

Monthly Energy Review



March 2007

Monthly Energy Review

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Note: PDF files display selected annual and monthly data. Excel and CSV files display all available annual and monthly data, often at a greater level of precision than the PDF files.

Cover Photographs

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Monthly Energy Review

March 2007

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Office of Energy Markets and End Use
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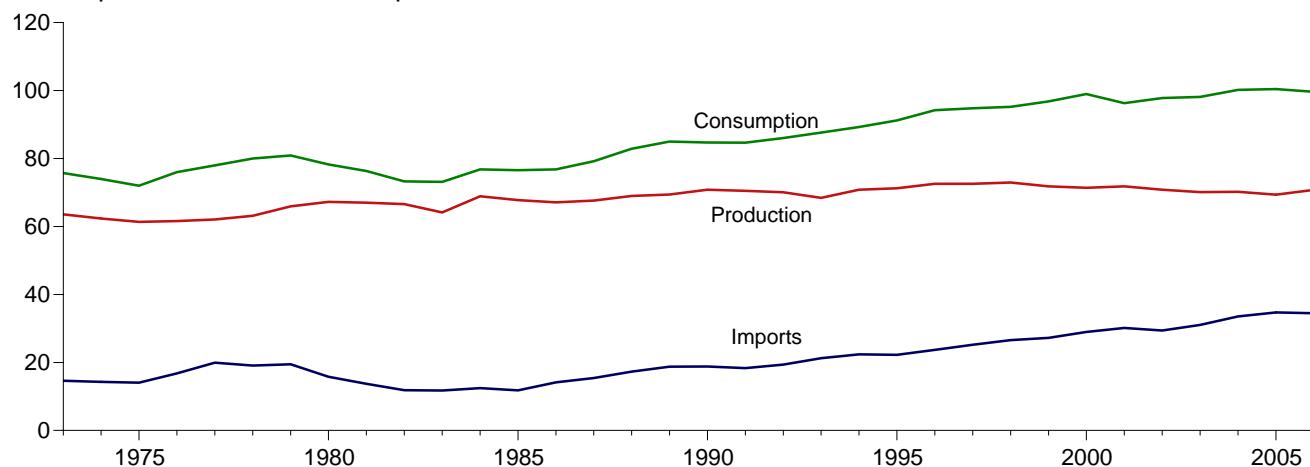
Energy Overview



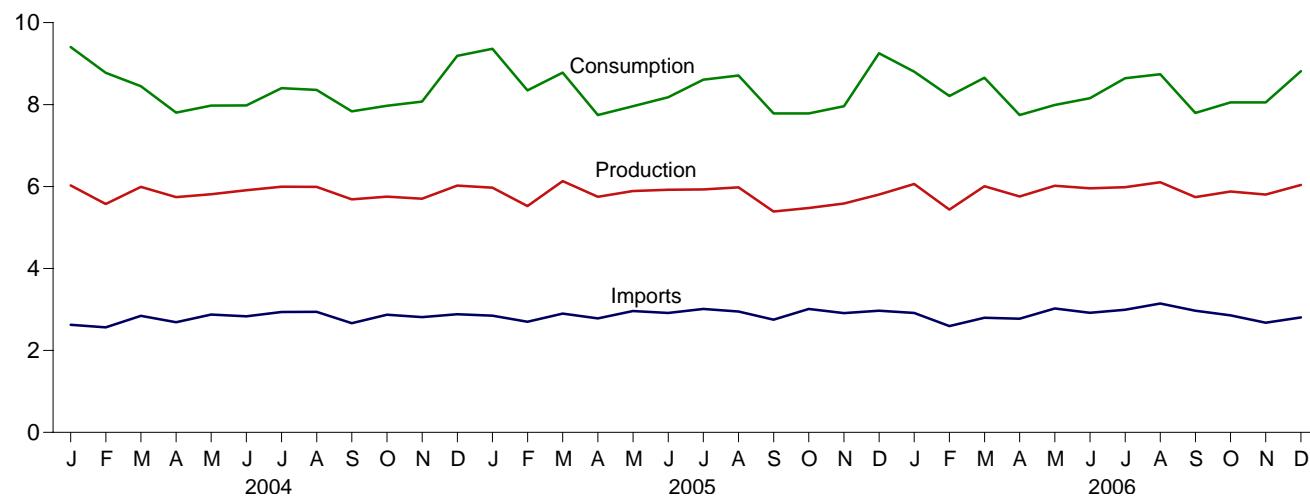
The continental United States at night from orbit. Source: National Oceanographic and Atmospheric Administration satellite imagery; mosaic provided by U.S. Geological Survey.

Figure 1.1 Energy Overview
(Quadrillion Btu)

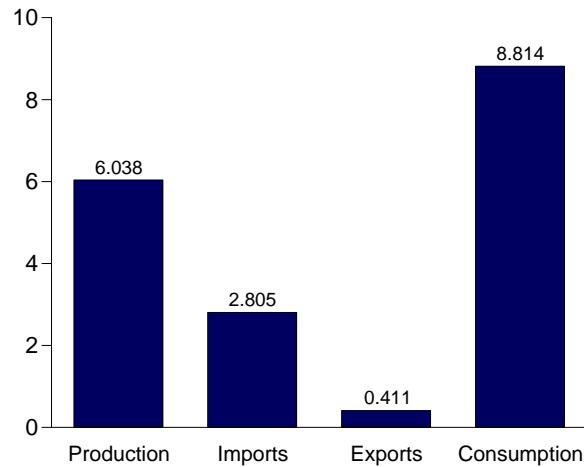
Consumption, Production, and Imports, 1973-2005



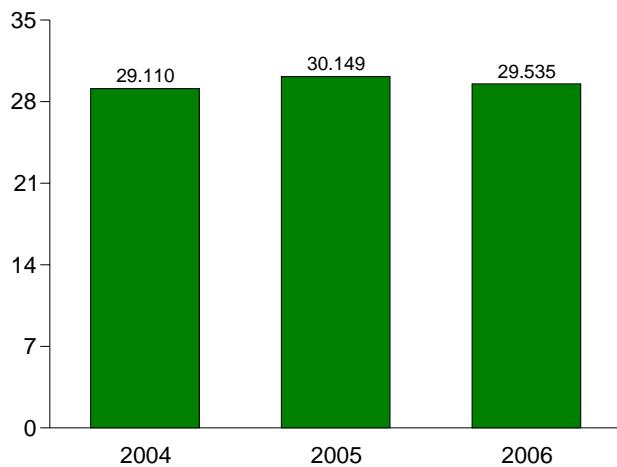
Consumption, Production, and Imports, Monthly



Overview, December 2006



Net Imports, January-December



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

Web Page: <http://www.eia.doe.gov/emeu/mer/overview.html>.

Sources: Tables 1.1 and 1.4.

Table 1.1 Energy Overview

(Quadrillion Btu)

	Production	Imports	Exports	Adjustments ^a	Consumption
1973 Total	63.585	14.613	2.033	-0.456	75.708
1975 Total	61.357	14.032	2.323	-1.067	71.999
1980 Total	67.232	15.796	3.695	-1.054	78.280
1985 Total	67.758	11.781	4.196	1.238	76.580
1990 Total	70.822	18.817	4.752	-.157	84.730
1995 Total	71.235	22.260	4.511	2.215	91.200
1996 Total	72.581	23.702	4.633	2.577	94.226
1997 Total	72.560	25.215	4.514	1.538	94.800
1998 Total	72.951	26.581	4.299	-.032	95.200
1999 Total	71.824	27.252	3.715	1.476	96.837
2000 Total	71.402	28.973	4.006	2.608	98.976
2001 Total	R 71.793	30.157	3.770	-1.861	R 96.318
2002 Total	R 70.810	29.407	3.668	1.259	R 97.808
2003 Total	R 70.114	31.060	4.054	1.000	R 98.121
2004 January	R 6.028	2.624	.299	1.050	R 9.404
February	R 5.575	2.562	.312	.952	R 8.778
March	R 5.991	2.843	.388	.003	R 8.448
April	R 5.742	2.689	.410	-.217	R 7.804
May	R 5.814	2.875	.390	-.325	R 7.974
June	R 5.908	2.832	.390	-.370	R 7.980
July	R 5.995	2.940	.372	-.162	R 8.401
August	R 5.992	2.944	.375	-.203	R 8.358
September	R 5.688	2.665	.362	-.155	R 7.836
October	R 5.753	2.873	.351	-.302	R 7.973
November	R 5.702	2.812	.350	-.092	R 8.073
December	R 6.024	2.884	.434	.717	R 9.190
Total	R 70.212	33.543	4.433	.897	R 100.218
2005 January	R 5.972	2.848	.366	.906	R 9.360
February	R 5.521	2.700	.376	.500	R 8.346
March	R 6.132	2.900	.415	.161	R 8.778
April	R 5.749	2.781	.402	-.384	R 7.743
May	R 5.892	2.962	.443	-.453	R 7.958
June	R 5.922	2.915	.462	-.195	R 8.180
July	R 5.928	3.012	.395	.062	R 8.608
August	R 5.981	2.950	.399	.178	R 8.709
September	R 5.392	2.749	.309	-.049	R 7.784
October	R 5.477	3.012	.312	-.391	R 7.785
November	R 5.587	2.910	.302	-.236	R 7.959
December	R 5.805	2.970	.380	.856	R 9.251
Total	R 69.357	34.710	4.561	.955	R 100.461
2006 January	R 6.062	R 2.917	.362	R .188	R 8.805
February	R 5.439	R 2.595	R .343	R .521	R 8.212
March	R 6.006	R 2.799	R .385	R .234	R 8.654
April	R 5.759	R 2.775	.385	R -.406	R 7.743
May	R 6.020	R 3.022	.438	-.611	R 7.993
June	R 5.955	R 2.919	.421	-.298	R 8.155
July	R 5.984	R 2.991	R .405	R .073	R 8.643
August	R 6.105	R 3.144	R .424	R .085	R 8.740
September	R 5.741	R 2.971	R .466	R .451	R 7.796
October	R 5.877	R 2.856	R .446	R .233	R 8.053
November	R 5.805	R 2.679	R .454	R .023	R 8.052
December	6.038	2.805	.411	.381	8.814
Total	70.790	34.474	4.939	R -.663	99.661

^a A balancing item. Includes stock changes, losses, gains, miscellaneous blending components, and unaccounted-for supply.

