977 Average	12	2	466	Ó	287	157	2.614	971	8,807	6,615
978 Average	8	1	428	Ó	239	146	2.612	1,172	8,363	6,356
979 Average	1	0	431	Ō	269	192	2,819	1,407	8,456	6,519
980 Average	1	Ō	388	ŏ	219	162	2,609	1,399	6,909	5,263
981 Average	5	(8)	327	ŏ	236	163	2.672	1,474	5,996	4,396
982 Average	1	(0)	316	ŏ	306	174	2,968	1,754	5,113	3,488
983 Average	i	(s)	282	ŏ	378	215	3,189	1,853	5,051	3,329
984 Average	13	(8)	294	ŏ	411	210	3,189	1,855	5,031	3,32 5 3,426
985 Average	8	(8)	247	ŏ	394	137	3,300	1,888	5,437 5,067	3,420
986 Average	18	(8)	244	ŏ	426	144				
987 Average	10	(3)	272	ŏ	459	196	3,387	2,065	6,224	4,178
988 Average	29	ő	242	ŏ	439	196	3,617	2,274	6,678	4,674
989 Average	48	ŏ	321	0	467	190	3,882 3,921	2,411 2,467	7,402 8,061	5,107 5,843
990 January	62	0	409	0	588	220	4.332	2,399	9,197	6.212
February	40	ō	323	ŏ	471	139	3,805	2,177	8,399	5,895
March	0	ŏ	264	ŏ	405	168	3,536	2,469	7,965	6,117
April	20	ŏ	283	ŏ	513	275	3.660	2,348	7,858	5.813
May	0	ŏ	285	ő	541	248	4,260	2,673	8.834	6,454
June	19	ŏ	299	ŏ	579	270	4,287	2,771	8,747	6,423
July	92	ő	252	ŏ	500	251	4,257	2,609	9,048	6,855
August	73	ő	230	ŏ	340	107	3,722	2,406	9,048 8.644	6,655
September	49	ŏ	240	ŏ	336	206	3,417	2,408	7,361	
October	87	10	204	ŏ	245					5,664
November	63	0	312	ŏ	243 254	92	3,199	2,210	6,717	5,132
	34	ő	291	0		112	3,374	2,173	7,003	5,085
December		-		-	233	70	3,011	1,933	6,439	4,611
Average	45	1	282	0	417	180	3,721	2,381	8,018	5,894
991 January February	28 17	0	261 222	0	229 180	91 96	3,167	2,180	7,066	5,303
March	13	0	222	0			3,030	2,217	6,844	5,498
April	33	0	214 245	0	169 256	60 99	3,002	2,133	6,550	5,129
	42	0	245 264	0			3,647	2,466	7,374	5,523
May	42	0		-	233	58	3,777	2,519	8,496	6,387
June	58	0	234	0	330	179	3,795	2,662	8,177	6,317
July			191	•	384	275	3,498	2,414	7,714	5,949
August	80	23	208	0	369	197	4,052	2,721	8,622	6,667
September	23	0	261	0	374	197	3,848	2,608	7,745	5,795
October	13	0	262	0	252	139	3,409	2,340	7,396	5,683
November	16	0	264	0	335	130	3,400	2,199	7,559	5,544
December	16	0	286	0	229	104	3,534	2,447	7,313	5,563
Average	28	2	243	0	279	135	3,515	2,409	7,576	5,782
92 January	17	0	250	0	206	59	3,452	2,399	7,593	5,885
February	3	0	222	0	195	50	3,248	2,162	6,754	_ 5,033
March	0	0	202	0	328	114	3,438	2,378	^R 7,036	^R 5,319
3-Month Average	7	0	225	0	244	75	3,382	2,316	7,136	5,421
991 3-Month Average	20	0	233	0	193	82	3,068	2,175	6,819	5,304
990 3-Month Average	34	0	332	0	489	177	3,894	2,354	8,524	6,080

a Excludes petroleum imported into the United States indirectly from members of the Organization of Petroleum Exporting Countries (OPEC), primarily from Caribbean and West European areas, as petroleum products that were refined from crude oil produced by OPEC. ^b 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. ^C Imports from the Neutral Zone between Kuwait and Saudi Arabia are included in Saudi Arabia. ^d A small amount of Iranian crude oil entered the United States in January 1988 from the Virgin Islands. The oil originated in Iran and was exported to the

Virgin Islands prior to the signing of Executive Order 12613 on October 29, 1987.

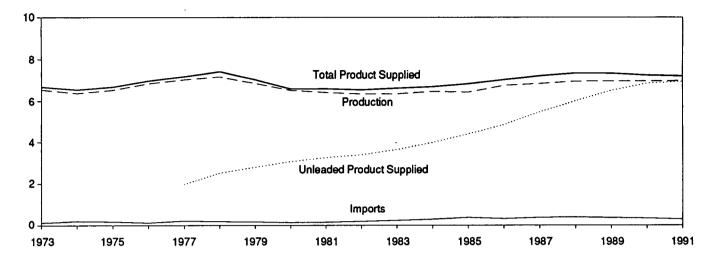
R=Revised data. (s)=Less than 500 barrels per day.

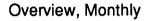
Notes: • Beginning in October 1977, Strategic Petroleum Reserve imports are included. • Geographic coverage is the 50 States and the District of Columbia. Totals may not equal sum of components due to independent rounding. Source: Energy Information Administration, Petroleum Supply Monthly, May 1992, Table S3.

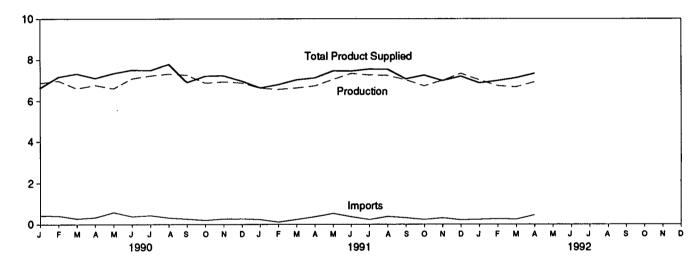
Figure 3.2 Finished Motor Gasoline

(Million Barrels per Day, Except as Noted)

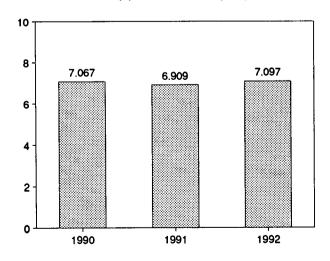
Overview, 1973-1991







Total Product Supplied, January-April



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

Total Stocks, End of Month

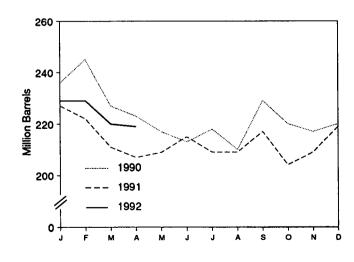


Table 3.4 Finished Motor Gasoline Supply and Disposition

	Sup	ply			Ending Stocks				
	_				P	roduct Suppli	ed	Total	Finished
	Total Production	Imports ^b	Stock Change ^{b,c}	Exports	Total	Unleaded ^d	Unleaded	Motor Gasoline ^e	Motor Gasoline
			Thousand Ba	rrels per Day			Percent of Total	Million	Barrels
72 Avence	6,535	134	-9	4	6,674	_	_	209	_
973 Average 974 Average	6,360	204	24	2	6,537	-	_	¹ 218	_
975 Average	6,520	184	128	2	6,675	-	_	235	_
976 Average	6,841	131	-10	3	6,978	-	-	231	-
977 Average	7,033	217	· 72	2	7,177	1,976	27.5	258	-
978 Average	7,169	190	-54	1	7,412	2,521	34.0	238	-
379 Average	6,852	181	-2	(s)	7,034	2,798	39.8	237	-
380 Average	6,506	140	66	1	6,579	3,067	46.6	[†] 261	-
981 Average ^g	6,405	157	[†] -28	2	6,588	3,264	49.5	253	203
982 Average	6,338	197	-25	20	6,539	3,409	52.1	1235	1194
983 Average	6,340	247	f-45	10	6,622	3,647	55.1	222	186
984 Average	6,453	299	54	6	6,693	3,987	59.6	243	205
	6,419	381	-41	10	6,831	4,406	64.5	223	190
985 Average	6,752	326	11	33	7,034	4,854	69.0	233	194
987 Average	6,841	384	-15	35	7,206	5,470	75.9	226	189
	6,956	405	-13	22	7,336	5,995	81.7	228	190
988 Average 989 Average	6,963	369	-35	39	7,328	6,507	88.8	213	177
	e 970	417	621	31	6,643	6,246	94.0	236	196
90 January	6,879		169	53	7,179	6,703	93.4	245	201
February	6,989	411		53 45	7,338	6,894	93.9	245	186
March	6,613	270	-499		•			223	184
April	6,775	328	-45	28	7,121	6,704	94.1	223	178
May	6,610	585	-189	25	7,358	6,937	94.3	217	176
June	7,101	376	-93	52	7,519	7,099	94.4		
July	7,238	432	133	41	7,496	7,090	94.6	218	180
August		313	-233	77	7,796	7,383	94.7	210	172
September	7,274	254	511	103	6,914	6,589	95.3	229	188
October		192	-244	90	7,226	6,883	95.3	220	180
November		259	-108	66	7,241	6,940	95.8	217	177
December Average	6,887 6,959	264 342	119 10	53 55	6,978 7,235	6,713 6,850	96.2 94.7	220 220	181 181
	•				•				407
991 January	6,629	227	164	50	6,643	6,361	95.8	227 222	187 181
February		106	-229	102	6,806	6,592	96.9 06.6	222	173
March		235	-267	97 52	7,047	6,737	95.6 96.1	207	173
April	6,742	371	-77 56	53 59	7,137 7,475	6,860 7,195	96.1	207	172
May		528			•		96.3 96.4	209	172
June		371	159	99	7,465	7,193	96.4 96.2	209	171
July		232	-173	122	7,561	7,271	96.2 96.2	209	171
August		385	-10	98 63	7,555	7,271	96.2 96.4	209	177
September		321	210		7,091	6,838	96.6	217	167
October		236	-350	58	7,273	7,030		204 209	173
November		318 216	227 270	104 79	7,005 7,221	6,827 7,081	97.5 98.1	209	182
December Average	~ ~	218 297	-1	82	7,193	6,941	96.5	219	182
-									
992 January		237	300	87	6,893	6,761	98.1	229	191
February	6,753	270 B 247	-41 B 075	59 8 74	7,004 B7145	6,875 87.010	98.2	229 B 220	190 ^R 181
March	^R 6,694	^R 247	R-275	R 71	^R 7,145	^R 7,010	98.1 E oo o	R 220	
April	E 6,934	E 452	E-33	E 71	E 7,348	E7,214	E 98.2	E 219	E 182
4-Month Average	^E 6,857	^E 301	^E -11	^E 72	^E 7,097	^E 6,964	^E 98.1	^E 219	^E 182
991 4-Month Average	6,648	237	-99	75	6,909	6,637	96.1	207	170
990 4-Month Average	6,810	356	59	39	7,067	6,634	93.9	223	184

^a Stocks are totals as of end of period.

^b Beginning in 1981, excludes blending components.

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

d Includes gasohol.

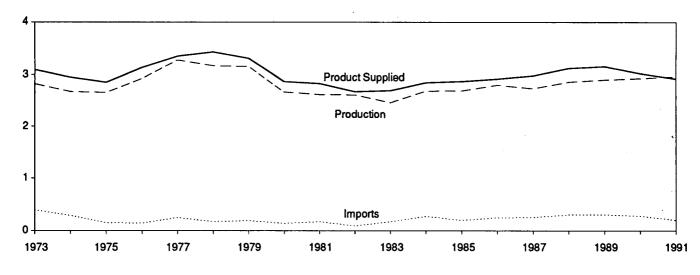
 Includes motor gasoline blending components.
 In January 1975, 1981, and 1983, numerous respondents were added to surveys, thereby affecting stocks reported and stock change calculations. See Note 4 at end of section.

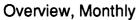
⁹ Beginning in January 1981, survey forms were modified. See Notes 1 and 2 at end of section.

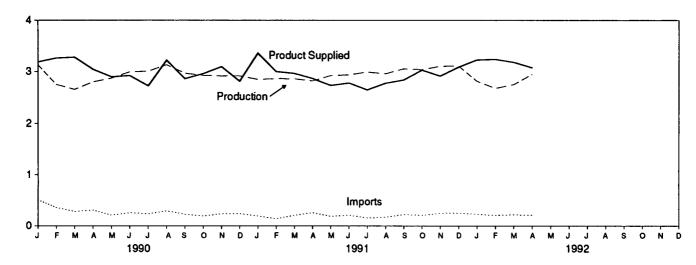
R=Revised data. -=Not applicable. E=Estimate. (s)=Less than 500 barrels per day. Notes: • Geographic coverage is the 50 States and the District of Columbia. • Totals may not equal sum of components due to independent rounding. Source: Energy Information Administration, *Petroleum Supply Monthly*, May 1992, Table S4.

Figure 3.3 Distillate Fuel (Million Barrels per Day, Except as Noted)

Overview, 1973-1991

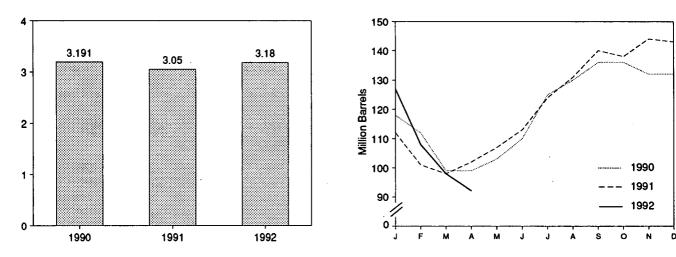






Stocks, End of Month

Product Supplied, January-April



Source: Table 3.5.

		Supply			Disposition			
	Total Production Imports		Crude Used Directly ^a	Stock Change ^b	Exports	Product Supplied ^a	Ending Stocks ^c	
			Thousand Ba	arrels per Day			Million Barre	
072 Avomao	2,822	392	2	115	9	3,092	196	
973 Average	2,669	289	2	* 10	2	2,948	d 200	
74 Average		155	2	^d • -41	1	2,851	209	
75 Average	2,654				1	3,133	186	
76 Average	2,924	146	1	-62	1		250	
77 Average	3,278	250	1	176	3	3,352	216	
78 Average	3,167	173	1	-93	3	3,432	210	
979 Average	3,153	193	1	34		3,311		
80 Average	2,662	142	1	-64	3	2,866	d 205	
981 Average ^e	2,613	173	10	d-38	5	2,829	192	
982 Average	2,606	93	10	-35	74	2,671	^d 179	
983 Average	2,456	174	-	^d -124	64	2,690	140	
984 Average	2,681	272	-	57	51	2,845	161	
985 Average	2,687	200	-	-48	67	2,868	144	
986 Average	2,798	247	-	31	100	2,914	155	
987 Average	2,731	255	-	-56	66	2,976	134	
988 Average	2,859	302	-	-30	69	3,122	124	
989 Average	2,899	306	-	-49	97	3,157	106	
90 January	3,130	505	-	388	62	3,185	118	
February	2,753	357	-	-215	65	3,260	112	
March	2,657	281	-	-415	75	3,277	99	
April	2,803	308	_	9	59	3,043	99	
May	2,874	209	_	108	75	2,900	103	
June	2,996	257	_	246	84	2,923	110	
July	3,008	236	_	487	30	2,726	125	
	3,131	293	_	156	51	3,218	130	
August		235		207	123	2,864	136	
September	2,968		-			•	136	
October	2,928	190	-	8	150	2,960		
November	2,915	238	-	-129	188	3,094	132	
December	2,917	239	-	-7	347	2,816	132	
Average	2,925	278	-	73	109	3,021	132	
91 January	2,851	190	-	-648	332	3,356	112	
February	2,867	138	-	-388	393	3,000	101	
March	2,862	206	-	-96	198	2,966	98	
April	2,822	258	-	130	81	2,869	102	
May	2,924	185	-	156	218	2,735	107	
June	2,940	209	-	216	150	2,783	113	
July	2,992	153	-	348	149	2,649	124	
August	2,959	167	-	203	144	2,779	131	
September	3,054	221	-	298	136	2,840	140	
October	3,039	206	-	-42	259	3,029	138	
November	3,103	245	-	207	224	2,916	144	
December	3,107	252	-	-30	302	3,086	143	
Average	2,961	203	-	31	215	2,917	143	
92 January	2,818	227	-	-541	360	3,226	127	
February	2,681	207	-	-629	278	_ 3,238	108	
March	^R 2,753	^R 218	-	^R -346	^R 138	^R 3.179	^R 98	
April	E 2,952	E210	-	E-122	E 208	E3,076	E92	
4-Month Average	E 2,802	E216	-	E-408	E 246	E 3,180	E 92	
91 4-Month Average	2,850	199	-	-250	249	3,050	102	
90 4-Month Average	2,838	363	-	-55	65	3,191	99	

Table 3.5 Distillate Fuel Oil Supply and Disposition

* Due to differences internal to Energy Information Administration data processing systems, some small discrepancies exist between the data in this table and the data in the Petroleum Supply Annual and Petroleum Supply Monthly. See Note 6 at end of section.

^a Beginning in January 1983, product supplied for distillate fuel oil does not include crude oil used directly.

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

^c Stocks are totals as of end of period.

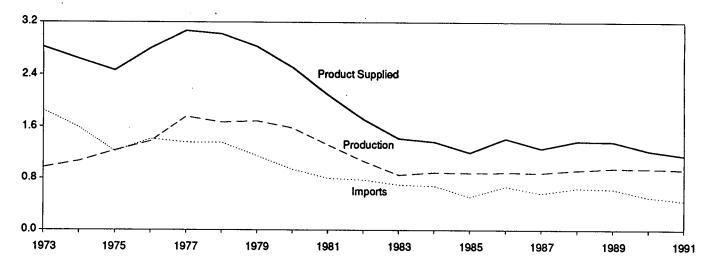
^d In January 1975, 1981, and 1983, numerous respondents were added to surveys, thereby affecting stocks reported and stock change calculations. See Note 4 at end of section. Due to a rounding difference, the 1975 stock change value is -40 in the *Petroleum Supply Annual* and the *Petroleum Supply Monthly*.
 ^e Beginning in January 1981, survey forms were modified. See Note 1 at end of section.
 R=Revised data. – =Not applicable. E=Estimate. (s)=Less than 500 barrels per day.
 Notes: • Geographic coverage is the 50 States and the District of Columbia. • Totals may not equal sum of components due to independent rounding.

Source: Energy Information Administration, Petroleum Supply Monthly, May 1992, Table S5.

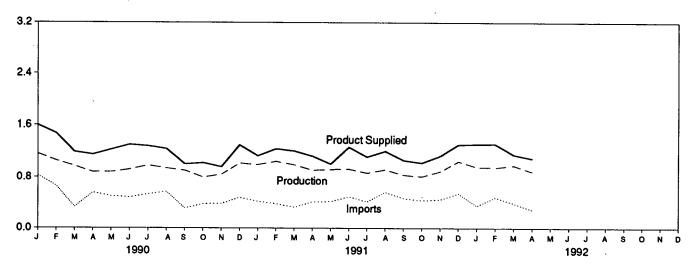
Figure 3.4 Residual Fuel

(Million Barrels per Day, Except as Noted)

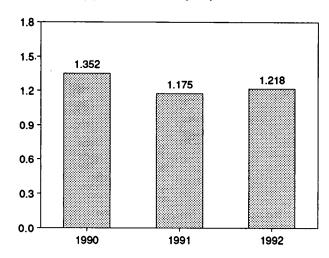
Overview, 1973-1991



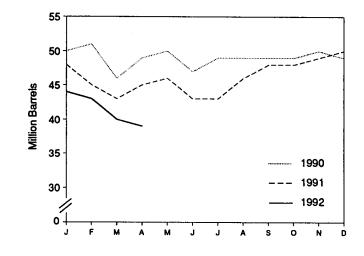




Product Supplied, January-April



Stocks, End of Month



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

		Supply			1		
	Total Production	Imports	Crude Used Directly ^a	Stock Change ^b	Exports	Product Supplied ^a	Ending Stocks ^c
ľ			Thousand Ba	arrels per Day	A		Million Barrel
	074	4 052		-5	23	2,822	53
973 Average	971	1,853	17 13	-5 17	14	2,639	d 60
974 Average	1,070	1,587	15	d.2	15	2,462	74
975 Average	1,235	1,223	15	-5	13	2,801	72
976 Average	1,377	1,413		-5	6	3,071	90
977 Average	1,754	1,359	13		13	3,023	90
978 Average	1,667	1,355	13	1	9		96
979 Average	1,687	1,151	12	15		2,826	d 92
980 Average	1,580	939	12	d -10	33	2,508	
981 Average ^e	1,321	800	48	^d -37	118	2,088	78 ^d 66
982 Average	1,070	776	48	-32	209	1,716	
983 Average	852	699	-	^d -55	185	1,421	49
984 Average	891	681	-	12	190	1,369	53
985 Average	882	510	-	-7	197	1,202	50
986 Average	889	669	-	-8	147	1,418	47
987 Average	885	565	-	(s)	186	1,264	47
988 Average	926	644	-	-8	200	1,378	45
989 Average	954	629		-2	215	1,370	44
90 January	1,163	825	-	205	186	1,597	50
February	1,060	663	-	36	214	1,474	51
March	976	335	-	-158	277	1,192	46
April	882	559	-	90	200	1,151	49
May	884	507	-	22	141	1,227	50
June	926	485	-	-98	207	1,302	47
July	987	536	-	72	171	1,280	49
August	944	574	-	-1	280	1,238	49
September	909	313	_	15	200	1,007	49
October	799	383	-	-3	160	1,026	49
November	846	387	_	25	243	965	50
December	1,021	484	_	-50	259	1,296	49
Average	950	504	-	13	211	1,229	49
991 January	1,000	422	_	-32	320	1,133	48
February	1,049	384	-	-106	299	1,239	45
March	997	331	_	-55	178	1,206	43
April	915	416	_	58	145	1,128	45
May	926	420	-	36	300	1,010	46
June	933	499	-	-78	245	1,265	43
July	870	419	-	-4	176	1,118	43
	925	568	-	72	216	1,205	46
August	838	473	-	77	168	1,066	48
October	813	438	· -	7	217	1,028	48
	896	436	-	30	189	1,132	49
November		454 547	-	28	264	1,306	50
Average	1,051 934	, 547 448	-	20 4	204	1,152	50
÷	064	352	_	-180	184	1,313	44
992 January	964		-				44 43
February	956	487 B 000	-	-46 ^R -82	176 ^R 310	1,314 ^R 1,153	43 R ₄₀
March	989	R 392	-			1,153 E 4 665	E 39
April	E 893	E 291	-	E-118	E 207	E 1,095	
4-Month Average	E 951	^E 380	-	^E -108	^E 220	^E 1,218	E 39
991 4-Month Average	989	388		-33	235	1,175	45
990 4-Month Average	1,020	594	-	43	219	1,352	49

Table 3.6 Residual Fuel Oil Supply and Disposition

^a Beginning in January 1983, product supplied for residual fuel oil does not include crude oil used directly.

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

с Stocks are totals as of end of period.

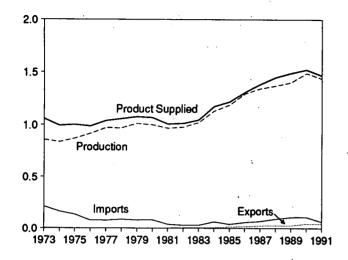
d In January 1975, 1981, and 1983, numerous respondents were added to surveys, thereby affecting stocks reported and stock change calculations. See Note 4 at end of section. ^o Beginning in January 1981, survey forms were modified. See Note 1 at end of section.

Revised data. – =Not applicable. E=Estimate. (s)=Less than 500 barrels per day. Notes: • Geographic coverage is the 50 States and the District of Columbia. • Totals may not equal sum of components due to independent rounding. Source: Energy Information Administration, *Petroleum Supply Monthly*, May 1992, Table S6.

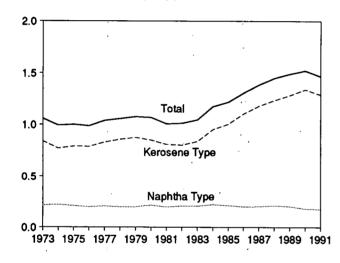
Figure 3.5 Jet Fuel

(Million Barrels per Day, Except as Noted)

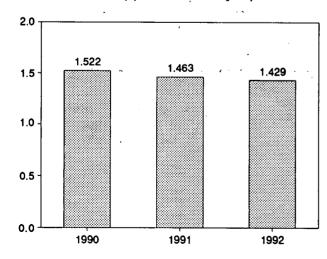
Total Jet Fuel Overview, 1973-1991



Product Supplied by Type, 1973-1991

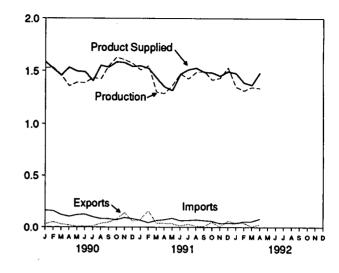


Total Product Supplied, January-April

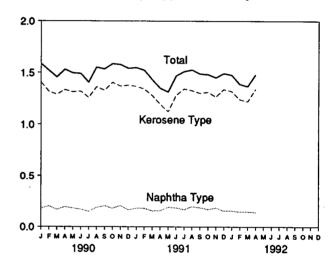


Source: Table 3.7.

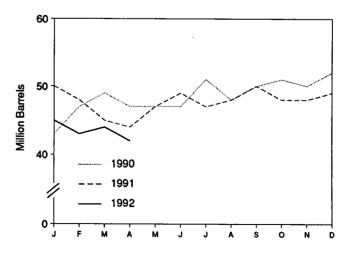
Total Jet Fuel Overview, Monthly



Product Supplied by Type, Monthly



Total Stocks, End of Month



		Supply			Dis	position			
	P	roduction				Prod	uct Supplied	End	ling Stocks ^a
	Total	Kerosene Type	Imports	Stock Change ^b	Exports	Total	Kerosene Type	Total	Kerosene Type
			Thous	and Barrels p	per Day			Million Barrels	
	859	679	212	8	4	1,059	842	29	23
974 Average	836	641	163	2	3	993	771	° 29	° 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	° 42	° 36
981 Average	968	775	38	°-4	2	1,007	809	41	34
982 Average	978	778	29	-12	6	1,013	804	° 37	° 31
983 Average	1,022	817	29	c (s)	6	1,046	839	39	32
984 Average	1,132	919	62	` 9	9	1,175	953	42	35
985 Average	1,189	983	39	-4	13	1,218	1,005	40	34
986 Average	1,293	1,097	57	25	18	1,307	1,105	50	43
987 Average	1,343	1,138	67	(\$)	24	1,385	1,181	50	42
988 Average	1,370	1,164	90	-17	28	1,449	1,236	44	38
989 Average	1,403	1,197	106	-8	27	1,489	1,284	41	34
990 January	1,527	1,340	163	76	30	1,584	1,404	43	37
February	1,530	1,330	158	120	50	1,51 9	1,316	47	40
March	1,457	1,256	120	92	30	1,455	1,289	49	42
April	1,357	1,179	103	-91	19	1,531	1,335	47	40
May	1,392	1,194	119	8	8	1,495	1,313	47	40
June	1,388	1,214	125	13	10	1,490	1,320	47	40
July	1,434	1,307	99	117	10	1,406	1,259	51	45
August	1,424	1,250	83	-82	37	1,552	1,363	48	43
September	1,548	1,339	81	48	47	1,534	1,329	50	44
October	1,630	1,463	71	39	.77	1,585	1,406	51	45
November	1,606	1,445	93	-19	141	1,578	1,369	50	45
December	1,570	1,411	82	51	60	1,541	1,378	52	46
Average	1,488	1,311	108	31	43	1,522	1,340	52	46
991 January	1,508	1,353	67	-46	73	1,548	1,367	50	44
February	1,548	1,384	44	-91	159	1,523	1,342	48	42
March	1,299	1,157	65	-109	40	1,433	1,279	45	39 38
April	1,286	1,135	73	-29	38	1,350	1,195	44	41
May	1,365	1,190	87	104	35	1,314	1,123	47 49	41
June	1,473	1,300	64	56	13	1,468	1,282	49 47	43
July	1,426	1,255	67	-49	31	1,511	1,344	47	41
August	1,486	1,316	72	20	11	1,527	1,320	40 50	42
September	1,495	1,322	65	63	10	1,488	1,302	50 48	43
October	1,415	1,253	59	-60	50	1,483	1,313	48	43
November	1,433	1,276	37	14 20	5 59	1,452 1,493	1,339	40	44
Average	1,530 1,438	1,357 1,274	42 62	20 -9	43	1,466	1,290	49	44
-	1,350	1,199	39	-133	44	1,477	1,321	45	40
992 January	1,313	1,166	56	-63	42	1,390 .	1,243	43	38
March	^R 1,347	^R 1,215	^R 56	R29	R7	^R 1.367	R 1.221	44	P 39
April	E 1,337	E 1,184	E 81	E.90	E 26	E 1,481	E 1,341	E 42	€36
4-Month Average	^E 1,337	E 1,191	^E 58	E-64	E 30	E 1,429	^E 1,282	E 42	E 36
991 4-Month Average	1,408	1,255	63	-68	76	1,463	1,295	44	38
990 4-Month Average	1,467	1,276	136	49	32	1,522	1,337	47	40

Table 3.7 Jet Fuel Supply and Disposition

 ^a Stocks are totals as of end of period.
 ^b A negative number indicates a decrease in stocks and a positive number indicates an increase.
 ^c In January 1975, 1981, and 1983, a new stock basis was established, thereby affecting stocks reported and stock change calculations. See Note 4 at end of . section.

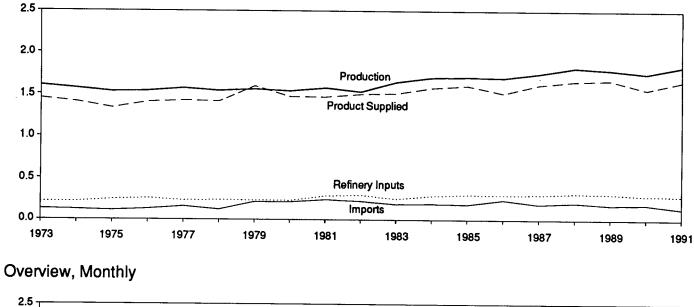
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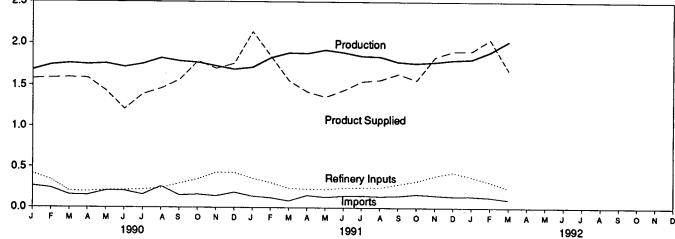
R=Revised data. E=Estimate. (s)=Less than 500 barrels per day. Notes: • Geographic coverage is the 50 States and the District of Columbia. • Totals may not equal sum of components due to independent rounding. Source: Energy Information Administration, Petroleum Supply Monthly, May 1992, Table S7.

Figure 3.6 Liquefied Petroleum Gases

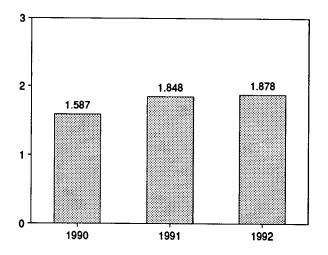
(Million Barrels per Day, Except as Noted)

Overview, 1973-1991

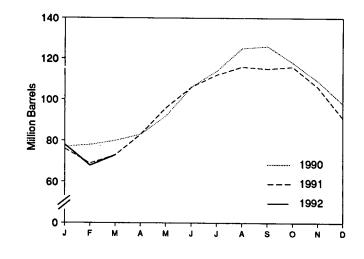




Product Supplied, January-March



Stocks, End of Month



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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	sition		4
-	Total Production	Imports	Stock Change ^a	Refinery Inputs	Exports	Product Supplied	Ending Stocks ^b
F			Thousand Ba	arrels per Day			Million Barrels
	1,600	132	35	220	27	1,449	99
973 Average	1,565	123	38	220	25	1,406	° 113
974 Average	1,527	112	° 35	246	26	1,333	125
975 Average	1,535	130	-24	260	25	1,404	116
976 Average	1,566	161	55	233	18	1,422	136
977 Average	1,537	123	-12	239	20	1,413	° 132
978 Average	1,556	217	° -70	236	15	1,592	111
979 Average	1,535	216	27	233	21	1,469	° 120
980 Average	1,555	244	° 18	289	42	1,466	135
981 Average	* 1,527	226	-111	300	65	1,499	° 94
982 Average	1,642	190	°_4	253	73	1,509	° 101
983 Average	1,697	195	° -19	291	48	1,572	101
984 Average	1,704	187	-75	304	62	1,599	74
985 Average	1,695	242	80	302	42	1,512	103
986 Average		190	-15	304	38	1,612	97
987 Average	1,748	209	0	321	49	1,656	97
988 Average	1,817	181	-47	315	35	1,668	80
989 Average	1,791	101		••••		,	
	1 694	261	-92	414	44	1,580	77
990 January	1,684	235	11	339	42	1,587	78
February	1,743	155	80	199	44	1,595	80
March	1,763	150	91	195	25	1,589	83
April	1,751	204	287	209	36	1,433	92
May	1,761	202	469	212	28	1,211	106
June	1,719	157	268	217	36	1,392	114
July	1,756	256	339	236	43	1,463	125
August	1,825	149	37	293	41	1,567	126
September	1,789	159	-243	348	38	1,790	118
October	1,773	140	-296	427	39	1,702	109
November	1,731	184	-370	427	58	1,762	98
December	1,692	188	48	293	40	1,556	98
Average	1,749	100	40	_		-	70
991 January	1,716	137	-700	359	56	2,139	76
February	1,829	119	-267	304	60	1,850	69 72
March	1,887	81	121	234	. 56	1,556	73 83
April	1,881	149	353	224	31	1,423	83 96
May	1,924	127	425	221	45	1,360	
June	1,894	143	324	238	32	1,443	106
July	1,851	146	181	244	24	1,548	112
August	1.844	137	153	244	18	1,566	116
September	1,782	143	-30	284	31	1,640	115
October	1,768	163	12	323	31	1,564	116
November	1,781	150	-336	389	40	1,838	106
December	1,805	138	-472	431	73	1,910	91
Average	1,830	136	-19	291	41	1,652	91
1992 January	1,814	139	-417	378	80	1,912	78
February		126	-366	312	33	2,048	68
March		97	158	236	43	1,684	73
3-Month Average		121	-205	309	52	1,878	73
1991 3-Month Average	1,810	112	-282	299	57	1,848	73
1990 3-Month Average		216	-1	316	43	1,587	80
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* Due to differences internal to Energy Information Administration data processing systems, some small discrepancies exist between the data in this table and the data in the Petroleum Supply Annual and Petroleum Supply Monthly. See Note 6 at end of section. ^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.

° In January 1975, 1979, 1981, 1983, and 1984, a new stock basis was established, thereby affecting stocks reported and stock change calculations. See Note 4 at end of section.

Notes: • Liquefied petroleum gases include ethane, propane, normal butane, and isobutane. • Geographic coverage is the 50 States and the District of Columbia. • Totals may not equal sum of components due to independent rounding. Source: Energy Information Administration, Petroleum Supply Monthly, May 1992, Table S8.

	Sup	ply		Dispo	sition		
	Total Production	Imports	Stock Change ^a	Refinery Inputs	Exports	Products Supplied	Ending Stocks ^b
			Thousand Ba	urels per Day		.	Million Barrets
1973 Average	2,833	290					.
1974 Average	2,722	269	1	750	162	2,211	179
1975 Average	2,547	144	25 ° -6	665	172	2,129	^c 188
1976 Average	2,725	129		537	158	2,001	188
1977 Average	2.939	130	(s)	524	172	2,158	188
1978 Average			20	514	164	2,371	195
1979 Average	3,076	80	-12	492	165	2,511	191
1979 Avenas	3,141	116	24	352	208	2,673	200
1980 Average	2,957	130	15	310	197	2,566	° 205
1981 Average	2,771	188	°-42	723	197	2.081	241
1982 Average	2,475	305	-68	787	205	1,857	°216
1983 Average	2,437	382	°-6	712	236	1,877	°217
1984 Average	2,500	503	°-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		
987 Average	2.737	543	1	829	264	2,045	201
988 Average	2.773	645	22	799		2,187	200
989 Average	2,771	627	12	797	294 305	2,303 2,285	208
					505	2,200	213
990 January	2,567	814	86	735	225	2,335	215
February	2,781	680	387	654	298	2,122	226
March	2,670	687	78	795	276	2,207	229
April	2,774	596	-138	869	318	2,320	224
May	2,847	756	295	544	292	2,471	234
June	2,907	879	-160	919	334	2.692	229
July	3,146	732	-148	958	317	2,752	224
August	3,097	673	-291	998	297	2,766	
September	3,029	674	68	760	265	2,611	215
October	2,848	590	-436	1,211	329		217
November	2,788	800	206	1.010	270	2,334	204
December	2.644	575	-288			2,102	210
Average	2,842	705	-32	1,172 887	249 289	2,087 2,402	201 201
P01 Jonuary	0.040				203	2,402	201
991 January	2,640	720	167	835	317	2,041	207
February	2,683	555	391	723	275	1,849	218
March	2,585	504	145	832	239	1,873	223
April	2,735	584	125	790	228	2,176	226
May	2,884	762	209	921	327	2,190	233
June	3,032	574	-125	1,102	304	2,325	233
July	3,036	747	-129	1,082	321	2,508	225
August	3,005	625	-173	1.019	296	2,489	225
September	3,012	728	83	827	267	2,563	220
October	2,812	610	-224	940	211	2,505	
November	2,741	811	-90	1,094	238		215
December	2,788	555	-163	1,143	304	2,309	213
Average	2,830	648	15	944	304 277	2,058 2,242	208 208
992 January	2.704	713	107	0 4 -		·	
February	2,704		197	815	272	2,135	214
March		574	177	928	240	1,875	219
March 3-Month Average	2,735 2,696	710	243	721	239	2,242	226
	2,030	668	206	819	250	2,088	226
991 3-Month Average	2,634	594	229	79 9	277	1,923	223
990 3-Month Average	2,669	729	177	731	265	2,224	229

Table 3.9 Other Petroleum Products Supply and Disposition

* Due to differences internal to Energy Information Administration data processing systems, some small discrepancies exist between the data in this table and the data in the Petroleum Supply Annual and Petroleum Supply Monthly. See Note 6 at end of section.

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

^b Stocks are totals as of end of period.

^c In January 1975, 1981, 1983, and 1984, a new stock basis was established, thereby affecting stocks reported and stock change calculations. See Note 4 at end of section.

(s)=Less than 500 barrels per day.

Notes: • Other petroleum products include pentanes plus, other hydrocarbons and alcohol, unfinished oil, gasoline blending components, and all finished petroleum products except finished motor gasoline, distillate fuel oil, residual fuel oil, jet fuel, and liquefied petroleum gases. • Geographic coverage is the 50 States and the District of Columbia. • Totals may not equal sum of components due to independent rounding.

Source: Energy Information Administration, Petroleum Supply Monthly, May 1992, Table S9.

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.

Every 3 years an extensive survey is conducted to update the frames completely. The updating involves consolidating information from every known source, including State agencies, Federal agencies (e.g., Environmental Protection Agency, Corps of Engineers, Census Bureau, etc.), and private industry directories. The effort also includes the evaluation of the impact of potential frame changes on the historical time series of data published from these respondents. The results of this frame study are usually implemented in January to provide a full year under the same frame.

2. Motor Gasoline: Beginning in January 1981, the EIA expanded its universe to include non-refinery blenders; redefined motor gasoline into two categories (finished leaded and finished unleaded); and separated blending components from finished motor gasoline as a reporting category. Also, survey forms were modified to describe refinery operations more accurately. For further details, see the EIA, *Petroleum Supply Monthly*.

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 number typically exceeded the number for 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 an unfinished oil input 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. Twothirds 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. 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; 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.
- Other Petroleum Products: 1974—190; 1980—207; and 1982—219.

Stock change calculations beginning in 1975, 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 "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.
- Other Petroleum Products: 1983-210.

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* and the *Petroleum Supply Annual* and *Petroleum Supply Monthly*. The data that have discrepancies are noted with an asterisk in Section 3 tables and are summarized on the following page.

Table	Data Series	Year Average	MER Data	PSA/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
3.9	Products Supplied	1982	1,857	1,856

6. Data Discrepancies (Continued). This listing summarizes the data discrepancies between the Monthly Energy Review (MER) and the Petroleum Supply Annual (PSA) and Petroleum Supply Monthly (PSM).

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Section 4. Natural Gas

Total dry natural gas production in the United States during March 1992 was an estimated 1.6 trillion cubic feet, 2 percent⁴ higher than during the previous March. Dry natural gas production during the first quarter of 1992 was 4.7 trillion cubic feet, 3 percent higher than during the first quarter of 1991.

Consumption of natural and supplemental gas in March 1992 was 2.0 trillion cubic feet, 6 percent above the level in March 1991. Consumption of natural and supplemental gas during the first quarter of 1992 was 6.3 trillion cubic feet, 2 percent higher than the first quarter of 1991.

Deliveries to residential consumers in February 1992 (latest data available) were 696 billion cubic feet, 5 percent higher than the previous February. Total deliveries to industrial consumers during February 1992 were 634 billion cubic feet, 6 percent above the previous February.

Imports of natural gas in March 1992 were 154 billioncubic feet, 3 percent higher than imports in the previous March. Imports of natural gas during the first quarter of 1992 were an estimated 450 billion cubic feet, 3 percent higher than imports during the first quarter of 1991.

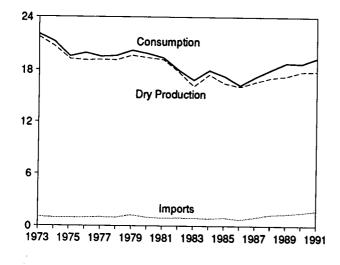
Stocks of working gas^5 in underground natural gas storage reservoirs at the end of March 1992 totaled 1.5 trillion cubic feet, 20 percent below the level of stocks available 1 year earlier. Net withdrawals from storage during March 1992 were 296 billion cubic feet, 79 percent more than the amount withdrawn during the previous March.

⁴Percentage changes are calculated using unrounded data. ⁵Gas available for withdrawal.

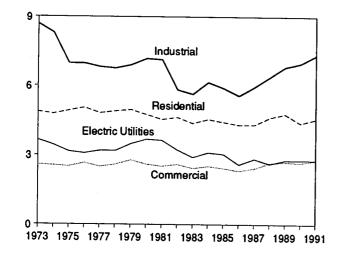
Figure 4.1 Natural Gas

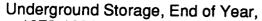
(Trillion Cubic Feet)

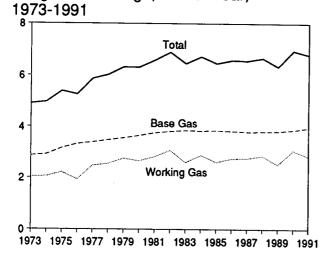
Overview, 1973-1991



Consumption by Sector, 1973-1991

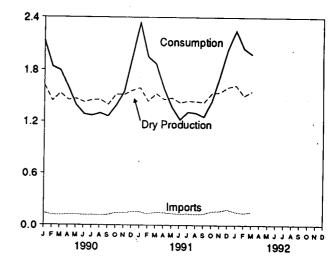




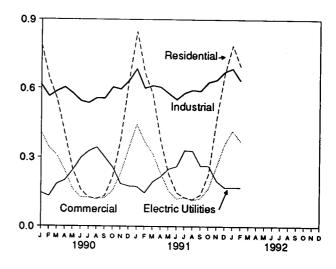


Note: Because vertical scales differ, graphs should not be compared. Sources: Tables 4.2, 4.3, and 4.4.

Overview, Monthly



Consumption by Sector, Monthly



Underground Storage, End of Month

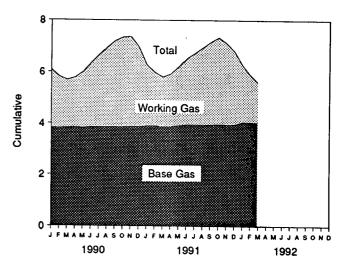


Table 4.1 Natural Gas Production

(Billion Cubic Feet)

	Gross Withdrawals ^a	Repressuring ^b	Nonhydro- carbon Gases Removed ^c	Vented and Flared ^d	Marketed Production (Wet) ^e	Extraction Loss ¹	Total Dry Gas Production
A70 T-4-1	24.067	1,171	NA	248	^h 22.648	917	^h 21,731
973 Total		1.080	NA	169	^h 21,601	887	h 20,713
974 Total	22,850	•	NA	134	h 20,109	872	^h 19,236
975 Total	21,104	861		134	^h 19,952	854	^h 19,098
976 Total	20,944	859	NA		^h 20.025	863	^h 19,163
977 Total	21,097	935	NA	137			^h 19,122
978 Total	21,309	1,181	NA	153	^h 19,974	852	
979 Total	21,883	1,245	NA	167	ⁿ 20,471	808	ⁿ 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
982 Total	20,272	1,388	208	93	18,582	762	17,820
983 Total	18.659	1.458	222	95	16,884	790	16,094
984 Total	20,267	1,630	224	108	18,304	838	17,466
985 Total	19,607	1,915	326	95	17,270	816	16,454
986 Total	19,131	1,838	337	98	16,859	800	16,059
	20,140	2,208	376	124	17,433	812	16,621
987 Total	20,999	2,478	460	143	17,918	816	17,103
988 Total 989 Total	21,999	2,475	362	142	18,095	785	17,311
969 I O (81	21,074	2,410	•••	•	•		
990 January	1,940	211	25	15	1,689	71	1,618
February	1,718	183	22	10	1,503	63	1,440
March	1,841	211	24	11	1,595	67	1,528
April	1,754	206	24	11	1,513	64	1,449
May	1,781	213	26	13	1,529	65	1,464
	1,711	191	24	9	1,487	63	1,424
June	1.759	207	26	13	1,513	64	1,449
July	1,764	207	25	14	1,518	64	1,454
August		199	24	13	1,457	61	1,396
September	1,693	224	23	13	1,583	67	1.516
October	1,843	224	23	13	1,580	67	1,513
November	1,827		23	14	1,627	69	1,558
December	1,890	225		150	18,594	784	17,810
Total	21,523	2,489	289	150	10,334		,
991 January	1,928	226	25	14	1,663	73	1,590
February	1,740	202	24	12	1,502	66	1,436
March	1.845	210	28	12	1,595	70	1,525
April	1,765	200	29	11	1,525	67	1,458
May	1,782	198	31	10	1,543	68	1,475
	1,718	191	30	10	1,487	66	1,421
June	^R 1,735	R 195	R 29	10	^R 1,501	R 62	^R 1,439
July	1,731	^R 194	R 30	10	^R 1,497	R 62	^R 1,435
August	^R 1,714	R 189	30	10	^R 1 485	R 61	^R 1,424
September	^R 1,840	R 203	32	11	[°] ^R 1,594	R 66	^R 1,528
October	··· 1,840		32	11	P 1,604	66	^R 1,538
November	^R 1,847	200 B 200	32	11	_ ^R 1,666	68	^R 1,598
December	^R 1,919	R 209			R 18,662	R 795	^R 17,867
Total	^R 21,564	^R 2,417	^R 353	132	10,002	193	11,001
1992 January	^R 1,948	^R 212	R 34	11	^R 1,691	^R 70	^R 1,621
	E 1,807	E 200	E 30	E 11	E 1,566	^E 64	E 1,502
February	E 1,868	E 207	E 31	E 11	^E 1.619	E 67	E 1,552
March 3-Month Total	E 5,623	E 619	E 95	E 33	E 4,876	E 201	^E 4,675
3-month 10tal	U,VEU	•••					
1991 3-Month Total	5,513	638	77	38	4,760	209	4,551
1990 3-Month Total	5,499	605	71	36	4,787	201	4,586

^a Gas withdrawn from gas and oil wells.

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

^C See Note 1 at end of section. ^d Vented: Natural gas released into the air on the base site or at processing plants. Flared: Natural gas burned in flares on the base site or at gas processing plants.

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

¹ See Note 3 at end of section.

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9 "Marketed Production (Wet)" minus "Extraction Loss."

h May include unknown quantities of nonhydrocarbon gases.

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

Notes: • Geographic coverage is the 50 States and the District of Columbia. • Totals may not equal sum of components due to independent rounding. Sources: • 1973-1984: Energy Information Administration (EIA), Natural Gas Annual 1990, Volume 1, Table 95. • 1985 forward: EIA, Natural Gas Monthly, May 1992, Table 1.

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Table 4.2 Natural Gas Supply and Disposition

(Billion Cubic Feet)

			Supply					Dispositio	n
	Total Dry Gas Production	Withdrawals from Storage ^a	Supplementai Gaseous Fuels ^b	Imports ^b	Balancing Item ^b	Total Supply/ Disposition ^c	Additions to Storage ^a	Exportsb	Consumption ^t
1973 Total	^d 21,731	1 500		·		 .		L	
1974 Total	d 20,713	1,533	NA	1,033	-196	24,101	1,974	77	22,049
1975 Total	d 19,236	1,701	NA	959	-289	23,084	1,784	77	21,223
1976 Total	^d 19,098	1,760	NA	953	-235	21,714	2,104	73	19,538
1977 Total	d 19,163	1,921	NA	964	-216	21,767	1,756	65	19,946
1978 Total	d 19,122	1,750	NA	1,011	-41	21,883	2,307	56	19,521
1979 Total	^d 19,663	2,158	NA	966	-287	21,958	2,278	53	19,627
1980 Total	19,403	2,047	NA	1,253	-372	22,591	2,295	56	20,241
1981 Total	19,181	1,972	155	985	-640	21,875	1,949	49	19,877
1982 Total	17.820	1,930	176	904	-500	21,691	2,228	59	19,404
1983 Total	16.094	2,164	145	933	-537	20,525	2,472	52	18,001
1984 Total	17,466	2,270	132	918	^e -703	18,712	1,822	55	16,835
1985 Total	16,454	2,098	110	843	^e -217	20,300	2,295	55	17,951
1986 Total	16,059	2,397	126	950	-428	19,499	2,163	55	17,281
1987 Total	16,621	1,837 1,905	113 101	750	-493	18,266	1,984	61	16,221
1988 Total	17,103	2,270	101	993	-444	19,176	1,911	54	17,211
1989 Total	17,311	2,854		1,294	-452	20,315	2,211	74	18,030
	17,311	2,034	107	1,382	-218	21,435	2,528	107	18,801
990 January	1,618	356	12	140	116	2,242	96	14	2,132
February	1,440	345	10	118	0	1,913	71	8	1.834
March	1,528	267	11	116	10	1,932	128	11	1,793
April	1,449	141	10	123	74	1,797	194	6	1,597
May	1,464	44	9	123	57	1,697	304	6	1,387
June	1,424	41	9	117	33	1,624	335	6	1,283
July	1,449	26	10	120	6	1,611	337	5	1,269
August	1,454	40	9	118	10	1.631	330	5	1,296
September	1,396	36	9	120	2	1,563	295	7	1.261
October	1,516	66	9	142	-125	1,608	217	6	1,385
November	1,513	151	10	140	-125	1,689	139	6	1,544
December Total	1,558 1 7,810	490 2,002	12 120	156 1,532	-197 -139	2,019 21,326	71 2,516	7 86	1,941 1 8,724
991 January	1,590	^R 640	11	450	^R 14	-			•
February	1,436	^R 364	10	156 131	¹¹ 4 ^R 75	^R 2,411	58	13	^R 2,340
March	1,525	R_264	10	149	^R 28	^R 2,016	61	7	^R 1,948
April	1,458	RRA	10	149	R 105	^R 1,977 ^R 1,802	99	11	^R 1,867
May	1,475	R31	9	145	R 28	^P 1,802 ^R 1,680	213 ^R 308	8	^R 1,581
June	1.421	20	8	129	P-37	^R 1,541	R 310	8 8	^R 1,364
July	^R 1,439	47	9	132	R-43	^R 1,584			^R 1,223
August	^R 1.435	^R 55	9	129	^R -65	^B 1,563	267 257	8	R 1,309
September	^R 1.424	48	8	131	-65 P-65	^R 1,546	257	8	^R 1,298
October	^H 1.528	R70	10	158	_ ^R -85	^R 1,681	^R 230	12	R 1,255
November	^R 1.538	^R 327	9	164	⁻⁶⁵ ^R -185	^R 1,853	^R 118	13 12	^R 1,438 B 1,739
December	^{. R} 1.598	R428	10	R 183	^R -71	^R 2,148	^R 95		^R 1,723
Total	^R 17,867	R 2,376		R 1,744	R-299	R 21,802	^R 2,296	14 122	^R 2,039 ^R 19,384
992 January	^R 1,621	^R 572	^R 12	154	^R -41	^R 2,318	57	40	
February	E1,502	436	11	142	R 19	R2,110	57 53	12	^R 2,249
March	E 1,552	369	11	154	-20	2,066	53 73	9	^R 2,048
3-Month Total	E 4,675	1,377	34	450	-42	2,066 6,494	73 183	10 31	1,983 6,280
991 3-Month Total	4,551	1,268	32	436	117				
990 3-Month Total	4,586	968	33	374	126	6,404 6,087	218 295	31 33	6,155 5,759

a Data for 1980-1990 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.

Data for 1978 forward do not include in-transit receipts and deliveries.
 May include unknown quantities of nonhydrocarbon gases.

^e See Note 7 at end of section.

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

 Notes: • Geographic coverage is the 50 States and the District of Columbia. • Totals may not equal sum of components due to independent rounding.
 Sources: • 1973-1984: Supplemental Gaseous Fuels—Energy Information Administration (EIA), Natural Gas Annual 1990, Volume 2 (December 1991),
 Table 12. All Other Data—EIA, Natural Gas Annual 1990, Volume 2 (December 1991), Table 2. • 1985 forward: EIA, Natural Gas Monthly, May 1992, Table 2.

.

Table 4.3 Natural Gas Consumption by End-Use Sector

(Billion Cubic Feet)

				Deliv	vered to Consume	ers		4
	Lease and Plant Fuel	Pipeline Fuei ^a	Residential	Commercial	Industrial	Electric Utilities	Total	Total Consumption
			4.879	2.597	8,689	3,660	19.825	22,049
973 Total	1,496	728		_	8,292	3,443	19.077	21,223
974 Total	1,477	669	4,786	2,556	6,968	3,158	17,558	19,538
75 Total	1,396	583	4,924	2,508	•	3,081	17,764	19,946
76 Total	1,634	548	5,051	2,668	6,964	3,191	17,329	19.521
77 Total	1,659	533	4,821	2,501	6,815		17,449	19,627
78 Total	1,648	530	4,903	2,601	6,757	3,188	18,141	20,241
79 Total	1,499	601	4,965	2,786	6,899	3,491	18,216	19,877
980 Total	1,026	635	4,752	2,611	7,172	3,682	17,834	19,404
981 Total	928	642	4,546	2,520	7,128	3,640		18,001
982 Total	1,109	596	4,633	2,606	5,831	3,226	16,295	16,835
983 Total	978	490	4,381	2,433	5,643	2,911	15,367	
84 Total	1,077	529	4,555	2,524	6,154	3,111	16,345	17,951 17,281
985 Total	966	504	4,433	2,432	5,901	3,044	15,811	16,221
986 Total	923	485	4,314	2,318	5,579	2,602	14,814	•
987 Total	1.149	519	4,315	2,430	5,953	2,844	15,542	17,211
988 Total	1.096	614	4,630	2,670	6,383	2,636	16,320	18,030
989 Total	1,070	629	4,781	2,718	6,816	2,787	17,102	18,801
990 January	112	64	788	408	614	146	1,956	2,132
February	100	54	642	342	564	132	1,680	1,834
March	106	56	552	308	587	184	1,631	1,793
April	100	54	400	242	603	199	1,443	1,597
May	102	55	248	162	577	244	1,230	1,387
June	99	54	161	127	544	297	1,130	1,283
	100	54	126	126	536	326	1,115	1,269
July	101	55	121	118	557	343	1,140	1,296
August September	96	52	132	124	556	301	1,113	1,261
	105	50	214	155	604	257	1,230	1,385
October	105	53	376	229	596	185	1,385	1,544
November	109	58	630	338	631	175	1,774	1,941
December	1,236	660	4,391	2,680	6,970	2,787	16,827	18,724
	111	R 83	^R 847	R 442	^R 684	173	^R 2,146	^R 2,340
991 January February	100	R 69	R 666	367	R 600	146	^R 1,779	^R 1,948
	106	R 66	R 574	^R 317	^R 611	193	^R 1,695	^R 1,867
March	100	R 56	^R 373	R 230	^R 605	216	^R 1,424	^R 1,581
April	103	R 48	R 229	157	578	249	^R 1,213	^R 1,364
May	99	R 43	148	121	^R 551	260	^R 1,081	^R 1,223
June	R 100	R 46	R 126	127	^R 579	330	^R 1,163	^R 1,309
July	100	R 46	118	114	R 592	328	^R 1,152	^R 1,298
August	R 99	R 44	138	123	^R 588	263	^R 1,112	^R 1,255
September	R 106	^R 51	R 225	166	^R 626	263	^R 1,281	^R 1,438
October	107	R 61	461	260	^R 636	198	^R 1.555	^R 1,723
November		R72	R 659	356	R 671	170	^R 1,856	^R 2.039
December	111 Ba 040	R 685	^R 4,565	R 2,781	^R 7,321	2,788	^R 17,456	^R 19,384
Total	^R 1,243		-		•		-	
992 January	^R 112	^R 79	^R 787	R 415	^R 686	169 170	^R 2,058 1,872	^R 2,249 ^R 2,048
February		72	696	372	634	340	3,930	4,297
2-Month Total		151	1,483	787	1,321	340	3,830	
1991 2-Month Total	211	152	1,513	809	1,284	319	3,925	4,288
1990 2-Month Total		118	1,431	750	1,178	277	3,636	3,966

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

Herevised data. Notes: • Natural gas includes supplemental gaseous fuels. • Geographic coverage is the 50 States and the District of Columbia. • Totals may not equal sum of components due to independent rounding. Sources: • 1973-1984: Energy Information Administration (EIA), Natural Gas Annual 1989, Table 94. • 1985 forward: EIA, Natural Gas Monthly, May 1992, Total 2.

Table 3.

Table 4.4 Natural Gas in Underground Storage

(Volumes in Billion Cubic Feet)

	Ui	Natural Gas in Inderground Storag End of Period	i 8,	Change in W from Sam Previou	e Period		Storage Activity	
	Base Gas	Working Gas	Totala	Volume	Percent	Injections ^b	Withdrawals ^b	Net ^c
973 Total	2,864	2.034	4,898	305	17.6	1.074		
974 Total	2,912	2.050	4,962	16		1,974	1,533	442
975 Total	3,162	2,212	5,374	162	.8	1,784	1,701	84
976 Total	3.323	1,926	5,250	-286	7.9	2,104	1,760	344
977 Total	3.391	2,475	5,866		-12.9	1,756	1,921	-165
978 Total	3,473	2,547		549	28.5	2,307	1,750	557
979 Total	3,553	2,753	6,020	72	2.9	2,278	2,158	120
980 Total	3,642		6,306	207	8.1	2,295	2,047	248
981 Total	3,752	2,655	6,297	-99	-3.6	1,896	1,910	-14
982 Total	3,808	2,817	6,569	162	6.1	2,180	1,887	293
983 Total	3,847	3,071	6,879	255	9.0	2,399	2,094	306
984 Total	3,847	2,595	6,442	-476	-15.5	1,700	2,142	-442
985 Total		2,876	6,706	281	10.8	2,252	2,064	188
986 Total	3,842	2,607	6,448	-270	-9.4	2,128	2,359	-231
987 Total	3,819	2,749	6,567	142	5.5	1,952	1.812	140
988 Total	3,792	2,756	6,548	7	.3	1,887	1,881	6
989 Total	3,800	2,850	6,650	94	3.4	2,174	2,244	-69
309 FOIDI	3,812	2,513	6,325	-337	-11.8	2,491	2,804	-313
990 January	3,818	2,268	6,086	-241	-9.6	94	345	-251
February	3,814	1,999	5,813	5	.3	70	335	-251
March	3,818	1,867	5,685	91	5.1	125	261	
April	3,839	1,939	5,778	116	6.4	189	138	-136
Мау	3,823	2,175	5,998	113	5.5	295		51
June	3,844	2,482	6,326	108	4.5	326	43	252
July	3,850	2,790	6,640	146	5.5		40	286
August	3.851	3,073	6,924	135	4.6	328	26	302
September	3,852	3,326	7,178	139	4.6	321	39	282
October	3,852	3,474	7.326	206		287	. 35	252
November	3,868	3,478	7,346	200	6.3	211	63	148
December	3,868	3,070	6,939	557	8.7	135	147	-12
Total	3,868	3,070	6,939		22.2	70	478	-408
	·	3,070	0,939	557	22.2	2,451	1,949	502
991 January	3,897	2,368	6,265	100	4.4	58	640	-581
February	3,899	2,089	5,988	90	4.5	61	364	-302
March	3,880	1,924	5,804	57	3.1	99	264	-302
April	3,881	2,043	5,924	104	5.4	213	84	
May	3,917	2,286	6,203	111	5.1	308	31	129 277
June	3,946	2,555	6,501	73	2.9	310	20	290
July	3,942	2,769	6,711	-21	8	267	47	
August	3,946	2,978	6,924	-95	-3.1	257	47 55	220
September	3,950	3,196	7.146	-130	-3.9	279	55 48	203
October	3,961	3,357	7.318	-117	-3.4	230		231
November	3,952	3,145	7,096	-333	-9.6	118	70	160
December	3,954	2,824	6,778	-246	-9.0	95	327	-209
Total	3,954	2,824	6,778	-246	-8.0	2,296	428 2,376	-333 -79
92 January	4,048	2,213	6,260	156				
February	4,043	1,841	6,260 5,884	-156	-6.6	57	572	-515
March	4.033	1,544		-248	-11.9	53	436	-383
	4,000	1,044	5,576	-380	-19.8	73	369	-296

• • •

^a Total underground storage capacity at the end of each calendar year (in billion cubic feet): 1975--6,280(first data available); 1976--6,544; 1977--6,678; 1978--6,890; 1979--6,929; 1980--7,434; 1981--7,805; 1982--7,915; 1983--7,985; 1984--8,043; 1985--8,087; 1986--8,145; 1987-1989--8,124; and 1990-8125. Current capacity remains at 8,125. ^b For 1980-1990, data differ from those shown on Table 4.2, which include liquefied natural gas storage for that period.

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

Notes: • Geographic coverage is the 50 States and the District of Columbia. • Totals may not equal sum of components due to independent rounding. Sources: • Storage Activity: 1973-1975—Energy Information Administration (EIA), Natural Gas Annual 1988, Volume II, Table 9. 1976-1979—EIA, Natural Gas Production and Consumption 1979, Table 1. 1980-1984—EIA, Natural Gas Annual 1988, Volume II, Table 11. 1985 forward—EIA, Natural Gas Monthly, May 1992, Table 17. • Other Data: 1973—American Gas Association (AGA), Gas Facts, 1972 Data, Table 57, and Gas Facts, 1973 Data, Table 57. 1974—AGA, Gas Facts, 1974 Data, Table 40. 1975 and 1976—Federal Energy Administration, Form FEA-G318-M-O, and Federal Power Commission (FPC), Form FPC-8. 1977 and 1978—EIA, Form FEA-G318-M-O, and Federal Energy Regulatory Commission (FERC), Form FERC-8. 1979-1984—EIA, Form EIA-191, and FERC, Form FERC-8. 1985 forward-EIA, Natural Gas Monthly, May 1992, Table 17.

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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) 1989. Data are not available for periods 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 for extraction loss are from the EIA NGA, where they are estimated on the basis of the type and quantity of liquid products extracted from the gas stream and the calculated volume of such products at standard conditions. For a detailed explanation of the calculations used to derive estimated extraction losses, see the EIA NGA.

Preliminary monthly data are estimated on the basis of extraction loss as an annual percentage of marketed production. This percentage is applied to each month's marketed production to estimate monthly extraction loss. Monthly data are revised and considered final after the publication of the EIA NGA. Final monthly data are estimated by allocating annual extraction loss data to the months on the basis of total natural gas marketed production data from the EIA NGA.

4. Supplemental Gaseous Fuels: Supplemental gaseous fuels are mainly synthetic natural gas, propaneair, and refinery gas. Other gases, such as coke oven gas, biomass gas, manufactured gas, and air injected for Btu stabilization, may also be included.

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 imported natural gas via pipeline from Mexico (until 1984) and Canada and liquefied natural gas (LNG) (except in 1986) via tanker from Algeria. One shipment of LNG was received in December 1986 from Indonesia. The United States exports natural gas via pipeline to Mexico and Canada and LNG via tanker to Japan.

Annual and final monthly data are from the annual 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 trillion cubic feet 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.

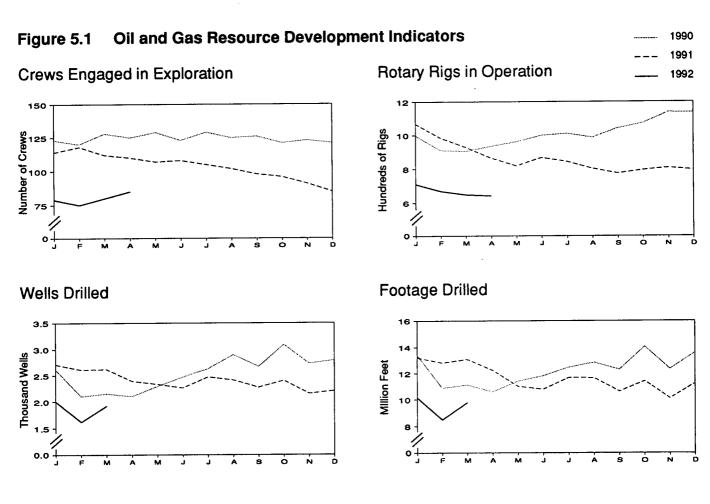
Monthly underground storage data are collected from the Forms FERC-8 (interstate data) and EIA-191 (intrastate data). Beginning in January 1991, all data are collected on the revised Form EIA-191. Injection and withdrawal data from the FERC-8/EIA-191 survey are adjusted to correspond to data from Form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

The final monthly and annual storage and withdrawal data for 1980-1989 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.

Section 5. Oil and Gas Resource Development

A total of 85 seismic exploration crews were active in April 1992, 25 fewer than a year earlier. Of the total, 72 were land crews and 13 were aboard marine vessels. The number of land crews was down by 15, and the number of operating marine vessels decreased by 10 vessels from the April 1991 count.

The April 1992 rotary rig count of 642 was 1 percent lower than in the previous month and 26 percent lower than in April 1991. Of the total number of rigs in operation, 587 were onshore and 55 were offshore. The number of onshore rigs was down 24 percent from the number in April 1991, and the number of offshore rigs was down 42 percent. The estimated number of exploratory and development gas and oil wells drilled during March 1992 was 1,420, 17 percent higher than in February 1992 but 28 percent lower than in March 1991. The estimated number of oil wells drilled was 850 and the estimated number of gas wells was 570, down 28 percent and 29 percent, respectively, from the March 1991 levels. The estimated number of dry holes drilled in March 1992 was 510, up 24 percent from February 1992 but 20 percent lower than in March 1991. Total footage drilled in March 1992 was 9.78 million feet, up 15 percent from footage drilled in February 1992 but down 25 percent from that drilled in March 1991.



Sources: Tables 5.1 and 5.2.

	· .	Crews Engaged in Seismic Exploration		Rotary Rigs In Operation ^a			
	Offshore	Onshore	Total	Offshore	Onshore	Total	
		Monthly Average			Weekly Average		
1973 Average	23	227	250	84	1,110	1,194	
1974 Average	31	274	305	94	1,378	1,134	
1975 Average	30	254	284	106	1,574	•	
1976 Average	25	237	262	129		1,660	
1977 Average	27	281	308	167	1,529	1,658	
978 Average	25	327	352		1,834	2,001	
979 Average	30	370		185	2,074	2,259	
980 Average	37		400	207	1,970	2,177	
981 Average		493	530	231	2,678	2,909	
982 Average	44	637	681	256	3,714	3,970	
982 Average	. 57	531	588	243	2,862	3,105	
983 Average	47	426	473	199	2,033	2,232	
984 Average	49	445	494	213	2,215	2,428	
985 Average	45	333	378	206	1,774	1,980	
986 Average	24	176	201	99	865	964	
987 Average	24	153	176	95	841		
988 Average	29	153	182	123		936	
989 Average	23	109	132	105	813 764	936 869	
990 January	20	103	123	113	885	998	
February	20	100	120	105	806		
March	21	107	128	108		911	
April	24	101	125		797	905	
May	25	104		111	824	935	
June			129	120	841	961	
	23	100	123	113	886	999	
July	24	105	129	108	902	1,010	
August	23	102	125	108	879	987	
September	25	101	126	107	935	1.042	
October	23	98	121	99	974	1.073	
November	23	100	123	106	1.031	1,137	
December	23	98	121	101	1,035	1,136	
Average	23	102	125	108	902	1,010	
991 January	22	92	114	91	977	1,068	
February	21	97	118	88	896	984	
March	24	88	112	81	848	929	
April	23	87	110	95	770		
May	22	85	107	98		865	
June	21	87	108	93	721	819	
July	16	89	105		774	867	
August	15	87		80	764	844	
September	14		102	68	735	803	
October		84	98	71	704	775	
	15	81	96	68	727	795	
November	18	73	91	72	736	808	
December	19	66	85	65	731	796	
Average	19	85	104	81	779	860	
92 January	18	61	79	56	654	710	
February	13	62	75	51	618	669	
March	13	67	80	54	594	648	
April	13	72	85	55	587	642	
4-Month Average	14	66	80	54	616	670	
91 4-Month Average	23	91	114	89	867	956	
90 4-Month Average	21	103	124	110	831	941	

.

Table 5.1 Seismic Crews and Rotary Rigs

a Monthly data are averages of 4- or 5-week reporting periods, not calendar months. Annual data are averages of 52- or 53-week reporting periods, not calendar years.