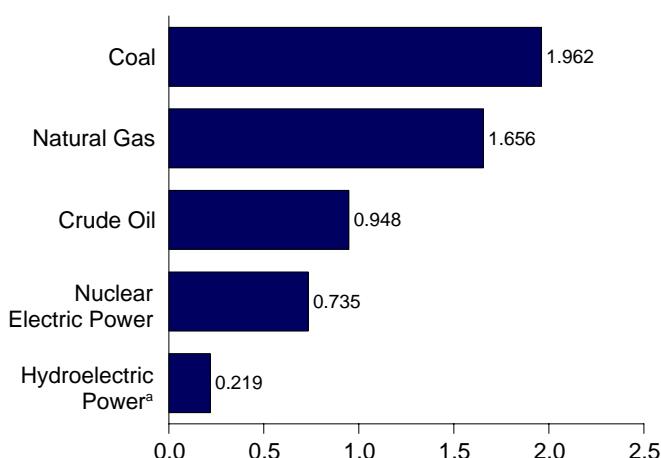
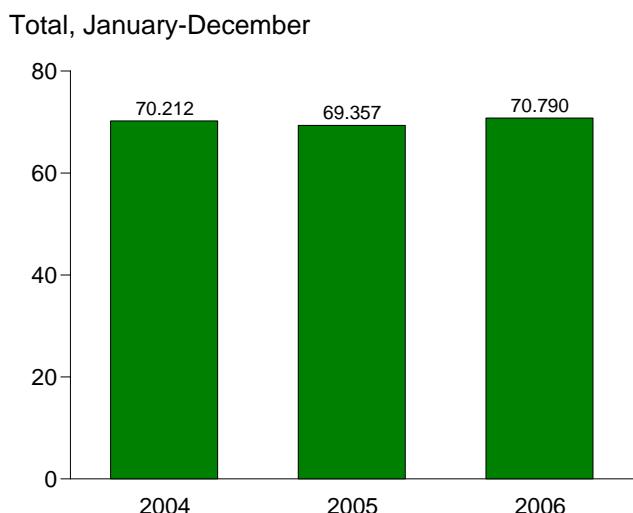
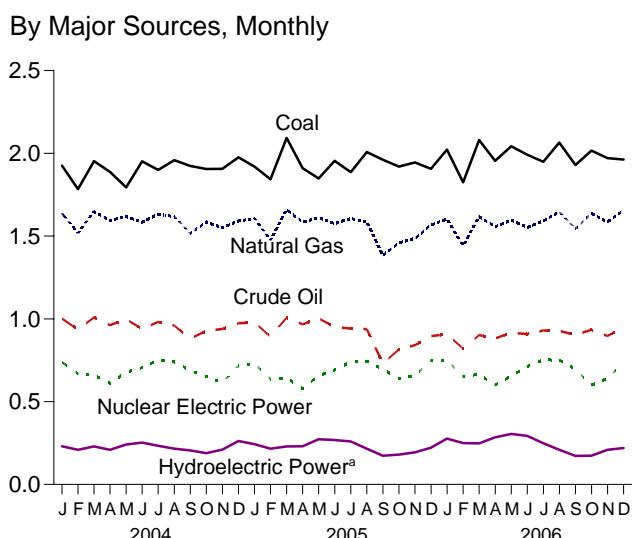
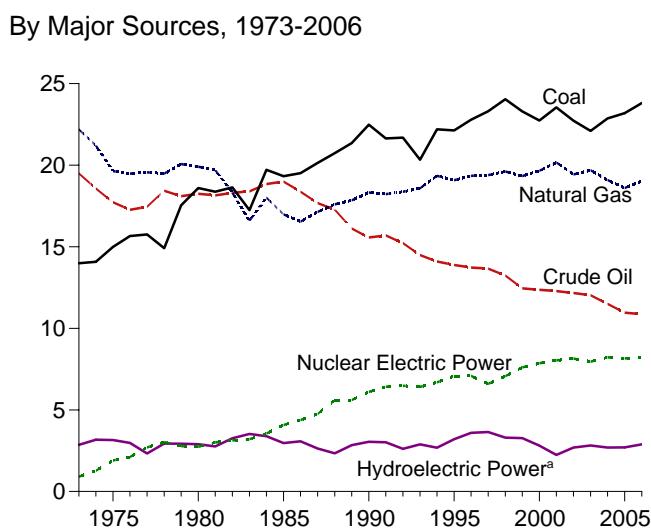
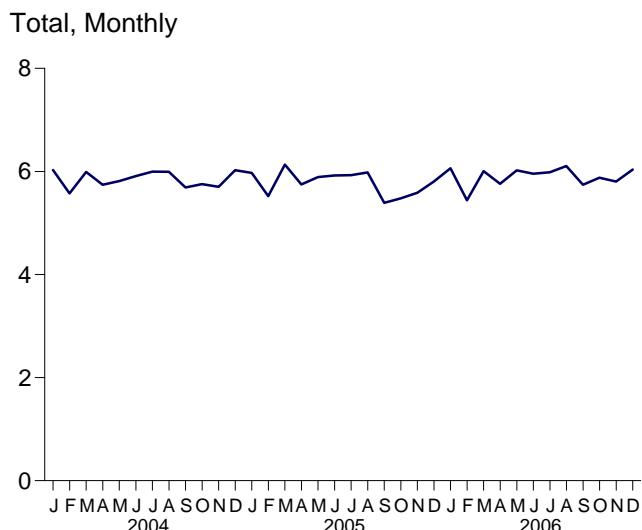
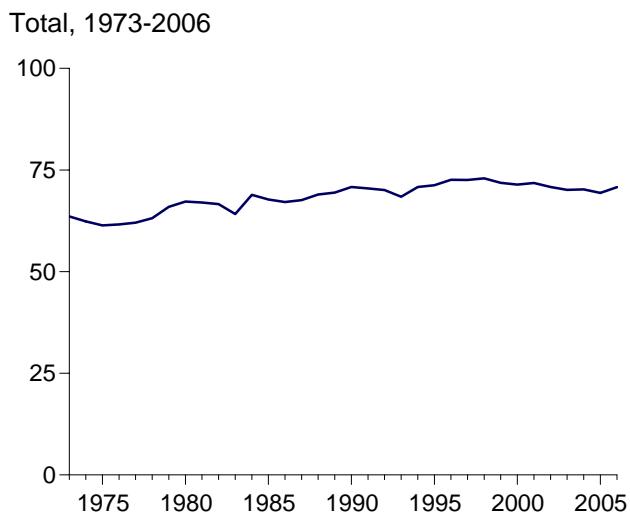
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Notes: • For definitions, see Notes 1 through 4 at end of section.
 • Totals may not equal sum of components due to independent rounding.
 • Geographic coverage is the 50 States and the District of Columbia.

Web Page: For annual data not displayed between 1973 and 1995, see <http://www.eia.doe.gov/emeu/mer/overview.html>.

Sources: • **Production:** Table 1.2. • **Consumption:** Table 1.3. • **Imports and Exports:** Tables 3.1a, 3.1b, 4.3, 6.1, 7.1, A2, A4-A6, and Section 2, "Energy Consumption Notes and Sources," Note 5.

Figure 1.2 Energy Production (Quadrillion Btu)



^aConventional hydroelectric power.

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

Web Page: <http://www.eia.doe.gov/emeu/mer/overview.html>.
Source: Table 1.2.

Table 1.2 Energy Production by Source
(Quadrillion Btu)

	Fossil Fuels					Nuclear Electric Power	Hydro-electric Power ^e	Bio-mass ^f	Renewable Energy ^a			Total	
	Coal ^b	Natural Gas (Dry)	Crude Oil ^c	NGPL ^d	Total				Geothermal	Solar	Wind		
1973 Total	13.992	22.187	19.493	2.569	58.241	0.910	2.861	1.529	0.043	NA	NA	4.433	63.585
1975 Total	14.989	19.640	17.729	2.374	54.733	1.900	3.155	1.499	.070	NA	NA	4.723	61.357
1980 Total	18.598	19.908	18.249	2.254	59.008	2.739	2.900	2.475	.110	NA	NA	5.485	67.232
1985 Total	19.325	16.980	18.992	2.241	57.539	4.076	2.970	2.975	.198	(s)	(s)	6.144	67.758
1990 Total	22.488	18.326	15.571	2.175	58.560	6.104	3.046	2.687	.336	.060	.029	6.158	70.822
1995 Total	22.130	19.082	13.887	2.442	57.540	7.075	3.205	3.018	.294	.070	.033	6.620	71.235
1996 Total	22.790	19.344	13.723	2.530	58.387	7.087	3.590	3.098	.316	.071	.033	7.107	72.581
1997 Total	23.310	19.394	13.658	2.495	58.857	6.597	3.640	3.037	.325	.070	.034	7.107	72.560
1998 Total	24.045	19.613	13.235	2.420	59.314	7.068	3.297	2.843	.328	.070	.031	6.569	72.951
1999 Total	23.295	19.341	12.451	2.528	57.614	7.610	3.268	2.886	.331	.069	.046	6.599	71.824
2000 Total	22.735	19.662	12.358	2.611	57.366	7.862	2.811	2.922	.317	.066	.057	6.173	71.402
2001 Total	23.547	20.166	12.282	2.547	58.541	8.033	2.242	R 2.531	.311	.065	.070	R 5.219	R 71.793
2002 Total	22.732	19.439	12.163	2.559	56.894	8.143	2.689	R 2.586	.328	.064	.105	R 5.774	R 70.810
2003 Total	22.099	19.691	12.026	2.346	56.162	7.959	2.825	R 2.660	.331	.064	.115	R 5.993	R 70.114
2004 January	1.925	1.638	1.002	.208	4.773	.738	.230	R .242	.030	.005	.010	R .517	R 6.028
February	1.783	1.518	.935	.194	4.430	.668	.210	R .225	.028	.005	.010	R .477	R 5.575
March	1.953	1.649	1.008	.211	4.820	.660	.230	R .234	.029	.006	.013	R .511	R 5.991
April	1.888	1.594	.962	.199	4.642	.611	.209	R .234	.027	.005	.013	R .488	R 5.742
May	1.794	1.618	.998	.206	4.616	.677	.241	R .230	.028	.006	.017	R .521	R 5.814
June	1.951	1.584	.939	.194	4.669	.706	.253	R .232	.028	.006	.014	R .533	R 5.908
July	1.899	1.632	.981	.209	4.722	.750	.234	R .242	.029	.006	.012	R .523	R 5.995
August	1.958	1.618	.959	.215	4.751	.741	.216	R .239	.029	.006	.011	R .501	R 5.992
September	1.924	1.517	.881	.201	4.522	.687	.206	R .229	.027	.005	.011	R .478	R 5.688
October	1.905	1.585	.927	.210	4.628	.652	.189	R .239	.029	.005	.010	R .473	R 5.753
November	1.906	1.549	.939	.209	4.603	.615	.210	R .233	.028	.005	.009	R .485	R 5.702
December	1.975	1.591	.973	.210	4.750	.715	.263	R .250	.029	.005	.012	R .558	R 6.024
Total	22.862	19.093	11.503	2.466	55.924	8.222	2.690	R 2.828	.341	.065	.142	R 6.066	R 70.212
2005 January	1.920	1.606	.978	.209	4.714	.729	.243	R .242	.029	.005	.011	R .530	R 5.972
February	1.843	1.475	.892	.195	4.405	.636	.216	R .225	.025	.005	.010	R .480	R 5.521
March	2.093	1.659	1.007	.216	4.976	.642	.229	R .235	.028	.005	.016	R .514	R 6.132
April	1.910	1.583	.967	.206	4.666	.579	.231	R .223	.028	.005	.017	R .504	R 5.749
May	1.848	1.612	1.003	.213	4.676	.657	.273	R .233	.029	.006	.017	R .558	R 5.892
June	1.955	1.576	.950	.199	4.680	.690	.268	R .231	.029	.006	.018	R .552	R 5.922
July	1.886	1.606	.942	.202	4.636	.742	.260	R .242	.030	.006	.014	R .551	R 5.928
August	2.007	1.586	.938	.199	4.731	.745	.216	R .243	.029	.006	.011	R .505	R 5.981
September	1.961	1.383	.731	.167	4.242	.696	.174	R .231	.028	.005	.015	R .453	R 5.392
October	1.920	1.458	.815	.178	4.372	.639	.180	R .237	.029	.005	.014	R .466	R 5.477
November	1.945	1.487	.842	.181	4.455	.656	.194	R .233	.028	.005	.016	R .476	R 5.587
December	1.906	1.567	.896	.168	4.538	.749	.221	R .244	.029	.005	.018	R .518	R 5.805
Total	23.195	18.598	10.963	2.334	55.090	8.160	2.703	R 2.820	.343	.064	.178	R 6.108	R 69.357
2006 January	R 2.022	E 1.603	E .907	.194	R 4.726	.750	.277	R .251	.029	.005	.024	R .586	R 6.062
February	R 1.825	E 1.443	E .820	R .174	R 4.262	.653	.250	R .224	.026	.005	.019	R .524	R 5.439
March	R 2.080	E 1.618	E .902	R .194	R 4.794	.664	.248	R .241	.030	.005	.024	R .548	R 6.006
April	R 1.955	E 1.556	E .882	.193	R 4.585	.600	.285	R .232	.027	.005	.025	R .574	R 5.759
May	R 2.043	E 1.596	E .917	.202	R 4.758	.655	.305	R .245	.026	.006	.024	R .607	R 6.020
June	R 1.991	E 1.553	E .908	R .195	R 4.647	.713	.293	R .248	.029	.006	.020	R .595	R 5.955
July	R 1.948	E 1.591	E .930	R .202	R 4.671	.753	.249	R .256	.030	.006	.019	R .559	R 5.984
August	R 2.064	E 1.646	E .927	.199	R 4.836	.751	.209	R .257	.030	.006	.016	R .518	R 6.105
September	R 1.929	E 1.545	E .903	R .198	R 4.575	.695	.172	R .248	.029	.005	.018	R .472	R 5.741
October	R 2.017	R 1.636	E .934	R .204	R 4.791	.600	.173	R .254	.030	.005	.024	R .486	R 5.877
November	R 1.971	E 1.584	E .896	R .197	R 4.648	.640	.209	R .250	.029	.005	.023	R .516	R 5.805
December	1.962	E 1.656	E .948	.200	4.766	.735	.219	.259	.030	.005	.023	.537	6.038
Total	23.807	E 19.027	E 10.874	2.351	56.059	8.208	2.889	2.965	.346	.064	.258	6.523	70.790

^a End-use consumption and electricity net generation.