Calendar years. Notes: Geographic coverage is the 50 States and the District of Columbia. • Totals may not equal sum of components due to independent rounding. Sources: • Crews Engaged in Seismic Exploration: Society of Exploration Geophysicists, "Monthly Seismic Crew Count," and annual reports in *Geophysics:* The Leading Edge of Exploration. • Rotary Rigs in Operation: Hughes Tool Company, "Rotary Rigs Running--by State."

Table 5.2	Oil and Gas Ex	ploratory and	Development Wells
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		Wells	Drilled		
	OII	Gas	Dry	Total	Footage Drilled
		Thouşar	nd Wells		Million Feet
973 Total	10.25	6.98	10.47	27.69	139.42
	13.66	7.17	12.21	33.04	153.79
974 Total	16.98	8.17	13.74	38.89	181.05
975 Total			13.81	40.94	187.29
76 Total	17.70	9.44			215.70
977 Total	18.70	12.12	15.04	45.86	-
978 Total	19.07	14.41	16.59	50.06	238.39
79 Total	20.70	15.17	16.04	51.91	243.69
980 Total	32.28	17.22	20.34	69.84	312.30
981 Total	42.84	19.91	27.28	90.03	408.84
982 Total	39.13	18.94	26.38	84.45	378.39
983 Total	37.12	14.53	24.30	75.95	318.09
984 Total	42.51	16.99	25.73	85.23	370.20
985 Total	34.94	14.23	21.09	70.26	311.77
	18.76	8.20	12.85	39.81	178.11
986 Total		7.82	11.63	35.68	162.17
987 Total	16.22	8.33	10.25	31.99	153.74
988 Total	13.42			27.74	131.18
989 Total	10.33	9.10	8.32	21.14	
990 January	1.01	.87	.73	2.61	13.42
February	.86	.71	53	_2.10	10.87
March	.86	^R .71	R.58	^R 2.15	^R 11.11
April	.85	.64	.60	_ 2.10	10.58
May	R.88	R.79	.61	R 2.29	^R 11.40
June	.91	.87	R.68	^R 2.47	^R 11.80
July	.97	.95	.71	2.63	12.46
August	R 1.13	R 1.01	.75	^R 2.90	^R 12.83
	1.03	.92	R.73	^R 2.67	^R 12.28
September		1.02	.81	3.09	14.05
October	1.26			2.73	12.33
November	1.17	.76	.81	^R 2.79	R 13.59
December	^R 1.22	.87	.70	··· 2.79	Base 30
Total	^R 12.15	^R 10.12	^R 8.26	^R 30.53	^R 146.72
991 January	1.24	.88	.59	2.71	13.21
February	1.24	.72	.65	2.61	12.81
March	^R 1.18	R.80	R.64	^R 2.62	^R 13.08
April	1.06	.70	.63	2.39	12.23
May	1.01	.69	.63	2.33	11.00
June	.93	.74	.59	2.26	10.77
	.97	.82	.68	2.47	11.66
July	1.02	.72	.67	2.41	11.64
August	R.90	R.72	R.65	R 2.27	^R 10.61
September		.71	.05	2.40	11.40
October	.98			2.40	10.08
November	.84	.63	.68	2.13	^R 11.22
December	R.86	R.71	.63	^R 2.20	111.22 Bann Th
Total	^R 12.23	^R 8.85	^R 7.75	^R 28.82	^R 139.72
992 January	.84	.62	^R .55	^R 2.00	^R 10.15
February	.72	.49	.41	1.62	8.49
March	.85	.57	.51	1.92	9.78
3-Month Total	2.40	1.68	1.46	5.55	28.42
1004 / Marth Total	3.66	2.40	1.88	7.95	39.10
991 3-Month Total			1.84	6.86	35.40
1990 3-Month Total	2.73	. 2.29	1.04	0.00	30.40

R=Revised data.

H=Hevised data. Notes: • Includes exploratory and development wells; excludes service wells, stratigraphic tests, and core tests. • Geographic coverage is the 50 States and the District of Columbia. • Totals and averages may not equal sum of components due to subsequent revisions and independent rounding. • Due to the method of estimation, data shown on this page are frequently revised. See end of section. Sources: Energy Information Administration computations, which are based on well reports submitted to the American Petroleum Institute by the Petroleum Information Corporation.

Oil and Gas Resource Development Notes

Three well types are considered in the Monthly Energy Review (MER) drilling statisitics: "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 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 that 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 1992 totaled 83 million short tons, 3 percent⁶ lower than the 85 million short tons produced in March 1991. Coal production for January through March 1992 totaled 247 million short ton, 3 percent lower than the 254 million short tons produced in the comparable period in 1991.

Electric utility coal consumption in February 1992 totaled 60 million short tons, 3 percent higher than the consumption level in February 1991.

Electric utility coal stocks were 158 million short tons at the end of February 1992, compared to stocks of 154 million short tons at the end of February 1991.

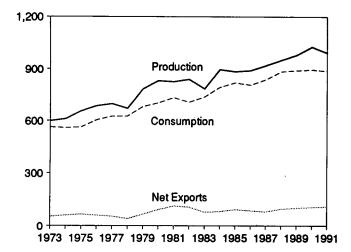
Exports of coal in February 1992 totaled 8 million short tons, 5 percent less than exports in February 1991. Coal imports for February 1992 totaled 213 thousand short tons, half of the amount imported in February 1991.

⁶Calculated values are computed using unrounded data.

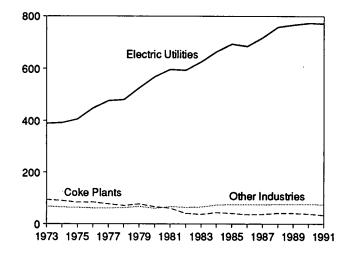
Figure 6.1 Coal

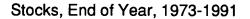
(Million Short Tons)

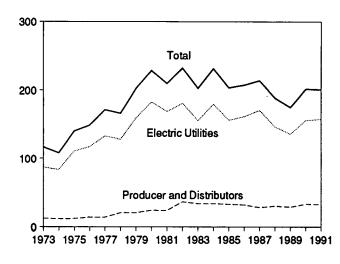
Overview, 1973-1991



Consumption by Sector, 1973-1991

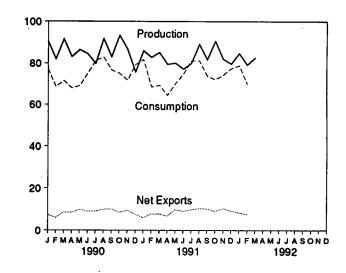




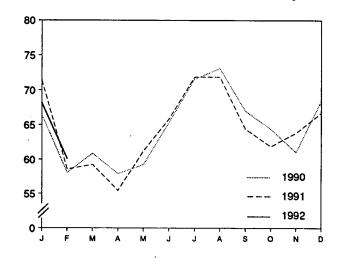


Note: Because vertical scales differ, graphs should not be compared. Sources: Tables 6.1, 6.2, and 6.3.

Overview, Monthly



Consumption by Electric Utilities, Monthly



Stocks at Electric Utilities, End of Month

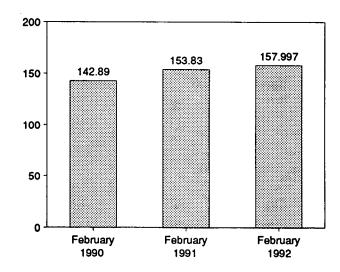


Table 6.1 Coal Overview

(Thousand Short Tons)

	Production	Consumption	Imports ^a	Exports	Stocks ^b
70 7-4-1	500 560	500 50A	127	53,587	116,865
973 Total	598,568	562,584			
974 Total	610,023	558,402	2,080	60,661	107,957
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	702,729	1,194	91,742	228,407
981 Total	823,775	732,628	1,043	112,541	209,423
982 Total	838,111	706,910	742	106,277	232,037
983 Total	782,091	736,671	1,271	77,772	202,585
884 Total	895,921	791,291	1,286	81,483	231,300
985 Total	883,638	818,049	1,952	92,680	203,367
986 Total	890,315	804,312	2,212	85,518	207,319
	918,762	836,941	1,747	79.607	213,780
987 Total		•	•	•	
988 Total	950,265	883,664	2,134	95,023	188,831
989 Total	980,729	890,559	2,851	100,815	175,087
990 January	90,561	77,143	175	7,447	179,459
February	82,021	68,461	268	6,243	186,448
March	91,602	71,410	292	8,693	195,842
April	83,167	67,721	182	8,590	203,424
May	86,519	68,992	144	9.827	210,094
June	84,592	^R 74,953	348	9,316	209,956
July	79,798	81,280	200	9,194	200,970
August	91,842	82,954	120	10,065	197,284
September	83,120	76,587	194	10,238	195,298
October	93,424	74,966	284	8,756	201,683
	86,763	74,500	224	9,621	206,348
November	75.666	79,285	268	7,813	201,629
December	,	^R 895,480			
Total	1,029,076		2,699	105,804	201,629
991 January	^R 86,098	^R 81,738	263	6,214	^R 197,829
February	^R 82,874	^R 68,282	429	8,127	^R 204,026
March	^R 85,307	^R 69,188	246	7,977	^R 211,208
April	^R 79,478	^R 64,184	198	6,917	^R 215,947
May	^R 80,059	^R 69,981	248	10,018	^R 216,921
June	^R 77,049	R 74,592	284	9,278	R 212,741
July	^R 79,998	R81,221	348	10,099	^R 204,378
August	^R 89,163	^R 81,196	248	10,541	^R 199,237
September	^R 81,818	^R 73.676	387	10,557	^R 197,488
October	^R 90,654	^R 72.018	214	9,244	^R 202.136
November	^R 82.029	^R 74,239	298	10,602	R 201,670
	^R 79,620	^R 77,353	290	-	R 200,845
December	79,020 Bood 147	77,303 Baat eeo		9,393	
Total	^R 994,147	^R 887,668	3,390	108,969	^R 200,845
992 January	84,891	E78,815	272	8,590	^E 205,768
February	79,154	^E 69,875	213	7,759	^E 207,870
March	82,661	ŇA	· NA	NA	NA
3-Month Total	246,706	NA	NA	NA	NA
991 3-Month Total	254,279	219,208	938	22,318	211,208
		•		•	195,842
1990 3-Month Total	264,184	217,014	735	22,383	

^a Includes Puerto Rico.

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

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

Notes: • Geographic coverage is the 50 States and the District of Columbia. • Data through 1990 are final. Subsequent data are preliminary.

• Annual and year-to-date totals are rounded sums of rounded data. Accordingly, they may not equal the sum of the months and may differ from values published elsewhere by the Energy Information Administration (EIA). • For methodology used to calculate production, consumption, and stocks, see Notes 1, 2, and 3 at end of section.

Sources: • Production: 1973-September 1977-U.S. Department of the Interior, Bureau of Mines, Minerals Yearbook and Minerals Industry Surveys. October 1977 forward—EIA, 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-522 (Exports). • Stocks: Table 6.3.

Table 6.2 Coal Consumption by End-Use Sector

(Thousand Short Tons)

		İn	dustrial			
	Residential and Commercial	Coke Plants	Other Industrial including Transportation	Electric Utilities	Total	
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		· · · , · = ·	
981 Total	7.422	61.015		569,274	702,729	
			67,395	596,797	732,628	
982 Total	8,240	40,908	64,096	593,666	706,910	
983 Total	8,448	37,033	65,979	625,211	736,671	
984 Total	9,128	44,022	73,744	664,399	791,291	
985 Total	7,779	41,056	75,372	693,841	818,049	
986 Total	7,667	36,006	75,583	685,056	804,312	
987 Total	6,914	36,957	75,175	717,894	836,941	
988 Total	7,130	41,910	76,252	758,372	883,664	
989 Total	6,167	41,369	76,134	766,888	890,559	
990 January	713	3,456	6,533	66,441	77,143	
February	656	3,117	6,576	58,112	68,461	
March	551	3,471	6,504	60,885	71,410	
April	532	3,227	6,025	57,937	67,721	
May	360	3.365	6.007	59,260	68,992	
June	373	R 3,203	•		874.050	
July	535	3,203	6,037	65,340	^R 74,953	
		3,119	6,075	71,551	81,280	
August	498	3,236	6,113	73,106	82,954	
September	409	3,120	6,056	67,001	76,587	
October	413	3,319	6,853	64,381	74,966	
November	624	3,223	6,838	61,041	71,727	
December	1,059	3,020	6,713	68,493	79,285	
Total	6,724	R 38,877	76,330	773,549	^R 895,480	
991 January	862	^R 2,928	^R 6,541	71,406	^R 81, 738	
February	605	R 2,479	^R 6,584	58,614	^R 68,282	
March	_ 541	^R 2,883	^R 6,492	59,272	^R 69,188	
April	^R 403	2,675	^R 5,663	55,443	^R 64,184	
May	R 330	2,710	R 5,713	61,228	^R 69,981	
June	^R 322	2,690	^R 5,763	65.817	R 74,592	
July	427	2,929	R 6.014	71,852	R81,221	
August	^R 386	2,916	R 6,011	71.884	^R 81,196	
September	R319	2,932	^R 6,026	64,397	^R 73,676	
October	R 353	^R 2,902	^R 6,880	61,883	^R 72,018	
November	R 677	R 2 896	^R 6.852	63.814	^R 74,239	
December	^R 868	_R 2,913	^R 6,865	66,707	^R 77,353	
Total	^R 6,094	R 33,854	^R 75,405		B POT COD	
i vidi		33,034	~ /5,405	772,316	^R 88 7,668	
992 January	^E 811	E 3,036	E 6,831	^E 68,137	^E 78,815	
February	E 700	E 2.663	E 6.412	E 60,100	E 69,875	
2-Month Total	E 1,511	E 5,699	E 13,243	E 128,237	E 148,690	
991 2-Month Total	1,468	5,407	13,126	130,020	150,020	
990 2-Month Total	1,369	6,573	13,109	124,554	145,604	

R=Revised data. E=Estimate.

Notes: • For sector-specific reporting and estimating information, see Note 2 at end of section. • Geographic coverage is the 50 States and the District of Columbia. • Data through 1990 are final. Subsequent data are preliminary. • Annual and year-to-date totals are rounded sums of rounded data. Accordingly, they may not equal the sum of the months and may differ from values published elsewhere by the Energy Information Administration (EIA).

Sources: • Residential and Commercial: 1973-1976—U.S. Department of the Interior (DOI), Bureau of Mines (BOM), Minerals Yearbook. January-September 1977—DOI, BOM, Form 6-1400, "Monthly Coal Report, Retail Dealers-Upper Lake Docks." October 1977-1979—EIA, Form EIA-2, "Monthly Coal Report, Retail Dealers-Upper Lake Docks." 1980 forward—EIA, Form EIA-6, "Coal Distribution Report." • 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." 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." • 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."

Table 6.3 Coal Stocks, End of Period

(Thousand Short Tons)

		Cons	umer		- Draducere	
	Coke	Other	Electric		Producers and	
	Plants	Industrial	Utilities	Total ^a	Distributors	Total ^a
973 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
80 Year	9,067	11,951	183,010	204,028	24,379	228,407
81 Year	6,475	9,906	168,893	185,274	24,149	209,423
82 Year	4.642	9,479	181,132	195,253	36,784	232,037
83 Year	4,346	8,710	155,598	168,654	33,931	202,585
984 Year	6,166	11,317	179,727	197,210	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
89 Year	2,864	7,363	135,860	146,087	29,000	175,087
90 January	3,123	7,237	138,067	148,426	31,033	179,459
February	3,382	7,110	142,890	153,382	33,066	186,448
March	3,641	6,984	150,118	160,743	35,099	195,842
April	3,674	7,127	156,925	167,726	35,698	203,424
May	3,706	7,270	162,821	173,798	36,296	210,094
June	3,739	7,413	161,908	173,061	36,895	209,956
July	3,387	7,810	153,957	165,153	35,816	200,970
August	3,255	8,206	151,085	162,546	34,738	197,284
September	3,124	8,603	149,913	161,639	33,659	195 ,298
October	3,192	8,640	156,271	168,104	33,579	201,683
November	3,260	8,678	160,911	172,850	33,499	206,348
December	3,329	8,716	156,166	168,210	33,418	201,629
91 January	3,262	^R 8,234	150,000	^R 161,496	^R 36,333	^R 197,829
February	3,196	R7,753	153,830	^R 164,779	^R 39,248	^R 204,026
March	3,130	^R 7,271	158,644	^R 169,045	⁸ 42,162	^R 211,208
April	3,181	^R 7,154	163,819	^R 174,154	^R 41,793	^R 215,947
Мау	3,232	^R 7,038	165,229	R 175,498	^R 41,423	^R 216,921
June	3,283	⁸ 6,921	161,484	^R 171,688	^R 41,054	^R 212,741
July	3,087	^R 7,033	155,680	^R 165,800	^R 38,578	^R 204,378
August	2,891	R7,145	153,097	^R 163,133	^R 36,103	^R 199,237
September	2,695	R 7,258	153,907	^R 163,860	R 33,628	^R 197,488
October	R 2,721	^R 7,192	158,813	^R 168,726	R33,409	^R 202,136
November	R 2,747	R7,127	158,605	^R 168,479	R33,190	R 201,670
December	^R 2,773	^R 7,061	158,040	^R 167,874	^R 32,971	^R 200,845
92 January	E 3,230	E8,143	155,395	E 166,768	E 39,000	E 205,768
February	^E 3,179	E 7,694	157,997	E 168,870	E 39,000	^E 207,870

^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. • Geographic coverage is the 50 States and the District of Columbia. • Data through 1990 are final. Subsequent data are preliminary. • Totals may not equal sum of components due to independent rounding. Sources: • 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 Plant Report," quarterly/Annual." 1981-1984--EIA, Form EIA-5/5A, "Coke Plant Report-Quarterly/Annual Supplement." 1985 forward--EIA Form EIA-5, "Coke Plant Report," quarterly. • Other Industrial: 1973-September 1977--DOI, BOM, *Minerals Yearbook* and *Minerals Industry Surveys*. October 1977-1979--EIA, Form EIA-3, "Monthly Coal Consumption Report-Manufacturing Plants." 1980 forward---EIA, Form EIA-5, "Counterly Coal Consumption Report-Manufacturing Plants." 1980 forward---EIA, Form EIA-3, "Quarterly Coal Consumption Report-Manufacturing Plants." 1980 forward---EIA, Form EIA-3, "Quarterly Coal Consumption Report-Manufacturing Plants." 1980 forward---EIA, Form EIA-3, "Quarterly Coal Consumption Report-Manufacturing Plants." 1980 forward---EIA, Form EIA-3, "Quarterly Coal Consumption Report-Manufacturing Plants." 1980 forward---EIA, Form EIA-3, "Quarterly Coal Consumption Report-Manufacturing Plants." 1980 forward---EIA, Form EIA-3, "Quarterly Coal Consumption Report-Manufacturing Plants." 1980 forward---EIA, Form EIA-3, "Quarterly Coal Consumption Report-Manufacturing Plants." 1980 forward---EIA, Form EIA-3, "Quarterly Coal Consumption Report-Manufacturing Plants." 1980 forward---EIA, Form EIA-3, "Quarterly Coal Consumption Report-Manufacturing Plants." 1980 forward---EIA, Form EIA-3, "Quarterly Coal Consumption Report-Manufacturing Plants." 1980 forward---EIA, Form EIA-3, "Port-Coal Distributions EIA-759 (formerly Form FPC-4), "Monthly Power Plant Report." • Producers and Distributo

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 insures that the seasonal variations are preserved in the production estimates.

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

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

• Residential and Commercial—Prior to 1980, monthly consumption estimates for the residential and commercial sector were derived by using reported data to modify baseline figures developed by the Bureau of Mines. From 1980-

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

- Coke Plants—Prior to 1980, monthly coke plant consumption data were directly from reported data. From 1980-1987, coke plant consumption estimates were derived by proportioning reported quarterly data by using the ratios of monthly-toquarterly 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 (i.e., 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 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 (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 directly from reported data.

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

• Coke Plants—Prior to 1980, monthly stocks at coke plants were 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 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 directly from data reported on Form EIA-3 and therefore include only manufacturing industries; data for agriculture, forestry, fishing, mining, and construction stocks are not available.
- Electric Utilities—Monthly stocks data at electric utility plants are directly from reported data.
- Producers and Distributors—Quarterly stocks at producers and distributors are 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 directly from data reported monthly by the Bureau of the Census.

5. Additional Information: More information concerning coal production, consumption, and stocks data and estimation procedures may be obtained in EIA's *Quarterly Coal Report*.

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Section 7. Electricity

During February 1992, electric utilities generated 218 billion kilowatthours of electricity, 3 percent⁷ above the February 1991 generation level. Coal-fired generation totaled 122 billion kilowatthours, 3 percent above the February 1991 level. Nuclear generation totaled 53 billion kilowatthours, 10 percent above the level 1 year earlier. Hydroelectric generation totaled 18 billion kilowatthours, 18 percent below the February 1991 level. Natural gas-fired generation was 16 billion kilowatthours, 18 percent above the February 1991 level. Petroleum-fired generation totaled 8 billion kilowatthours, 4 percent below the level 1 year earlier.

Sales of electricity to all ultimate consumers in the United States in February 1992 were 225 billion kilowatthours, 3 percent higher than the February 1991 level. Sales to residential consumers during February 1992 were 82 billion kilowatthours, 3 percent higher than the level of sales during the previous February. Sales to industrial consumers during February 1992 were 76 billion kilowatthours, 4 percent higher than the February 1991 level. Commercial sales were 60 billion kilowatthours, 2 percent higher than the amount sold to commercial consumers 1 year earlier. In February 1992, other sales totaled 8 billion kilowatthours, 1 percent higher the February 1991 level.

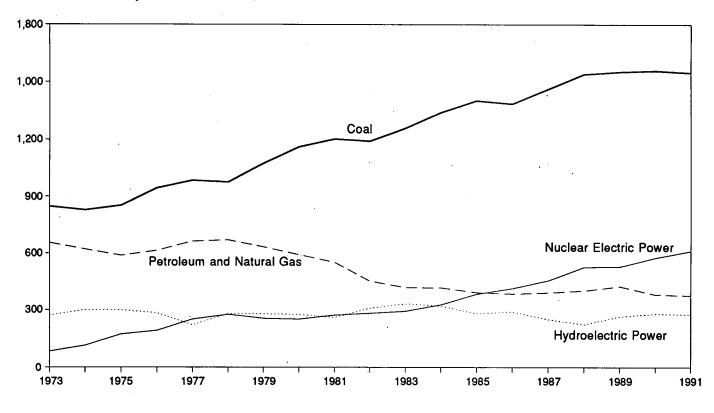
Electric utility consumption of petroleum (excluding petroleum coke) during February 1992 was 14 million barrels, 6 percent below the February 1991 level. Coal consumption during February 1992 was 60 million short tons, 3 percent higher than consumption in February 1991. During February 1992, electric utilities consumed 170 billion cubic feet of natural gas, 16 percent above the February 1991 consumption level.

On February 29, 1992, electric utility stocks of all types of coal totaled 158 million short tons, 3 percent higher than the level on February 28, 1991. Stocks of petroleum (excluding petroleum coke) on February 29, 1992, totaled 70 million barrels, 9 percent below the level on February 28, 1991.

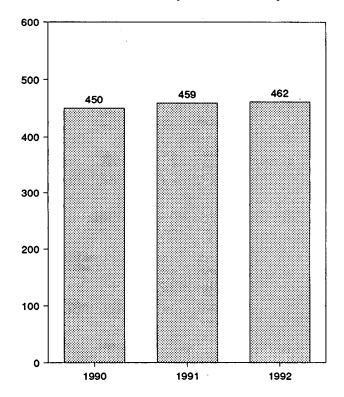
⁷Percentage changes are based on numbers shown in the following tables.

Figure 7.1 Electric Utility Net Generation of Electricity (Billion Kilowatthours)

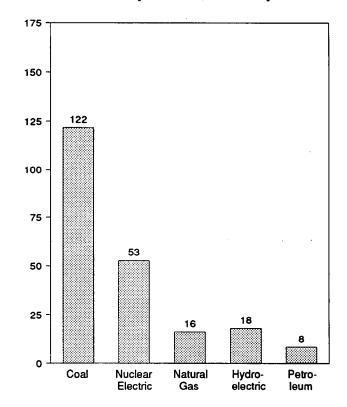
Net Generation by Source, 1973-1991



Net Generation, January and February



Net Generation by Source, February 1992



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

Table 7.1 Electric Utility Net Generation of Electricity

(Million Kilowatthours)

		Natural	.	Nuclear Electric	Hydro- Electric		▼-4-1
	Coal	Gasa	Petroleum ^b	Power	Power	Other ^c	Totai
73 Total	847.651	340.858	314,343	83,479	272,083	2,294	1,860,710
74 Total	828,433	320,065	300,931	113,976	301,032	2,703	1,867,140
975 Total	852,786	299,778	289,095	172,505	300,047	3,437	1,917,649
976 Total	944,391	294,624	319,988	191,104	283,707	3,883	2,037,696
977 Total	985,219	305,505	358,179	250,883	220,475	4,063	2,124,323
	975,742	305,391	365,060	276,403	280,419	3,315	2,206,331
978 Total		329.485	303,525	255,155	279,783	4,387	2,247,372
979 Total	1,075,037		•	•	276,021	5,506	2,286,439
980 Total	1,161,562	346,240	245,994	251,116	•	6,054	2,294,812
981 Total	1,203,203	345,777	206,421	272,674	260,684		
982 Total	1,192,004	305,260	146,797	282,773	309,213	5,164	2,241,211
983 Total	1,259,424	274,098	144,499	293,677	332,130	6,456	2,310,285
984 Total	1,341,681	297,394	119,808	327,634	321,150	8,638	2,416,304
985 Total	1,402,128	291,946	100,202	383,691	281,149	10,724	2,469,841
986 Total	1,385,831	248,508	136,585	414,038	290,844	11,503	2,487,310
987 Total	1,463,781	272,621	118,493	455,270	249,695	12,267	2,572,127
988 Total	1,540,653	252,801	148,900	526,973	222,940	11,984	2,704,250
989 Total	1,553,661	266,598	158,318	529,355	265,063	11,309	2,784,304
990 January	132,623	13,687	11,515	55,119	23,412	933	237,289
February	116.071	12,450	9,385	49,963	24,151	861	212,880
March	123,139	17,647	10,172	46.087	28,042	948	226,034
April	117,260	18,991	10,141	38,516	25,387	775	211,070
May	119,785	22,867	9,442	42,945	27,001	868	222,908
June	132,624	28,280	13.348	46,332	27,708	883	249,175
July	144,359	30,983	12.824	53,645	23,658	907	266,375
August	147,305	32,610	10,887	55,758	21,048	919	268.527
September	135,493	28,212	7,981	48,485	16,971	875	238,017
	130,182	24,408	7,198	43,395	18,605	905	224,694
October	124,003	17,637	6,221	45.034	19,993	860	213,748
November	136,762	16.317	7.902	51,582	23,952	919	237,434
December	1.559,606	264,089	117,017	576,862	279,926	10,651	2.808.151
	1,559,000	204,003	117,017	370,002	213,320		
991 January	141,779	16,320	9,221	54,369	25,676	897	248,262
February	117,860	13,730	8,689	47,863	21,915	764	210,82
March	118,159	18,448	8,784	49,121	25,820	863	221,19
April	112,320	20,504	7,984	41,631	25,687	780	208,900
May	123,751	23,455	10,995	46,755	28,454	808	234,217
June	131,801	24,417	11,159	54,208	25,830	848	248,264
· July	143,828	31,124	11,011	60,735	24,250	839	271,787
August	143,898	30,970	11,865	58,473	21,747	865	267,818
September	128,966	24,966	8,647	51,874	18,428	830	233,710
October	125.351	25.390	6,483	47.653	17,538	843	223,258
November	128,952	18,990	7,784	46,295	18,299	883	221,20
December	132,546	15,818	8,841	53,589	21,873	916	233,58
Total	1,549,212	264,131	111,463	612,565	275,516	10,137	2,823,02
I Y KU	1,049,616	207,131	111,400			-	
992 January	137,181	16,176	10,197	57,878	21,535	910	243,87
February	121,733	16,157	8,306	52,804	17,958	798	217,75
2-Month Total	258,914	32,333	18,503	110,682	39,492	1,708	461,633
1991 2-Month Total	259,639	30,050	17,910	102,232	47,591	1,660	459,082
990 2-Month Total	248,694	26,137	20,900	105,082	47,563	1,793	450,16

a Includes supplemental gaseous fuel.

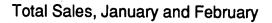
^b Includes fuel oil Nos. 2, 4, 5, and 6, crude oil, kerosene, and petroleum coke.

^c "Other" is electricity produced from geothermal, wood, waste, wind, photovoltaic, and solar thermal energy sources connected to electric utility distribution systems.

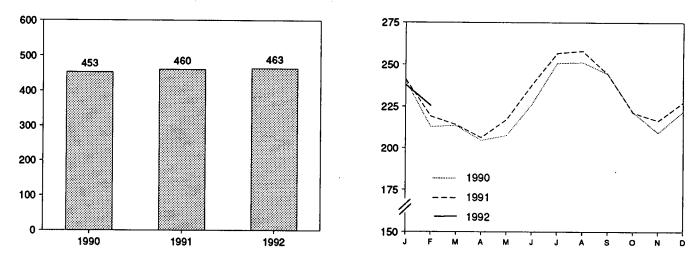
Notes: • Geographic coverage is the 50 States and the District of Columbia. • Totals may not equal sum of components due to independent rounding. Sources: • 1973-September 1977: Federal Power Commission, Form FPC-4, "Monthly Power Plant Report." • October 1977-1979: Federal Energy Regulatory Commission, Form FPC-4, "Monthly Power Plant Report." • 1980: Energy Information Administration (EIA), *Electric Power Monthly*, March 1991, Table 4. • 1981 and 1990 monthly data: EIA, *Electric Power Monthly*, March 1992, Table 4. • 1982 forward (except 1990 monthly data): EIA, *Electric Power Monthly*, March 1992, Table 4.

Figure 7.2 **Electricity Sales**

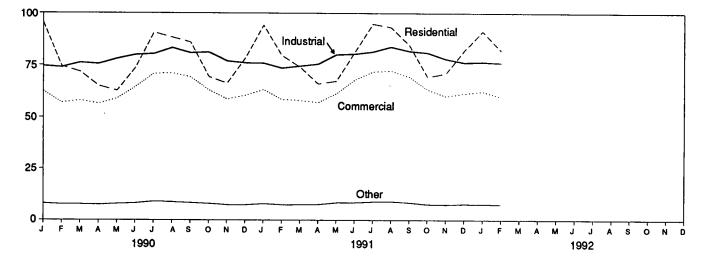
(Billion Kilowatthours)

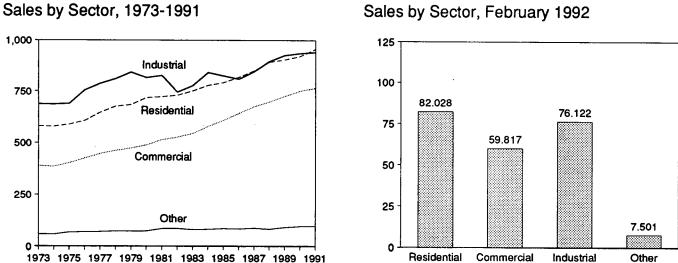


Total Sales, Monthly









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

Sales by Sector, February 1992

Table 7.2 Electricity Sales by End-Use Sector

(Million Kilowatthours)

	Resid	ential	Comr	ercial	Indu	strial	Oth	ier ^a	Total	
	Monthly Series ^b	Annual Series	Monthly Series ⁶	Annuai Serles	Monthly Series ^b	Annual Series	Monthly Series ^b	Annual Series	Monthly Series ^b	Annual Series
	E70 001	NA	388,266	NA	686,085	NA	59,326	NA	1,712,909	NA
973 Total	579,231	NA	384,826	NA	684,875	NA	58,039	NA	1,705,924	NA
974 Total	578,184	NA	403,049	NA	687,680	NA	68,222	NA	1,747,091	NA
975 Total	588,140	NA	403,049	NA	754,069	NA	69,631	NA	1,855,246	NA
976 Total	606,452	NA	446,514	NA	786,037	NA	70,571	NA	1,948,361	NA
977 Total	645,239	NA		NA	809,078	NA	73,215	NA	2,017,922	NA
978 Total	674,466	NA	461,163	NA	841,903	NA	73,070	NA	2,071,099	NA
979 Total	682,819		473,307	NA	815,067	NA	73,732	NA	2,094,449	NA
980 Total	717,495	NA	488,155	NA	825,743	NA	84,756	NA	2,147,103	NA
981 Total	722,265	NA	514,338	NA	744,949	NA	85.575	NA	2,086,441	NA
982 Total	729,520	NA	526,397			NA	80,219	NA	2,150,955	NA
983 Total	750,948	NA	543,788	NA	775,999		81,849	85,248	2,278,372	2,285,796
1984 Total	777,654	780,092	578,281	582,621	840,588	837,836		87,279	2,309,543	2,323,974
1985 Total	790,977	793,934	608,968	605,989	824,523	836,772	85,075	88,615	2,350,835	2,368,753
1986 Total	817,663	819,088	641,469	630,520	808,292	830,531	83,409			2,300,700
1987 Total	849,613	850,410	673,707	660,433	845,266	858,233	86,854	88,196	2,455,440	
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
990 January	95,190	_	62,462	-	74,472	-	8,088	-	240,212	-
February	74,343	_	56,905	-	73,891	-	7,643	-	212,781	-
March	71,747	-	57,990	-	76,114	-	7,631	-	213,482	-
April	65,048	_	56,490	-	75,528	-	7,479		204,545	-
May	62,731	-	58,936	-	78,021	-	7,914	-	207,602	-
June	73,661	-	64,571	-	79,901	-	8,196	-	226,327	-
July	90,590	-	70,912	-	80,345	-	9,009	-	250,855	-
August	88,257	_	71,103	-	83,232	-	8,764	-	251,356	-
September	85,927	_	69,244	-	80,813	-	8,402	-	244,385	-
October	69,410	-	63.091	-	81,152	-	7,979	-	221,633	-
November	66,282	_	58,657	-	76,909	-	7,428	-	209,276	-
December	78,288	_	60,474	_	76,050	-	7,404	-	222,216	-
Total	921,473	924,019	750,835	751,027	936,428	945,522	95,936	91,988	2,704,672	2,712,555
	94.059	_	63,285	_	75,908		7,919	_	241,170	
1991 January February	79,616	_	58,515	-	73,535	-	7,433	-	219,099	-
March	74,015	-	58,074		74,511	-	7,469	-	214,069	-
April	66,031	_	57,084	-	75,520	-	7,592	-	206,227	-
May	67,396	· _	61,364	-	80.022	-	8,400	-	217,183	-
June	81,087	-	67,903	_	80,356	-	8,509	-	237,854	-
July	94,699	-	71,797	-	81,396	_	8,885	-	256,776	-
August	93,086	_	72,293	-	83,743	-	8,971		258,093	-
September	84,657	_	69,429	-	81,739	-	8,469	-	244,295	-
	69,378	_	63,406	_	80,968	-	7,637	-	221,389	-
October	71,054	-	60,089	_	77,952	-	7,461	-	216,556	-
November	81,997	_	61,499	_	76.300		7,780	-	227,577	-
December Total	957,074	957,024	764,739	764,923	941,949	940,676	96,525	96,638	2,760,286	2,759,261
	01 007	_	62,450		76,504	-	7,718	_	237.880	-
1992 January	91,207		•	_	76,504	-	7,501	-	225,467	-
February 2-Month Total			59,817 122,267	-	152,626	-	15,219	-	463,348	-
					140 440		15,352	_	460,269	_
1991 2-Month Total	173,674	-	121,800	-	149,443	-	•	-	452,993	_
1990 2-Month Total	169,533	-	119,366	-	148,363	+	15,731	-		

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

^b Annual totals are the sums of the monthly values.

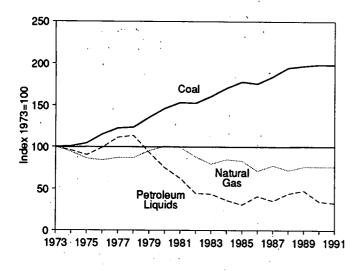
NA=Not available. -=Not applicable.

NA=Not available. - =Not applicable.
 Notes: • Geographic coverage is the 50 States and the District of Columbia. • Totals may not equal sum of components due to independent rounding.
 Sources: • 1973-1979: 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 and 1990 monthly data: EIA, *Electric Power Monthly*, March 1992, Table 51.
 1982 forward (except 1990 monthly data): EIA, *Electric Power Monthly*, May 1992, Table 51.

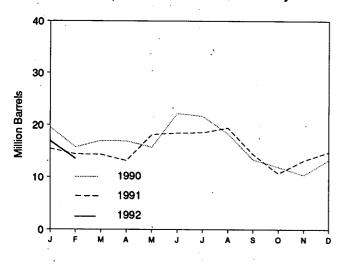
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Figure 7.3 Electric Utility Consumption and Stocks of Fossil Fuels

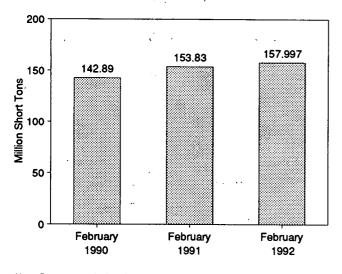
Fuels Consumed, 1973-1991



Petroleum Liquids Consumed, Monthly

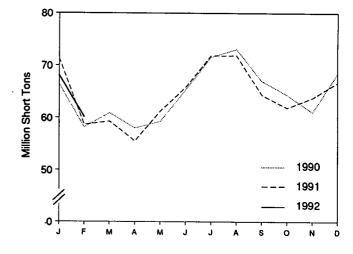




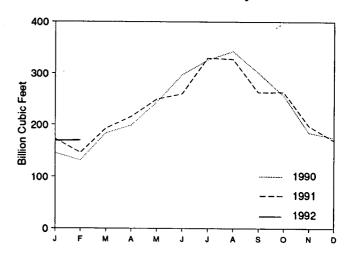


Note: Because vertical scales differ, graphs should not be compared. Sources: Tables 7.3 and 7.4.

Coal Consumed, Monthly



Natural Gas Consumed, Monthly



Petroleum Liquids Stocks, End of Month

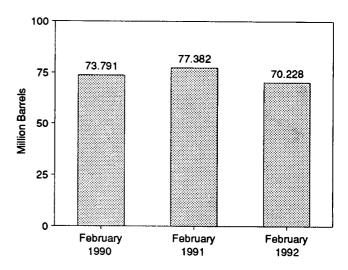


Table 7.3 Electric Utility Consumption of Fossil Fuels To Generate Electricity

		Co	al		Petroleum							
					By T of Petro		By Pı Mover					
	Anthra- cite	Bituminous Coal	Lignite	Total	Heavy Oil ^a	Light Oil ^b	Steam Plants	GT/IC ^c	Total Liquids	Petroleum Coke	Natural Gas ^d	
		Thousand S						Thousand Short Tons	Million Cubic Fee			
73 Total	1,443	376,975	10,794	389,212	NA	NA	513,190	47,058	560,248	507	3,660,172	
74 Total	1,498	378,643	11,670	391,811	NA	NA	483,146	53,128	536,274	625	3,443,428	
75 Total	1,480	388,523	15,960	405,962	NA	NA	467,221	38,907	506,128	70	3,157,669	
76 Total	1,350	425,205	21,817	448,371	NA	NA	514,077	41,843	555,920	68	3,080,868	
977 Total	1,425	451,051	24,650	477,126	NA	NA	574,869	48,837	623,705	98	3,191,200	
978 Total	1,064	448,763	31,407	481,235	NA	NA	588,319	47,520	635,839	398	3,188,363	
979 Total	1,046	488,129	37,876	527,051	NA	NA	492,606	30,691	523,297	268	3,490,523	
980 Total	951	526,680	41,642	569,274	391,163	29,051	401,863	18,351	420,214	179	3,681,595	
981 Total	1,221	550,784	44,792	596,797	329,798	21,313	339,680	11,431	351,111	139 149	3,640,154 3,225,518	
982 Total	1,075	543,346	49,245	593,666	234,434	15,337	243,537	6,234	249,771	261	2,910,767	
983 Total	1,036	570,108	54,067	625,211	228,984	16,512	237,845	7,652 7,429	245,497 204,479	252	3,111,342	
984 Total	1,070	606,339	56,990	664,399	189,289 158,779	15,190 14,635	197,050 166,842	6,572	173,414	231	3,044,083	
985 Total	1,033	631,885	60,923 68.003	693,841 695.056	216,156	14,326	222,500	7,983	230,482	313	2,602,370	
986 Total	829	616,134	68,093 69,098	685,056 717,894	184,011	15,367	190,818	8,560	199,378	348	2,844,051	
987 Total	972 1,063	647,824 681,048	76,260	758,372	229,327	18,769	235,817	12,279	248,096	409	2,635,613	
988 Total 989 Total	1,003	688,504	77,335	766,888	241,960	25,491	250,315	17,136	267,451	517	2,787,012	
90 January	92	59,129	7,220	66,441	18,291	1,237	18,900	628	19,528	40	145,649	
February	85	51,715	6,313	58,112	14,769	974	15,194	549	15,743	62	131,592	
March	91	54,693	6,101	60,885	16,068	916	16,541	442	16,984	62	183,983	
April		52,480	5,376	57,937	15,882	1,035	16,364	554	16,917	61 77	198,994 243,781	
May		53,182	5,988	59,260	14,586	1,146	15,113	619	15,732 22,174	66	297,036	
June		58,357	6,892	65,340	20,619	1,555	21,145	1,028	21,655	74	326.087	
July		64,272	7,183	71,551	20,041	1,615	20,514	1,141 1,121	18,333	72	342,965	
August		65,696	7,317	73,106	16,715	1,618	17,212 12,491	863	13,354	79	300,858	
September		60,461	6,455	67,001	. 12,037	1,318 1,186	11,272	686	11,958	86	256,797	
October		58,118	6,181	64,381	10,772 9,473	910	9,998	385	10,383	61	184,695	
November		54,927	6,043	61,041 68,493	9,473 11,979	1,313	12,785	507	13,292	78	174,893	
December Total		61,287 694,317	7,132 78,201	773,549	181,231	14,823	187,531	8,523	196,054	819	2,787,332	
991 January	74	63,779	7,553	71,406	14,264	1,187	14,911	541	15,452	74	172,932	
February		52,090	6,456	58,614	13,595	804	14,021	377	14,398	. 57	146,177	
March		52,924	6,255	59,272	13,513	828	13,999	341	14,340	73	192,878	
April		50,131	5,219	55,443	12,142	1,019	12,641	519	13,161	72	215,659	
May	73	55,229	5,926	61,228	16,312	1,814	16,919	1,208	18,126	66	249,454	
June	72	58,455	7,290	65,817	17,325	1,122	17,845	602	18,447	50	260,153	
July		64,202	7,548	71,852	17,289	1,218	17,737	770	18,507	61 56	329,861 327,621	
August		64,280	7,514	71,884	18,041	1,380	18,500	921 740	19,421 14,374	50	262,82	
September		57,474	6,833	64,397	13,209	1,165 902	13,634 10,289	403	10,693	50	263.376	
October		55,586	6,212	61,883	9,791				13,166	50	197,831	
November			6,073	63,814	12,020 13,656	1,146 1,143	12,575 14,213	591 586	14,800	52	169,674	
December Total			7,120 79,999	66,707 772,316	171,157	13,729	177,286	7,600	184,886	722	2,788,443	
992 January	. 80	60,754	7,304	68,137	15,811	1,103	16,332	582	16,914	68	169,302	
February			6,415	60,100	12,741	809	13,104	446	13,550	76	170,28	
2-Month Total			13,719	128,237	28,553	1,912	29,436	1,028	30,464	145	339,589	
991 2-Month Total			14,009	130,020	27,859	1,991	28,932	918	29,850	.131	319,11	
990 2-Month Total	. 177	110,844	13,533	124,554	33,060	2,211	34,094	1,177	35,271	103	277,24	

Heavy oil includes Grade Nos. 4, 5, and 6, and residual fuel oils.

b Light oil includes Grade No. 2 heating oil, kerosene, and jet fuel.
 GT/IC = Gas turbine and internal combustion plants.

^d includes supplemental gaseous fuels.

NA=Not available.

NA=Not available. Notes: • Geographic coverage is the 50 States and the District of Columbia. • Totals may not equal sum of components due to independent rounding. Sources: • 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, 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—Federal Energy Regulatory Commission, Form FPC-4, "Monthly Power Plant Report." 1980—EIA, *Electric Power Monthly*, March 1991, Table 17. • 1981 and 1990 monthly data—EIA, *Electric Power Monthly*, March 1992, Table 17. • 1982 forward (except 1990 monthly data)—EIA, *Electric Power* Monthly, May 1992, Table 17.

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

	Coal				Petroleum						
						Type roleum		Prime r Type	Total Liquids		
	Anthracite	Bituminous Coal	Lignite	Total	Heavy Oll ^a	Light Oil ^b	Steam Plants	GT/IC ^c		Petroleum Coke	
		Thousand S	Short Tons		Thousand Barrels					Thousand Short Tons	
1973 Year	1,066	84, 9 41	961	86,967	NA	NA	79,121	10.095	89,216	312	
1974 Year	930	81,712	867	83,509	NA	NA	97,718	15,199	112.917	35	
1975 Year	982	107,927	1,815	110,724	NA	NA	108,825	16,432	125,257	31	
1976 Year	1,000	114,130	2,306	117,436	NA	NA	106,993	14,703	121.696	32	
1977 Year	2,321	128,210	2,688	133,219	NA	NA	124,750	19,281	144.031	44	
1978 Year	2,178	123,020	3.027	128,225	NA	NA	102.402	16,386	118,788	198	
1979 Year	3,274	152,981	3.459	159,714	NA	NA	111,121	20,301	131,422	183	
1980 Year	4,741	174,154	4,115	183,010	105,351	30.023	117.227	18,147	135,374	52	
1981 Year	5,537	158,258	5,098	168,893	102,042	26.094	112,380	15,756	128,136	52 42	
1982 Year	6,080	170,480	4,573	181,132	95,515	23,369	105,287	13,597	118,884	41	
1983 Year	6.507	145,250	3.841	155,598	70,573	18.801	78,285	11,090	89.375	55	
1984 Year	6,710	/ 167,118	5.899	179,727	68,503	19,116	76,836	10,784		50	
1985 Year	7,189	142,144	7,043	156,376	57,304	16.386	64,704		87,619		
1986 Year	7,099	148,665	6.042	161,806	56,841	16,269	64,258	8,985 8,853	73,689	49	
1987 Year	6,940	156,670	7,187	170,797	55.069	15,759	61,705		73,111	40	
1988 Year	6,561	133,434	6.512	146.507	54,187	15,099		9,123	70,827	51	
1989 Year	6,403	122,967	6,490	135,860	47,446	13,824	60,311 53,309	8,974 7,962	69,285 61,270	86 105	
1990 January	6,360	125.226	6.482	138.067	54,365	15,410	60,421	9,353	69.775	114	
February	6.315	130,281	6,294	142,890	58,169	15,622	64,454	9,337	73,791	108	
March	6,294	137,522	6,302	150,118	57,728	15,249	63,746	9,231	72.977	108	
April	6,298	143,648	6,979	156,925	55,419	14,837	61,314	8,942	70.256	93	
May	6,315	149,130	7.377	162,821	56,321	15,432	62.341	•	70,256		
June	6,376	148,278	7,255	161,908	53,347	15,356		9,412		102	
July	6,420	140,429	7,108	153,957	56,294	15,618	59,397	9,306	68,703	110	
August	6,441	137,678	6,966	151,085	57,320	•	62,386	9,525	71,911	109	
September	6,486	136,716	6,711	149,913	60,274	15,468	63,342	9,446	72,788	113	
October	6,513	142,465	7,294	156.271	61.835	15,574	66,336	9,512	75,848	95	
November	6,528	147,112	7,271	160,911		16,142	68,143	9,833	77,977	83	
December	6,499	142,650	7,016	156,166	65,160 67,030	16,411 16,471	71,414	10,157	81,571	84	
	0,100	112,000	7,010	100,100	07,030	10,471	73,306	10,195	83,501	94	
1991 January	6,470	137,019	6.510	150,000	64,344	16,601	70,744	10,201	80.945	103	
February	6,442	141,047	6,341	153,830	60,490	16,892	67,367	10,201	77,382	111	
March	6,384	145,843	6,417	158,644	58,172	16.376	64,699	9,848	74,547	101	
April	6,347	151,119	6,353	163,819	58,835	16,175	65,393	9,648	75,011	90	
May	6,387	152,618	6.224	165,229	57,247	15,574	63,531	9,290	72,822	90 81	
June	6,441	149,259	5,784	161,484	58,245	15,680	64,504	9,421	73,925	89	
July	6,484	142.804	6,392	155,680	57,932	15,654	64,119	9,421	73,586	86	
August	6.506	140,320	6,272	153,097	56,588	15,596	62,813	9,467	73,566	86 79	
September	6.514	141,463	5,930	153,907	59,035	15,514	65,186	9,370			
October	6.544	146.178	6,090	158,813	60,225	15,790	66,257		74,550	73	
November	6,533	145,775	6,298	158,605	58,814	15,790	66,257 64,963	9,758	76,015	64	
December	6,513	145,530	5,996	158,000 158,040	58,636	16,780 16,357	65,032	9,631 9 ,961	74,594 74,993	75 70	
1992 January	6,488	143,224	5.683	155,395	52,593	16,105	58,924	9,775	68,698	72	
February	6,455	146,190	5,352	157,997	54,560	15,668	60,905	9,775	70,228	62	
,	-,		0,002		07,000	10,000	00,505	9,323	10,228	02	

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

b Light oil includes Grade No. 2 heating oil, kerosene, and jet fuel.

^c GT/IC = Gas turbine and internal combustion plants.

 Notes: • Geographic coverage is the 50 States and the District of Columbia. • Totals may not equal sum of components due to independent rounding. Sources: • Prime Mover Type Data: 1973-September 1977—Federal Power Commission, Form FPC-4, "Monthly Power Plant Report." October
 1977-1981—Federal Energy Regulatory Commission, Form FPC-4, "Monthly Power Plant Report." October
 Form EIA-759, "Monthly Power Plant Report." • All Other Data: 1973-September 1977—Federal Power Commission, Form FPC-4, "Monthly Power Plant Report." • All Other Data: 1973-September 1977—Federal Power Commission, Form FPC-4, "Monthly Power Plant Report." • Ctober 1977-J980—Energy Information Administration (EIA), Form EIA-759, "Monthly Power Plant Report." • All Other Data: 1973-September 1977—Federal Power Commission, Form FPC-4, "Monthly Power Plant Report." • Ctober 1977-J980—Energy Information Administration (EIA), *Electric Power Monthly*, March 1991, Table 28, 1981 and 1990 monthly data—EIA, *Electric Power Monthly*, March 1992, Table 28, 1982 forward (except 1990 monthly data)—EIA, *Electric Power Monthly*, March 1992, Table 28, 1982 forward

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NA=Not available.

Section 8. Nuclear Energy

In February 1992, U.S. nuclear generating units produced a total of 53 net terawatthours (billion kilowatthours) of electricity, 10 percent⁸ more than in February 1991. Nuclear units generated at an average capacity factor of 79.0 percent, 8 percentage points more than in February 1991. Nuclear power supplied 24.2 percent of the total electric utility-generated electricity in February 1992, compared with 22.7 percent in February 1991.

No low- or full-power licenses for nuclear power plants were issued by the Nuclear Regulatory Commission during February 1992.

The Yankee Rowe 1 nuclear unit, owned by the New England Power Company, was retired on February 26, 1992, after 32 years of service.

On February 29, 1992, there were 110 operable nuclear generating units in the United States, with a collective net summer capability of 99.5 million kilowatts of electricity. Of the 110 operable units, 17 units generated at less than 25 percent of capacity because of maintenance, refueling, or repair outage, and 15 of the 17 units generated no electricity during the month.

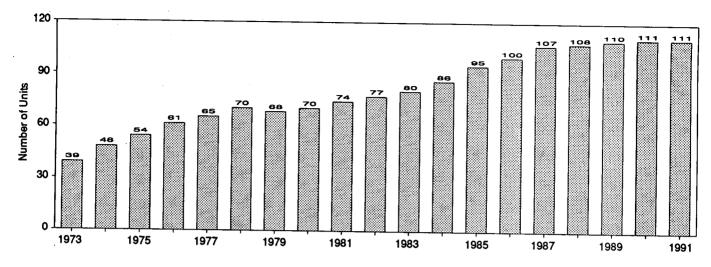
Two operable units, Browns Ferry 1 and 3, have been shut down since March 1985. Each unit had a capacity of 1,065 megawatts electric.

As of February 29, there were 118 domestic nuclear generating units in all stages of construction and operation. The aggregate net design capacity of operable units was 101.5 million kilowatts, and the design capacity of units under construction was 9.7 million kilowatts, for a total design capacity of 111.1 million kilowatts.

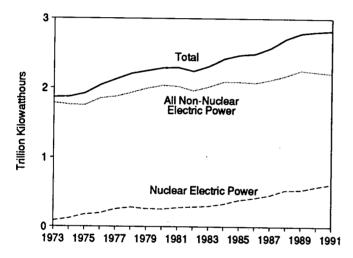
⁸Percentage changes are based on numbers shown in the following tables.

Figure 8.1 Nuclear Power Plant Operations

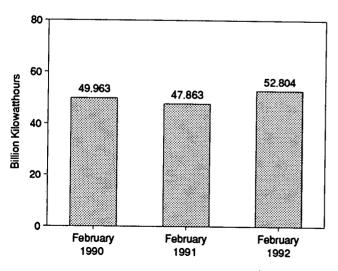
Operable Units, End of Year, 1973-1991



Net Generation of Electricity, 1973-1991

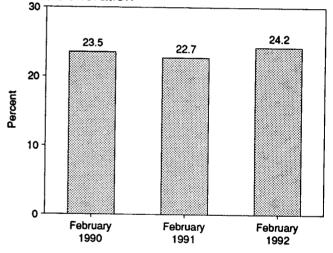


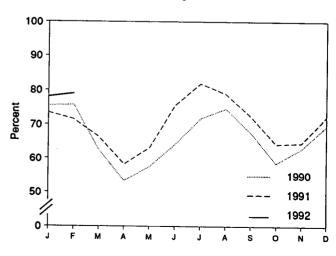




Note: Because vertical scales differ, graphs should not be compared. Sources: Tables 7.1 and 8.1.

Nuclear Portion of Domestic Electricity Net Generation





Capacity Factor, Monthly

Table 8.1 Nuclear Power Plant Operations

	•		
· · ' ·			

	Operable Units ^{a,b}	Nuclear Electricity Net Generation	Nuclear Portion of Domestic Electricity Net Generation	Net Summer Capability of Operable Units ^{a,c}	Capacity Factor ^d
	Number	Million Kilowatthours	Percent	Million Kilowatts	Percent
		1			
73 Year	39	83,479	4.5	22.683	53.5
4 Year	48	113,976	6.1	31.867	47.8
5 Year	54	172,505	.9.0	37.267	55.9
6 Year	61	191,104	9.4	43.822	54.7
7 Year	65	250,883	11.8	46.303	63.3
8 Year	70	276,403	12.5	50.824	64.5
9 Year	68	255,155	11.4	49.747	58.4
0 Year	70	251,116	11.0	51.810	56.3
1 Year	74	272,674	11.9	56.042	58.2
2 Year	77	282,773	12.6	60.035	56.6
3 Year	80	293,677	12.7	63.009	54.4
4 Year	86	327,634	13.6	69.652	56.3
5 Year	95	383,691	15.5	79.397	58.0
6 Year	100	414,038	16.6	85.241	56.9
37 Year	107	455,270	17.7	93.583	. 57.4
38 Year	108	526,973	19.5	94.695	63.5
19 Year	110	529,355	19.0	98.161	62.2
	110	55,119	23.2	98.161	75.5
0 January February	110	49,963	23.5	98.161	75.7
March	111	46,087	20.4	99.311	62.4
	112	38,516	18.2	100,461	53.3
April	112	42,945	19.3	100.461	57.5
May June	112	46,332	18.6	100.461	64.1
	112	53,645	20.1	100.497	71.7
July August	112	55,758	20.8	100.497	74.6
September	111	48,485	20.4	99.624	67.5
October	111	43,395	19.3	99.624	58.5
November	111	45,034	21.1	99.624	62.8
December	111	51,582	21.7	99.624	69.6
Year	111	576,862	20.5	99.624	66.0
		54,369	21.9	99.624	73.4
91 January	111	47,863	22.7	99.624	71.5
February	111	49,121	22.2	99.624	66.3
March		49,121	19.9	99.624	58.2
April	111	46,755	20.0	99.624	63.1
May		46,755 54,208	21.8	99.624	75.6
June	111	54,208 60,735	22.3	99.624	81.9
July		58,473	21.8	99.624	78.9
August		51,874	22.2	99.624	72.3
September	111 111	47,653	21:3	99.624	64.2
October		46,295	20.9	99.624	64.5
November		46,295	22.9	99.624	72.3
Vear	111 111	612,565	21.7	99.624	70.2
, vel	•••				
92 January	111	57,878	23.7	99.624	78.1
February		52,804	24.2	99.457	79.0
2-Month Total		110,682	24.0	99.457	78.5
91 2-Month Total	111	102,232	22.3	99.624	72.5
7 ∠-MOTILII Uldi	110	105,082	23.3	98.161	75.6

^a At end of period.

^b See Note 1 at end of section.

^c For the definition of "Net Summer Capability," see Note 3 at end of section .

^d For an explanation of the method of calculating the capacity factor, see Note 4 at end of section.

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

Sources: • 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." • Capacity Factor: EIA, Office of Coal, Nuclear, Electric and Alternate Fuels.

1.1.1

		nsed eration		ruction mits				Total
	Operable ^a	in Startup ^b	Granted	Pending	On Order	Announced	Total	Design Capacity ^c
				Number of Units	L			Million Kilowatts
1973 Year	39	2	57	50		_		
1974 Year	48	5		52	49	9	208	198
1975 Year	48 54	2	62	75	30	6	226	223
1976 Year	61	-	69	69	14	5	213	212
1977 Year		1	71	63	16	2	214	211
1978 Year	65	2	78	49	13	2	209	203
1070 Year	70	0	88	32	5	0	195	191
1979 Year	68	0	90	24	3	0	185	180
1980 Year	70	1	82	12	3	Ó	168	162
1981 Year	74	0	76	11	2	0	163	157
1982 Year	77	2	60	3	2	ō	144	134
1983 Year	80	3	53	0	2	ŏ	138	129
1984 Year	86	6	38	0	2	õ	132	123
1985 Year	95	3	30	Ō	2	Ő	130	123
1986 Year	100	7	19	ŏ	2	ő	128	
1987 Year	107	4	14	ŏ	2	ő		119
1988 Year	108	3	12	ő	0	0	127	119
1989 Year	110	1	10	õ	ŏ	ő	123 121	115 113
990 January	110	1	10	0	0	•		
February	- 110	ź	9	ŏ	-	0	121	113
March	111	1	9	-	0	0	121	113
April	112	ò	9	0	0	0	121	113
May	112	0		0	0	0	121	113
June	112	0	9	0	0	0	121	113
July	112	0	. 9	0	0	0	121	113
		•	9	0	0	0	121	113
August	112 d 111	0	9	0	0	0	121	113
September	~ 11 1	0	9	0	0	0	d 120	113
October	111	0	9	0	0	0	120	113
November	111	0	9	0	0	0	120	113
December	111	0	8	0	0	Ō	119	111
991 January	111	0	8	0	0	•	440	
February	111	ŏ	8	ů	0	0	119	111
March	111	õ	8	ő	•	0	119	111
April	111	ŏ	8	0	0	0	119	111
May	111	Ö	8	0	0	0	119	111
June	111	0	8	•	0	0	119	111
July	111	0		0	0	0	119	111
August	111	0	8	0	0	0	119	111
September		-	8	0	0	0	119	111
October	111	0	8	0	0	0	119	111
	111	0	8	0	0	0	119	111
November	111	0	8	0	0	0	119	111
December	111	0	8	0	0	Ō	119	111
992 January	111	0	8	o	0	0	119	111
February	110	0	8	õ	ŏ	õ	118	111

Table 8.2 Nuclear Generating Units, End of Period

^a See Note 1 at end of section.

^b See Note 2 at end of section.

c Net design electrical rating (DER) is used because many of the units were canceled prior to being assigned a net summer capability. See Note 3 at end of section. ^d As of September 1990, Rancho Seco is deleted from this category, because the unit is not currently scheduled to operate.

Sources: • 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"; 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 Stean-Electric Units That Have Been in Operation as of 1957-1969; EIA, GIVEAF, Nuclear Flant Cancellauonis. Causes, Costs, and Consequences, and Consequence, and Consequences 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."

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 MWe) and the Hanford-N (840 MWe) 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 material production, was included in the operable category because power was produced as by-product and sold commercially. Three Mile Island 2 (880 MWe) 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 MWe) 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 Energyoperated Experimental Breeder Reactor 2 (EBR-2) unit is not a commercial reactor and is therefore not included in the operable category.

In addition, six units have been retired and therefore removed from the operable category. Those units are: Peach Bottom 1 (40 MWe) and Indian Point 1 (265 MWe), both retired in 1974; Humboldt Bay (65 MWe), officially retired in 1976; Dresden 1 (200 MWe), retired in August 1979; LaCrosse (51 MWe), retired in May 1987; and Fort Saint Vrain (217 MWe), retired in August 1989.

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 the 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.

Section 9. Energy Prices

Crude Oil. The average price of domestic crude oil purchased at the wellhead was \$13.98 per barrel in February 1992, 14 percent below the level in February 1991. The refiner acquisition cost of imported crude oil in February 1992 was \$16.17 per barrel, 12 percent below the February 1991 level. The cost of domestic crude oil in February 1992 was \$16.48, 16 percent less than the February 1991 average.

Motor Gasoline. The national city average retail price of unleaded regular gasoline at all types of stations was \$1.06 per gallon in March 1992, 2 percent lower than the price in March 1991. The price of unleaded premium gasoline averaged \$1.25 per gallon in March 1992, 1 percent lower than the price in March 1991.

Residual Fuel Oil. The average price, excluding taxes, of residual fuel oil sold to end users in February 1992 was 28 cents per gallon, 4 percent lower than the previous month's price and 29 percent below the February 1991 average. The average resale price, exluding taxes, of residual fuel oil in February 1992 was 25 cents per gallon, 2 percent higher than the January 1992 average but 26 percent below the price 1 year earlier.

Aviation Fuel. The average price, excluding taxes, of aviation gasoline sold to end users in February 1992 was 99 cents per gallon, slightly higher than the previous month's price but 7 percent lower than the February 1991 price. The average price, excluding taxes, of kerosene-type jet fuel sold to end users in February 1992 was 57 cents per gallon, 4 percent higher than the previous month's price but 23 percent lower than the February 1991 average price.

No. 2 Distillate Fuel Oil. The February 1992 national average price, excluding taxes, of heating oil sold to residential customers was 94 cents per gallon, slightly below the January 1992 price and 15 percent lower than the February 1991 price. The average price of No. 2 fuel oil sold to all end users was 62 cents per gallon in February 1992, 4 percent above

the January 1992 price but 18 percent lower than the February 1991 price.

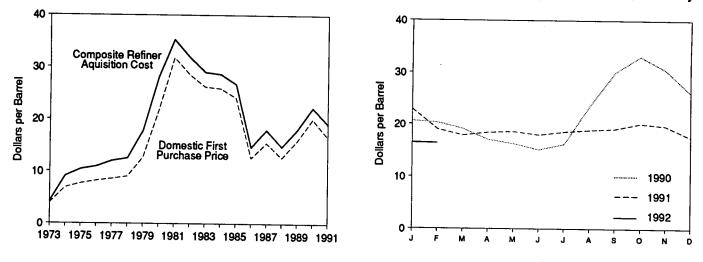
Electricity. The average price of electricity sold to all ultimate consumers in the United States in February 1992 was 6.6 cents per kilowatthour, 2 percent above the February 1991 mean price. The price of electricity sold to residential consumers in February 1992 averaged 7.8 cents per kilowatthour, 3 percent higher than the price 1 year earlier. The price of electricity sold to commercial consumers averaged 7.4 cents per kilowatthour in February 1992, 1 percent above the February 1991 price. The price of electricity sold to other consumers in February 1992 averaged 6.3 cents per kilowatthour, 3 percent less than the February 1991 price. The price of electricity sold to industrial users in February 1992 averaged 4.7 cents per kilowatthour, the same as 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.

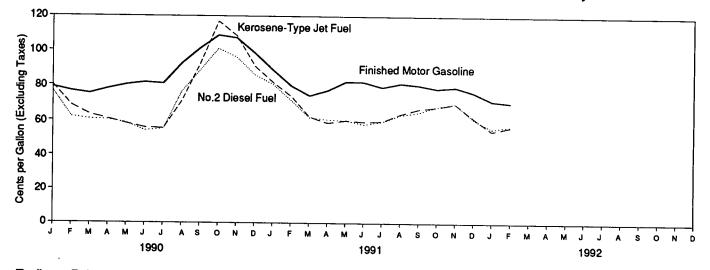
Natural Gas. In January 1992 (the latest data available), the average wellhead price of natural gas was \$1.69 per thousand cubic feet, 13 percent below the January 1991 price.

The average price of natural gas delivered to electric utility plants was \$2.49 per thousand cubic feet in January 1992, 8 percent below the January 1991 price. The average price of natural gas used by residential consumers in February 1992 was \$5.53 per thousand cubic feet, less than 1 percent below the February 1991 price. The average price of natural gas used by commercial consumers in February 1992 was \$5.04 per thousand cubic feet, 1 percent higher than the February 1991 price. The average price of natural gas used by industrial consumers in February 1992 was \$2.79 per thousand cubic feet, 6 percent below the February 1991 price. Crude Oil Prices, 1973-1991

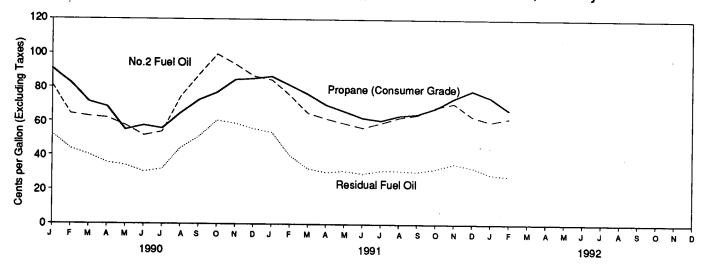
Composite Refiner Acquisition Cost, Monthly



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



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



Sources: Tables 9.1, 9.5, and 9.7.

Table 9.1 Crude Oil Price Summary

(Dollars per Barrel)

				Re	finer Acquisition Co	sta
	Domestic First	F.O.B. Cost	Landed Cost			
	Purchase Priceb	of Imports ^c	of Imports ^d	Domestic	Imported	Composite
		^e 5.21	^e 6.41	E 4.17	E 4.08	^E 4.15
973 Average	3.89		12.32	7.18	12.52	9.07
974 Average	6.87	10.91		8.39	13.93	10.38
975 Average	7.67	11.18	12.70	8.84	13.48	10.89
976 Average	8.19	12.15	13.32		14.53	11.96
977 Average	8.57	13.24	14.36	9.55	14.55	12.46
978 Average	9.00	13.29	14.35	10.61	21.67	17.72
979 Average	12.64	20.07	21.45	14.27	33.89	28.07
980 Average	21.59	32.37	33.67	24.23		35.24
981 Average	31.77	35.15	36.47	34.33	37.05	31.87
982 Average	28.52	32.02	33.18	31.22	33.55	
983 Average	26.19	27.81	28.93	28.87	29.30	28.99
984 Average	25.88	27.60	28.54	28.53	28.88	28.63
985 Average	24.09	25.84	26.67	26.66	26.99	26.75
986 Average	12.51	12.52	13.49	14.82	14.00	14.55
987 Average	15.40	16.69	17.65	17.76	18.13	17.90
988 Average	12.58	13.25	14.08	14.74	14.56	14.67
	15.86	16.89	17.68	17.87	18.08	17.97
989 Average	10.00					
000 lonuon/	18.49	18.81	19.81	20.75	20.51	20.64
990 January February	18.16	18.01	18.96	20.75	19.78	20.31
March	16.57	16.91	17.93	19.32	18.94	19.14
	14.52	14.94	15.96	17.37	16.66	17.05
April	13.82	14.50	15.30	16.45	16.07	16.27
May	12.79	13.84	14.99	15.06	15.15	15.11
June	14.03	16.52	17.65	15.86	16.54	16.19
July		23.84	24.63	22.96	24.26	23.55
August	21.87	29.07	29.48	30.14	29.88	30.03
September	28.46		31.47	33.32	32.88	33.14
October	30.86	30.75	28.34	30.75	30,19	30.52
November	27.53	27.55		26.46	25.56	26.09
. December	22.63	23.24	24.05	22.59	21.76	22.22
Average	20.03	20.37	21.13	22.39	21.70	
	10.59	19.94	20.89	23.25	22.41	22.90
1991 January	19.58	16.31	17.26	19.53	18.30	19.02
February	16.22	15.88	17.16	18.12	17.59	17.89
March	15.08	16.64	17.81	18.56	18.27	18.43
April	16.14		17.82	18.98	18.14	18.60
Мау	16.41	16.42	17.02	18.16	17.78	17.98
June	15.55	15.84	17.78	18.91	18.14	18.57
July	16.32	16.67	18.11	19.10	18.71	18.92
August	16.57	16.94		19.10	19.00	19.17
September	16.67	17.49	18.64	20.39	19.92	20.18
October	17.70	18.53	19.36		19.35	19.72
November	17.07	17.84	18.51	20.01		17.56
December	14.66	^R 15.16	^R 16.22	17.84	17.17	19.05
Average	16.50	^R 16.95	^R 18.05	19.33	18.70	19.05
-	B 10 00	^R 14.30	^R 15.21	^R 16.75	^R 16.10	^R 16.47
1992 January	^R 13.93	14.36	15.30	16.48	16.17	16.35
February	13.98	14.30	10.00	.0.40		

^a See Note 4 at end of section.

^b See Note 1 at end of section.

^c See Note 2 at end of section. d

See Note 3 at end of section.

e Based on October, November, and December data only.