^b Beginning in 1989, includes waste coal supplied. Beginning in 2001, also includes a small amount of refuse recovery. See Table 6.1.

^c Includes lease condensate.

^d Natural gas plant liquids.

^e Conventional hydroelectric power.

^f Wood, waste, and alcohol fuels (ethanol blended into motor gasoline).

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

Notes: • See Note 1, "Energy Production," at end of section. • Totals may

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

Web Page: For annual data not displayed between 1973 and 1995, see <http://www.eia.doe.gov/emeu/mer/overview.html>.

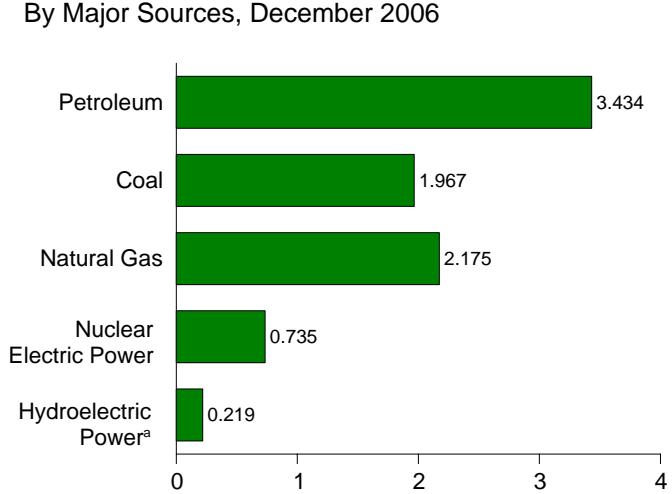
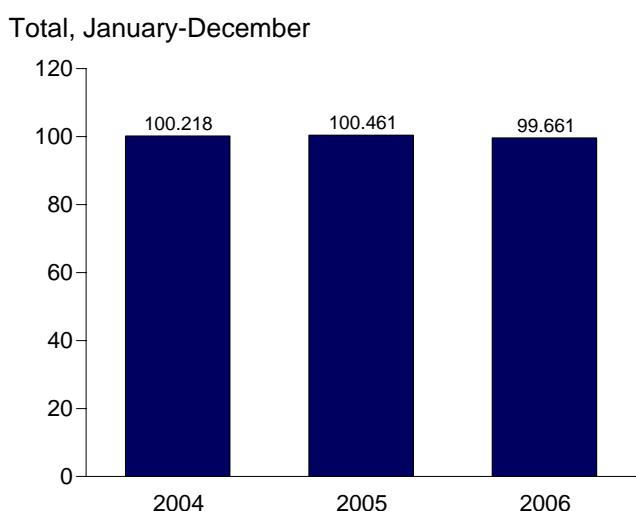
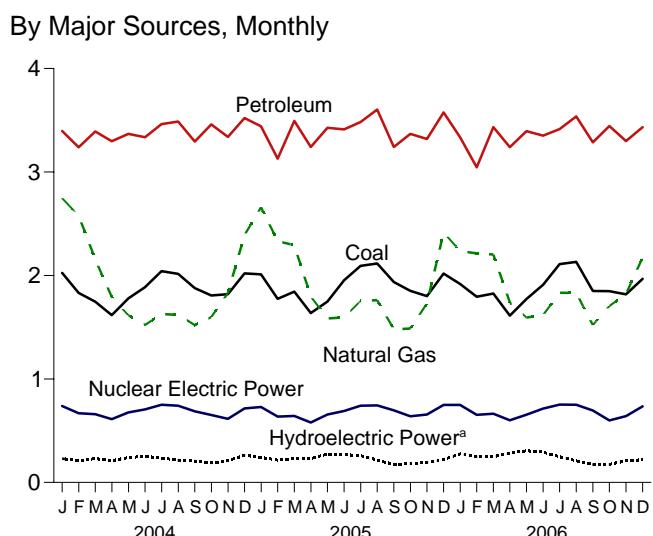
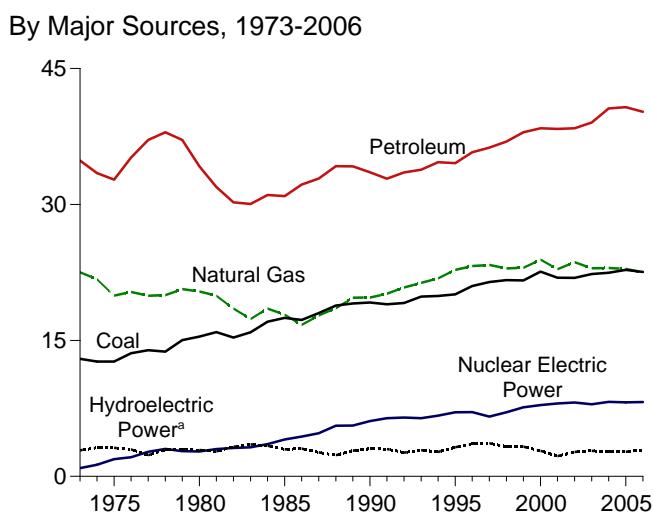
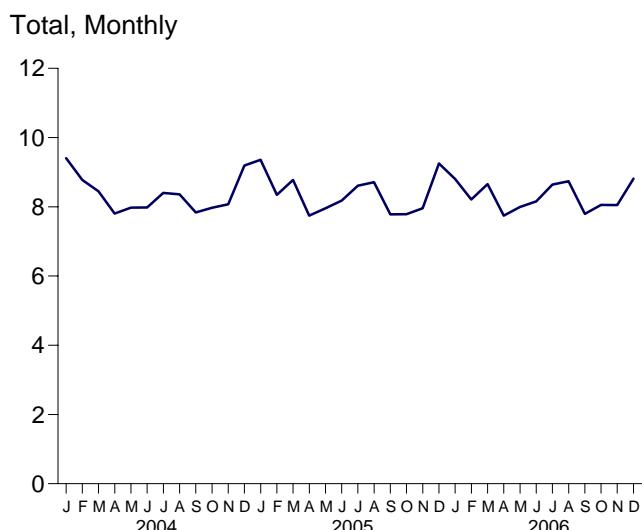
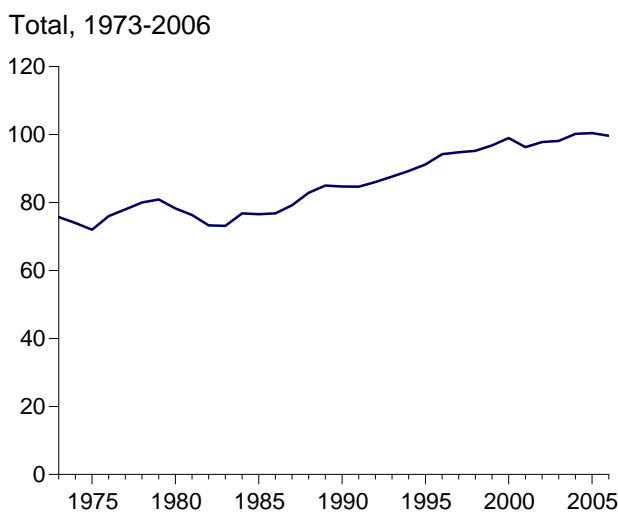
Sources: • Coal: Tables 6.1 and A5. • Natural Gas (Dry): Tables 4.1 and A4. • Crude Oil and Natural Gas Plant Liquids: Tables 3.1a and A2.

• Nuclear Electric Power: Tables 7.2a and A6 ("Nuclear Plants" heat rate).

• Renewable Energy: Table 10.1.

Beginning with 2001 data, non-renewable waste (municipal solid waste from non-biogenic sources, and tire-derived fuels) is removed from "Biomass." Because this portion is mostly derived from fossil fuels, it is not primary energy, and, hence, not included in this table.

Figure 1.3 Energy Consumption
(Quadrillion Btu)



^aConventional hydroelectric power.

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

Web Page: <http://www.eia.doe.gov/emeu/mer/overview.html>.
Source: Table 1.3.

Table 1.3 Energy Consumption by Source
(Quadrillion Btu)

	Fossil Fuels				Nuclear Electric Power	Renewable Energy ^a						Total ^{d,h}
	Coal	Natural Gas ^b	Petro- leum ^{c,d}	Total ^e		Hydro- electric Power ^f	Bio- mass ^{d,g}	Geo- thermal	Solar	Wind	Total	
1973 Total	12.971	22.512	34.840	70.316	0.910	2.861	1.529	0.043	NA	NA	4.433	75.708
1975 Total	12.663	19.948	32.731	65.355	1.900	3.155	1.499	.070	NA	NA	4.723	71.999
1980 Total	15.423	20.394	34.202	69.984	2.739	2.900	2.475	.110	NA	NA	5.485	78.280
1985 Total	17.478	17.834	30.922	66.221	4.076	2.970	2.975	.198	(s)	(s)	6.144	76.580
1990 Total	19.173	19.730	33.553	72.460	6.104	3.046	2.687	.336	.060	.029	6.158	84.730
1995 Total	20.089	22.784	34.553	77.488	7.075	3.205	3.018	.294	.070	.033	6.620	91.200
1996 Total	21.002	23.197	35.757	79.979	7.087	3.590	3.098	.316	.071	.033	7.107	94.226
1997 Total	21.445	23.328	36.266	81.086	6.597	3.640	3.037	.325	.070	.034	7.107	94.800
1998 Total	21.656	22.936	36.934	81.592	7.068	3.297	2.843	.328	.070	.031	6.569	95.200
1999 Total	21.623	23.010	37.960	82.650	7.610	3.268	2.886	.331	.069	.046	6.599	96.837
2000 Total	22.580	23.916	38.404	84.965	7.862	2.811	2.922	.317	.066	.057	6.173	98.976
2001 Total	21.914	22.861	38.333	83.138	8.033	2.242	R 2.531	.311	.065	.070	R 5.219	R 96.318
2002 Total	21.904	23.628	38.401	83.994	8.143	2.689	R 2.586	.328	.064	.105	R 5.774	R 97.808
2003 Total	22.321	22.967	39.047	84.386	7.959	2.825	R 2.660	.331	.064	.115	R 5.993	R 98.121
2004 January	2.025	2.746	3.396	8.172	.738	.230	R .242	.030	.005	.010	R .517	R 9.404
February	1.831	2.577	3.238	7.656	.668	.210	R .225	.028	.005	.010	R .477	R 8.778
March	1.746	2.156	3.392	7.304	.660	.230	R .234	.029	.006	.013	R .511	R 8.448
April	1.616	1.791	3.297	6.728	.611	.209	R .234	.027	.005	.013	R .488	R 7.804
May	1.779	1.615	3.369	6.800	.677	.241	R .230	.028	.006	.017	R .521	R 7.974
June	1.886	1.523	3.335	6.765	.706	.253	R .232	.028	.006	.014	R .533	R 7.980
July	2.042	1.627	3.463	7.142	.750	.234	R .242	.029	.006	.012	R .523	R 8.401
August	2.015	1.620	3.487	7.129	.741	.216	R .239	.029	.006	.011	R .501	R 8.358
September	1.878	1.521	3.295	6.692	.687	.206	R .229	.027	.005	.011	R .478	R 7.836
October	1.806	1.598	3.460	6.871	.652	.189	R .239	.029	.005	.010	R .473	R 7.973
November	1.819	1.830	3.339	6.994	.615	.210	R .233	.028	.005	.009	R .485	R 8.073
December	2.021	2.389	3.521	7.938	.715	.263	R .250	.029	.005	.012	R .558	R 9.190
Total	22.466	22.993	40.594	86.191	8.222	2.690	R 2.828	.341	.065	.142	R 6.066	R 100.218
2005 January	2.011	2.660	3.442	8.124	.729	.243	R .242	.029	.005	.011	R .530	R 9.360
February	1.775	2.330	3.129	7.247	.636	.216	R .225	.025	.005	.010	R .480	R 8.346
March	1.844	2.293	3.494	7.640	.642	.229	R .235	.028	.005	.016	R .514	R 8.778
April	1.636	1.795	3.241	6.679	.579	.231	R .223	.028	.005	.017	R .504	R 7.743
May	1.748	1.584	3.427	6.764	.657	.273	R .233	.029	.006	.017	R .558	R 7.958
June	1.953	1.595	3.412	6.961	.690	.268	R .231	.029	.006	.018	R .552	R 8.180
July	2.093	1.753	3.482	7.334	.742	.260	R .242	.030	.006	.014	R .551	R 8.608
August	2.116	1.762	3.603	7.478	.745	.216	R .243	.029	.006	.011	R .505	R 8.709
September	1.937	1.480	3.242	6.655	.696	.174	R .231	.028	.005	.015	R .453	R 7.784
October	1.851	1.487	3.368	6.705	.639	.180	R .237	.029	.005	.014	R .466	R 7.785
November	1.801	1.730	3.319	6.852	.656	.194	R .233	.028	.005	.016	R .476	R 7.959
December	2.019	2.416	3.575	8.011	.749	.221	R .244	.029	.005	.018	R .518	R 9.251
Total	22.785	22.886	40.735	86.451	8.160	2.703	R 2.820	.343	.064	.178	R 6.108	R 100.461
2006 January	R 1.919	2.237	R 3.336	R 7.494	.750	.277	R .251	.029	.005	.024	R .586	R 8.805
February	1.795	2.214	R 3.044	R 7.057	.653	.250	R .224	.026	.005	.019	R .524	R 8.212
March	1.825	2.203	R 3.434	R 7.468	.664	.248	R .241	.030	.005	.024	R .548	R 8.654
April	1.611	R 1.742	R 3.240	R 6.597	.600	.285	R .232	.027	.005	.025	R .574	R 7.743
May	1.773	R 1.594	R 3.395	R 6.765	.655	.305	R .245	.026	.006	.024	R .607	R 7.993
June	1.910	R 1.618	R 3.352	R 6.886	.713	.293	R .248	.029	.006	.020	R .595	R 8.155
July	2.110	R 1.833	R 3.415	R 7.361	.753	.249	R .256	.030	.006	.019	R .559	R 8.643
August	R 2.132	R 1.831	R 3.538	R 7.503	.751	.209	R .257	.030	.006	.016	R .518	R 8.740
September	1.850	R 1.521	R 3.287	R 6.671	.695	.172	R .248	.029	.005	.018	R .472	R 7.796
October	R 1.848	R 1.705	R 3.444	R 7.009	.600	.173	R .254	.030	.005	.024	R .486	R 8.053
November	R 1.817	R 1.823	R 3.299	R 6.939	.640	.209	R .250	.029	.005	.023	R .516	R 8.052
December	1.967	2.175	3.434	7.579	.735	.219	.259	.030	.005	.023	.537	8.814
Total	22.556	22.495	40.217	85.329	8.208	2.889	2.965	.346	.064	.258	6.523	99.661

^a End-use consumption and electricity net generation.

^b Natural gas, plus a small amount of supplemental gaseous fuels that cannot be identified separately.

^c Petroleum products supplied, including natural gas plant liquids and crude oil burned as fuel. Beginning in 1993, also includes ethanol blended into motor gasoline.

^d Beginning in 1993, ethanol blended into motor gasoline is included in both "Petroleum" and "Biomass," but is counted only once in total consumption.

^e Includes coal coke net imports. See Table 1.4.

^f Conventional hydroelectric power.

^g Wood, waste, and alcohol fuels (ethanol blended into motor gasoline).

^h Includes coal coke net imports and electricity net imports, which are not

separately displayed. See Table 1.4.

R=Revised. NA=Not available. (s)=Less than 0.5 trillion Btu.

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

Web Page: For annual data not displayed between 1973 and 1995, see <http://www.eia.doe.gov/emeu/mer/overview.html>.

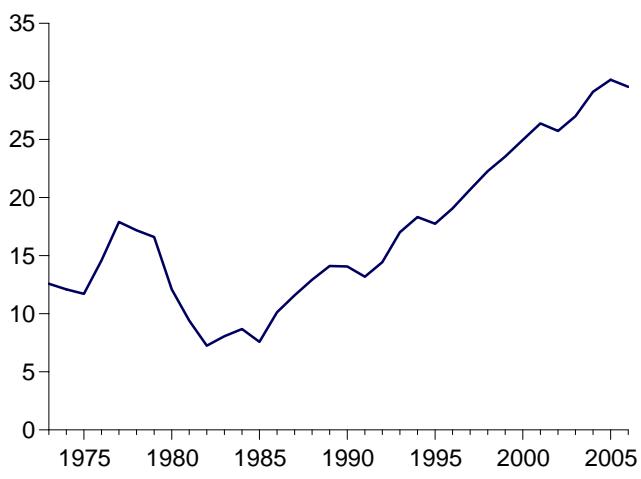
Sources: • Coal: Tables 6.1 and A5. • Natural Gas: Tables 4.1 and A4.

• Petroleum: Tables 3.1b and A3. • Nuclear Electric Power: Tables 7.2a and A6 ("Nuclear Plants" heat rate). • Renewable Energy: Table 10.1. • Net Imports of Coal Coke and Electricity: Table 1.4.

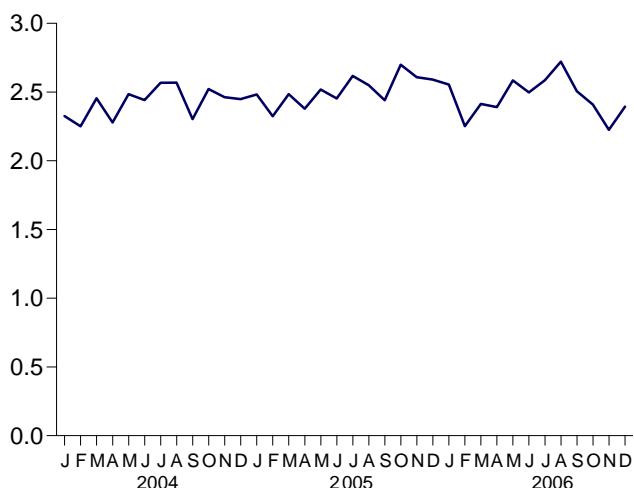
Beginning with 2001 data, non-renewable waste (municipal solid waste from non-biogenic sources, and tire-derived fuels) is removed from "Biomass." Because this portion is mostly derived from fossil fuels, it is not primary energy, and, hence, not included in this table.

Figure 1.4 Energy Net Imports
(Quadrillion Btu, Except as noted)

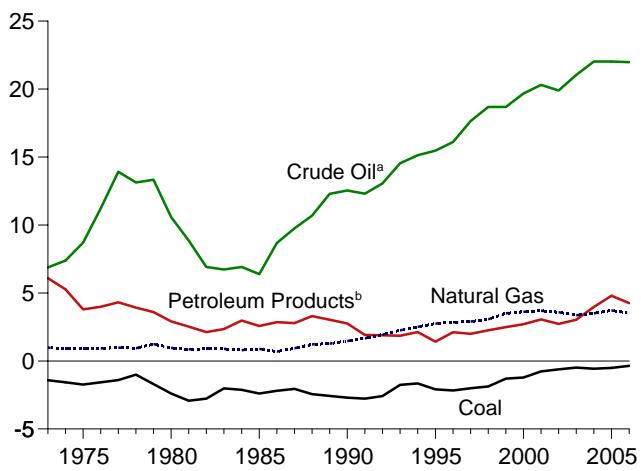
Total, 1973-2006



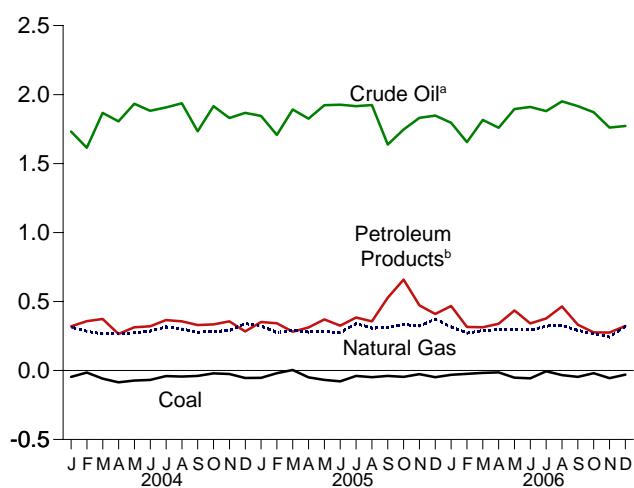
Total, Monthly



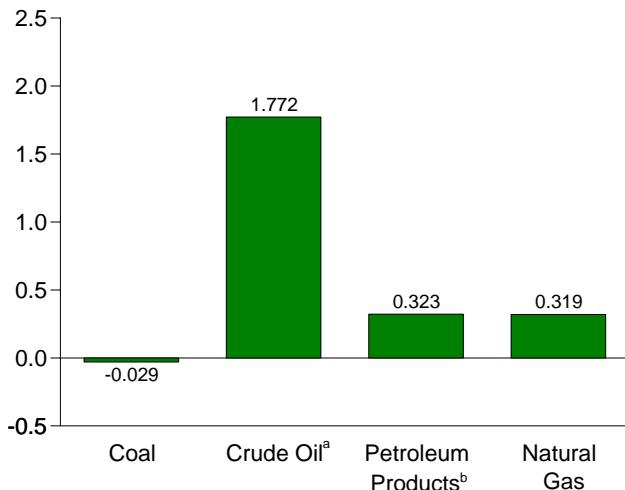
By Major Sources, 1973-2006



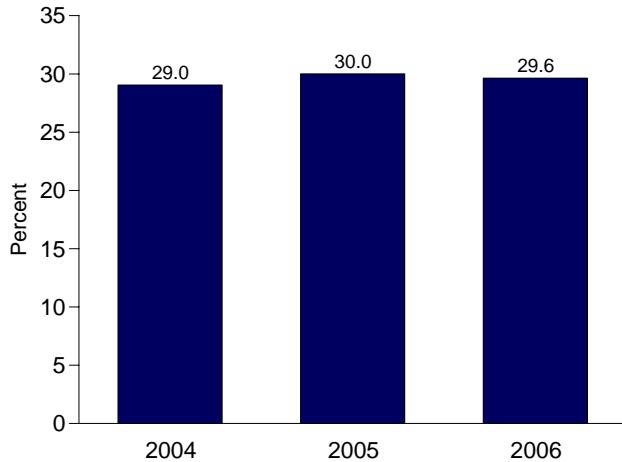
By Major Sources, Monthly



By Major Sources, December 2006



As Share of Consumption, January-December



^aCrude oil and lease condensate. Includes imports into the Strategic Petroleum Reserve, which began in 1977.