R=Revised data. E=Estimate.

Notes: • Geographic coverage is the 50 States, the District of Columbia, Puerto Rico, the Virgin Islands, and all U.S. Territories and Possessions. • Values for Domestic First Purchase Price and Refiner Acquisition Cost for the current month and for F.O.B. and Landed Cost of Imports for the current 2 months are preliminary. • F.O.B. and landed costs through 1980 reflect the period of reporting; prices after 1980 reflect the period of loading • Annual averages are the averages of the monthly prices, weighted by volumes.

Sources: • Domestic First Purchase Price: 1973-1976-U.S. Department of the Interior (DOI), Bureau of Mines (BOM), Minerals Yearbook, "Crude Sources: • Domestic First Furchase Frice: 1973-1976-0.5. Department of the Interior (DOI), Bureau of Numes (BON), Numerals Fearbook, order 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 1992, 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." 1978 forward-EIA, Form FEA-F701-M-0, "Transfer Pricing Report." 1978 forward-EIA, Petroleum Marketing Monthly, May 1992, Table 1. • Refiner Acquisition Cost: 1973-EIA FEA-F701-M-0, "Transfer Pricing Report." 1978 forward-EIA, Petroleum Marketing Monthly, May 1992, 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 1992, Table 1.

l	Algeria	Indonesia	Iran	Mexico	Nigeria	Saudi Arabia	United Kingdom	Venezuela	Other Countries	Arab OPEC ^a	Total OPEC
973 Average ^c	7.23	5.67	4.24	NA	7.81	3.25					
974 Average	13.23	11.99	10.85	Ŵ	12.44	10.17	NA NA	5.39	4.84	4.06	5.43
975 Average	11.93	12.55	10.81	11.44	11.82	10.17	NA NA	10.71	10.02	10.96	11.33
976 Average	13.05	12.76	11.61	12.22	13.08	11.62		11.04	10.86	11.18	11.34
977 Average	14.35	13.57	12.68	13.42	14.44	12.38	W	11.39	11.92	12.06	12.23
978 Average	14.12	13.61	12.65	13.24	14.05		14.11	12.63	13.19	13.13	13.29
979 Average	20.53	19.03	22.93	20.27	21.69	12.70	13.82	12.38	13.35	13.28	13.31
80 Average	36.67	32.17	NA	31.06	35.93	17.28	21.70	16.90	21.10	19.27	19.88
981 Average	39.08	35.62	ີ (ີ)	33.01	35.93	28.17	34.36	24.81	34.34	31.57	32.21
82 Average	34.20	35.11	30.97	28.08		32.60	36.06	28.95	36.69	34.79	35.17
83 Average	30.09	29.92	28.39	25.20	35.13	33.73	33.42	23.74	31.96	33.84	33.48
84 Average	28.34	29.13	27.42	26.39	29.81	27.53	29.91	21.48	27.96	28.28	28.46
85 Average	26.89	27.12	W	25.33	29.51	27.67	28.87	24.23	27.79	27.79	27.79
86 Average	13.62	13.19	w	25.33 11.84	28.04	22.04	27.64	23.64	26.12	24.34	25.67
87 Average	16.79	17.40	Ŵ		14.35	11.36	13.84	10.92	13.32	11.59	12.21
88 Average	W	13.81	(⁴)	16.36	18.47	15.12	18.28	15.08	17.11	15.80	16.43
89 Average	ŵ	17.01	(°)	12.18	15.16	12.16	14.80	12.96	13.45	12.57	13.43
	••	17.01	(\cdot)	15.96	18.31	16,29	17.89	16.09	17.12	16.72	17.06
90 January	W	19.25	(d)	18.04	21.22	w	21.00	16.73	19.13	17.96	10.07
February	W	19.43	(ľ)	16.68	20.41	w	Ŵ	16.01	18.36	16.64	18.67
March	W	18.98	(ª)	16.24	18.41	Ŵ	ŵ	15.95	16.82		18.11
April	W	17.38	(ª)	13.30	16.79	11.44	16.13	15.57	14.77	14.98	16.85
May	w	16.19	(*)	12.11	16.50	12.97	15.69	14.60	14.77	13.02	15.09
June	w	15.20	(þ)	10.74	15.58	W	W	13.11	13.89	12.42	14.67
July	w	15.06	(a)	12.84	17.12	ŵ	15.10	16.66		14.56	14.59
August	w	19.12	(d)	21.16	25.65	31.09	21.18	24.33	17.79	20.27	18.17
September	w	W	(a)	27.04	32.74	Ŵ	33.05	24.33	22.63	28.97	25.44
October	w	35.41	(°)	29.15	37.31	28.73	32.53	26.39	30.02	28.02	29.23
November	w	w	زه ز	27.18	33.56	21.20	32.33 W		33.13	29.85	30.39
December	w	W	tه ز	22.58	29.38	14.41	Ŵ	22.96	29.56	23.39	26.77
Average	W	21.29	(þ)	19.26	22.46	20.36	23.43	20.41	25.32	16.17	21.87
			•			20.30	23.43	19.55	19.88	18.84	20.40
91 January	W	W	(d)	19.39	24.68	12.69	w	17.04	21.22	16.04	19.45
February	W	20.82	(ª)	13.62	20.48	14.06	Ŵ	14.50	17.12	14.56	16.73
March	W	W	(ď)	13.59	19.44	w	24.50	14.90	16.18	15.21	16.47
April	W	16.80	(°)	15.34	19.12	15.51	w	15.38	16.90	16.01	16.98
May	W	W	W	15.24	19.30	15.05	Ŵ	14.79	16.95	15.64	16.98
June	W	16.77	(^d)	14.65	18.38	14.88	Ŵ	13.54	16.33	15.54	16.10
July	W	w	W	15.25	19.44	w	19.45	14.85	17.44	15.52	16.73
August	W	w	W	15.49	20.12	15.74	W	14.62	17.82	16.33	17.07
September	W	W	W	15.39	21.08	16.10	20.24	15.52	18.79	16.96	17.60
October	W	18.17	W	16.93	22.55	17.20	W	16.44	19.52	17.95	18.80
November	W	W	(^ă)	16.31	21.60	15.49	21.67	14.78	18.97	16.88	17.63
December	W	W	(°)	13.47	18.99	^R 13.14	W	12.62	16.57	^R 14.59	^R 15.12
Average	W	18.67	15.42	15.38	20.27	^R 15.09	20.81	14.91	17.79	^R 15.97	^R 17.09
2 January	w	w	(d) (d)	^R 12.46	^R 18.58	13.01	(^d)	^R 12.32	Bicoc		
February	w	Ŵ)d(12.50	18.40	13.62	()	12.32	^R 15.36	14.23	^R 14.53

Table 9.2 F.O.B. Costs of Crude Oil Imports from Selected Countries

(Dollars per Barrel)

 ^a The Arab members of OPEC are Algeria, Iraq, Kuwait, Libya, Qatar, Saudi Arabia, and the United Arab Emirates.
 ^b "Total OPEC" consists of Ecuador, Gabon, Indonesia, Iran, Nigeria, and Venezuela, as well as the Arab members. The cost of imports from the Neutral COEC" Zone between Kuwait and Saudi Arabia is included in the cost of imports from "Total OPEC."

Based on October, November, and December data only.

^d No data reported.

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

Notes: • The Free on Board (F.O.B) cost at the country of origin excludes all costs related to insurance and transportation. See Note 2 at end of section. • Values for the current 2 months are preliminary. • Prices through 1980 reflect the period of reporting; prices after 1980 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.

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

Table 9.3 Landed Costs of Crude Oil Imports from Selected Countries

(Dollars per Barrel)

	Algeria	Canada	Indonesia	Iran	Mexico	Nigeria	Saudi Arabia	United Kingdom	Venezuela	Other Countries	Arab OPEC ^a	Total OPEC ^t
			L								F 00	6.85
973 Average ^c	8.39	5.33	7.22	6.48	NA	9.08	5.37	NA	5.99	6.99	5.92	12.49
974 Average	13.97	11.48	13.20	12.48	W	13.16	11.63	NA	11.25	12.93	12.39	12.49
75 Average	12.86	12.84	13.83	12.51	12.61	12.70	12.50	NA	12.36	12.66	12.71	
76 Average	13.90	13.36	13.85	12.86	12.64	13.81	13.06	W	11.89	13.36	13.31	13.32
77 Average	15.24	14.13	14.65	13.86	13.82	15.29	13.69	14.83	13.11	14.56	14.30	14.35
78 Average	14.93	14.41	14.65	13.89	13.56	14.88	13.94	14.53	12.84	14.58	14.36	14.34
79 Average	21.88	20.22	20.63	24.21	20.77	22.97	18.95	22.97	17.65	22.86	20.79	21.29
380 Average	37.92	30.11	33.92	NA	31.77	37.15	29.80	35.68	25.92	36.15	32.97	33.56
•	40.46	32.32	37.31	(⁶)	33.70	39.66	34.20	37.29	29.91	38.54	36.22	36.60
981 Average		27.15	36.70	32.46	28.63	36.16	34.99	34.25	24.93	34.03	35.15	34.81
982 Average	35.35		31.57	29.81	25.78	30.85	29.27	30.87	22.94	29.68	29.87	29.84
983 Average	31.26	25.63	30.87	28.70	26.85	30.36	29.20	29.45	25.19	29.21	29.10	29.06
984 Average	29.06	26.56		25.79	25.63	28.96	24.72	28.36	24.43	27.33	25.90	26.86
985 Average	27.51	25.71	28.67			15.29	12.84	14.63	11.52	14.25	13.14	13.46
986 Average	14.82	13.43	14.63	12.38	12.17		16.81	18.78	15.76	18.30	17.32	17.64
987 Average	17.87	17.04	18.49	18.28	16.69	19.32		15.82	13.66	14.45	13.60	14.16
988 Average	W	13.50	15.15	W	12.58	15.88	13.37			18.08	17.41	17.7
989 Average	19.13	16.81	18.35	(^d)	16.35	19.19	17.34	18.74	16.78	10.00	17.41	
990 January	w	18.52	20.86	(^d)	18.49	22.36	19.18	21.56	17.86	20.45	19.33	19.7
February	ŵ	18.52	21.21	<u>}</u> ø{	17.13	21.46	18.32	w	16.69	19.56	18.27	18.9
March		17.30	20.65	2 d S	16.64	19.69	16.63	20.61	16.64	18.22	16.65	17.6
April		15.65	18.98	ζaί	13.79	18.06	14.50	17.92	16.30	16.18	14.68	15.8
		15.44	17.83	ζđί	12.76	17.53	14.21	17.10	15.47	15.27	14.02	15.1
May		14.00	16.43) o (11.29	16.62	16.31	17.24	14.00	15.21	15.53	15.5
June		15.01	15.96) d (13.37	18.04	19.89	16.68	17.40	18.57	19.85	19.0
July			20.23	}d(21.50	26.71	28.84	23.80	25.08	23.23	26.97	26.3
August		21.26) d (27.38	33.41	30.06	30.26	28.56	29.46	30.10	30.2
September		27.80	26.88	a'	29.61	37.72	30.46	33.75	27.00	34.51	30.75	31.0
October		31.04	36.61	(d)		34.55	26.37	W 33.75	23.77	30.42	26.71	27.7
November		28.60	W		27.64		20.37	Ŵ	21.30	27.59	21.35	23.2
December		23.60	28.53	()	23.00	30.45			20.31	20.52	20.64	21.2
Average	W	20.48	22.50	(°)	19.64	23.33	21.82	22.65	20.31	20.52	20.04	
991 January	w	20.81	w	(^d)	19.98	26.00	18.56	w	18.35	24.07	18.98	20.2
February		17.05	22.61	(0)	14.23	21.66	16.15	w	15.76	19.42	16.26	17.4
March		15.20	20.03) d (14.15	20.60	17.07	25.77	16.18	18.59	17.22	17.8
April		16.26	18.80	(ه)	15.85	20.31	17.65	20.56	16.34	18.76	17.75	18.2
		16.28	W	`w′	15.81	20.50	17.29	20.21	15.85	19.55	17.45	17.9
May		16.22	18.25	(^{'d'})	15.16	19.78	16.95	19.35	14.54	18.36	17.10	17.3
June		17.20	17.70	17.03	15.85	20.68	17.36	20.41	15.92	18.82	17.49	17.8
July		17.60	W 17.75	W	15.74	21.15	17.79	20.71	15.63	19.27	17.95	18.2
August		17.60	Ŵ	Ŵ	15.79	22.09	18.25	21.16	16.43	20.34	18.48	18.7
September			19.64	Ŵ	17.32	23.66	18.76	22.07	17.26	20.88	19.06	19.6
October		18.38		, vv	16.51	23.66	17.06	22.71	15.67	21.02	17.50	18.2
November		17.53	21.05				^R 15.14	20.29	13.46	^R 18.67	^R 15.59	R 15.9
December		15.87	W		13.96	19.96	^R 17.34	20.29	15.92	19.72	R 17.57	R 18.1
Average	. W	17.17	20.15	17.38	15.88	21.36	17.34	¥1.30				
992 January	. w	14.83	w	(d) (d)	^R 13.02	^R 19.34	^R 14.66	w	^R 13.20	^R 17.40	^R 15.05	^R 15.3
February		15.57	ŵ) d (12.84	19.20	15.10	w	13.54	17.49	15.41	15.5

^a The Arab members of OPEC are Algeria, Iraq, Kuwait, Libya, Qatar, Saudi Arabia, and the United Arab Emirates.

^b "Total OPEC" consists of Ecuador, Gabon, Indonesia, Iran, Nigeria, and Venezuela, as well as the Arab members. The cost of imports from the Neutral Zone between Kuwait and Saudi Arabia is included in the cost of imports from "Total OPEC."

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

d No data reported.

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

Notes: • See Note 3 at end of section. • Values for the current 2 months are preliminary. • Prices through 1980 reflect the period of reporting; prices since then reflect the period of loading. • Annual averages are averages of the monthly prices, including prices not published, weighted by volume. • Cargoes that are purchased on a "netback" basis, or under similar contractual arrangements whereby the actual purchase price is not established at the time the crude oil is acquired for importation into the United States, are not included in the published data until the actual prices have been determined and reported.

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 1992, Table 22.

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

	Leaded Regular	Unleaded	Unleaded	
		Regular	Premium	All Types ^a
73 Average	38.8	NA	NA	
74 Average	53.2	NA	NA	NA
75 Average	56.7	NA		NA
6 Average	59.0		NA	NA
77 Average	62.2	61.4	NA	NA
78 Average	62.6	65.6	NA	· NA
79 Average		67.0	NA	65.2
BO Average	85.7	90.3	NA	88.2
B1 Average ^b	119.1	124.5	NA	122.1
P2 Average	131.1	137.8	^c 147.0	135.3
82 Average	122.2	129.6	141.5	128.1
B3 Average	115.7	124.1	138.3	122.5
B4 Average	112.9	121.2	136.6	119.8
85 Average	111.5	120.2	134.0	119.6
36 Average	85.7	92.7	108.5	93.1
87 Average	89.7	94.8	109.3	95.7
88 Average	89.9	94.6	110.7	96.3
B9 Average	99.8	102.1	119.7	106.0
90 January	100.6	104.2		
February	101.1		123.0	109.0
March	99.9	103.7	122.7	108.6
April	102.7	102.3	121.8	107.6
May		104.4	123.3	109.6
	104.4	106.1	124.8	111.4
June	107.7	108.8	127.1	114.0
July	108.9	108.4	127.2	113.9
August	119.8	119.0	136.9	124.6
September	129.7	129.4	146.7	134.7
October	135.4	137.8	155,4	143.1
November	135.1	137.7	155.9	143.2
December	133.5	135.4	153.7	141.0
Average	114.9	116.4	134.9	121.7
1 January	124.6	124.7	140.1	
February	113.7	114.3	143.1	130.4
March	104.7	108.2	132.1	119.8
April	106.2	110.2	126.4	113.8
May	NA		128.1	115.9
June	NA	115.6	133.1	120.9
July		116.0	133.8	121.4
	NA	112.7	131.3	118.5
August	NA	114.0	131.8	119.6
September	NA	114.3	132.4	119.9
October	NA	112.2	130.7	118.0
November	NA	113.4	131.8	119.3
December	NA	112.3	130.9	118.2
Average	NA	114.0	132.1	119.6
2 January	NA	107.3	126.7	1105
February	NA	107.3		113.5
March	NA		124.8	111.7
	1100	105.8	125.0	112.2

(Cents per Gallon, Including Taxes)

^a Also includes types of motor gasoline not shown separately.
 ^b In September 1981, the Bureau of Labor Statistics changed the weights used in the calculation of average motor gasoline prices. From September 1981 forward, gasohol is included in the average for all types, and unleaded premium is weighted more heavily.
 ^c Based on September through December data only.

NA=Not available.

Notes: • See Note 5 at end of section. • Geographic coverage for 1973-1977 is 56 urban areas. Geographic coverage for 1978 forward is 85 urban areas. Sources: • Monthly Data: U.S. Department of Labor, Bureau of Labor Statistics (BLS), *Consumer Prices: Energy.* • Annual Data: 1973—Platt's Oil Price Handbook and Oilmanac, 1974, 51st Edition. 1974 forward—calculated by the Energy Information Administration as the simple averages of monthly data.

Table 9.5 Refiner Prices of Residual Fuel Oil

(Cents per Gallon, Excluding Taxes)

	Sulfur Co	l Fuel Oll ntent Less al to 1 Percent	Sulfur	Fuel Oil Content In 1 Percent	Ave	rage
	Sales for Resale	Sales to End Users	Sales for Resale	Sales to End Users	Sales for Resale	Sales to End Users
	29.3	31.4	24.5	27.5	26.3	29.8
978 Average	29.3 45.0	46.8	36.6	38.9	39.9	43.6
979 Average		67.5	47.9	52.3	52.8	60.7
980 Average	60.8	82.9	62.2	67.3	66.3	75.6
981 Average	74.8	74.7	57.2	61.1	61.2	67.6
982 Average	69.5	69.5	59.1	61.1	60.9	65.1
983 Average	64.3	72.0	63.9	65.9	65.4	68.7
984 Average	68.5		56.0	58.2	57.7	61.0
985 Average	61.0	64.4	28.9	31.7	30.5	34.3
986 Average	32.8	37.2	26.9	39.6	38.5	42.3
987 Average	41.2	44.7	30.2 27.1	30.0	30.0	33.4
988 Average	33.3	37.2	33.1	34.4	36.0	38.5
989 Average	40.7	43.6	33.1		••••	
			42.0	45.2	48.2	52.2
990 January	56.0	60.1	42.0 34.6	37.3	38.1	43.7
February	44.4	51.5	31.9	35.5	34.8	40.2
March	39.7	45.4	31.2	32.6	33.4	35.5
April	36.1	39.6		31.4	30.5	34.1
Мау	34.5	37.9	28.3	27.6	27.1	30.4
June	31.1	34.2	24.8	28.4	29.1	31.9
July	33.2	36.3	25.4	39.4	44.5	44.1
August	49.1	50.7	41.4	46.2	50.9	50.7
September	56.4	59.4	46.1	40.2 54.8	57.7	60.5
October	64.1	68.6	53.1	53.9	55.6	58.7
November	63.3	66.5	49.7	50.2	48.6	55.5
December	57.6	62.2	43.0	40.0	41.3	44.4
Average	47.2	50.5	37.2	40.0	41.5	
004 1	51.4	59.4	48.7	49.7	49.7	53.4
991 January	34.9	43.7	32.3	37.1	33.4	39.7
February	36.2	38.2	24.2	28.2	28.2	32.3
March	33.6	37.6	25.8	27.1	28.7	30.2
April	36.5	36.6	27.7	27.6	30.3	31.0
May	32.0	35.3	28.6	26.9	29.7	29.5
	32.6	36.4	27.6	28.2	29.0	31.2
July	33.4	36.8	25.9	27.7	27.9	31.1
August	33.4	36.8	25.4	27.3	27.9	30.6
September	33.7 34.1	38.5	27.6	29.7	29.5	32.3
October	34.1	40.8	27.9	31.8	30.7	35.1
November		40.0	26.1	28.8	28.9	33.1
December Average	34.8 36.1	40.0	28.8	30.6	31.2	34.0
waaraga	~~					B oc 4
1992 January	30.7	^R 35.7	21.3	24.7	24.1	^R 29.1
February	33.2	36.2	20.7	23.7	24.7	28.0

Notes: • Sales for resale are those made to purchasers other than ultimate consumers. Sales to end users are those made directly to the ultimate consumer, including bulk customers, such as agriculture, industry, and electric utilities, as well as commercial customers. • Geographic coverage is the 50 States and the District of Columbia. • Values for the current month are preliminary. • Prices prior to 1983 are Energy Information Administration estimates. See Note 6 at end of section.

Sources: Energy Information Administration (EIA), Petroleum Marketing Monthly, May 1992, Table 17.

Table 9.6 Refiner Prices of Petroleum Products for Resale

	Finished Motor Gasoline ^a	Finished Aviation Gasoline	Kerosene- Type Jet Fuel	Kerosene	No. 2 Fuel · Oil	No. 2 Diesel Fuel	Propane (Consumer Grade)
1978 Average	43.4	F0 7				· · · · · · · · · · · · · · · · · · ·	
1979 Average	63.7	53.7	38.6	40.4	36.9	36.5	23.7
1980 Average	94.1	72.1	66.0	62.4	56.9	57.4	29.1
981 Average	106.4	112.8	86.8	86.4	80.3	80.1	41.5
982 Average	97.3	125.0	101.2	106.6	97.6	97.2	46.6
983 Average		122.8	95.3	101.8	91.4	91.4	42.7
984 Average	88.2	117.8	85.4	89.2	81.5	80.8	48.4
	83.2	116.5	83.0	91.6	82.1	80.3	45.0
985 Average	83.5	113.0	79.4	87.4	77.6	77.2	39.8
986 Average	53.1	91.2	49.5	60.6	48.6	45.2	29.0
987 Average	58.9	85.9	53.8	59.2	52.7	53.4	25.2
988 Average	57.7	85.0	49.5	54.9	47.3	47.3	24.0
89 Average	65.4	95.0	58.3	66.9	56.5	56.7	24.7
90 January	69.2	96.8	76.6	87.1	73.8	69.3	54.4
February	67.2	95.0	66.7	67.9	57.8	57.1	34.4 34.1
March	66.3	93.8	61.6	64.8	57.9	57.6	
April	69.7	96.4	59.5	62.4	57.4	57.6	27.1
Мау	72.7	97.4	57.1	59.2	54.5	55.4	25.2
June	72.3	99.5	54.6	53.9	49.4		24.0
July	70.6	100.2	55.5	57.1		50.5	24.9
August	85.5	110.4	71.4	80.7	51.9	52.0	27.3
September	94.9	122.2	92.9	100.4	72.1	73.7	36.3
October	98.6	127.9	52.5 114.7		85.3	87.2	43.5
November	95.4	126.2		115.7	95.0	99.4	53.5
December	80.2	116.1	107.0	106.6	90.6	93.6	50.5
Average	78.6	106.3	90.1	92.6	80.9	79.8	44.6
-	70.0	100.3	77.3	83.9	69.7	69.4	38.6
91 January	76.1	110.8	82.2	87.9	76.3	75.5	42.2
February	68.0	104.1	73.8	75.7	67.8	67.4	31.6
March	67.2	97.4	62.2	66.0	59.6	57.7	31.3
April	70.7	97.8	58.8	62.8	57.2	57.4	31.6
May	74.2	100.3	60.8	60.7	56.0	57.2	32.0
June	70.5	99.5	58.8	58.8	54.0	54.5	29.3
July	69.1	98.9	59.4	63.0	56.7	57.1	27.6
August	72.7	100.2	63.3	66.9	60.6	61.8	29.6
September	69.1	99.9	65.9	68.7	62.1	62.9	29.0 34.9
October	68.8	98.8	67.0	73.5	66.3	65.6	
November	69.9	99.5	68.2	74.6	66.6	66.5	40.2
December	62.9	97.3	60.1	62.6	55.9		43.0
Average	69.9	100.1	65.0	72.0	62.2	55.6 61.5	37.7 34.8
92 January	59.9	^R 94.9	^R 53.9	60.0	53.0	Rei i	
February	61.7	93.1	55.2		52.0	^R 51.4	30.9
,	V1.7	30.1	00.4	62.2	54.1	54.1	30.2

(Cents per Gallon, Excluding Taxes)

^a See Note 5 at end of section.

R=Revised data. Notes: • Sales for resale are those made to purchasers other than ultimate consumers. Sales to end users are those made directly to the ultimate consumer, including bulk customers, such as agriculture, industry, and electric utilities, as well as residential and commercial customers. • Geographic coverage is the 50 States and the District of Columbia. • Values for the current month are preliminary. • Prices prior to 1983 are Energy Information Administration estimates. See

Sources: Energy Information Administration (EIA), Petroleum Marketing Monthly, May 1992, Table 4.

Table 9.7 Refiner Prices of Petroleum Products to End Users

(Cents per Gallon, Excluding Taxes)

	Finished Motor Gasoline ^a	Finished Aviation Gasoline	Kerosene- Type Jet Fuel	Kerosene	No. 2 Fuel Oil	No. 2 Diesel Fuel	Propane (Consume Grade)
079 Average	48.4	51.6	38.7	42.1	40.0	37.7	33.5
978 Average	71.3	68.9	54.7	58.5	51.6	58.5	35.7
979 Average	103.5	108.4	86.8	90.2	78.8	81.8	48.2
980 Average	114.7	130.3	102.4	112.3	91.4	99.5	56.5
981 Average	106.0	131.2	96.3	108.9	90.5	94.2	59.2
982 Average		125.5	87.8	96.1	91.6	82.6	70.9
983 Average	95.4	125.5	84.2	103.6	91.6	82.3	73.7
984 Average	90.7	123.4	79.6	103.0	84.9	78.9	71.7
985 Average	91.2		52.9	79.0	56.0	47.8	74.5
986 Average	62.4	101.1		79.0	58.1	55.1	70.1
987 Average	66.9	90.7	54.3	73.8	54.4	50.0	71.4
988 Average	67.3	89.1	51.3		54.4 58.7	58.5	61.5
989 Average	75.6	99.5	59.2	70.9	50.7	50.5	01.5
990 January	78.8	102.0	79.8	101.7	81.2	76.5	90.8
February	76.5	102.4	68.4	82.6	64.3	61.9	82.6
March	75.1	100.9	63.2	84.1	62.8	60.6	71.5
April	77.9	101.4	60.7	76.6	61.9	60.3	68.5
May	80.2	103.6	58.1	67.0	57.5	58.4	54.8
June	81.5	104.2	55.7	59.9	51.4	54.0	57.4
	80.8	103.9	55.4	60.0	53.6	55.0	55.6
July	92.4	112.8	70.7	90.6	74.2	76.2	64.7
August	101.2	125.6	92.1	104.4	87.3	88.4	72.5
September	101.2	134.4	116.8	121.2	99.4	101.0	76.9
October	103.7	131.7	108.4	119.6	93.5	96.0	84.6
November	98.4	122.5	90.9	112.1	86.8	85.9	85.3
December Average	88.3	112.0	76.6	92.3	73.4	72.5	74.5
	00.7	112.1	81.6	105.0	84.5	80.4	86.6
991 January	88.7		73.7	93.5	75.3	71.3	81.3
February	79.6	106.4		88.8	64.8	61.7	76.0
March	74.1	101.3	62.1 58.7	73.8	61.6	60.6	69.8
April	77.1	101.1	58.7 60.1	69.3	58.9	60.1	66.0
May	82.1	105.3		62.3	56.3	57.9	62.1
June	81.9	105.2	59.3 50.7	62.3	59.1	59.5	60.6
July	79.0	103.6	59.7		62.3	63.3	63.4
August	81.2	105.8	63.8	68.7	63.9	64.8	64.4
September	80.2	105.7	66.6	73.6	68.5	68.1	68.0
October	78.2	104.6	67.8	81.6		69.7	73.8
November	79.1	104.3	69.6	94.3	70.8	60.9	78.2
December	76.0	102.0	61.5	85.8	63.0		78.2
Average	79.7	104.7	65.3	83.6	66.7	64.8	12.8
1992 January	71.2	98.5	54.2	82.7	^R 59.9	55.5	74.2
February	70.2	98.5	56.5	78.0	62.0	57.0	66.8

^a See Note 5 at end of section.

R=Revised data.

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

Sources: Energy Information Administration (EIA), Petroleum Marketing Monthly, May 1992, Table 2.

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

	Maine	New Hampshire	Vermont	Massachusetts	Rhode Island	Connecticut	New York	New Jersey	Pennsylvania
978 Average	48.6	50.3	50.8	48.8	50.7	50.1	50.1	49.6	48.8
979 Average	68.8	72.5	72.5	70.9	72.8	72.0	71.2	71.0	69.8
980 Average	96.3	100.4	101.5	97.8	101.1	98.3	98.2	97.9	96.4
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	120.5		
984 Average	103.9	108.4	111.9	111.6	111.4	112.1	115.5	107.9	105.8
985 Average	99.7	102.4	107.7	107.0	106.7	108.0		111.0	107.9
986 Average	74.4	75.9	86.6	82.1	82.8		111.3	105.9	102.3
987 Average	74.7	76.5	81.1	80.6		89.0	91.1	90.2	81.4
988 Average	77.7	78.2	82.6		82.5	83.4	85.2	84.3	76.9
989 Average	89.4	89.3		82.1	83.6	85.3	86.3	84.8	77.8
303 Average	03.4	09.3	90.5	92.6	93.9	92.9	95.8	91.8	85.1
990 January	116.1	118.5	121.5	117.0	122.5	120.0	122.2	117.3	113.7
February	85.4	96.2	98.7	99.8	98.5	100.8	103.2	99.5	93.4
March	84.0	93.2	95.6	98.7	97.3	97.7	101.6	98.5	90.3
April	83.2	90.1	94.2	95.1	95.9	96.3	100.2	96.5	87.6
May	81.2	87.0	91.7	92.4	93.9	92.7	98.9	94.4	84.4
June	76.7	82.8	87.2	88.9	89.1	87.1	94.5	9 4.4 88.6	
July	74.2	80.7	85.4	88.0	86.9	85.4	93.0	85.4	78.3
August	97.7	99.2	97.4	102.3	102.3	104.1	102.3		74.3
September	118.4	110.9	114.4	118.1	118.8	114.7		102.1	92.5
October	126.0	119.8	124.2	126.8	120.1	128.2	117.9	117.2	108.7
November	116.4	116.2	123.7	122.8	119.5		130.2	129.4	122.3
December	113.4	111.2	119.6	120.0		128.1	129.6	126.8	122.5
Average	98.9	102.8	107.0		115.3	124.7	126.6	122.2	119.3
Avorago	30.3	102.0	107.0	108.4	108.6	109.8	112.5	108.7	102.6
91 January	114.4	107.2	117.5	117.2	112.9	122.6	123.7	119.7	117.7
February	105.9	100.7	111.3	111.3	109.5	116.0	119.7	113.3	110.9
March	95.4	90.5	104.0	102.7	101.6	109.0	112.8	104.3	101.8
April	87.1	83.9	98.3	96.1	94.6	101.4	106.7	97.6	95.5
Мау	81.9	79.4	93.5	91.7	89.7	96.5	101.1	93.5	89.9
June	79.4	77.3	91.3	88.9	87.1	92.7	97.9	90.3	85.7
July	82.2	77.6	88.1	88.4	88.8	90.0	93.9	88.5	80.8
August	83.4	80.6	88.6	88.7	88.7	89.7	92.9	89.0	81.8
September	87.3	84.2	91.9	90.9	90.3	92.0	98.7	92.3	83.3
October	91.3	87.8	93.9	94.9	94.9	96.3	103.4	97.1	88.7
November	95.1	90.1	95.6	97.4	95.8	99.8	108.2	100.6	93.5
December	89.3	88.8	94.1	95.8	93.4	98.3	105.9	97.1	
Average	96.0	91.6	101.8	102.8	99.8	106.1	111.1	97.1 104.0	93.0 99.7
92 January	87.6	^R 88.3	92.4	^R 93.1	00.4	00.4	B too o		
February	88.1	86.1	92.4 93.2		90.4	96.4	^R 103.3	^R 95.8	^R 91.4
· 30/14/17	00.1	00.1	83.2	92.4	92.2	95.5	103.7	95.4	90.9

(Cents per Gallon, Excluding Taxes)

See footnotes at end of Table 9.8c.

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

(Cents per Gallon, Excluding Taxes)

	Delaware	District of Columbia	Maryland	Virginia	West Virginia	Ohio	Michigan	Indiana	lilinois	Wisconsin	Minnesota
1978 Average	47.8	50.7	49.2	49.1	46.2	47.4	47.9	48.5	46.5	44.7	47.8
1979 Average	68.2	74.2	70.1	70.4	65.1	68.6	70.9	72.7	68.8	67.3	72.4
1980 Average	95.4	102.6	97.9	98.5	92.2	91.9	97.8	99.6	95.8	91.5	99.9
1981 Average	117.3	127.4	121.4	120.5	115.0	113.2	118.3	118.5	114. 9	109.1	118.4
1982 Average	111.3	124.5	117.1	117.7	109.3	110.2	113.9	114.3	110.9	107.8	115.1
1983 Average	106.0	117.0	110.3	108.7	101.0	101.3	106.4	100.7	100.4	101.2	103.1
1984 Average	109.6	118.7	113.5	110.5	102.1	102.1	105.0	103.1	100.1	101.0	104.1
1985 Average	104.6	114.3	108.8	106.3	98.0	99.7	102.1	99.1	97.5	98.3	101.9
1986 Average	85.0	93.1	91.4	86.6	74.6	77.7	81.0	74.8	NA	75.6	79.2
1987 Average	79.3	91.8	86.6	79.5	76.4	74.7	77.5	75.4	79.8	75.1	74.6
1988 Average	80.1	91.6	87.0	80.5	74.2	74.7	77.5	75.4	77.6	73. 9	73.5
1989 Average	88.2	98.6	93.8	87.0	83.0	81.6	85.3	83.2	80.9	81.1	82.4
1990 January	119.4	119.0	119.8	117.8	109.2	96.0	103.5	99.8	94.9	91.6	99.7
February	97.1	96.4	100.9	102.9	89.5	82.8	92.1	86.2	83.1	83.9	88.1
March	93.2	94.4	98.8	97.9	87.1	82.5	88.7	83.8	83.4	83.1	85.6
April	91.8	93.1	97.5	94.9	83.7	82.3	86.5	84.1	82.2	82.9	85.6
May	90.1	94.2	94.9	90.4	83.0	83.1	83.7	82.4	78.3	81.0	85.1
June	83.2	93.2	89.4	88.0	83.4	82.6	81.1	72.8	73.8	79.5	80.3
July	77.9	97.6	86.2	89.8	79.2	81.6	82.4	74.7	76.7	77.6	82.8
August	93.1	107.1	100.2	102.4	98.1	93.3	100.3	98.0	96.9	92.0	101.4
September	112.0	116.1	115.7	114.7	116.3	115.3	113.2	110.7	NA	107.1	111.6
October	119.8	134.3	130.8	128.3	124.4	120.9	124.1	123.3	116.9	117.2	120.7
November	118.8	133.3	130.4	125.6	121.7	117.0	121.2	117.8	113.1	114.4	119.8
December	113.7	128.4	125.3	122.8	113.1	111.8	113.5	111.3	104.9	108.3	111.2
Average	105.8	107.8	111.9	110.6	99.1	98.1	100.9	99.3	96.1	94.2	101.4
1991 January	113.0	124.1	122.7	117.7	110.4	105.5	109.1	105.8	102.4	102.4	105.5
February	105.4	118.6	116.1	110.5	101.2	94.5	97.0	95.4	93.0	92.3	93.6
March	98.4	112.3	107.7	102.6	90.8	85.8	90.9	87.9	85.9	87.6	87.2
April	92.3	105.6	102.8	96.2	87.4	83.2	90.9	85.7	88.3	84.0	87.7
May	91.4	101.1	98.8	90.7	85.5	83.1	88.5	86.3	88.5	82.9	88.0
June	83.1	94.6	95.9	87.8	83.5	80.7	87.5	80.3	86.8	80.8	87.0
July	81.5	98.6	93.7	86.9	81.7	79.6	83.4	79.1	82.2	78.0	84.3
August	85.8	98.6	94.0	87.5	82.3	81.1	84.5	85.5	86.5	78.8	NA
September	87.3	101.7	96.7	90.7	84.7	84.8	86.6	85.5	86.9	82.7	83.7
October	92.8	104.0	100.0	93.9	89.5	88.7	89.4	85.8	88.7	85.4	86.6
November	96.9	107.3	103.4	96.7	91.8	91.8	92.7	87.1	92.4	90.2	89.2
December	94.9	107.7	102.6	95.2	89.0	85.9	89. 9	82.9	89.8	85.4	84.5
Average	99.7	112.1	108.7	101.4	93.2	91.0	93.8	91.7	92.6	89.5	91.1
1992 January	94.4	^R 107.3	^R 101.5	^R 94.2	85.5	^R 81.9	86.6	77.0	^R 85.2	^R 80.6	^R 79.5
February		107.3	100.8	93.7	86.9	82.0	86.1	78.2	85.5	80.5	79.5

See footnotes at end of Table 9.8c.