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

Note: Because vertical scales differ, graphs should not be compared.
Web Page: <http://www.eia.doe.gov/emeu/mer/overview.html>.

Sources: Tables 1.3 and 1.4.

Table 1.4 Energy Net Imports by Source
(Quadrillion Btu)

	Coal	Coal Coke	Natural Gas	Crude Oil ^a	Petroleum Products ^b	Electricity	Total
1973 Total	-1.422	-0.007	0.981	6.883	6.097	0.049	12.580
1975 Total	-1.738	.014	.904	8.708	3.800	.021	11.709
1980 Total	-2.391	-.035	.957	10.586	2.912	.071	12.101
1985 Total	-2.389	-.013	.896	6.381	2.570	.140	7.584
1990 Total	-2.705	.005	1.464	12.536	2.757	.008	14.065
1995 Total	-2.081	.061	2.745	15.469	1.422	.134	17.750
1996 Total	-2.165	.023	2.847	16.108	2.119	.137	19.069
1997 Total	-2.006	.046	2.904	17.648	1.993	.116	20.701
1998 Total	-1.874	.067	3.064	18.684	2.252	.088	22.281
1999 Total	-1.298	.058	3.500	18.686	2.493	.099	23.537
2000 Total	-1.215	.065	3.623	19.676	2.701	.115	24.967
2001 Total	-.771	.029	3.691	20.305	3.056	.075	26.386
2002 Total	-.610	.061	3.583	19.901	2.732	.072	25.739
2003 Total491	.051	3.356	21.034	3.035	.022	27.007
2004 January	-.046	.004	.315	1.732	.320	(s)	2.325
February	-.015	.009	.284	1.615	.357	(s)	2.250
March	-.059	.010	.266	1.867	.374	-.003	2.455
April	-.086	.024	.271	1.805	.265	(s)	2.279
May	-.072	.037	.273	1.933	.313	.001	2.485
June	-.069	.020	.286	1.882	.320	.002	2.442
July	-.040	.009	.316	1.906	.366	.010	2.568
August	-.044	.007	.301	1.937	.356	.012	2.569
September	-.040	-.002	.278	1.734	.329	.003	2.303
October	-.021	.006	.282	1.917	.334	.004	2.522
November	-.026	.006	.291	1.830	.357	.005	2.462
December	-.055	.008	.340	1.867	.283	.005	2.449
Total	-.571	.138	3.503	22.025	3.976	.039	29.110
2005 January	-.054	.011	.323	1.845	.352	.005	2.482
February	-.019	.013	.275	1.707	.342	.006	2.324
March004	.009	.292	1.891	.281	.008	2.485
April	-.050	.006	.278	1.826	.313	.006	2.379
May	-.068	.005	.283	1.923	.371	.005	2.519
June	-.079	.001	.274	1.927	.325	.005	2.454
July	-.039	.005	.340	1.917	.384	.010	2.617
August	-.048	-.004	.308	1.925	.357	.012	2.550
September	-.039	-.003	.310	1.637	.528	.007	2.440
October	-.046	-.001	.334	1.747	.660	.006	2.699
November	-.027	.001	.323	1.832	.473	.006	2.608
December	-.048	(s)	.373	1.848	.410	.007	2.590
Total	-.512	.044	3.714	22.023	4.794	.084	30.149
2006 January	-.031	.002	.315	R 1.796	R .468	.005	R 2.555
February	(s)	.004	.271	R 1.655	R .316	.005	R 2.252
March	-.017	.007	R .289	R 1.817	R .313	.006	R 2.414
April	-.013	.004	R .296	R 1.759	R .339	.005	R 2.390
May	-.052	.004	.298	R 1.895	R .435	.005	R 2.584
June	-.057	.006	.293	R 1.910	R .341	.005	R 2.498
July	-.005	.004	R .321	R 1.880	R .377	.010	R 2.586
August	-.034	.003	R .326	R 1.951	R .464	.010	R 2.721
September	-.046	.013	R .291	R 1.917	R .332	(s)	R 2.506
October	-.019	.013	E .267	R 1.872	R .276	.001	R 2.409
November	-.056	.001	RE .243	R 1.761	R .276	(s)	R 2.225
December	-.029	.003	E .319	1.772	.323	.007	2.394
Total	-.360	.061	E 3.531	21.982	4.260	.060	29.535

^a Crude oil and lease condensate. Includes imports into the Strategic Petroleum Reserve, which began in 1977.

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

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

Notes: • See Note 3, "Energy Imports," and 4, "Energy Exports," at end of section. • Net imports equal imports minus exports. Minus sign indicates exports are greater than imports. • Totals may not equal sum of components due to

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

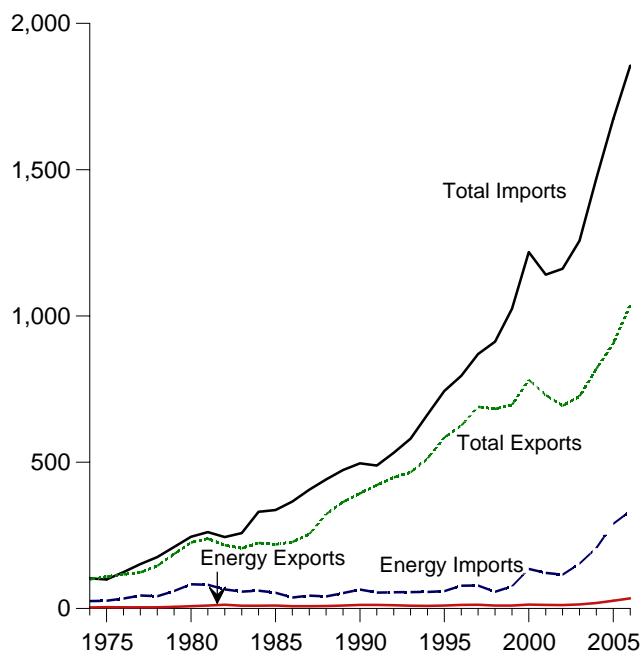
Web Page: For annual data not displayed between 1973 and 1995, see <http://www.eia.doe.gov/emeu/mer/overview.html>.

Sources: • **Coal:** Tables 6.1 and A5. • **Coal Coke:** Section 2, "Energy Consumption Notes and Sources," Note 5, and Table A5. • **Natural Gas:** Tables 4.1 and A4. • **Crude Oil and Petroleum Products:** Tables 3.1a, 3.1b, and A2.

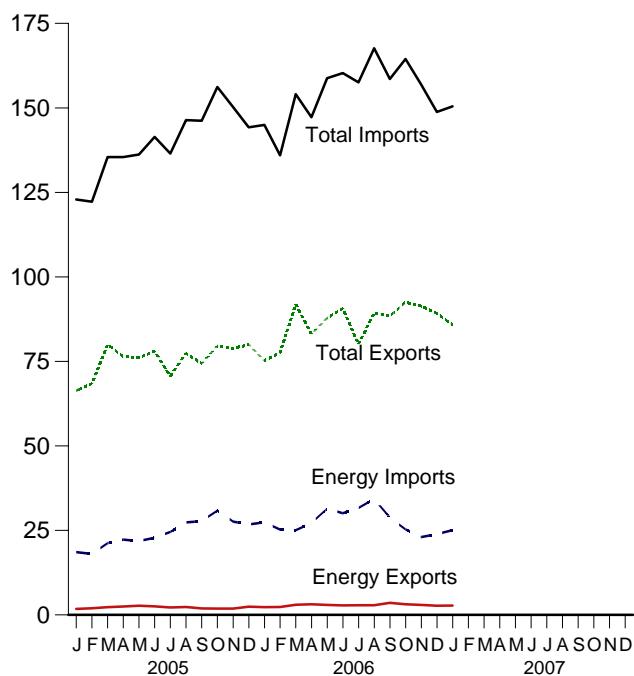
• **Electricity:** Tables 7.1 and A6.

Figure 1.5 Merchandise Trade Value
(Billion Nominal Dollars)

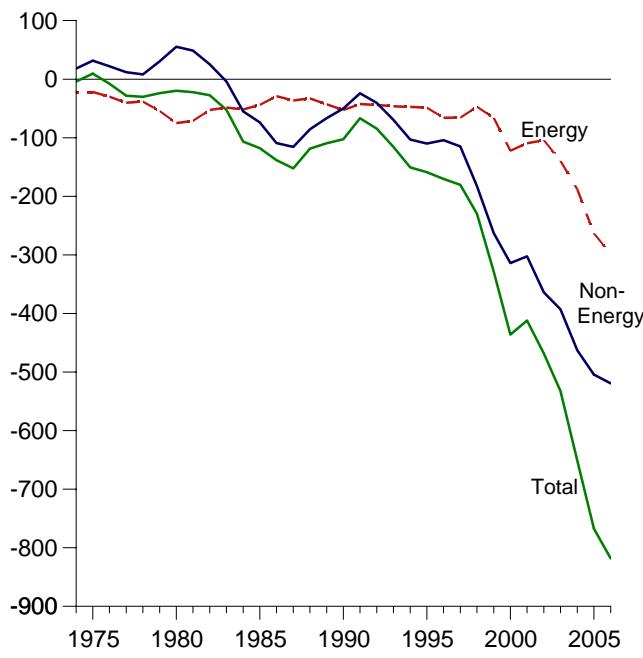
Imports and Exports, 1974-2006



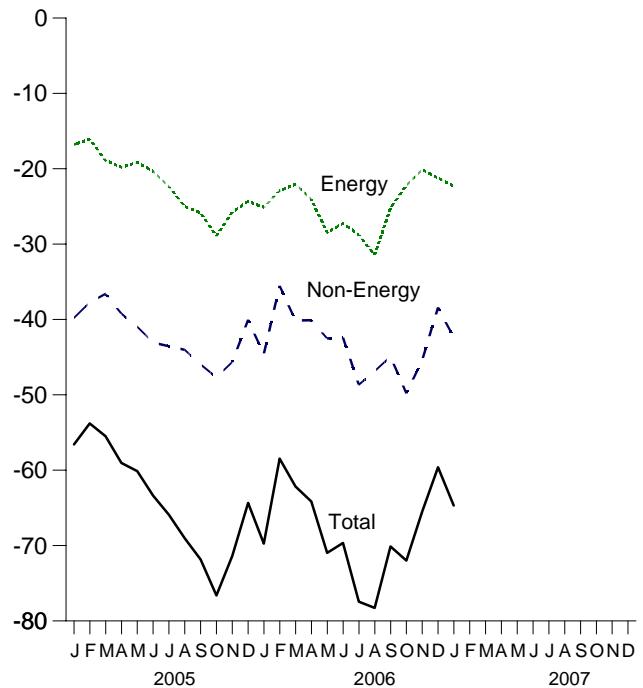
Imports and Exports, Monthly



Trade Balance, 1974-2006



Trade Balance, Monthly



Note: Because vertical scales differ, graphs should not be compared.
Web Page: <http://www.eia.doe.gov/emeu/mer/overview.html>.
Source: Table 1.5.