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

(Cents per Gallon, Excluding Taxes)

	idaho	Washington	Oregon	Alaska	U.S. Average
978 Average	43.6	48.6	45.8	53.2	49.0
979 Average	62.1	69.7	68.0	68.2	70.4
80 Average	91.6	100.8	97.3	97.8	97.4
81 Average	110.4	116.5	111.4	118.0	119.4
82 Average	110.4	117.6	111.6	117.4	116.0
83 Average	101.8	109.0	103.6	108.8	107.8
84 Average	98.5	102.6	99.3	106.9	107.8
85 Average	97.2	101.1	97.1	108.3	105.3
86 Average	73.8	77.5	70.4	94.9	83.6
87 Average	68.8	79.5	72.5	86.5	
988 Average	68.8	78.5	70.9	86.9	80.3
89 Average	77.8	87.4	80.2	96.4	81.3
to Average	77.0	07.4	00.2	90.4	90.0
90 January	85.8	96.0	88.7	96.5	114.0
February	80.9	89.0	83.9	97.4	96.5
March	80.9	88.6	84.3	102.6	94.9
April	81.7	90.0	85.0	96.5	93.2
May	79.5	84.9	84.6	99.3	90.7
June	74.8	85.0	81.9	100.5	86.4
July	70.5	76.2	79.3	93.5	83.7
August	90.7	89.5	95.3	113.7	98.8
September	108.3	115.8	111.9	122.3	114.2
October	121.0	133.3	128.1	129.7	125.8
November	127.3	134.2	127.1	128.6	
December	119.9	121.9	109.2	128.2	124.1
Average	97.4	102.9	97.0		119.7
	57.4	172.3	57.0	110.1	106.3
91 January	110.8	118.4	108.3	129.3	116.8
February	97.3	112.0	102.9	122.8	110.3
March	84.1	95.3	89.4	109.5	102.6
April	83.5	94.0	86.4	101.9	96.9
Мау	84.4	94.9	86.5	101.3	92.5
June	83.4	91.7	85.6	98.2	89.3
July	80.0	85.4	84.5	98.6	86.6
August	84.6	92.3	87.3	96.8	87.0
September	87.4	93.5	90.8	92.4	89.6
October	87.6	94.8	89.1	93.2	94.0
November	94.7	99.5	90.5	95.7	97.9
December	94.7	96.2	86.9	95.2	95.9
Average	95.3	101.7	93.4	105.2	101.8
92 January	^R 86.1	^R 92.3	^R 84.8	, ^R 92.5	94.1
February	79.2	91.6	83.4	91.0	94.1

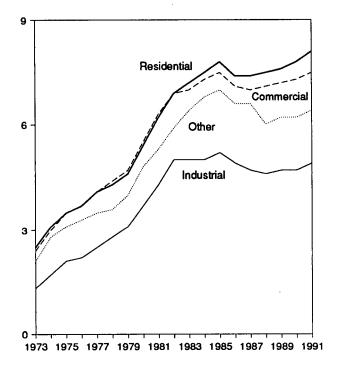
R=Revised data.

Notes: • States are grouped in Tables 9.8a, 9.8b, and 9.8c by geographic region of the country. • Values for the current month are preliminary. • Prices prior to 1983 are Energy Information Administration estimates. See Note 6 at end of section. Sources: Energy Information Administration (EIA), *Petroleum Marketing Monthly*, May 1992, Table 16.

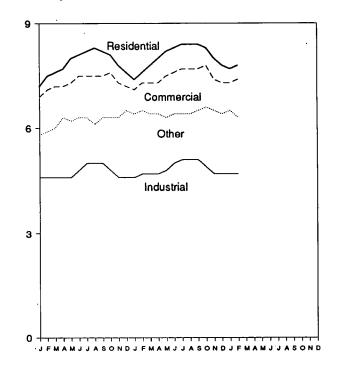
Figure 9.2 Electricity Retail Prices

(Cents per Kilowatthour)

Prices by Sector, 1973-1991



Prices by Sector, Monthly

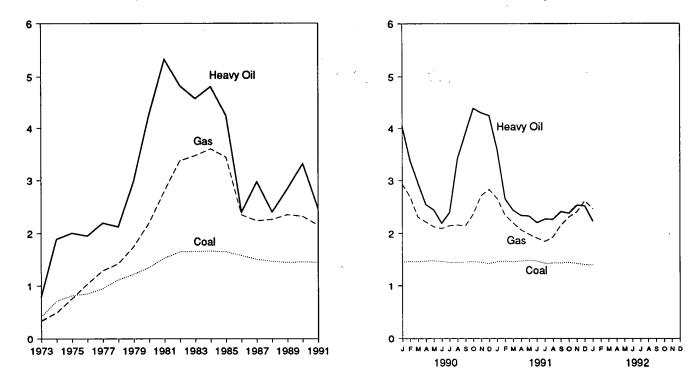


Source: Table 9.9, Monthly Series.

Figure 9.3 Cost of Fossil-Fuel Receipts at Steam-Electric Plants (Dollars per Million Btu)

Fossil Fuels Costs, 1973-1991

Fossil Fuel Costs, Monthly



Source: Table 9.10.

Table 9.9 Electricity Retail Prices

(Cents per Kilowatthour)

	Resid	ential	Comm	ercial	Indus	strial	Oth	er ^a	Tot	al ^b
	Monthly Series ^c	Annual Series	Monthly Series ^c	Annuai Series	Monthly Series ^c	Annual Series	Monthly Series ^c	Annual Series	Monthly Series ^c	Annua Series
1973 Average	2.5	NA	2.4	NA	1.3	NA	2.1	NA		N.A.
1974 Average	3.1	NA	3.0	NA	1.3	NA		NA	2.0	NA
1975 Average	3.5	NA					2.8	NA	2.5	NA
· · · · · · · · · · · · · · · · · · ·	3.5 3.7		. 3.5	NA	2.1	NA	3.1	NA	2.9	NA
1976 Average		NA	3.7	NA	2.2	NA	3.3	NA	3.1	NA
977 Average	4.1	NA	4.1	NA	2.5	NA	3.5	NA	3.4	NA
978 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
980 Average	5.4	NA	5.5	NA	3.7	NA	4.8	NA	4.7	NA
981 Average	6.2	NA	6.3	NA	4.3	NA	5.3	NA	5.5	NA
982 Average	6.9	NA	6.9	NA	5.0	NA	5.9	NA	6.1	NA
983 Average	7.2	NA	7.0	NA	5.0	NA	6.4	NA	6.3	NA
984 Average	7.5	7.2	7.3	7.1	5.0	4.8	6.8	5.9	6.5	6.3
985 Average	7.8	7.4	7.5	7.3	5.2	5.0	7.0	6.1	6.7	6.4
986 Average	7.4	7.4	7.1	7.2	4.9	4.9	6.6	6.1	6.4	6.4
987 Average	7.4	7.4	7.0	7.1	4.7	4.8	6.6	6.2	6.3	6.4
988 Average	7.5	7.5	7.1	7.0	4.6	4.7	6.0	6.2	6.3	
989 Average	7.6	7.6	7.2	7.2	4.7	4.7				6.4
	1.4	7.0	1.4	1.6	4.7	4.7	6.2	6.2	6.4	6.5
990 January	7.2	-	6.9	• -	4.6	-	5.8	-	6.3	-
February	7.5	-	7.1	-	4.6	-	5.9	-	6.3	-
March	7.6	-	7.2	-	4.6	-	6.0	-	6.4	-
April	7.7	-	7.2	-	4.6	-	6.3	-	6.4	_
Мау	8.0	-	7.3	-	4.6	-	6.2	-	6.5	-
June	8.1	-	7.5	-	4.8	-	6.3	-	6.7	-
July	8.2	-	7.5	-	5.0		6.3	-	6.9	_
August	8.3	_	7.5	-	5.0	_	6.1	_	6.9	_
September	8.2	-	7.5	_	5.0	-	6.3	-	6.9	_
October	8.1	-	7.6	_	4.8	-	6.3	_	6.7	_
November	7.8	-	7.3	_	4.6	_	6.3	-	6.5	-
December	7.6	_	7.2	_	4.6	-	6.5	_	6.4	-
Average	7.8	7.8	7.3	7.3	4.0	4.7				
Atologo	7.0	7.0	7.5	7.5	4.7	4.7	6.2	6.4	6.6	6.6
991 January	7.4	-	7.1	-	4.6	-	6.4	-	6.4	-
February	7.6	-	7.3	-	4.7	-	6.5	-	6.5	-
March	7.8	-	7.3	-	4.7		6.4	-	6.6	-
April	8.0	-	7.3 ·	-	4.7	-	6.4	-	6.5	-
Мау	8.2	-	7.5	-	4.8	-	6.3	-	6.7	-
June	8.3	-	7.6	-	5.0	-	6.4	-	6.9	-
July	8.4	-	7.7	-	5.1	-	6.4	-	7.1	-
August	8.4	-	7.7	-	5.1	-	6.4	-	7.1	-
September	8.4	-	7.7	-	5.1		6.5	-	7.0	_
October	8.3	-	7.8	-	4.9	<u> </u>	6.6	-	6.9	-
November	8.0	-	7.4	-	4.7	_	6.5	-	6.6	<u> </u>
December	7.8	-	7.3		4.7	_	6.4	-	6.6	_
Average	8.1	NA	7.5	NA	4.9	ŇA	6.4	NA	6.8	NA
					4.7					
992 January	7.7	-	7.3	-	4.7	-	6.5	-	6.6	-
February	7.8	-	7.4	-	4.7	-	6.3		6.6	-
2-Month Average	7.7	-	7.3	-	4.7	-	6.4	-	6.6	-
991 2-Month Average	7.5	-	7.2	-	4.7	-	6.4	_	6.5	-
990 2-Month Average	7.3	-	7.0	-	4.6	-	5.9	-	6.3	

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

^b Average price for total sales to ultimate consumers.

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

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

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

Sources: 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 Operating Revenue and Income." March 1980-December 1980—FERC, Form FERC-5, "Electric Company Monthly Statement." 1981 and 1990 monthly data—Energy Information Administration (EIA), *Electric Power Monthly*, March 1992, Table 59. 1982 forward (except 1990 monthly data)—EIA, *Electric Power Monthly*, May 1992, Table 59.

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

	C	oal		Petro	leum		Ga	sa	All Fossil Fuels ^b
	_		Heav	y Oil ^b	Tot	al ^{b,c}			
	Quantity (thousand short tons)	Cost (cents per million Btu)	Quantity (thousand barrels)	Cost (cents per million Btu)	Quantity (thousand barrels)	Cost (cents per million Btu)	Quantity (million cubic feet)	Cost (cents per million Btu)	Cost (cents per million Btu)
1973 Year	374,842	40.5	512,650	78.5	535,859	80.0	3,382,677	33.8	47.6
1974 Year	384,868	70.9	479,166	189.0	515,217	191.0	3,225,203	48.2	91.4
1975 Year	431,527	81.4	457,582	200.5	510,352	202.3	3,034,808	75.2	104.4
1976 Year	454,858	84.8	495,363	195.2	549,973	199.0	2,962,811	103.4	111.9
1977 Year	490,415	94.7	563,685	219.8	635,556	224.9	3,106,403	129.1	129.7
1978 Year	476,169	111.6	546,197	212.5	616,040	219.1	3,140,654	142.2	141.1
1979 Year	556,558	122.4	479,705	298.8	515,695	307.2	3,368,976	174.9	163.9
1980 Year	593,995	135.1	394,159	426.7	419,140	435.1	3,588,814	219.9	192.8
1981 Year	579,374	153.2	327,477	533.4	345,544	542.5	3,573,558	280.5	225.6
1982 Year	601.427	164.7	228.200	483.2	239,111	492.2	3,161,348	337.6	224.9
1983 Year	592,728	165.6	211,705	457.8	219,652	462.8	2,732,248	347.4	220.6
	684,111	166.4	193,832	481.2	202,372	486.3	2,878,808	360.3	219.1
1984 Year	666.743	164.8	156,410	424.4	164.947	431.7	2,808,921	344.4	209.4
1985 Year				240.1	228.522	243.7	2,387,622	235.1	175.0
1986 Year	686,964	157.9	220,585	297.6	194,578	301.1	2,605,191	224.0	170.6
1987 Year	721,298	150.6	187,300	297.0	236,924	243.9	2,362,721	226.3	164.3
1988 Year	727,775	146.6	230,234	284.6	246,422	289.3	2,472,506	235.5	167.5
1989 Year	753,217	144.5	237,668	204.0	240,422	209.3	2,472,300	233.5	107.0
1000 100000	67.636	144.6	26,481	403.9	27,415	409.6	126,806	293.8	182.3
1990 January	• •			338.2	19,683	340.7	113,552	269.3	171.2
February	62,296	146.6	19,190	295.2	15,494	299.3	166.055	231.0	163.1
March	67,536	145.7	15,023		•	260.4	181,153	221.7	162.1
April	63,888	147.3	13,521	254.7	13,977		•	212.5	162.4
May	64,958	147.8	15,000	244.7	15,534	250.6	220,420		161.9
June	63,649	146.6	18,068	219.4	18,612	224.1	267,995	209.3	164.8
July	63,427	144.6	22,149	239.9	22,783	243.8	294,671	214.6	169.1
August	70,571	144.5	18,773	341.1	19,321	346.2	304,429	215.9	
September	65,715	144.7	13,520	389.9	14,038	397.8	269,002	214.3	168.6
October	69,170	146.2	13,254	438.8	13,969	452.4	225,855	236.8	173.2
November	65,393	144.8	13,378	430.1	13,900	439.0	164,781	271.9	174.0
December	62,386	142.4	13,923	424.7	14,625	434.0	156,262	283.1	174.3
Year	786,627	145.5	202,281	331.9	209,350	338.4	2,490,979	232.1	168. 9
			44 470	359.5	12.325	373.8	164,872	266.8	170.2
1991 January	63,356	145.7	11,478			275.7	137,559	234.7	161.3
February	61,059	146.9	10,417	265.6	10,887 11.667	275.7	182,833	234.7	159.2
March	63,537	145.4	11,269	244.2	,	239.5	203,862	206.7	160.3
April	60,747	147.3	13,119	234.2	13,468	239.5	203,862	198.2	160.8
May	63,005	148.3	14,730	233.1	15,276			198.2	159.3
June	61,488	147.2	17,122	220.2	17,671	226.1	244,415		159.3
July	64,752	142.7	17,169	227.2	17,701	233.0	310,723	184.6	
August	69,552	143.2	16,831	226.7	17,298	232.4	306,419	192.7	156.7
September	65,071	143.4	15,590	241.4	16,063	247.7	248,900	215.4	160.3
October	66,043	144.4	9,658	238.3	10,287	252.8	251,431	231.0	161.6
November	62,634	142.8	11,289	253.4	11,832	264.4	186,721	240.7	160.5
December	65,318	140.1	14,453	252.2	15,120	260.3	159,214	261.9	159.5
Year	766,562	144.7	163,125	246.4	169,593	254.7	2,630,372	215.3	160.4
1992 January	64,551	139.9	12,039	223.2	12,535	229.9	159,873	247.0	155.5

 ^a Includes supplemental gaseous fuels.
 ^b Heavy fuel oil includes fuel oils No. 4, No. 5, and No. 6, and topped crude oil. The weighted averages for petroleum and all fossil fuels include both heavy and light oil (No. 2 fuel oil, kerosene, and jet fuel) prices. Data do not include petroleum coke.

Data for 1973-1982 do not include small quantities of rerefined motor oil, bunker oil, and liquefied petroleum gas.

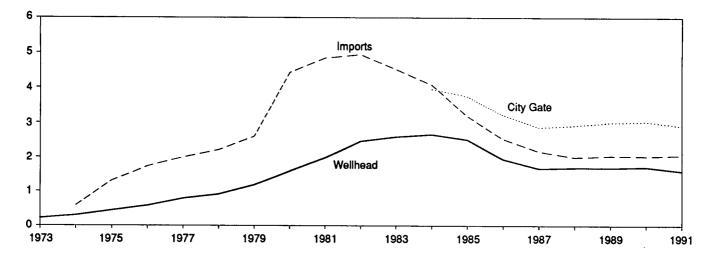
Notes: • Data for 1973-1982 cover all electric generating plants at which the generator nameplate capacity of all steam-electric units combined totaled 25 megawatts or greater. From 1974-1982, peaking units were included in the data and counted towards the 25-megawatt-or-greater total. Data for 1983-1990 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 combined could so megawatts or greater. • Geographic coverage is the 50 States and the District of Columbia.

Sources: • 1973-1979: Annual data for quantity are simple sums of unrounded monthly values and for cost are averages of monthly values, weighted by quantities, 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 forward: EIA, Electric Power Monthly, May 1992, Table 33.

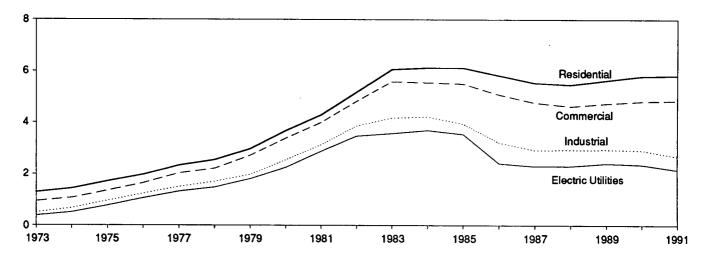
Figure 9.4 Natural Gas Prices

(Dollars per Thousand Cubic Feet)

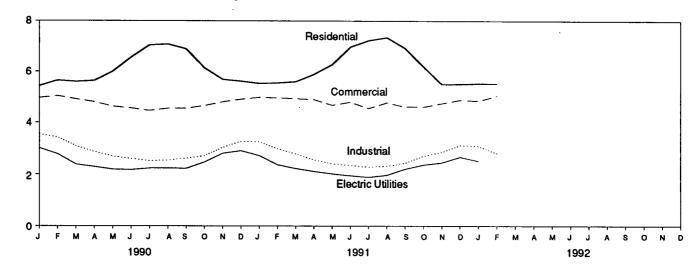
Selected Prices, 1973-1991



Delivered to Consumers, 1973-1991



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)

			or Interstate le Companies			Delivered to C	onsumers ^{a,b}	
	Wellhead	Imports	Purchases from Producers	City Gate	Residential	Commercial	Industrial	Electric Utilities ^b
1973 Average	0.22	NA	NA	NA	1.29	0.94	0.50	0.38
1974 Average	.30	.59	.27	NA	1.43	1.07	.67	.51
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
	.79	1.99	.70	NA	2.35	2.04	1.50	1.32
977 Average	./5	2.21	.83	NA	2.55	2.04	1.50	1.48
978 Average	1.18	2.60		NA	2.98	2.73	1.99	1.81
979 Average	1.59	4.42	1.63	NA	3.68	3.39	2.56	2.27
980 Average	1.98	4.84	2.15	NA	4.29	4.00	3.14	2.89
981 Average								
982 Average	2.46	4.94	2.72	NA	5.17	4.82	3.87	3.48
983 Average	2.59	4.51	2.93	NA	6.06	5.59	4.18	3.58
984 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 January	2.23	2.04	2.42	3.24	5.43	4.97	3.53	3.00
February	1.85	2.25	2.17	3.10	5.65	5.04	3.41	2.76
March	1.55	1.99	1.94	2.94	5.60	4.92	3.08	2.37
April	1.49	2.00	2.17	2.83	5.64	4.81	2.85	2.28
May	1.47	2.08	1.98	2.81	6.00	4.63	2.68	2.18
June	1.48	1.91	2.18	3.00	6.56	4.56	2.58	2.16
July	1.49	1.88	2.00	3.03	7.04	4.46	2.50	2.22
August	1.51	1.93	1.86	2.91	7.08	4.55	2.52	2.23
September	1.56	1.89	1.93	2.92	6.89	4.55	2.60	2.21
October	1.76	1.90	2.18	2.81	6.14	4.66	2.69	2.45
November	1.94	2.21	2.45	3.14	5.69	4.81	3.02	2.79
December	2.04	2.27	2.58	3.19	5.62	4.91	3.25	2.89
Average	1.71	2.03	2.19	3.03	5.80	4.82	2.93	2.38
991 January	1.94	2.24	2.23	3.08	5.53	4.98	^R 3.23	2.70
February	1.59	2.12	1.98	2.94	5.55	4.97	^R 2.97	2.35
March	1.47	1.94	2.06	2.79	5.60	4.93	R 2.77	2.21
April	1.47	2.05	1.91	2.75	5.89	4.90	2.54	2.10
May	1.44	2.00	2.04	2.77	6.28	4.68	^R 2.39	2.01
June	1.39	2.05	1.98	2.85	6.97	R4.80	2.33	1.94
July	1.29	2.13	1.87	2.76	7.23	4.55	2.27	1.88
August	1.37	1.71	1.77	2.80	7.35	R4.78	P 2.30	1.96
September	1.54	1.85	1.81	2.93	6.92	^R 4.61	R 2.42	2.19
October	1.74	2.24	1.96	2.93	6.20	^R 4.61	P 2.69	2.35
November	1.83	2.20	2.01	2.93	5.50	R4.75	R 2.84	2.43
December	1.93	2.09	2.13	3.06	5.51	^R 4.88	^R 3.10	2.65
Average	1.59	2.05	2.01	2.91	5.82	^R 4.85	R 2.69	2.03
MAAIONA	1.38	2.00	T'A I					2.10
992 January	1.69	2.20	2.10	^R 2.90	^R 5.53	^R 4.85	^R 3.07	2.49
February	NA	1.98	1.70	2.75	5.53	5.04	2.79	NA
2-Month Average	NA	2.09	1.90	2.83	5.53	4.94	2.94	NA
1991 2-Month Average	1.77	2.18	2.11	3.02	5.54	4.98	3.11	2.54
990 2-Month Average	2.04	2.15	2.30	3.18	5.53	5.00	3.48	2.89
menni menga		2.10	2.VV	3.10	2.00		0.40	2.00

a includes supplemental gaseous fuels.

b See Note 8 at end of section. R=Revised data. NA=Not available.

Notes: • Prices shown on this page are intended to include all taxes. See Note 8 at end of section. • Geographic coverage is the 50 States and the District of

Notes: • Prices shown on this page are intended to include all taxes. See Note 8 at end of section. • Geographic coverage is the 50 States and the Distric Columbia. • Data through 1988 are final. Subsequent data are preliminary. • 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. Sources: • Weilhead: 1973-1983—Energy information Administration (EIA), *Natural Gas Annual 1988, Volume 1*, Table 92. • Major Interstate Pipeline Companies: 1974 through 1977—Calculated from revenue and sales data reported to the Federal Power Commission (FPC) on Form FPC-11, "Natural Gas Pipeline Company Monthly Statement." 1978-1983—EIA, *Natural Gas Monthly*, December 1984, Table 10. • Delivered to Consumers: 1973-1983—EIA, *Natural Gas Annual 1988, Volume 1*, Table 95. • All Other Data (1984 forward): EIA, *Natural Gas Monthly*, May 1992, Table 4.

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 Form EIA-14, "Refiners' Monthly Cost Report." Those costs were previously published from data collected on 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. Also, the respondents for the two forms are essentially the same. However, due to possible different interpretations of the filing requirements and a different method for handling prior period adjustments, care must be taken when comparing the data collected on the two forms.

The refiner acquisition cost of crude oil is the average price paid by refiners for crude oil booked into their refineries in accordance with accounting procedures generally accepted and consistently and historically applied by the refiners concerned. Domestic crude oil is that oil produced in the United States or from the outer continental shelf as defined in 43 USC Section 1331. Imported crude oil is either that oil reported on Form ERA-51, "Transfer Pricing Report," or any crude oil that is not domestic oil. The composite cost is the weighted average of domestic and imported crude oil costs.

Crude oil costs and volumes reported on Form ERA-49 excluded unfinished oils but included the Strategic Petroleum Reserve (SPR). Crude oil costs and volumes reported on 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. For the period 1974-1977, prices were collected in 56 urban areas. For the period 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 Energy Information Administration (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, as well as residential and commercial consumers.

6. Starting in January 1983, Form EIA-782, "Monthly Petroleum Product Sales Report," replaced 10 previous surveys. Every attempt was made to continue the most important price series. However, prices published through December 1982 and those published since January 1983 do not necessarily form continuous data series due to changes in survey forms, definitions, instructions, populations, samples, processing systems, and statistical procedures. To provide historical data, continuous series were generated for annual data 1978-1982 and for monthly data 1981 and 1982 by estimating the prices that would have been published had Form EIA-782 survey and system been in operation at that time. This form of estimation was performed after detailed adjustment was made for product and sales type matching and for discontinuity due to other factors. An important difference between the previous and present prices is the distinction between wholesale and resale and between retail and end user. The resale category continues to include sales among resellers. However, bulk sales to 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 the bulk utility, industrial, and commercial sales. 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 more than 3,000 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 400 utilities statistically chosen as a stratified 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 using cut-off, rather than stratification, techniques.

8. Natural gas prices are intended to include all taxes. Instructions on the data collection forms specifically direct that all U.S., State, and local taxes, surcharges, and/or adjustments billed to consumers are to be included. However, sales and other taxes itemized on 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 4.3. Additional information is available in the Energy Information Administration *Natural Gas Monthly*, Appendix C.

Electric utility 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 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 cover all electric generating plants at which the generator nameplate capacity of all steam-electric units and combined-cycle units combined totaled 50 megawatts or greater.

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Section 10. International Energy

Crude Oil Production. World crude oil production during February 1992 was 61 million barrels per day, down 0.4 million barrels per day from the level in the previous month.

Organization of Petroleum Exporting Countries (OPEC) production during February 1992 averaged 25 million barrels per day, down 0.2 million barrels per day from the level during the previous month. Production by the Arab members of OPEC during February 1992 averaged 15 million barrels per day, down 0.1 million barrels per day from the January 1992 level. During February 1992, production increased in Kuwait by 65 thousand barrels per day. Production decreased in Saudi Arabia by 150 thousand barrels per day, in Qatar by 25 thousand barrels per day, and in the United Arab Emirates by 10 thousand barrels per day. Production remained unchanged in Algeria, Iraq, and Libya. Among the non-Arab members of OPEC, production during February 1992 increased in Indonesia by 25 thousand barrels per day. Production decreased in both Nigeria and Venezuela by 50 thousand barrels per day, but remained unchanged in Iran.

Among the non-OPEC nations, production during February 1992 increased in Canada by 25 thousand barrels per day and in the United States by 10 thousand barrels per day. Production decreased in the former U.S.S.R. by 80 thousand barrels per day and in the United Kingdom by 15 thousand barrels per day. Production remained unchanged in Mexico and China.

Petroleum Consumption. In December 1991, consumption in all Organization for Economic Cooperation and Development (OECD) countries was 39.0 million barrels per day, higher by 3 percent than the December 1990 level. Consumption was higher in the United States by 4 percent but lower in Japan by 4 percent, compared with levels 1 year earlier. In December 1991, consumption in all European OECD countries combined was 13.5 million barrels per day, 5 percent higher than consumption in the previous December. Consumption was higher in both Canada and France by 7 percent, higher in Italy by 6 percent, and higher in the United Kingdom by 2 percent, compared with levels 1 year earlier. Beginning with January 1991, data for Germany are for the unified Germany, formerly East Germany and West Germany.

Petroleum Stocks. For all OECD countries, petroleum stocks at the end of December 1991 totaled 3.6 billion barrels, slightly higher than the ending stock level in December 1990. Stocks were higher in Japan by 2 percent but slightly lower in the United States, compared with levels 1 year earlier. In December 1991, stock levels in all European OECD countries totaled 1.2 billion barrels, higher by 1 percent than the level in the previous December. Stocks were higher in France by 9 percent, higher in the United Kingdom by 5 percent, higher in Canada by 2 percent, but lower in Italy by 7 percent, compared with levels 1 year earlier. Beginning with January 1991, data for Germany are for the unified Germany, formerly East Germany and West Germany.

Nuclear Electricity Generation. Based on *Nucleonics Week* information for February 1992, reporting countries with nuclear capacity generated 166 gross terawatthours (billion kilowatthours) of nuclear-generated electricity, 9 percent more than in February 1991.

As of February 29, 1992, there were 354 operable nuclear generating units in the reporting countries. The units had a collective gross generating capacity of 299.0 gigawatts (million kilowatts). The 110 U.S. units accounted for 105.8 gross gigawatts, 35.4 percent of the total reported nuclear generating capacity.

Table 10.1a World Crude Oil Production: Algeria Through Venezuela

(Thousand Barrels per Day)

	Algeria	Iraq	Kuwait ^a	Libya	Qatar	Saudi Arabia ^a	United Arab Emirates	Arab OPEC ^b	Indonesia	Iran	Nigeria	Venezuel
973 Average	1,097	2,018	3,020	2,175	570	7,596	1,533	18,009	1,339	5.861	2,054	2 266
974 Average	1,009	1,971	2,546	1,521	518	8,480	1,679	17,724	1,375	6,022	2,054	3,366 2,976
975 Average	983	2,262	2,084	1,480	438	7,075	1,664	15,985	1,307	5,350	1,783	2,346
976 Average	1,075	2,415	2,145	1,933	497	8,577	1,936	18,579	1,504	5,883	2,067	2,340
977 Average	1,152	2,348	1,969	2,063	445	9,245	1,999	19,221	1,686	5,663	2,085	2,234
978 Average	1,231	2,563	2,131	1,983	487	8,301	1,831	18,525	1,635	5,242	1,897	2,230
979 Average	1,224	3,477	2,500	2,092	508	9,532	1.831	21,163	1,591	3,168	2,302	2,105
980 Average	1,106	2,514	1,656	1,787	472	9,900	1,709	19,144	1,577	1,662	2,055	2,356
981 Average	1,002	1,000	1,125	1,140	405	9,815	1,474	15,961	1,605	1,380	1,433	2,100
982 Average	987	1,012	823	1,150	330	6,483	1,250	12,035	1,339	2,214	1,295	1,895
983 Average	968	1,005	1,064	1,105	295	5.086	1,149	10,672	1,343	2,440	1,285	1,801
984 Average	1,014	1,209	1,157	1,087	394	4,663	1,146	10,670	1,412	2,174	1,388	
85 Average	1,037	1,433	1,023	1,059	301	3,388	1,193	9,434	1,325	2,250	1,300	1,798
986 Average	945	1,690	1,419	1,034	308	4,870	1,330	11,596	1,390	2,035	1,495	1,677
987 Average	1,048	2,079	1,585	972	293	4,265	1,541	11,783	1,343	2,035	1,341	1,787
988 Average	1,040	2,685	1,492	1,175	346	5,086	1,565	13,389	1,342	2,290	1,341	1,752 1,903
89 Average	1,095	2,897	1,783	1,150	380	5,064	1,860	14,229	1,409	2,810	1,716	1,903
90 January	1,190	2,946	1,998	1,222	370	5,571	2,054	15,352	1,306	2,700	1.754	1.990
February	1,190	2,946	1,998	1,375	380	5,670	2,029	15,589	1,306	3,000	1,754	2,140
March	1,190	2,946	2,179	1,324	400	5,800	2,054	15,893	1,411	3,000	1,754	2,040
April	1,190	2,997	1,953	1,273	400	5,924	2,099	15,837	1,463	2,900	1,855	2,040
May	1,190	3,150	1,953	1,273	365	5,426	2,109	15,466	1,411	3,200	1,754	2,040
June	1,190	3,251	1,758	1,273	365	5,431	2,049	15,317	1,411	3,100	1,754	2,040
July	1,190	3,454	1,853	1,273	370	5,426	2,049	15,616	1,442	3,050	1,754	2,040
August	1,190	1,016	100	1,426	400	5,825	1,649	11,606	1.516	3,300	1,855	2,090
September	1,220	508	100	1,426	400	7,706	2,199	13,560	1,536	3,300	1,905	2,290
October	1,241	457	75	1,579	400	7,776	2,309	13,837	1,542	3,000	1,955	2,275
November	1,241	432	75	1,528	400	8,274	2,374	14,324	1,568	3,200	1,955	2,320
December	1,241	432	75	1,528	370	8,533	2,449	14,628	1,620	3,300	1,955	2,340
Average	1,205	2,040	1,172	1,375	385	6,449	2,119	14,745	1,462	3,088	1,834	2,137
91 January	1,210	250	50	1,500	350	8,140	2,500	14,000	1,630	3,200	1,960	2,390
February	1,210	0	0	1,500	390	8,200	2,525	13,825	1,630	3,300	1,960	2,390
March	1,210	0	0	1,450	390	8,000	2,550	13,600	1,630	3,400	1,960	2,390
April	1,210	200	0	1,450	390	7,400	2,550	13,200	1,630	3,300	1,960	2,340
May	1,210	350	0	1,450	390	7,400	2,350	13,150	1,630	3,300	1,960	2,340
June	1,210	350	75	1,450	390	8,150	2,350	13,975	1,630	3,300	1,910	2,340
July	1,210	350	165	1,450	390	8,475	2,350	14,390	1,680	3,400	1,910	2,340
August	1,210	350	195	.1,450	390	8,465	2,350	14,410	1,630	3,400	1,960	2,340
September	1,210	350	300	1,500	390	8,400	2,340	14,490	1,580	3,300	1,960	2,340
October	1,210	350	430	1,500	390	8,450	2,430	14,760	1,530	3,300	1,860	2.390
November	1,210	350	500	1,550	370	8,440	2,495	14,915	1,580	3,300	1,960	2,390
December	1,210	350	520	1,550	310	8,640	2,460	15,040	1,580	3,500	1,985	2,440
Average	1,210	273	187	1,483	378	8,181	2,437	14,149	1,613	3,334	1,945	2,369
92 January	1,210	350	^R 565	1,550	350	^R 8,790		^R 15,250	1,580	3,500	1,960	2,390
February	1,210	350	630	1,550	325	8,640	2,425	15,130	1,605	3,500	1,910	2,340
2-Mo. Avg	1,210	350	596	1,550	338	8,718	2,430	15,192	1,592	3,500	1,936	2,366
91 2-Mo. Avg	1,210	131	26	1,500	369	8,168	2,512	13,917	1,630	3,247	1,960	2,390
90 2-Mo. Avg	1,190	2,946	1,998	1,295	375	5,618	2,042	15,464	1,306	2,842	1,754	2,061

^a Includes about one-half of the production in the Kuwait-Saudi Arabia Neutral Zone from 1973 through July 1990 and in June 1991. Kuwaiti Neutral Zone output was discontinued following Iraq's Invasion of Kuwait on August 2, 1990, but was resumed in June 1991. In February 1992, Neutral Zone production by both Kuwait and Saudi Arabia totaled about 280 thousand barrels per day.
 ^b The Arab members of the Organization of Petroleum Exporting Countries (OPEC) are Algeria, Iraq, Kuwait, Libya, Qatar, Saudi Arabia, and the United Arab Emirates. Production in the Neutral Zone between Kuwait and Saudi Arabia is included in "Arab OPEC".
 ^c "Total OPEC" consists of Algeria, Ecuador, 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".
 ^d 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, and the United Arab Detect.
 ^e "Total OPEC" consists of Algeria, Ecuador, 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".
 ^d 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, and the United Arab Emirates. Production from the Neutral Zone between Kuwait and Saudi Arabia is included in "Total OPEC".
 ^e "Other" is a calculated total derived from the difference between "World" and the sum of production in "Total OPEC". Canada. Maxico, the United Kinodom

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

Footnotes continue on following page.