Table 1.5 Merchandise Trade Value

(Million Nominal Dollars)

	Petroleum ^a			Energy ^b			Non-Energy Balance	Total Merchandise		
	Exports	Imports	Balance	Exports	Imports	Balance		Exports	Imports	Balance
1974 Total	792	24,668	-23,876	3,444	25,454	-22,010	18,126	99,437	103,321	-3,884
1975 Total	907	25,197	-24,289	4,470	26,476	-22,006	31,557	108,856	99,305	9,551
1980 Total	2,833	78,637	-75,803	7,982	82,924	-74,942	55,246	225,566	245,262	-19,696
1985 Total	4,707	50,475	-45,768	9,971	53,917	-43,946	-73,765	218,815	336,526	-117,712
1990 Total	6,901	61,583	-54,682	12,233	64,661	-52,428	-50,068	393,592	496,088	-102,496
1995 Total	6,321	54,368	-48,047	10,358	59,109	-48,751	-110,050	584,742	743,543	-158,801
1996 Total	7,984	72,022	-64,038	12,181	78,086	-65,905	-104,309	625,075	795,289	-170,214
1997 Total	8,592	71,152	-62,560	12,682	78,277	-65,595	-114,927	689,182	869,704	-180,522
1998 Total	6,574	50,264	-43,690	10,251	57,323	-47,072	-182,686	682,138	911,896	-229,758
1999 Total	7,118	67,173	-60,055	9,880	75,803	-65,923	-262,898	695,797	1,024,618	-328,821
2000 Total	10,192	119,251	-109,059	13,179	135,367	-122,188	-313,916	781,918	1,218,022	-436,104
2001 Total	8,868	102,747	-93,879	12,494	121,923	-109,429	-302,470	729,100	1,140,999	-411,899
2002 Total	8,569	102,663	-94,094	11,541	115,748	-104,207	-364,056	693,103	1,161,366	-468,263
2003 Total	10,209	132,433	-122,224	13,768	153,298	-139,530	-392,820	724,771	1,257,121	-532,350
2004 January	718	11,926	-11,208	1,097	14,339	-13,242	-31,668	59,083	103,993	-44,910
February	908	11,714	-10,806	1,286	13,928	-12,642	-28,804	63,418	104,864	-41,446
March	1,079	13,953	-12,874	1,580	15,956	-14,376	-34,850	74,195	123,421	-49,226
April	989	13,046	-12,057	1,529	15,032	-13,503	-37,612	67,770	118,885	-51,115
May	1,143	14,246	-13,103	1,666	16,412	-14,746	-33,910	69,615	118,271	-48,656
June	1,014	15,573	-14,559	1,536	18,123	-16,587	-42,323	68,747	127,657	-58,910
July	1,070	14,857	-13,787	1,668	17,434	-15,766	-43,218	64,240	123,224	-58,984
August	1,200	16,863	-15,663	1,572	19,187	-17,615	-42,031	67,571	127,216	-59,646
September	1,108	14,986	-13,878	1,463	16,929	-15,466	-40,995	69,561	126,022	-56,461
October	1,299	18,056	-16,757	1,752	20,078	-18,326	-43,000	73,490	134,816	-61,326
November	1,162	18,351	-17,189	1,507	21,049	-19,542	-45,564	69,613	134,719	-65,106
December	1,438	15,695	-14,257	1,988	18,194	-16,206	-38,938	71,473	126,617	-55,144
Total	13,130	179,266	-166,136	18,642	206,660	-188,018	-462,912	818,775	1,469,704	-650,930
2005 January	1,076	15,702	-14,626	1,791	18,582	-16,791	-39,781	66,328	122,900	-56,572
February	1,475	15,375	-13,900	1,982	18,042	-16,060	-37,733	68,441	122,233	-53,793
March	1,757	18,333	-16,576	2,309	21,223	-18,914	-36,582	79,954	135,451	-55,496
April	1,769	19,590	-17,821	2,466	22,268	-19,802	-39,230	76,424	135,456	-59,032
May	1,948	19,280	-17,332	2,704	21,857	-19,153	-40,965	76,073	136,191	-60,118
June	1,804	20,447	-18,643	2,531	22,850	-20,319	-43,055	78,052	141,426	-63,374
July	1,696	21,598	-19,902	2,196	24,555	-22,359	-43,547	70,609	136,515	-65,906
August	1,833	24,143	-22,310	2,364	27,367	-25,003	-44,021	77,373	146,397	-69,024
September	1,373	23,982	-22,609	1,934	27,784	-25,850	-45,985	74,381	146,216	-71,835
October	1,328	26,179	-24,851	1,888	30,818	-28,930	-47,679	79,552	156,162	-76,609
November	1,434	23,431	-21,997	1,893	27,627	-25,734	-45,632	78,879	150,245	-71,366
December	1,660	22,009	-20,349	2,431	26,750	-24,319	-40,033	79,910	144,262	-64,352
Total	19,155	250,068	-230,913	26,488	289,723	-263,235	-504,242	905,978	1,673,455	-767,477
2006 January	1,732	23,220	-21,488	2,300	27,399	-25,099	-44,626	75,235	144,960	-69,725
February	1,774	21,351	-19,577	2,351	25,263	-22,912	-35,540	77,538	135,990	-58,452
March	2,375	22,124	-19,749	3,021	25,066	-22,045	-40,110	91,906	154,061	-62,155
April	2,550	24,105	-21,555	3,143	27,213	-24,070	-40,088	83,089	147,247	-64,158
May	2,432	28,832	-26,400	2,982	31,415	-28,433	-42,524	87,830	158,787	-70,957
June	2,305	27,818	-25,513	2,823	30,070	-27,247	-42,397	90,665	160,310	-69,644
July	2,471	29,376	-26,905	2,879	31,666	-28,787	-48,650	80,132	157,569	-77,437
August	2,351	31,550	-29,199	2,868	34,302	-31,434	-46,845	89,375	167,654	-78,279
September	3,050	26,521	-23,471	3,592	28,790	-25,198	-44,910	88,428	158,535	-70,108
October	2,653	22,931	-20,278	3,126	25,320	-22,194	-49,800	92,476	164,470	-71,994
November	2,337	20,808	-18,471	2,937	23,050	-20,113	-45,373	91,405	156,891	-65,486
December	2,151	21,430	-19,279	2,712	23,933	-21,221	R -38,388	R 89,198	R 148,807	R -59,609
Total	28,181	300,066	-271,885	34,733	333,486	-298,753	R -519,249	R 1,037,278	R 1,855,280	R -818,002
2007 January	2,195	22,632	-20,437	2,773	25,081	-22,308	-42,384	85,782	150,474	-64,692

^a Crude oil, petroleum preparations, liquefied propane and butane, and other mineral fuels.

^b Petroleum, coal, natural gas, and electricity.

R=Revised.

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

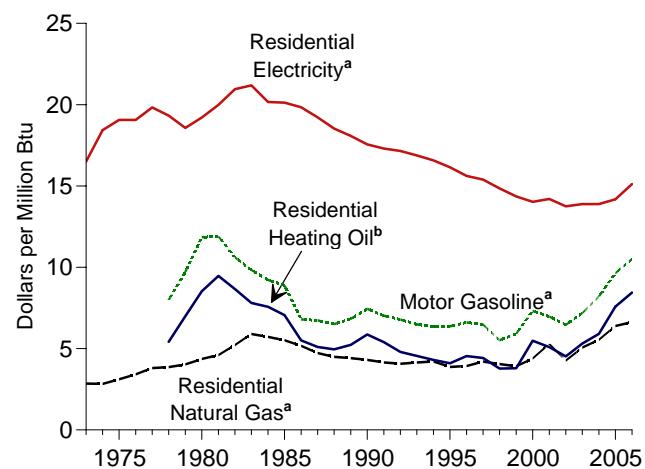
nongovernment imports of merchandise from foreign countries into the U.S. customs territory, which comprises the 50 States, the District of Columbia, Puerto Rico, and the Virgin Islands.

Web Page: For annual data not displayed between 1975 and 1995, see <http://www.eia.doe.gov/emeu/mer/overview.html>.

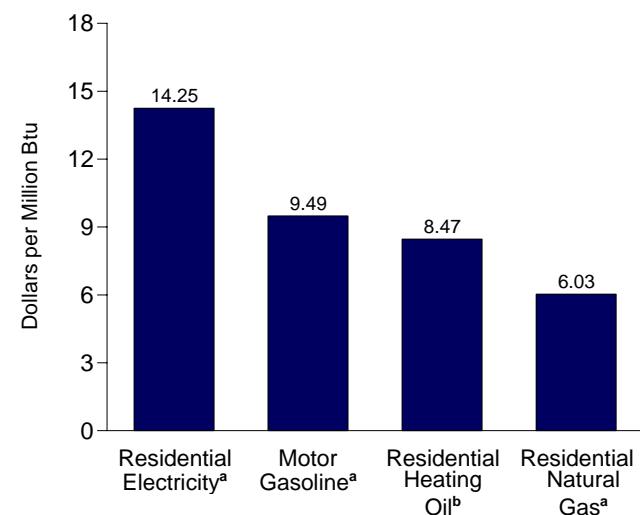
Source: U.S. Department of Commerce, Bureau of the Census, Foreign Trade Division. For details, see "Table 1.5 Sources" at the end of this section.

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

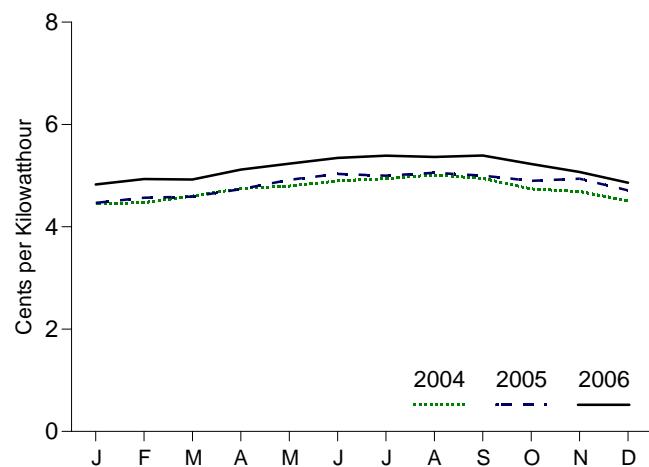
Costs, 1973-2006



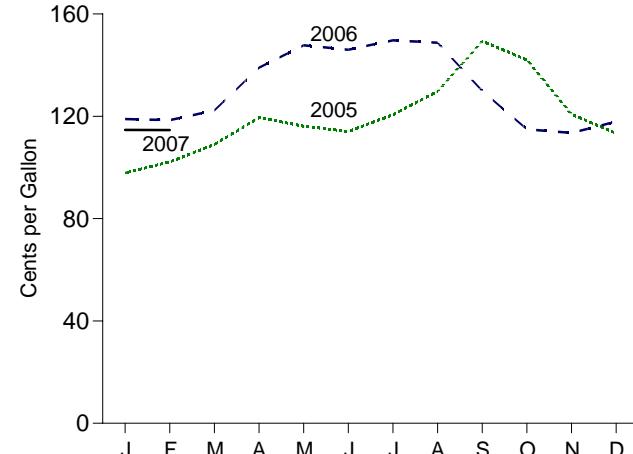
Costs, December 2006



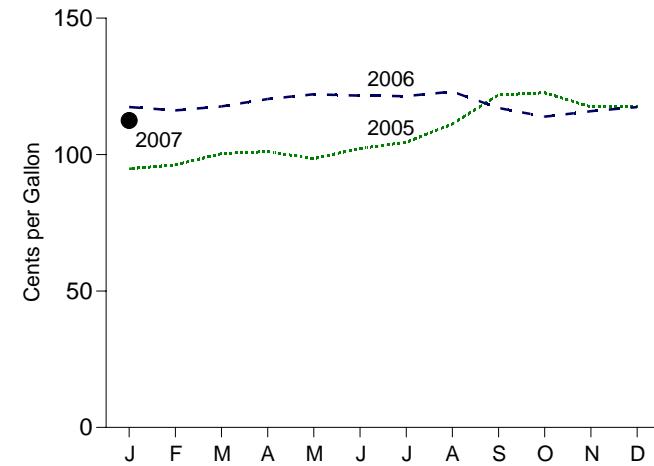
Residential Electricity^a, Monthly



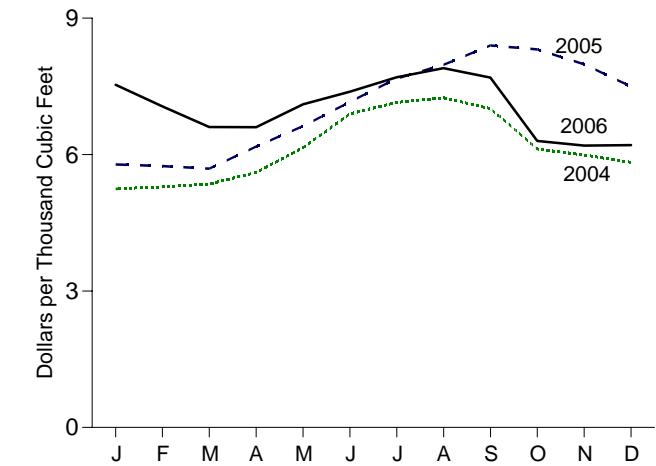
Motor Gasoline^a, Monthly



Residential Heating Oil^b, Monthly



Residential Natural Gas^a, Monthly



^aIncludes taxes.

^bExcludes taxes.

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

Web Page: <http://www.eia.doe.gov/emeu/mer/overview.html>.

Source: Table 1.6.

Table 1.6 Cost of Fuels to End Users in Real (1982-1984) Dollars

	Consumer Price Index (Urban) ^a	Motor Gasoline ^b		Residential Heating Oil ^c		Residential Natural Gas ^b		Residential Electricity ^b	
		Index 1982-1984=100	Cents per Gallon	Dollars per Million Btu	Cents per Gallon	Dollars per Million Btu	Cents per Thousand Cubic Feet	Dollars per Million Btu	Cents per Kilowatthour
1973 Average	44.4	NA	NA	NA	NA	290.5	2.85	5.6	16.50
1975 Average	53.8	NA	NA	NA	NA	317.8	3.12	6.5	19.07
1980 Average	82.4	148.2	11.85	118.2	8.52	446.6	4.36	6.6	19.21
1985 Average	107.6	111.2	8.89	97.9	7.06	568.8	5.52	6.87	20.13
1990 Average	130.7	93.1	7.44	81.3	5.86	443.8	4.31	5.99	17.56
1995 Average	152.4	79.1	6.37	56.9	4.10	397.6	3.87	5.51	16.15
1996 Average	156.9	82.1	6.61	63.0	4.54	404.1	3.93	5.33	15.62
1997 Average	160.5	80.4	6.48	61.3	4.42	432.4	4.21	5.25	15.39
1998 Average	163.0	68.4	5.51	52.3	3.77	418.4	4.05	5.07	14.85
1999 Average	166.6	73.3	5.91	52.6	3.79	401.6	3.91	4.90	14.36
2000 Average	172.2	90.8	7.32	76.1	5.49	450.6	4.39	4.79	14.02
2001 Average	177.1	86.4	6.97	70.6	5.09	543.8	5.28	4.84	14.20
2002 Average	179.9	80.1	6.46	62.8	4.52	438.6	4.26	4.69	13.75
2003 Average	184.0	89.0	7.18	73.6	5.31	523.4	5.07	4.74	13.89
2004 January	185.2	88.3	7.11	76.6	5.52	524.3	5.11	4.45	13.04
February	186.2	92.1	7.42	77.3	5.57	529.0	5.15	4.47	13.11
March	187.4	96.5	7.77	75.7	5.46	535.2	5.21	4.60	13.48
April	188.0	99.7	8.03	75.4	5.44	560.6	5.46	4.75	13.92
May	189.1	108.4	8.73	75.5	5.44	615.0	5.99	4.80	14.06
June	189.7	109.8	8.84	74.2	5.35	689.5	6.71	4.90	14.35
July	189.4	104.6	8.43	75.6	5.45	714.9	6.96	4.94	14.48
August	189.5	102.4	8.25	79.2	5.71	725.1	7.06	5.01	14.69
September	189.9	101.8	8.20	84.1	6.06	700.9	6.82	4.94	14.49
October	190.9	108.5	8.74	94.7	6.83	612.4	5.96	4.74	13.89
November	191.0	107.5	8.66	95.7	6.90	599.0	5.83	4.69	13.75
December	190.3	101.2	8.15	94.2	6.79	582.8	5.67	4.51	13.21
Average	188.9	101.8	8.20	81.9	5.91	569.1	5.54	4.74	13.89
2005 January	190.7	97.9	7.88	94.8	6.84	578.4	5.62	4.47	13.09
February	191.8	102.2	8.23	96.2	6.94	574.6	5.58	4.57	13.39
March	193.3	109.0	8.77	100.4	7.24	569.1	5.53	4.59	13.45
April	194.6	119.5	9.62	101.1	7.29	617.7	6.00	4.74	13.89
May	194.4	116.1	9.35	98.6	7.11	662.6	6.44	4.92	14.41
June	194.5	114.0	9.18	102.2	7.37	715.7	6.96	5.03	14.75
July	195.4	120.6	9.71	104.5	7.54	767.1	7.46	5.00	14.65
August	196.4	129.7	10.44	111.2	8.02	797.4	7.75	5.06	14.82
September	198.8	149.3	12.02	121.9	8.79	840.0	8.16	5.00	14.65
October	199.2	142.1	11.44	122.6	8.84	831.3	8.08	4.90	14.36
November	197.6	120.8	9.72	117.5	8.47	798.6	7.76	4.94	14.48
December	196.8	113.3	9.12	117.5	8.47	749.5	7.28	4.71	13.81
Average	195.3	119.7	9.64	105.1	7.58	657.5	6.39	4.84	14.18
2006 January	198.3	119.0	9.58	117.4	8.46	753.4	7.32	4.83	14.14
February	198.7	118.5	9.54	116.2	8.38	706.1	6.86	4.93	14.46
March	199.8	122.3	9.85	117.7	8.48	660.7	6.42	4.92	14.43
April	201.5	139.0	11.19	120.3	8.68	660.0	6.41	5.12	15.00
May	202.5	147.8	11.90	122.1	8.81	710.6	6.91	5.23	15.34
June	202.9	146.0	11.75	121.6	8.77	738.3	7.17	5.35	15.67
July	203.5	149.7	12.05	121.4	8.76	770.0	7.48	5.39	15.80
August	203.9	148.7	11.97	123.1	8.87	790.1	7.68	5.37	15.73
September	202.9	130.0	10.46	117.1	8.44	769.3	7.48	5.39	15.80
October	201.8	114.9	9.25	113.9	8.21	629.8	6.12	5.23	15.32
November	201.5	113.5	9.14	115.9	8.36	619.9	6.02	5.07	14.87
December	201.8	117.9	9.49	R 117.4	R 8.47	R 620.9	R 6.03	R 4.86	R 14.25
Average	201.6	130.7	10.52	R 117.2	R 8.45	R 682.5	R 6.63	R 5.16	R 15.12
2007 January	202.4	114.7	9.23	RE 112.5	RE 8.11	NA	NA	NA	NA
February	203.5	114.6	9.23	NA	NA	NA	NA	NA	NA

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

^b Includes taxes.

^c Excludes taxes.

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

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

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

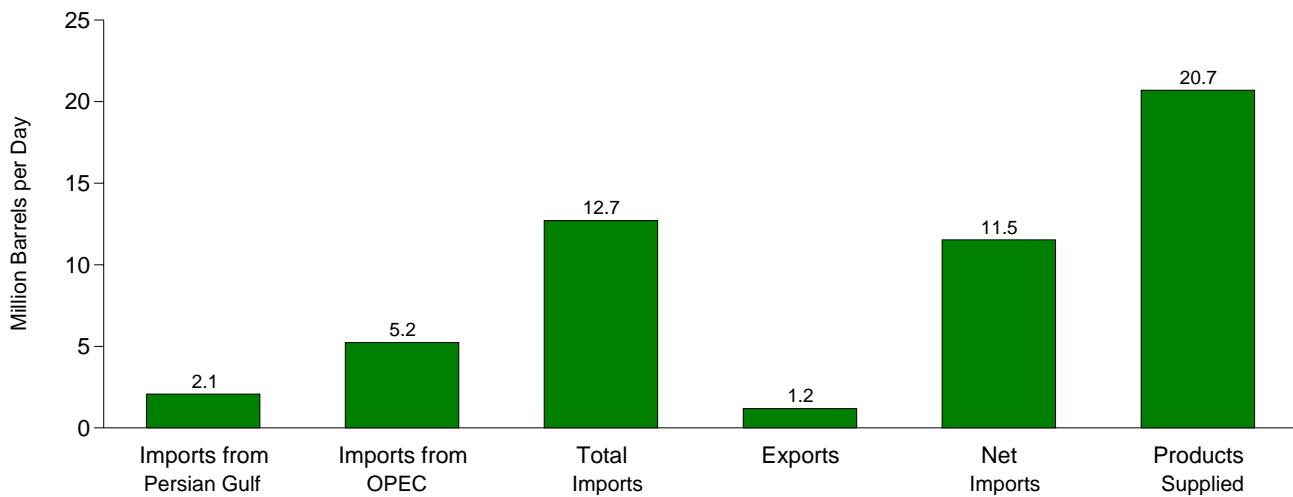
Web Page: For annual data not displayed between 1973 and 1995, see <http://www.eia.doe.gov/emeu/mer/overview.html>.

Sources: • **Fuel Prices:** Tables 9.4 (All Types), 9.8c, 9.11, and 9.9, adjusted by the CPI. • **CPI: 1973-2002—Economic Report of the President**, February 2007, Table B-60. **2003 forward**—Council of Economic Advisors, *Economic Indicators*, March 2007, "Consumer Prices - All Urban Consumers."

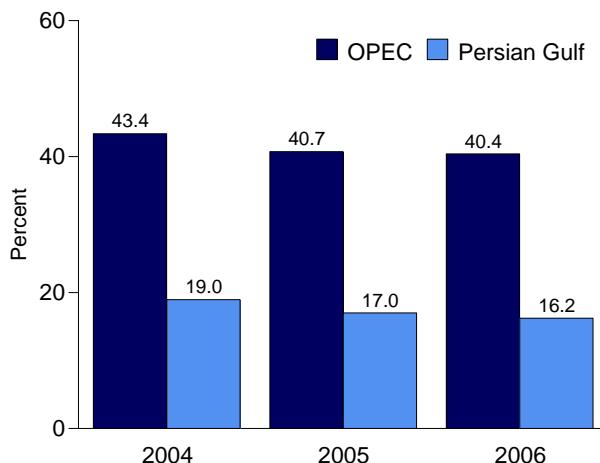
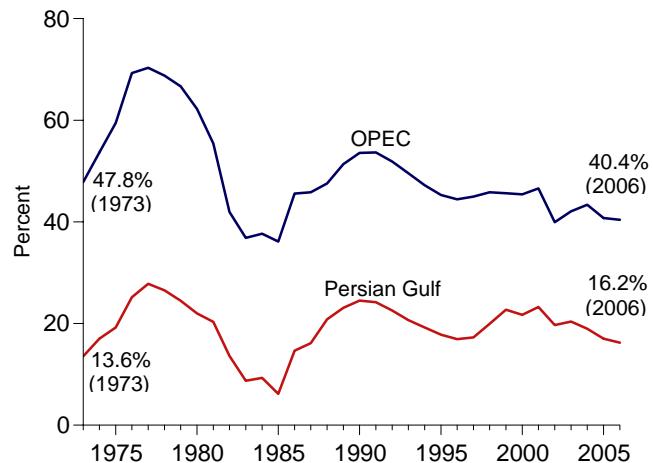
• **Conversion Factors:** Tables A1, A3, A4, and A6.