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

(Thousand Barrels per Day)

	Total OPEC ^c	Persian Gulf Nations ^d	Canada	Mexico	United Kingdom	United States	China	Former U.S.S.R.	Other ^e	Market Econo- mies ¹	World
973 Average	30,988	20,668	1,798	465	2	9,208	1,090	8,329	3,804	45,805	55,684
974 Average	30,729	21,282	1,551	571	2	8,774	1,315	8,856	3,862	45,021	55,660
975 Average	27,154	18,934	1,430	705	12	8,375	1,490	9,472	4,139	41,338	52,777
976 Average	30,737	21,514	1,314	831	245	8,132	1,670	9,985	4,355	45,132	57,269
977 Average	31,299	21,725	1,321	981	768	8,245	1,874	10,485	4,616	46,745	59,589
78 Average	29,875	20,606	1,316	1,209	1,082	8,707	2,082	10,950	4,782	46,497	60,003
79 Average	30,998	21,066	1,500	1,461	1,568	8,552	2,122	11,187	5,089	48,725	62,A77
80 Average	26,985	17,961	1,435	1,936	1.622	8,597	2,114	11,460	5,204	45,355	59,353
81 Average	22,843	15,245	1,285	2,313	1,811	8,572	2,012	11,552	5,390	41,784	55,778
82 Average	19,145	12,156	1.271	2,748	2,065	8,649	2,045	11,615	5,646	39,069	53,184
83 Average	17,891	11,081	1,356	2,689	2,291	8,688	2,120	11,684	6,248	38,703	52,967
84 Average	17,857	10,784	1,438	2,780	2,480	8,879	2,296	11,576	6,897	39,893	54,203
85 Average	16.634	9,630	1,471	2,745	2,530	8.971	2,505	11,250	7,540	39,463	53,646
86 Average	18,734	11,696	1,474	2,435	2,539	8,680	2,620	11,540	7,850	41,282	55,872
987 Average	18,846	12,103	1,535	2,548	2,406	8,349	2,690	11,690	8,242	41,507	56,306
988 Average	20,785	13,457	1,616	2,512	2,232	8,140	2,730	11.823	8,669	43,562	58,507
89 Average	22,558	14,837	1,560	2,520	1,802	7,613	2,757	11,420	9,338	44,999	59,568
90 January	23,643	15,683	1,477	2,520	1,911	7,546	2,796	11,296	9,578	46,297	60,767
February	24,340	16,066	1,498	2,520	1,811	7,497	2,776	10,933	9,655	46,944	61,030
March	24,658	16,420	1,604	2,510	1,935	7,433	2,746	11,296	9,744	47,507	61,927
April	24,655	16,315	1,548	2,510	1,916	7,407	2,746	11,109	9,766	47,420	61,657
May	24,402	16,245	1,528	2,485	1,886	7,328	2,746	10,940	9,774	47,021	61,089
June	24,173	15,997	1,508	2,465	1,831	7,106	2,756	10,766	9,659	46,364	60,264
July	24,453	16,245	1,543	2,485	1,743	7,173	2,716	10,679	9,577	46,597	60,370
August	20,936	12,333	1,543	2,535	1,624	7,287	2,751	10,560	9,593	43,140	56,830
September	23,162	14,256	1,548	2,626	1,753	7,224	2,811	10,472	9,795	45,730	59,391
October	23,194	14,061	1,599	2,646	1,857	7,542	2,776	10,205	9,921	46,395	59,740
November		14,798	1,568	2.666	1,820	7,387	2,801	10,153	10,211	47,239	60,562
December	24,433	15,201	1,594	2,666	1,671	7,338	2,761	10,181	10,141	47,470	60,784
Average	•	15,295	1,547	2,553	1,813	7,355	2,765	10,715	9,785	46,505	60,361
91 January	23,770	14,532	1,555	2,660	1,675	E7,418	2,785	10,295	10,118	46,836	60,276
February	23,700	14,455	1,615	2,674	1,905	E7,548	2,795	9,600	10,152	47,232	59,989
March	23,550	14,383	1,540	2,669	2,069	^E 7,481	2,790	10,010	10,145	47,092	60,254
April	23,000	13,881	1,440	2,655	1,525	^E 7,467	2,795	9,955	10,036	45,764	58,873
May	22,930	13,832	1,500	2,695	1,395	E 7,368	2,795	9,870	10,136	45,662	58,689
June	23,705	14,652	1,520	2,720	1,525	^E 7,282	2,805	9,470	9,873	46,263	58,900
July	24,290	15,168	1,530	2,690	1,805	E7,326	2,805	9,470	9,944	47,220	59,860
August	24,310	15,188	1,575	2,660	1,827	E7,272	2,805	9,095	9,607	46,887	59,151
September		15,119	1.545	2,675	1,896	E7,332	2,800	9,545	10,134	47,450	60,167
October	24,420	15,388	^R 1.500	2,680	1,990	^E 7,409	2,800	9,165	10,191	^R 47,833	^R 60,155
November	24,725	15,495	ⁿ 1.615	2,660	1,975	E 7,307	2,805	9,055	10,276	^R 48,221	^R 60,418
December		15,820	^H 1.580	2,675	1,980	E 7,281	2,800	9,025	10,368	^R 48,672	^R 60,834
Average		14,830	^R 1,542	2,676	1,797	E 7,373	2,798	9,546	10,082	^R 47,095	R 59,798
192 January		^R 16,030	1,665	2,675	2,000	E7,363	2,800	^R 8,930	^R 10,524	^R 49,135	^R 61,217
February		15,910	1,690	2,675	1,985	E7,373	2,800	8,850	10,360	48,771	60,773
2-Mo. Avg		15,972	1,677	2,675	1,993	^E 7,368	2,800	8,891	10,445	48,959	61,002
991 2-Mo. Avg	23,737	14,495	1,583	2,667	1,784	^E 7,480	2,790	9,965	10,134	47,024	60,140
990 2-Mo. Avg	23,974	15,865	1,487	2,520	1,864	7,523	2,787	11,124	9,615	46,604	60,892

Footnotes continued.

¹ *Market Economies' is "World" excluding Albania, Bulgarla, Cambodia, China, Cuba, Czechoslovakia, East Germany, Hungary, Laos, Mongolia, North Korea, Poland, Romania, former U.S.S.R., Vietnam, Yugoslavia, and through 1990, East Germany. From 1991 forward, *Market Economies' includes unified Germany.

R=Revised data. E=Estimate.

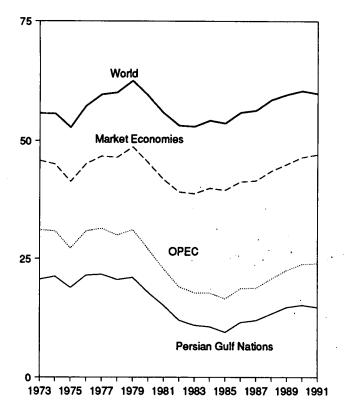
Notes: • Crude oil includes lease condensate but excludes natural gas plant liquids. • U.S. geographic coverage is the 50 States and the District of Columbia. • Monthly data are often preliminary figures and may not average to the annual totals because of rounding or because updates to the preliminary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

Sources: • United States: Table 3.1a. • Other Countries: 1973-1979 annual data—Energy Information Administration (EIA), International Energy Annual 1981, Table 8. 1980 annual data—EIA, International Energy Annual 1989, Table 1. 1981-1990 annual data—EIA, International Energy Annual 1981, Table 8. 1980 annual data—EIA, International Energy Annual 1989, Table 1. 1981-1990 annual data—EIA, International Energy Annual 1981, Table 8. 1980 annual data—EIA, International Energy Annual 1989, Table 1. 1981-1990 annual data—EIA, International Energy Annual 1981, Table 8. 1980 annual data—EIA, International Energy Annual 1989, Table 1. 1981-1990 annual data—EIA, International Energy Annual 1981, Table 8. 1980 annual data—EIA, International Energy Annual 1989, Table 1. 1981-1990 annual data—EIA, International Energy Annual 1981, Table 8. 1980 annual data—EIA, International Energy Annual 1989, Table 1. 1981-1990 annual data—EIA, International Energy Annual 1988 monthly data—EIA, Office of Energy Markets and End Use, International Energy Database. 1990 forward monthly data—EIA, International Petroleum Statistics Report, sum of all countries' monthly data.

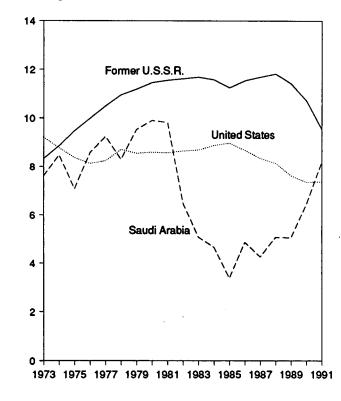
Figure 10.1 Crude Oil Production

(Million Barrels per Day)

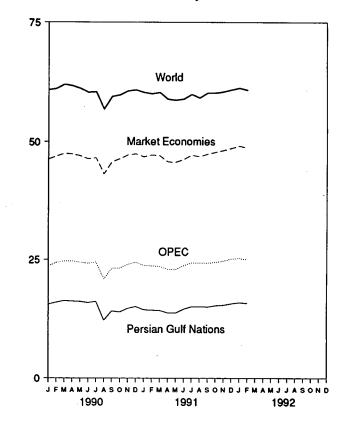
World Production, 1973-1991



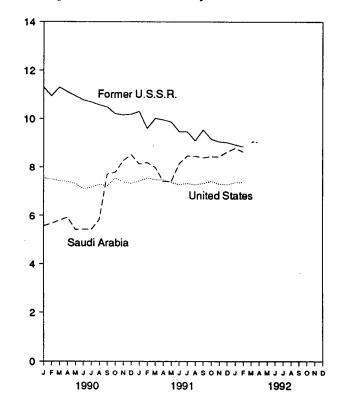
Leading Producers, 1973-1991



World Production, Monthly



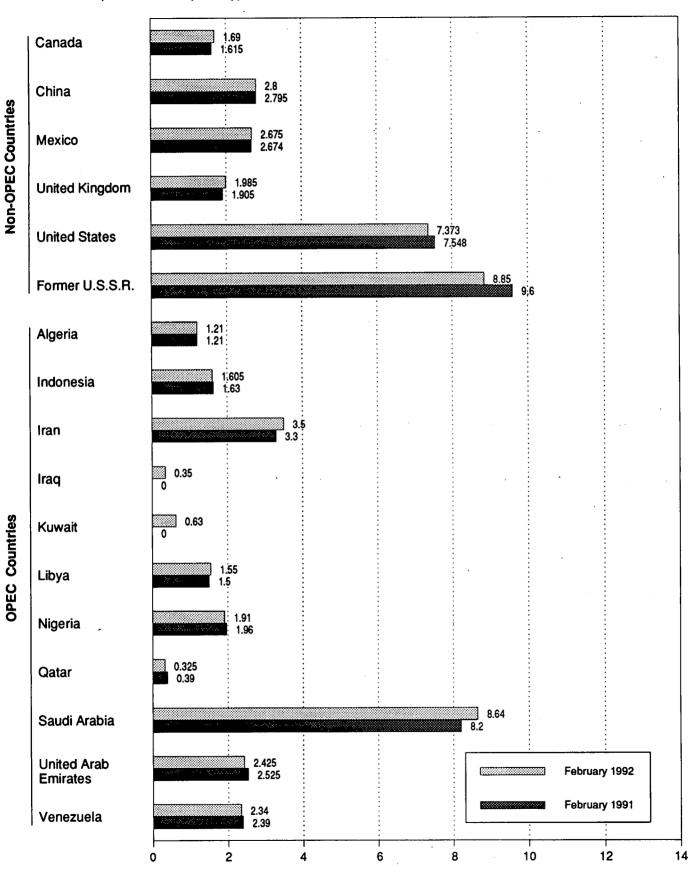
Leading Producers, Monthly



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

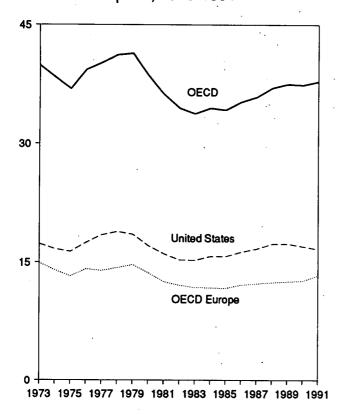
(Million Barrels per Day)

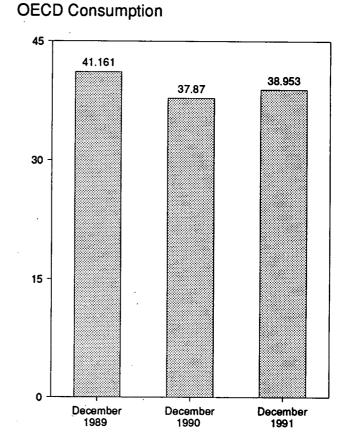


Note: OPEC is the Organization of Petroleum Exporting Countries. Sources: Tables 10.1a and 10.1b.

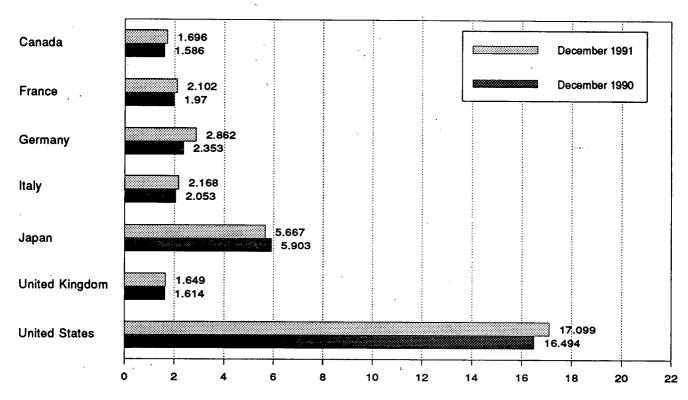
Figure 10.3 Petroleum Consumption in OECD Countries (Million Barrels per Day)

OECD Consumption, 1973-1991





Consumption by Selected OECD Country



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

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Table 10.2 Petroleum Consumption in OECD Countries

(Thousand Barrels per Day)

	Canada	France	Germany ^a	italy	Japan	United Kingdom	United States	OECD Europe ^b	Other OECD ^c	OECI
							47.000	14 005	988	39,900
73 Average	1,729	2,601	3,055	2,068	4,949	2,341	17,308	14,925	1,095	38,379
74 Average	1,779	2,447	2,748	2,004	4,864	2,210	16,653	13,988		
75 Average	1,779	2,252	2,650	1,855	4,621	1,911	16,322	13,217	1,041	36,980
6 Average	1,818	2,420	2,877	1,971	4,837	1,892	17,461	14,124	1,119	39,35
7 Average	1,850	2,294	2,865	1,897	4,880	1,905	18,431	13,916	1,160	40,237
8 Average	1,902	2,408	2,927	1,952	4,945	1,938	18,847	14,290	1,204	41,18
9 Average	1,971	2,463	3,003	2,039	5,050	1,971	18,513	14,667	1,178	41,37
O Average	1,873	2,256	2,707	1,934	4,960	1,725	17,056	13,634	1,072	38,59
1 Average	1,768	2,023	2,449	1,874	4,848	1,590	16,058	12,515	1,080	36,26
	1,578	1,880	2,372	1,781	4,582	1,590	15,296	12,053	1,008	34,51
2 Average	1,448	1,835	2,324	1,750	4,395	1,531	15,231	11,765	954	33,79
3 Average	1,472	1,754	2,322	1,646	4,576	1,849	15,726	11,736	989	34,50
4 Average	•	1,775	2,338	1,717	4,384	1,634	15,726	11,681	976	34,27
5 Average	1,504		2,498	1,738	4,439	1,649	16,281	12,102	951	35,27
6 Average	1,506	1,772		1,855	4,484	1,603	16,665	12,255	958	35,91
7 Average	1,548	1,789	2,424			1,697	17,283	12,427	939	37,09
8 Average	1,693	1,797	2,422	1,836	4,752	1,037	17,200	12,421		
9 January	1,690	1,924	1,880	2,029	5,225	1,702	17,269	12,204	915	37,30
February	1,771	2,090	2,173	2,133	5,607	1,770	17,920	12,976	R 1,062	39,33
March	1,701	1,946	2,256	1,929	5,571	1,796	17,989	12,848	^R 970	^R 39,07
April	1,643	1,719	2,150	1,743	4,583	1,733	16,624	11,883	_ ^R 998	35,73
	1,692	1,623	2,129	1,782	4,361	1,651	16,546	11,713	^R 1,045	35,35
May	1,672	1,763	2,238	1,874	4,457	1,694	17,497	12,319	^R 1,063	37,00
	1,652	1,669	2,326	1,655	4,570	1,602	16,453	11,625	1,007	^R 35,30
July		1,652	2,503	1,727	4,586	1,723	17,360	12,355	1,051	37,19
August	1,841	1,847	2,440	1,907	4,632	1,713	16,795	12,611	922	^R 36,65
September	1,693		2,439	2,049	4,747	1,780	17,304	13,021	948	37,76
October	1,741	1,956			5,321	1,886	17,311	13,582	^R 994	R 38,99
November	1,790	2,015	2,521	2,158		1,808	18,858	13,230	1,003	41,10
December	1,908	2,096	2,306	2,194	6,162	1,738	17,325	12,531	998	37,57
Average	1,733	1,857	2,280	1,930	4,983	1,750	17,020	12,001		
0 January	^R 1,659	⁸ 2,025	2,208	^R 2,148	^R 5,521	^B 1,735	16,964	^R 12,900	^R 963	^R 38,00
February	^R 1,757	^R 1,930	2,390	^R 2,006	^R 5,887	^R 1,845	17,175	^R 13,006	^R 988	R 38,8
March	^R 1,695	^R 1,871	2,343	^R 1,823	^R 5.491	^R 1,933	17,087	^R 12,669	^R 1,073	R 38,01
April	^R 1,591	^R 1,784	2,299	^R 1,580	^R 4,670	^R 1,756	16,778	^R 12,157	^R 956	R 36,1
May	^R 1,672	^R 1,610	2,382	^R 1,748	^R 4,488	^R 1,781	16,915	^R 12,190	^R 1,032	^R 36,2
	^R 1,630	^R 1,774	2,504	^R 1,754	R 4,522	1,828	17,165	^R 12,720	^R 1,010	R 37,04
June	^R 1,707	^R 1,859	2,688	^R 1,831	R 4,939	^R 1,841	17,084	^R 13,131	^R 1,003	^R 37,8
July	B1 042		•	^R 1,695	^R 5,217	^R 1,762	18,050	^R 12,794	^R 1,120	R 39,0
August	^R 1,843	^R 1,780 ^R 1,682	2,383 2,280	R 1,823	R 5,009	^R 1,629	16,512	^R 12,075	^R 1.005	R 36,2
September	^R 1,676	^R 1,697		^R 1,945	^R 4,899	^R 1,600	16,934	^R 12,288	^R 1,039	^R 36,9
October	^R 1,760		2,320	^R 2,058	^R 5,172	^R 1,709	16,695	R 12,805	^R 1,028	R 37,4
November	^R 1,706	R 1,836	2,434	Ba 050	^R 5,903	^R 1,614	16,494	R 12,828	R 1,059	R 37,8
December	^R 1,586	R 1,970	2,353	R 2,053	^R 5,903	1,752	16,988	^R 12,629	^R 1,024	R 37,4
Average	^R 1,690	^R 1,818	2,382	^R 1,872	~5,140	1,/52	10,300	12,023		•1,4
91 January	^R 1.616	^R 2.174	^R 2,999	^R 2,277	^R 5,848	^R 1,782	16,882	^R 14,420	^R 1,046	R 39,8
February	R 1,609	R2,010	^R 2,786	^R 2,106	^R 6,130	^R 1,796	16,284	^R 13,767	^R 1,023	^R 38,8
	^R 1,460	^R 1,747	R 2,859	^R 1,755	^R 5.785	^R 1,688	16,100	^R 12,576	^R 1.070	^R 36,9
March	^R 1,589	R 1,771	^R 2,954	^R 1,886	^R 4,984	1,751	16,103	^R 13,011	^R 1.065	^R 36.7
April	^R 1,639	^R 1,748	R2,914	R 1,773	R 4,876	^R 1,761	16,098	^H 12,872	^R 1,092	^H 36.5
May	84 500	^R 1,812	^R 3,270	^R 1,656	^R 4,759	1,732	16,764	^R 13,210	^R 931	^R 37.2
June	^R 1,598	1,812 Balone	^R 2,273	^R 1,714	R 4,980	^R 1,813	16,910	^R 12,592	^R 987	R 37,1
July	^R 1,713	^R 1,986	···2,2/3	B 1,714	B 4 954	^R 1,774	17,133	R 12,662	R 973	R 37,3
August	^R 1,684	^R 1,717	^R 2,610	^R 1,654	^R 4,854	B 4 745		^R 12,925	^R 1,017	^R 36,9
September	^R 1,582	^R 1,805	R 2,680	^R 1,876	R 4,703	^R 1,715	16,704		^R 1,101	R 39,3
October	^R 1,597	^R 2,095	R 2,932	^R 2,206	^R 5,126	^R 1,852	16,894	R 14,626	R 4 4 4 4	
November		^R 1,904	^R 2,811	^R 2,163	^R 5,604	^R 1,829	16,674	R 13,758	^R 1,114	^H 38,7
December		2,102	2,862	2,168	5,667	1,649	17,099	13,470	1,020	38,9
Average	1,614	1,906	2,828	1,935	5,272	1,762	16,641	13,322	1,037	37,8

a Through December 1990, the data for Germany are for the former West Germany only. Beginning with January 1991, the data for Germany are for the

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

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

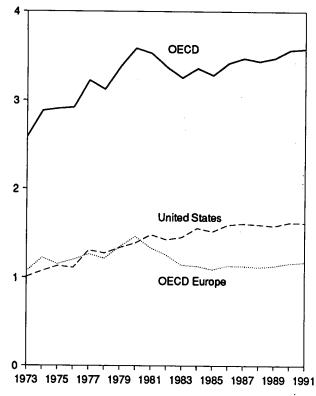
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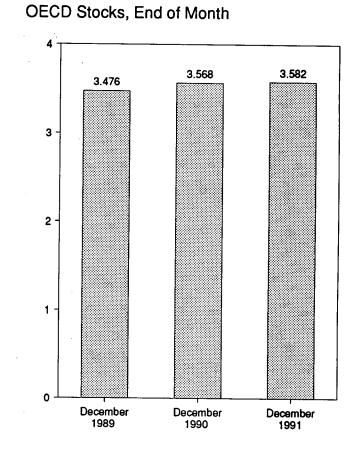
Notes: • The Organization for Economic Cooperation and Development (OECD) consists of Canada, Japan, and the United States, as well as "OECD Europe" and "Other OECD." • U.S. geographic coverage is the 50 States and the District of Columbia. • Totals may not equal sum of components due to independent rounding.

Sources: • United States: Table 3.1a. • All Other Data: 1973-1979-International Energy Agency, Annual Oil and Gas Statistics of OECD Countries. 1980 forward-International Energy Agency, quarterly and monthly computer tapes supporting Quarterly Oil Statistics and Energy Balances of OECD Countries.

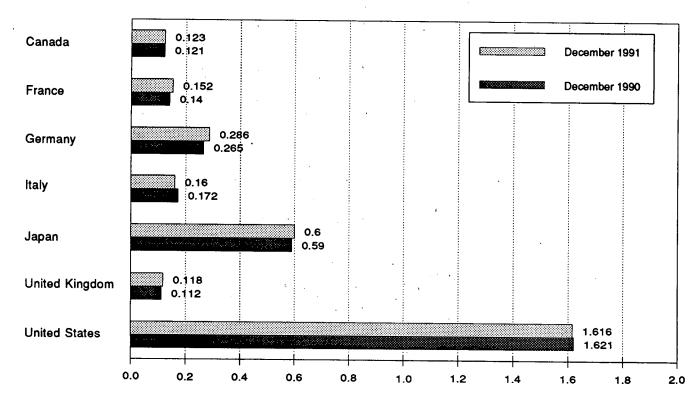
R=Revised data.

Figure 10.4 Petroleum Stocks in OECD Countries (Billion Barrels)





Stocks by Selected Country, End of Month



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

OECD Stocks, End of Year, 1973-1991

Table 10.3 Petroleum Stocks in OECD Countries, End of Period

(Million Barrels)

	Canada	France	Germany ^a	italy	Japan	United Kingdom	United States	OECD Europe ^b	Other OECD ^c	OECD
				450	303	156	1,008	1.070	67	2,588
1973 Year	140	201	181	152		190	1,008	1,227	64	2,880
974 Year	145	249	213	167	370				67	2,903
1975 Year	174	225	187	143	375	165	1,133	1,154	68	2,918
976 Year	153	234	208	143	380	165	1,112	1,205	68	3,224
1977 Year	167	239	225	161	409	148	1,312	1,268		
1978 Year	144	201	238	154	413	157	1,278	1,219	68	3,122
1979 Year	150	226	272	163	460	169	1,341	1,353	75	3,379
1980 Year	164	243	319	170	495	168	1,392	1,464	72	3,587
1981 Year	161	214	297	167	482	143	1,484	1,337	67	3,531
1982 Year	136	193	272	179	484	125	1,430	1,258	68	3,376
1983 Year	121	153	249	149	470	118	1,454	1,142	68	3,255
1984 Year	128	152	239	159	479	112	1,556	1,130	69	3,362
	113	139	233	157	494	123	1,519	1.092	66	3,284
1985 Year		133	252	155	509	124	1,593	1,133	72	3,418
1986 Year	111		259	169	540	121	1.607	1,130	72	3,474
1987 Year	126	127		155	538	112	1,597	1,118	71	3,440
1988 Year	116	140	266	100	230	116	1,001	1,110		•
1989 January	117	138	277	159	547	121	1,620	1,133	69	3,486
February	116	129	272	154	548	121	1,601	1,103	69	3,437
March	111	123	270	148	552	115	1,568	1,085	68	3,384
April	118	131	271	152	549	114	1,596	1,091	71	3,425
	117	132	272	152	553	121	1,623	1,111	73	3,476
May	119	128	269	154	557	112	1,608	1,096	71	3,450
June		133	270	155	557	119	1,649	1,120	70	3,521
July	125		270	165	567	118	1,654	1,133	72	3,549
August	123	135			572	120	1,667	1,137	66	3,563
September	121	135	274	165			1,658	1,121	70	3,547
October	117	134	272	165	580	117	1,663	1,125	75	3,571
November	121	139	267	163	588	117			71	3,476
December	114	138	271	164	577	118	1,581	1,133	~ 1	3,470
1990 January	112	133	273	162	574	119	1,630	1,128	68	3,513
February	116	134	267	158	569	116	1,635	1,134	74	3,528
March	121	131	268	163	581	121	1,642	1,126	71	3,542
April	126	135	270	159	578	114	1,640	1,146	77	3,567
May	121	146	268	155	590	125	1,672	1,174	77	3,634
	119	147	270	160	579	120	1.685	1,179	75	3,637
	117	149	271	155	578	119	1,709	1,169	71	3,645
July		150	274	167	583	122	1,699	1,181	72	3.649
August	114 112	150	269	173	585	123	1,698	1,177	73	3.645
September		148	268	172	592	119	1,674	1.184	76	3,640
October	113			167	596	117	1,654	1,150	72	3.587
November	115	142 140	263 265	172	590	112	1,621	1,163	73	^R 3,568
December	121	140	203		550		.,-=.	.,		
1991 January	^R 115	133	276	173	585	115	1,587	1,159	72	^R 3,518
February	^R 113	136	276	169	567	118	1,574	1,154	71	^R 3,480
March	R117	141	278	177	587	123	1,559	1,176	74	^R 3,513
April	D	137	274	176	579	119	1,578	1,162	74	^R 3,504
	^R 107	137	277	173	580	112	1,628	1,151	74	^R 3,540
May	R 107	143	272	172	585	117	1,634	1,154	71	3.551
June	B440		283	168	588	112	1,634	^R 1,164	72	R3,577
July		145		170	500 604	117	1,645	P1,180	76	R3,621
August	116	151	282			119	1,645	^R 1,189	76	R 3,661
September		^R 150	285	169	616		•	^R 1.182	R72	^R 3,635
October	118	148	283	165	620 B 001	118	1,643		R 69	^R 3,635
November		^R 151	287	162	^R 601	^R 120	1,646	^R 1,192		
December	123	152	286	160	600	118	1,616	1,176	67	3,582

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

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

° Other OECD^{*} consists of Australia, New Zealand, and the U.S. Territories.

R=Revised data.

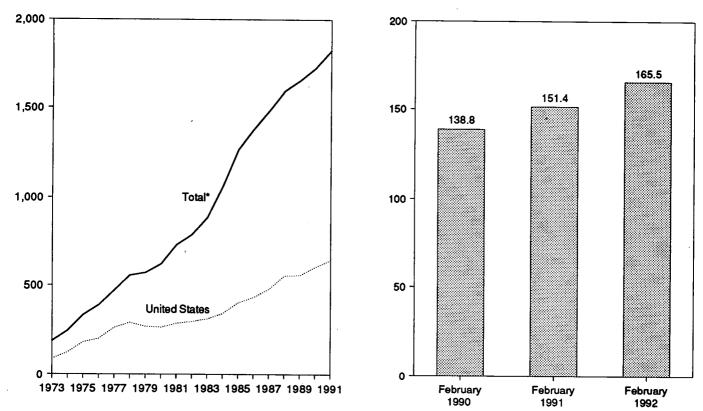
Notes: • Petroleum stocks include crude oil (including strategic reserves), unfinished oils, natural gas plant liquids, and refined products. Petroleum stocks include all nonmilitary petroleum held for storage, regardless of ownership, within each country in bulk terminals, refinery tanks, pipeline tankage, intercoastal tankers, tankers in port, and inland ship bunkers. Data exclude oil held in pipelines (except for the United States), rail and truck cars, sea-going ships' bunkers, service stations, retail stores, and tankers at sea. • The Organization for Economic Cooperation and Development (OECD) consists of Canada, Japan, and the United States, as well as "OECD Europe" and "Other OECD." • U.S. geographic coverage is the 50 States and the District of Columbia. • Totals may not equal sum of components due to independent rounding. • 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. Using the new basis, the 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 1989 are final. Subsequent data are preliminary.

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

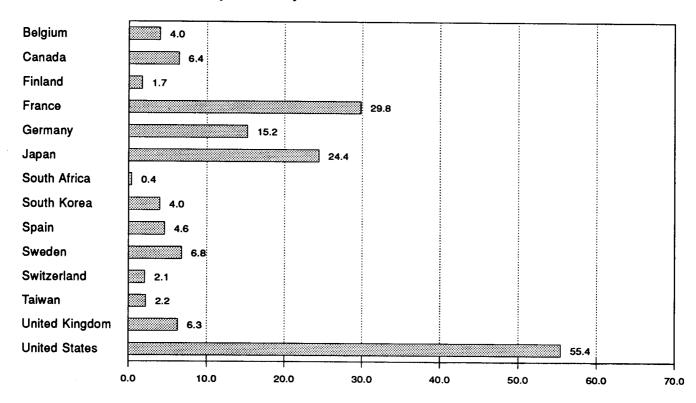
Figure 10.5 Nuclear Electricity Gross Generation (Billion Kilowatthours)

U.S. and Total* Generation, 1973-1991

Total* Generation



Generation by Selected Country, February 1992



*Total equals nuclear-generated electricity from all countries except Bulgaria, China, Cuba, Czechoslovakia, Hungary, North Korea, Poland, Romania, the former U.S.S.R., and Yugoslavia.

Note: Because vertical scales differ, graphs should not be compared. Sources: Tables 10.4a-10.4c.

Table 10.4a Nuclear Electricity Gross Generation: Argentina Through India

(Billion Kilowatthours)

	Armentine	Belgium	Brazil	Canada	Finland	France	Germany ^a	India
	Argentina	Beigium	Diazi				1	
73 Total	0.0	0.0	0.0	15.3	0.0	14.7	11.9	2.5
74 Total	1.0	.1	.0	15.4	.0	14.7	12.0	1.9
	2.5	6.8	.0	13.2	.0	18.3	21.7	2.5
75 Total	2.6	10.0	.0	18.0	.0	15.8	24.5	3.2
76 Total	1.6	11.9	.0	26.6	2.7	17.9	36.0	2.6
77 Total	2.9	12.5	.0	33.0	3.3	30.6	35.7	2.3
78 Total			.0 .0	38.4	6.7	39.9	42.2	3.2
79 Total	2.7	11.4	.0	40.4	7.0	61.2	43.7	2.9
980 Total	2.3	12.5		43.3	14.5	105.2	53.4	3.1
981 Total	2.8	12.8	.0		16.5	108.9	63.4	2.3
982 Total	1.9	15.6	.1	42.6		144.2	65.8	2.9
983 Total	3.4	24.1	.2	53.0	17.4	191.2	92.6	4.1
84 Total	4.5	27.7	2.1	53.8	18.5		125.8	4.
985 Total	5.8	34.5	3.4	62.9	18.8	224.0	118.9	5.1
986 Total	5.7	38.6	.1	74.6	18.8	254.3		5.
987 Total	5.2	41.9	1.0	80.6	19.4	265.5	130.2	
988 Total	5.1	43.1	.3	85.6	19.3	274.9	145.2	6.1
989 Total	5.0	41.2	1.6	83.2	18.8	302.5	149.6	4.
	.5	3.9	.1	7.3	1.8	28.7	15.4	
990 January	.5 .4	3.5	.2	5.8	1.6	23.5	12.8	
February		4.2	 0.	6.2	1.7	25.8	13.2	
March	.7	4.2 3.6	.0	5.8	1.7	26.6	12.8	3
April	.6		.1	4.4	1.3	23.9	12.2	
May	.6	2.9		5.1	1.3	23.3	9.8	
June	.7	2.9	.2		1.6	23.9	10.0	
July	.7	3.5	.1	6.6	1.0	23.3	9.3	
August	.7	3.7	.3	6.2	1.4	26.5	9.6	
September	.5	3.3	.1	5.5		20.5	13.0	
October	.6	3.4	.2	7.1	1.8	_	13.9	
November	.7	3.6	.3	7.0	1.7	25.8	15.2	
December	.7	4.3	.2	7.2	1.8	30.4		5.
Total	7.4	42.7	2.0	75.8	18.9	316.4	147.2	а.
001 (0000	.5	4.2	.2	7.6	1.8	33.5	15.2	
991 January	.6	3.9	.2	7.4	1.6	30.0	13.6	
February	.6	4.2	.2	7.8	1.8	28.4	14.3	
March	.8 .7	3.5	.2	6.7	1.4	25.3	12.5	
April		3.4	.2	7.2	1.5	25.3	10.6	
Мау	.7	÷	.2	7.1	1.6	23.6	10.0	
June	.7	2.9		7.7	1.7	23.9	11.7	
July	7	3.5	.2	8.6	1.4	24.5	10.0	
August	E.7	3.8	.0	6.7	1.3	25.8	10.8	
September	E.7	3.0	.0		1.3	28.3	11.7	
October	Ĕ.8	3.2	.0	6.6	1.7	28.3	12.9	
November	Ĕ.7	3.3	.0	6.3		32.8	14.2	
December	_ ^E .5	4.0	.0	6.5	1.7		147.3	5
Total	^E 8.1	42.9	1.4	86.2	19.2	^R 331.3	147.3	
1992 January	.6	4.3	.0	6.9	1.8	33.5	15.6	
February	E	4.0	0.	6.4	1.7	29.8	15.2	
2-Month Total	E	8.3	.0	13.3	3.5	63.3	30.8	1
1001 0 Marsh Total	1.1	8.1	.4	15.1	3.4	63.6	28.8	
1991 2-Month Total	.9	7.4	.3	13.0	3.4	52.3	28.2	

See footnotes at end of Table 10.4c.

Table 10.4b Nuclear Electricity Gross Generation: Italy Through Spain

(Billion Kilowatthours)

	italy	Japan	Mexico	Netherlands	Pakistan	South Africa	South Kanna	. .
		· · · · · · · · · · · · · · · · · · ·				Soun Airica	South Korea	Spain
973 Total	3.1	9.4	0.0	1.1	0.5			
974 Total	3.4	18.9	.0	3.3	.6	0.0	0.0	6.
975 Total	3.8	21.3	.0	3.3	.0 .5	.0	.0	7.
976 Total	3.8	36.6	.0	3.9		.0	.0	7.
977 Total	3.4	28.2	.0	3.5	.5	.0	.0	7.0
978 Total	4.5	53.1	.0	3.7 4.1	.3	.0	.1	6.
979 Total	2.6	62.0	.0	3.5	.2	.0	2.3	7.0
980 Total	2.2	82.8	.0	3.5 4.2	(8)	.0	3.2	6.7
981 Total	2.7	86.0	.0 .0		.1	.0	3.5	5.2
982 Total	6.8	104.5	.0	3.7	.2	.0	2.9	9.4
983 Total	5.8	109.1		3.9	.1	.0	3.8	8.8
984 Total	6.9	127.2	.0	3.6	.2	.0	9.0	10.7
985 Total	7.0		.0	3.8	.3	4.2	11.8	23.1
986 Total	8.7	152.0	.0	3.9	.3	5.9	16.5	28.0
987 Total		164.8	.0	4.2	.5	9.3	26.1	37.5
988 Total	.2	182.8	.0	3.6	.3	6.6	37.8	41.2
989 Total	.0	173.6	.0	3.7	.2	11.1	38.7	50.4
	.0	183.7	.0	4.0	.1	11.7	47.2	50.4 56.1
90 January	.0	15.0	.0	.3	(s)	6		
February	.0	12.0	.0	(s)		.6	4.0	5.4
March	.0	14.6	.0	(S) (S)	(s)	.5	4.6	4.5
April	.0	15.6	.0		(s)	.5	4.8	4.5
Мау	.0	16.6	.0 .0	(s)	(s)	.6	4.3	4.8
June	.0	16.0	.0 .0	.4	.1	1.2	4.0	4.1
July	.0	18.5	.0	.3	.1	1.2	4.4	3.5
August	.0	19.2		.4	.1	1.1	5.1	4.4
September	.0	15.8	.4	.4	.1	.8	5.2	5.0
October	.0	15.8	.4	.4	(s)	.6	4.2	4.1
November	.0		.5	.4	.0	.6	4.4	3.9
December	.0	14.8	.4	.4	(s)	5	4.0	4.7
Total	.0	16.7	.4	.4	(s)	.6	3.8	5.4
	.0	191.9	2.1	3.5	.4	8.9	52.9	54.2
91 January	.0	18.0	.5	.3	(s)	.6	4.1	5.0
February	.0	15.2	.4	.2	(s)	.5	4.1	5.3
March	.0	15.6	.5	.1	(S)	.5	4.5	4.6
April	.0	12.8	.5	.2	(s)			4.3
May	.0	12.6	.5	.4	.1	.7 .7	4.1	4.2
June	.0	14.8	.4	.4	(s)		4.1	4.8
July	.0	19.5	.4	.4	• •	.6	4.8	4.4
August	.0	22.1	.4	.4 .4	(s)	.7	5.5	4.7
September	.0	19.7	.9	.4	(s) (s)	.7	5.2	5.2
October	.0	19.1	.0	(s)	• •	.8	4.7	4.5
November	.0	17.6	.0	(S) .4	.1	1.2	4.9	4.7
December	.0	18.9	.5		(s)	1.1	4.8	4.4
Total	.0	205.8	.5 4.2	.4 3.3	(s) .4	1.1 9.7	5.2 56.3	4.7
2 January	.0	40 5	_		17	3,1	30.3	55.6
February		18.5	.5	.4	(s)	.9	4.6	5.4
2-Month Total	.0	24.4	.4	.3	.0	.4	4.0	4.6
	.0	42.9	.9	.7	.0	1.3	8.7	4.0 10.0
1 2-Month Total	.0	33.2	.9	.5	.1			
0 2-Month Total	.0	27.0	.0	.3	.1	1.1 1.2	8.5	9.9

See footnotes at end of Table 10.4c.

Table 10.4c Nuclear Electricity Gross Generation: Sweden Through United States and Total

(Billion Kilowatthours)

	Sweden	Switzerland	Talwan	United Kingdom ^b	Total ^c Excluding U.S.	United States	Total ^c
	2.1	6.2	·· 0.0	28.2	101.4	87.8	189.3
73 Total	2.1	7.0	.0	33.8	121.7	124.3	246.0
74 Total		7.7	.0	30.5	151.8	182.3	334.1
75 Total	12.0		.0	36.8	187.1	201.8	388.9
76 Total	16.0	7.9	••	38.1	207.8	264.2	472.0
77 Total	19.9	8.1	.1		263.5	292.4	555.9
978 Total	23.8	8.3	2.7	36.6		270.6	570.7
979 Total	21.0	11.8	6.3	38.5	300.1	265.4	619.8
980 Total	26.7	14.3	8.2	37.2	354.3		730.9
981 Total	37.7	15.2	10.7	38.9	442.4	288.5	788.5
982 Total	38.8	15.0	13.1	44.1	489.9	298.6	
983 Total	40.4	15.5	18.9	49.6	573.9	313.6	887.5
984 Total	51.3	16.3	24.3	54.1	717.7	343.8	1,061.5
	58.6	22.4	28.7	59.7	862.7	402.7	1,265.4
985 Total	69.9	22.5	26.9	58.2	944.8	434.1	1,378.9
986 Total		23.0	33.1	56.2	1,001.2	479.5	1,480.7
987 Total	67.2		29.9	59.4	1.038.7	554.1	1,592.8
988 Total	69.4	22.7		71.6	1,097.1	557.0	1,654.1
989 Total	65.6	22.8	28.3	71.0	1,007.1	•••••	
990 January	7.4	2.3	2.6	6.0	101.7	57.7	159.4
February	6.6	2.1	2.1	5.8	86.6	52.3	138.8
March	6.4	2.3	2.6	6.2	94.2	48.4	142.6
	5.4	2.2	2.2	5.2	92.1	40.6	132.7
April	4.8	2.1	2.8	5.2	87.2	45.1	132.3
May		1.3	2.9	5.2	82.9	48.5	131.4
June	4.3	1.3	3.5	4.3	88.9	54.7	143.6
July	2.7			4.9	89.7	57.9	147.6
August	4.2	1.0	3.4	5.9	88.9	51.1	140.0
September	5.2	1.9	3.0		96.4	45.6	142.0
October	6.7	2.3	3.0	4.8		47.4	143.7
November	7.0	2.2	2.3	6.4	96.3		161.0
December	7.4	2.3	2.4	6.9	106.8	54.2	
Total	68.2	23.6	32.9	66.6	1,121.5	603.4	1,724.9
	76	2.3	2.4	6.6	111.2	56.6	167.8
991 January	7.6	2.5	2.2	6.8	101.2	50.2	151.4
February	6.9		2.9	6.7	103.3	51.6	154.9
March	7.6	2.3		5.0	89.6	43.8	133.4
April	6.9	2.2	2.5	4.5	87.3	49.2	136.6
May	5.7	2.0	2.8			56.9	143.9
June	4.7	i 1.1	3.2	6.1	87.0	63.7	159.1
July	4.6	1.5	3.2	5.1	95.4		E 160.0
August	5.2	1.0	3.6	5.4	E 98.6	61.4	E 150.0
September	5.5	1.8	3.1	6.6	_ ^E 95.5	54.4	
October	7.2	2.3	3.1	5.9	E 101.2	50.2	E 151.4
November	7.3	2.2	3.0	5.2	E 101.7	48.7	E 150.4
	7.6	2.3	3.2	6.6	^E 110.5	56.3	_ ^E 166.8
December		22.9	35.3	70.4	^E 1,182.6	643.0	^E 1,825.6
Total	76.8	££.7					
1992 January	7.6	2.3	3.1	6.5	_ 113.2	60.6	173.7 E 1 05 0
February	6.8	2.1	2.2	6.3	E110.0	55.4	E 165.
2-Month Total	14.4	4.4	5.3	. 12.8	E 223.2	116.0	E 339.
			A F	13.4	212.4	106.8	319.3
1991 2-Month Total	14.5	4.4	4.5		188.3	110.0	298.
1990 2-Month Total	14.0	4.4	4.7	11.8	100.3	110.0	

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

 ^b Monthly data for the United Kingdom are totals for 4- or 5-week reporting periods, not calendar months.
 ^c "Total" equals nuclear-generated electricity from all countries except Bulgaria, China, Cuba, Czechoslovakia, Hungary, North Korea, Poland, Romania, the former U.S.S.R., and Yugoslavia.

R=Revised data. 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. U.S. geographic coverage is the 50 States and the District of Columbia.
 Monthly data may not sum to annual totals due to independent rounding, and precommercial generation is included in the annual totals but not in the monthly data. • Data for countries may not sum to world totals due to independent rounding.

Source: McGraw-Hill Publishing Company, Nucleonics Week.

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Appendix. Conversion Factors

Using Conversion Factors

Physical conversion factors can be used to compare energy quantities expressed in units of volume and weight. For example, 6.65 barrels of crude oil weighs approximately 1 short ton, as indicated in Table A1.

However, the heat content of a "short ton" of crude oil is greater than the heat content of a short ton of coal. The heat content, measured in British thermal units (Btu), of a given quantity of energy can be calculated by using the thermal conversion factors presented in Tables A2 through A9.

Based on the thermal conversion factor shown for crude oil (production) in Table A3, a short ton of crude oil has a heat content of approximately 39 million Btu (6.65 barrels times 5.8 million Btu per barrel equals 38.57 million Btu). As calculated from the thermal conversion factor for coal (production) in Table A6, a short ton of coal in 1988 had a heat content of 22 million Btu (1 short ton times 21.823 million Btu per short ton equals 21.823 million Btu). In 1988, therefore, a short ton of crude oil had a heat content almost two times greater than a short ton of coal.

Thermal conversion factors for hydrocarbon mixes (Table A2) 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.

The thermal conversion factors in Tables A2 through A9 are computed from final annual data wherever possible. When the current year's final data are not yet available for publication, thermal conversion factors for the current year are computed from the best available data and are noted as "preliminary." Sources are described in the section entitled "Thermal Conversion Factor Source Documentation," which follows Table A9 in this appendix.

Table A1. Physical Conversion Factorsfor Energy Units

Unit	Equivalent						
Crude Oil (Average Gravity)							
1 U.S. barrel	42	U.S.gallons					
1 short ton	6.65	barrels					
1 metric ton	7.33	barrels					
	Coal						
1 short ton	2,000	pounds					
1 long ton	2,240	pounds					
1 metric ton	2,204.62	pounds					
1 metric ton	1,000	kilograms					
	Uranium						
1 short ton U ₃ O ₈	0.769	metric ton of uranium					
1 short ton UFs	0.613	metric ton of uranium					
1 metric ton UF6	0.676	metric ton of uranium					
Wood (Av	erage Dry Hardw	ood)					
1 cord	1.25	short tons					
1 cord	128	cubic feet					
1 cubic foot	0.028	cubic meters					

Table A2. Approximate Heat Content of Petroleum Products

(Million Btu per Barrel)

Petroleum Product	Heat Content	Petroleum Product	Heat Conten
Asphalt Aviation Gasoline	5.048 4.326 4.130 5.825 3.082 3.308 3.974 5.670 5.355 5.670 6.065 5.253	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	5.248 5.825 6.000 6.024 5.418 3.836 6.287 6.836 5.248 6.000 5.825 5.418 5.537 5.796

a 60 percent butane and 40 percent propane. 70 percent ethane and 30 percent propane.

Source: See "Thermal Conversion Factor Source Documentation," which follows Table A9.

Table A3. Approximate Heat Content of Crude Oil, Crude Oil and Products, and Natural Gas Plant Liquids

(Million Btu per Barrel)

	r	Crude Oll		Crude Oil a	Natural Gas	
	Production	Imports	Exports	Imports	Exports	Plant Liquids
973 974 975 976 977 978 979 980 981 982 983 984 985 986 987 988 989 981 982 983 984 985 986 987 988 990 991 1 ^a 992 ^a	5.800 5.800	5.817 5.827 5.821 5.808 5.810 5.802 5.810 5.812 5.818 5.826 5.825 5.825 5.823 5.823 5.823 5.903 5.901 5.901 5.900 5.906 5.934 5.948	5.800 5.800	5.897 5.884 5.858 5.856 5.834 5.839 5.810 5.796 5.775 5.775 5.775 5.775 5.775 5.774 5.745 5.736 5.808 5.808 5.820 5.820 5.820 5.820 5.820 5.820 5.820 5.820 5.820 5.820	5.752 5.774 5.748 5.745 5.797 5.808 5.832 5.820 5.821 5.820 5.821 5.820 5.800 5.850 5.814 5.832 5.858 5.858 5.858 5.858 5.858 5.858 5.858 5.858 5.858 5.858 5.858 5.858 5.853 5.823	4.049 4.011 3.984 3.964 3.941 3.925 3.955 3.914 3.930 3.872 3.839 3.812 3.815 3.815 3.797 3.804 3.800 3.822 3.805

^a Preliminary. Note: Crude oil includes lease condensate.

Source: See "Thermal Conversion Factor Source Documentation," which follows Table A9.

Table A4. Approximate Heat Content of Petroleum Product Weighted Averages

(Million Btu per Barrel)

	Consumption							
	Residential and Commercial	industrial	Transportation	Electric Utilities	Total	Imports	Exports	LPG Consumption
		5.568	5.395	6.245	5.515	5.983	5.752	3.746
973	5.387 5.377	5.538	5.394	6.238	5.504	5.959	5.773	3.730
974		5.528	5.392	6.250	5.494	5.935	5.747	3,715
975	5.358 5.383	5.538	5.395	6.251	5.504	5.980	5.743	3.711
976	5.389	5.555	5.400	6.249	5.518	5.908	5.796	3.677
977	5.382	5.553	5,404	6.251	5.519	5.955	5.814	3.669
978	5.471	5.418	5.428	6.258	5.494	5.811	5.864	3.680
979	5.468	5.376	5.440	6.254	5.479	5.748	5.841	3.674
980		5.313	5.432	6.258	5.448	5.659	5.837	3.643
981	5.409	5.263	5.422	6.258	5,415	5.664	5.829	3.615
982	5.392	5.203	5.415	6.255	5,406	5.677	5.800	3.614
983	5.286	5.273	5.422	6.251	5.395	5.613	5.867	3.599
984	5.384		5.423	6.247	5.387	5.572	5.819	3.603
985	5.326	5.221	5.427	6.257	5.418	5.624	5.839	3.640
986	5.357	5.286	5.430	6.249	5.403	5,599	5.860	3.659
987	5.318	5.253	5.430	6.250	5.410	5.618	5.842	3.652
988	5.323	5.247 5.233	5,440	6.241	5.410	5.641	5.869	3.683
989	5.260	5.233	5.445	6.247	5.411	5.614	5.838	3.625
990	5.212	5.205	5.440	6.248	5.387	5.652	5.826	3.610
1991 ^a 1992 ^a	5.167 5.167	5.205	5.440	6.248	5.387	5.652	5.826	3.610

^a Preliminary. Note: Weighted averages of the products included in each category are calculated by using heat content values shown in Table A1. Source: See "Thermal Conversion Factor Source Documentation," which follows Table A9.

Table A5. Approximate Heat Content of Natural Gas

(Btu per Cubic Foot)

	Prod	uction		Consumption			
	Dry	Marketed (Wet)	Non-Electric Utility Users	Electric Utilities	Total	Imports	Exports
· · · · · · · · · · · · · · · · · · ·		4 000	1 000	1.024	1,021	1,026	1,023
973	1,021	1,093	1,020	1,022	1,024	1,027	1,016
974	1,024	1,097	1,024	1,026	1,024	1,026	1,014
)75	1,021	1,095	1,020	1,028	1,020	1,025	1,013
976	1,020	1,093	1,019		1,020	1.026	1,013
977	1,021	1,093	1,019	1,029	1,019	1,030	1,013
78	1,019	1,088	1,016	1,034		1,037	1,013
979	1,021	1,092	1,018	1,035	1,021	1,022	1,013
	1,026	1,098	1,024	1,035	1,026		1,011
81	1,027	1,103	1,025	1,035	1,027	1,014	1,011
82	1,028	1,107	1,026	1,036	1,028	1,018	
	1,031	1,115	1,031	1,030	1,031	1,024	1,010
84	1,031	1,109	1,030	1,035	1,031	1,005	1,010
985	1,032	1,112	1,031	1,038	1,032	1,002	1,011
986	1,030	1,110	1,029	1,034	1,030	997	1,008
387	1,031	1,112	1,031	1,032	1,031	999	1,011
988	1,029	1,109	1,029	1,028	1,029	1,002	1,018
89	1,031	1,107	1,031	1,030	1,031	1,004	1,019
90	1,031	1,106	1,030	1,034	1,031	1,012	1,018
991 ^a	1.031	1,106	1,030	1,034	1,031	1,012	1,018
992 ^a	1,031	1,106	1,030	1,034	1,031	1,012	1,018

^a Preliminary. Source: See "Thermal Conversion Factor Source Documentation," which follows Table A9.

Table A6. Approximate Heat Content of Coal

(Million Btu per Short Ton)

				Consumption				
	Production	Residential and Commercial	Coke Plants	Other Industrial ^a	Electric Utilities ^b	Total	Imports	Exports
1973	23.376	22.831	06 700	00 500				······································
1974	23.072	22.479	26.780	22.586	22.246	23.057	25.000	26.596
1975	22.897	22.261	26.778	22.419	21.781	22.677	25.000	26.700
1976	22.855	22.201	26.782	22.436	21.642	22.506	25.000	26.562
1977	22.555		26.781	22.530	21.679	22.498	25.000	26.601
978	22.248	22.919	26.787	22.322	21.508	22.265	25.000	26.548
A7A		22.466	26.789	22.207	21.275	22.017	25.000	26.478
979 980	22.454	22.242	26.788	22.452	21:364	22.100	25,000	26.548
001	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	
988	21.823	23.571	26.799	22.360	20.900	21.328	25.000	26.291
989	21.765	23.650	26.800	22.347	20.848	21.328		26.299
990	21.827	23,137	26.799	22.457	20.929	21.272	25.000	26.160
991°	21.690	23.204	26.800	22.276	20.801	21.331	25.000	26.202
992°	21.690	23.204	26.800	22.276			25.000	26.188
	21.000	20.204	20.000	22.276	20.801	21.169	25.000	26.188

^a Includes transportation.

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 A9.

Table A7. Approximate Heat Content of Bituminous Coal and Lignite

(Million Btu per Short Ton)

				Consumption			-	
	Production	Residential and Commercial	Coke Plants	Other Industrial ^a	Electric Utilities	Total	Imports	Exports
1072	00.004							<u> </u>
973	23.391	22.887	26.800	22.585	22.262	23.073	25.000	26.612
1974	23.087	22.523	26.800	22.420	21.799	22.694	25.000	26.716
1975	22.910	22.258	26.800	22.439	21.659	22.522	25.000	26.573
976	22.863	22.819	26.800	22.528	21.692	22,509	25.000	26.613
977	22.597	22.594	26.800	22.290	21.521	22,266	25.000	26.561
978	22.242	22.078	26.800	22.175	21.284	22.014	25.000	26.501
979	22.449	21.884	26.800	22.436	21.372	22.100	25.000	26.570
980	22.411	22.488	26.800	22.690	21.301	21.950	25.000	
981	22.301	22.010	26.800	22.572	21.091	21.550		26.404
982	22.233	22.226	26.800	22.695	21.200	21.670	25.000	26.176
983	22.048	22.438	26.800	22.680			25.000	26.231
984	22.005	22.406	26.800	22.525	21.141	21.576	25.000	26.300
985	21.867	22.568	26.800	22.013	21.108	21.570	25.000	26.410
986	21.908	22.669	26.800	22.185	20.965	21.368	25.000	26.320
987	21.918	22.800	26.800		21.091	21.462	25.000	26.308
988	21.817	23.135	26.800	22.360	21.143	21.514	25.000	26.304
989	21.759	22.917		22.341	20.905	21.324	25.000	26.308
990	21.819		26.800	22.324	20.854	21.268	25.000	26.166
no+b		22.678	26.800	22.444	20.935	21.330	25.000	26.207
nooh	21.687	22.579	26.800	22.260	20.807	21.167	25.000	26,192
992~	21.687	22.579	26.800	22.260	20.807	21.167	25.000	26,192

^a Includes transportation.
 ^b Preliminary.
 Source: See "Thermal Conversion Factor Source Documentation," which follows Table A9.

Table A8. Approximate Heat Content of Anthracite and Coal Coke

(Million Btu per Short Ton)

		Anthracite					
ľ			Consumption			Coal Coke	
	Production	Non-Electric Utility Users	Electric Utilities	Total	Imports and Exports	and Exports	
,,,,,,, _				21,464	25.400	24.800	
/3	22.132	22.674	17.920	20.919	25,400	24.800	
4	21.711	22.330	17.200	20.762	25.400	24.800	
75	21.582	22.272	17.064	21.254	25.400	24.800	
76	22.045	22.618	17.526	21.254	25.400	24.800	
77	22.661	24.101	17.244	22.398	25.400	24.800	
78	23.079	24.388	17.104		25.400	24.800	
79	23.170	24.272	17.454	22.069	25.400	24.800	
30	22.869	22.719	17.652	21.405	25.400	24.800	
31	23.291	23.749	18.168	22.080	25.400	24.800	
82	23.289	24.578	18.160	22.518		24.800	
83	22.734	24.536	16.516	21.583	25.400	24.800	
34	23,107	25.128	17.018	22.322	25.400		
85	22.428	23.031	16.784	20.817	25.400	24.800	
86	23.084	24.399	15.578	21.512	25.400	24.800	
87	23.108	26.293	15.962	22.435	25.400	24.800	
88	23.266	26.021	17.312	22.423	25.400	24.800	
	23.385	27.196	16.310	22.623	25.400	24.800	
89	22.574	25,199	16,140	21.668	25.400	24.800	
90	22.572	26.011	15.858	21.706	25.400	24.800	
991 ^a 992 ^a	22.572	26.011	15.858	21.706	25,400	24.800	

^a Preliminary. Source: See "Thermal Conversion Factor Source Documentation," which follows Table A9.

Table A9. Approximate Heat Rates for Electricity

(Btu per Kilowatthour)

	Fossil-Fueled Steam-Electric Plants ^a	Nuclear Steam-Electric Plants	Geothermal Energy Plants	Electricity Consumption
		40.000	21,674	3.412
73	10,389	10,903	21,674	3,412
	10,442	11,161	21,611	3,412
75	10,406	11,013	21,611	3,412
76	10,373	11,047		3,412
77	10,435	10,769	21,611	3,412
78	10,361	10,941	21,611	3,412
79	10,353	10,879	21,545	
80	10,388	10,908	21,639	3,412
81	10,453	11,030	21,639	3,412
82	10,454	11,073	21,629	3,412
83	10,520	10,905	21,290	3,412
84	10,323	10,843	21,303	3,412
	10,339	10.813	21,263	3,412
985	10,261	10,799	21,263	3,412
986	10,253	10.776	21,263	3,412
987	10,235	10,743	21,096	3,412
		10,724	21,096	3,412
89	10,331	10.680	21,096	3,412
990	10,335	10,680	21,096	3,412
991 ^b	10,335	•	21,096	3,412
992 ⁶	10,335	10,680	21,000	

a This thermal conversion factor is used for hydroelectric power generation and for wood and waste, wind, photovoltaic, and solar thermal energy consumed at electric utilities. ^b Preliminary. Source: See "Thermal Conversion Factor Source Documentation," which follows this table.

Thermal Conversion Factor Source Documentation

Approximate Heat Content of Petroleum and Natural Gas Plant Liquids

Asphalt. The Energy Information Administration (EIA) adopted the thermal conversion factor of 6.636 million British thermal units (Btu) per barrel as estimated by the Bureau of Mines and first published in the *Petroleum Statement*, Annual, 1956.

Aviation Gasoline. EIA adopted the Bureau of Mines thermal conversion factor of 5.048 million Btu per barrel as published for "Gasoline, Aviation" 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 as published in the *California Oil World and Petroleum Industry*, First Issue, April 1942.

Butane-Propane Mixture. EIA adopted the Bureau of Mines calculation of 4.130 million Btu per barrel based on an assumed mixture of 60 percent butane and 40 percent propane. See "Butane" and "Propane."

Crude Oil, Exports. Assumed by EIA to be 5.800 million Btu per barrel or equal to the thermal conversion factor for crude oil produced in the United States. See Crude Oil and Lease Condensate, Production.

Crude Oil, Imports. Calculated annually by EIA by weighting the thermal conversion factor of each type of crude oil imported by the quantity imported. Thermal conversion factors for each type were calculated on a foreign country basis, by determining the average American Petroleum Institute (API) gravity of crude imported from each foreign country from Form ERA-60 in 1977 and converting average API gravity to average Btu content by using National Bureau of Standards, Miscellaneous Publication No. 97, Thermal Properties of Petroleum Products, 1933.

Crude Oil and Lease Condensate, Production. EIA adopted the thermal conversion factor of 5.800 million Btu per barrel as reported in a Bureau of Mines internal memorandum, "Bureau of Mines Standard Average Heating Values of Various Fuels, adopted January 3, 1950."

Crude Oil and Petroleum Products, Exports. Calculated annually by EIA as the average of the thermal conversion factors for each petroleum product exported and crude oil exported weighted by the quantity of each petroleum product and crude oil exported. See "Crude Oil, Exports" and "Petroleum Products, Exports."

Crude Oil and Petroleum Products, Imports. Calculated annually by EIA as the average of the thermal conversion factors for each petroleum product and each type of crude oil imported weighted by the quantity of each petroleum product and each type of crude oil imported. See "Crude Oil, Imports" and "Petroleum Products, Imports."

Distillate Fuel Oil. EIA adopted the Bureau of Mines thermal conversion factor of 5.825 million Btu per barrel as reported in a Bureau of Mines internal memorandum, "Bureau of Mines Standard Average Heating Value of Various Fuels, adopted January 3, 1950."

Ethane. EIA adopted the Bureau of Mines thermal conversion factor of 3.082 million Btu per barrel as published 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 as published in the *California Oil World and Petroleum Industry*, First Issue, April 1942.

Jet Fuel, Kerosene Type. EIA adopted the Bureau of Mines thermal conversion factor of 5.670 million Btu per barrel as published for "Jet Fuel, Commercial" 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 as published for "Jet Fuel, Military" 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."

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 as published 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 naphtha. See "Special Naphtha."

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 the 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, 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.

Petroleum Products, 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.

Plant Condensate. Estimated to be 5.418 million Btu per barrel by EIA from data provided by McClanahan Consultants, Inc., Houston, Texas.

Propane. EIA adopted the Bureau of Mines thermal conversion factor of 3.836 million Btu per barrel as

published in the California Oil World and Petroleum Industry, First Issue, April 1942.

Residual Fuel Oil. EIA adopted the thermal conversion factor of 6.287 million Btu per barrel as reported in the Bureau of Mines internal memorandum, "Bureau of Mines Standard Average Heating Values of Various Fuels, adopted January 3, 1950."

Road Oil. EIA adopted the Bureau of Mines thermal conversion factor of 6.636 million Btu per barrel, which was assumed to be equal to that of asphalt (see "Asphalt") and was first published by the Bureau of Mines in the *Petroleum Statement*, Annual, 1970.

Special Naphtha. 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, 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: 1980-1990: EIA, Natural Gas Annual 1990, Volume 2, Table 15. 1991 forward: 1990 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 Non-Electric Utility Users. Calculated annually by EIA by dividing the heat content of natural gas consumed by non-electric utility consumers by the quantity of non-electric utility natural gas consumed. 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, 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, Consumption. Calculated annually by EIA by dividing the sum of the heat content of anthracite consumed by electric utilities and non-electric utilities 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 Non-Electric Utility Users. 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 non-electric utility anthracite consumption 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, 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 Non-Electric Utility Users. Calculated annually by EIA by dividing the sum of the heat content of bituminous coal and lignite and anthracite consumed by non-electric utility users 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. EIA has selected a rate 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. 1973-1989: 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* 1989, Table 11. 1990: Prepublished data. 1991 forward: 1990 value used as an estimate.

Geothermal Energy Plant Generation. 1973-1981: Calculated annually by EIA by weighting the average annual 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. 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. 1983-1989: Electric Plant Cost and Power Production Expenses 1989, Table 15. 1990: Prepublished data. 1991 forward: 1990 value used as an estimate. 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). Excluded are 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.

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

Quantity of Fuel, Gross and Heat Content of a Quantity of Fuel, Net.

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

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

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

Butylene: An olefinic hydrocarbon (C_4H_8) recovered from refinery processes.

Capacity Factor: The ratio of the electrical energy produced by a generating unit for the period of time considered 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 $2,000^{\circ}$ 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. SIC codes used to classify an establishment as commercial are 50 through 87, 89, and 91 through 97.

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. 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 1951-1980). 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 Utilities: All privately owned companies and all publicly owned agencies engaged in the generation, transmission, or distribution of electric power for public use. Publicly owned agencies include municipal electric utilities; Federal power projects, such as the Tennessee Valley Authority (TVA); rural electrification cooperatives; power districts; and State power projects.

Electric Utility: A corporation, person, agency, authority, or other legal entity or instrumentality that owns and/or operates facilities within the United States, its territories, or Puerto Rico for the generation, transmission, distribution, or sale of electric energy, primarily for use by the public. An entity that solely operates qualifying facilities under the Public Utility Regulatory Policies Act of 1978 is not considered an electric utility.

Electric Utility Sector: Privately and publicly owned establishments that generate electricity primarily for use by the public.

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

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

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

Energy Consumption, End-Use: Primary end-use energy consumption is the sum of fossil fuel consumption by the four end-use sectors (residential, commercial, industrial, and transportation) and generation of hydroelectric power by nonelectric utilities. Net end-use energy consumption includes electric utility sales to those sectors but excludes electrical system energy losses. Total end-use energy consumption includes both electric utility sales to the four end-use sectors and electrical system energy losses.

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

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

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

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

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

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

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

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

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

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

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

f.o.b.: Sée 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.

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.

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

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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 that is supplied to steam turbines at electric utilities that drive generators to produce electricity.

Gross National Product (GNP): The total value of goods and services produced by the Nation's economy, before deduction of depreciation charges and other allowances for capital consumption. It includes the total purchases of goods and services by private consumers and government, gross private domestic capital investment, and net foreign trade.

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 useable 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 the sector range from steel mills, to small farms, to companies assembling electronic components. The SIC codes used to classify establishments as industrial are 1 through 39.

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. Lubricants categories are paraffinic and naphthenic.

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, and reformate). 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. The Reid Vapor Pressure ranges from 9 to 15 pounds per square inch. Motor gasoline includes finished leaded gasoline, finished unleaded gasoline, and 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 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.

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 Associations 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.

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

Pentanes Plus: A mixture of hydrocarbons, mostly pentanes and heavier, extracted from natural gas. Includes isopentane, natural gasoline, and plant condensate.

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.

Primary Consumption: See Energy Consumption, End-Use.

Propane: A normally gaseous straight-chain hydrocarbon (C_3H_8). It is a colorless paraffinic gas that boils at a temperature of -43.67° F. It is extracted from natural gas or refinery gas streams. It includes all products designated in ASTM Specification D1835 and Gas Processors Association Specifications for commercial propane and HD-5 propane.

Propylene: An olefinic hydrocarbon (C_3H_6) recovered from refinery or petrochemical processes.

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

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

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

Reservoir 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. The SIC code used to classify an establishment as residential is 88 (Household).

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.

Subbituminous Coal: A dull, black coal of rank intermediate between lignite and bituminous coal. It conforms to ASTM Specification D388-84 for subbituminous coal.

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: 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. The SIC codes used to classify establishments as belonging to the transportation sector are 40 through 49.

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 phase 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.

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.

Wind Energy (as used at electric utilities): The kinetic energy of wind converted at electric utilities into mechanical energy by wind turbines (i.e., blades rotating from a hub) that drive generators to produce electricity for distribution.

Wood and Waste (as used at electric utilities): Wood energy, garbage, bagasse, sewerage gas, and other industrial, agricultural, and urban refuse used to generate electricity for distribution. Wood Energy: Wood and wood products used as fuel, including round wood (cord wood), limb wood, wood chips, bark, sawdust, forest residues, charcoal, pulp waste, and spent pulping liquor.

Working Gas: The gas in a reservoir that is in addition to the base (cushion) gas. It may or may not be completely withdrawn during any particular withdrawal season. Conditions permitting, the total working capacity could be used more than once during any given season.

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