Figure 1.7 Overview of U.S. Petroleum Trade

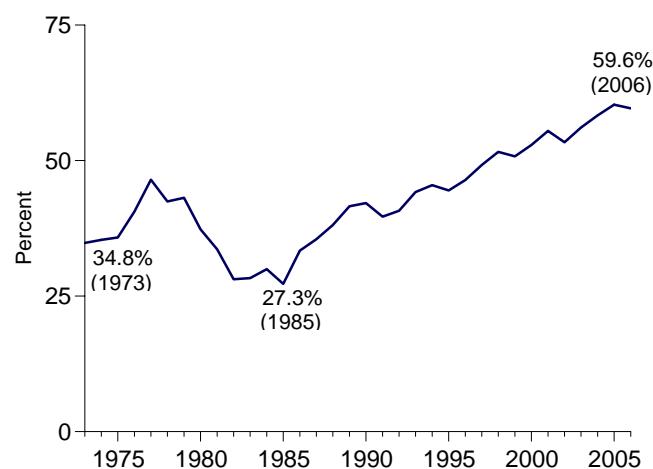
Overview, December 2006



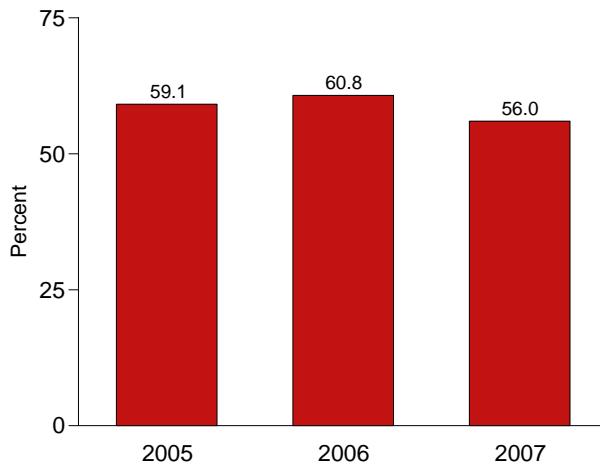
Imports from OPEC and the Persian Gulf as a Share of Total Imports
1973-2006 January-December



Net Imports as Share of Products Supplied
1973-2006



January-February



OPEC=Organization of the Petroleum Exporting Countries.
Note: Because vertical scales differ, graphs should not be compared.

Web Page: <http://www.eia.doe.gov/emeu/mer/overview.html>.
Source: Table 1.7.

Table 1.7 Overview of U.S. Petroleum Trade

	Imports from Persian Gulf ^a	Imports from OPEC ^b	Imports	Exports	Net Imports	Products Supplied	As Share of Products Supplied				As Share of Total Imports	
							Imports from Persian Gulf ^a	Imports from OPEC ^b	Imports	Net Imports	Imports from Persian Gulf ^a	Imports from OPEC ^b
							Thousand Barrels per Day					
1973 Average	848	2,993	6,256	231	6,025	17,308	4.9	17.3	36.1	34.8	13.6	47.8
1975 Average	1,165	3,601	6,056	209	5,846	16,322	7.1	22.1	37.1	35.8	19.2	59.5
1980 Average	1,519	4,300	6,909	544	6,365	17,056	8.9	25.2	40.5	37.3	22.0	62.2
1985 Average	311	1,830	5,067	781	4,286	15,726	2.0	11.6	32.2	27.3	6.1	36.1
1990 Average	1,966	4,296	8,018	857	7,161	16,988	11.6	25.3	47.2	42.2	24.5	53.6
1995 Average	1,573	4,002	8,835	949	7,886	17,725	8.9	22.6	49.8	44.5	17.8	45.3
1996 Average	1,604	4,211	9,478	981	8,498	18,309	8.8	23.0	51.8	46.4	16.9	44.4
1997 Average	1,755	4,569	10,162	1,003	9,158	18,620	9.4	24.5	54.6	49.2	17.3	45.0
1998 Average	2,136	4,905	10,708	945	9,764	18,917	11.3	25.9	56.6	51.6	19.9	45.8
1999 Average	2,464	4,953	10,852	940	9,912	19,519	12.6	25.4	55.6	50.8	22.7	45.6
2000 Average	2,488	5,203	11,459	1,040	10,419	19,701	12.6	26.4	58.2	52.9	21.7	45.4
2001 Average	2,761	5,528	11,871	971	10,900	19,649	14.1	28.1	60.4	55.5	23.3	46.6
2002 Average	2,269	4,605	11,530	984	10,546	19,761	11.5	23.3	58.3	53.4	19.7	39.9
2003 Average	2,501	5,162	12,264	1,027	11,238	20,034	12.5	25.8	61.2	56.1	20.4	42.1
2004												
January	2,309	5,244	12,014	748	11,266	20,479	11.3	25.6	58.7	55.0	19.2	43.6
February	2,108	5,286	12,658	1,046	11,612	20,872	10.1	25.3	60.6	55.6	16.6	41.8
March	2,407	5,833	13,349	1,024	12,325	20,453	11.8	28.5	65.3	60.3	18.0	43.7
April	2,333	5,593	12,883	1,153	11,730	20,545	11.4	27.2	62.7	57.1	18.1	43.4
May	2,485	5,884	13,375	1,052	12,323	20,313	12.2	29.0	65.8	60.7	18.6	44.0
June	2,382	5,935	13,561	1,070	12,491	20,780	11.5	28.6	65.3	60.1	17.6	43.8
July	2,531	5,845	13,570	1,080	12,490	20,880	12.1	28.0	65.0	59.8	18.6	43.1
August	2,928	6,256	13,689	1,091	12,598	21,028	13.9	29.8	65.1	59.9	21.4	45.7
September	2,764	5,613	12,676	961	11,715	20,529	13.5	27.3	61.7	57.1	21.8	44.3
October	2,562	5,580	13,438	1,078	12,360	20,861	12.3	26.7	64.4	59.2	19.1	41.5
November	2,688	5,783	13,409	992	12,417	20,805	12.9	27.8	64.4	59.7	20.0	43.1
December	2,402	5,533	13,088	1,284	11,804	21,229	11.3	26.1	61.7	55.6	18.4	42.3
Average	2,493	5,701	13,145	1,048	12,097	20,731	12.0	27.5	63.4	58.4	19.0	43.4
2005												
January	2,361	5,476	12,991	917	12,074	20,694	11.4	26.5	62.8	58.3	18.2	42.2
February	2,319	5,860	13,749	1,256	12,493	20,830	11.1	28.1	66.0	60.0	16.9	42.6
March	2,412	5,359	13,230	1,308	11,921	21,009	11.5	25.5	63.0	56.7	18.2	40.5
April	2,280	5,618	13,476	1,330	12,147	20,137	11.3	27.9	66.9	60.3	16.9	41.7
May	2,498	5,873	14,006	1,380	12,626	20,606	12.1	28.5	68.0	61.3	17.8	41.9
June	2,403	5,785	14,270	1,477	12,793	21,198	11.3	27.3	67.3	60.3	16.8	40.5
July	2,622	6,100	13,925	1,259	12,666	20,939	12.5	29.1	66.5	60.5	18.8	43.8
August	2,194	5,673	13,848	1,295	12,552	21,666	10.1	26.2	63.9	57.9	15.8	41.0
September	2,130	5,085	13,229	844	12,385	20,142	10.6	25.2	65.7	61.5	16.1	38.4
October	2,319	5,412	14,208	854	13,354	20,253	11.4	26.7	70.2	65.9	16.3	38.1
November	2,294	5,383	14,096	961	13,135	20,623	11.1	26.1	68.4	63.7	16.3	38.2
December	2,166	5,431	13,548	1,106	12,442	21,495	10.1	25.3	63.0	57.9	16.0	40.1
Average	2,334	5,587	13,714	1,165	12,549	20,802	11.2	26.9	65.9	60.3	17.0	40.7
2006												
January	1,989	5,522	13,576	1,068	12,508	20,110	9.9	27.5	67.5	62.2	14.6	40.7
February	2,069	5,448	13,320	1,300	12,020	20,316	10.2	26.8	65.6	59.2	15.5	40.9
March	1,958	5,138	12,887	1,176	11,711	20,695	9.5	24.8	62.3	56.6	15.2	39.9
April	2,361	5,477	13,360	1,409	11,951	20,182	11.7	27.1	66.2	59.2	17.7	41.0
May	2,384	5,782	14,223	1,361	12,862	20,463	11.6	28.3	69.5	62.9	16.8	40.7
June	2,348	5,649	14,143	1,342	12,801	20,875	11.2	27.1	67.8	61.3	16.6	39.9
July	2,078	5,505	13,837	1,397	12,441	20,582	10.1	26.7	67.2	60.4	15.0	39.8
August	2,314	5,718	14,612	1,278	13,334	21,322	10.9	26.8	68.5	62.5	15.8	39.1
September	2,481	5,838	14,375	1,585	12,791	20,472	12.1	28.5	70.2	62.5	17.3	40.6
October	2,132	5,525	13,324	1,521	11,804	20,757	10.3	26.6	64.2	56.9	16.0	41.5
November	2,322	5,153	12,955	1,387	11,568	20,544	11.3	25.1	63.1	56.3	17.9	39.8
December	R 2,079	R 5,232	R 12,711	R 1,186	R 11,525	R 20,697	R 10.0	R 25.3	R 61.4	R 55.7	R 16.4	R 41.2
Average	R 2,209	R 5,499	R 13,612	R 1,333	R 12,278	R 20,588	R 10.7	R 26.7	R 66.1	R 59.6	R 16.2	R 40.4
2007												
January	NA	NA	E 13,443	E 1,244	E 12,199	E 20,585	NA	NA	E 65.3	E 59.3	NA	NA
February	NA	NA	E 12,662	E 1,240	E 11,422	E 21,719	NA	NA	E 58.3	E 52.6	NA	NA
2-Month Average	NA	NA	E 13,072	E 1,242	E 11,830	E 21,123	NA	NA	E 61.9	E 56.0	NA	NA
2006 2-Month Average	2,027	5,486	13,455	1,178	12,277	20,208	10.0	27.2	66.6	60.8	15.1	40.8
2005 2-Month Average	2,341	5,658	13,351	1,078	12,273	20,759	11.3	27.3	64.3	59.1	17.5	42.4

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

^b Organization of the Petroleum Exporting Countries. See Glossary.

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

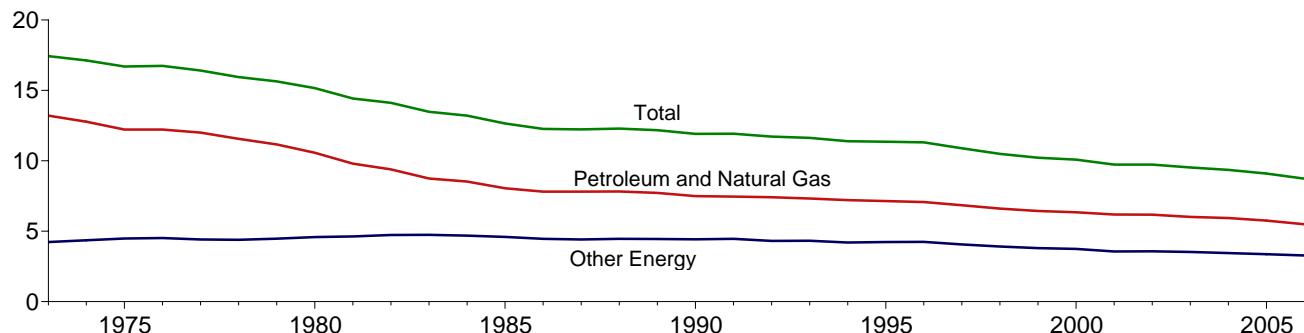
Notes: • Readers of Table 1.7 may be interested in a feature article, "Measuring Dependence on Imported Oil," that was published in the August 1995 *Monthly Energy Review*. • Petroleum is crude oil, lease condensate, unfinished oils, petroleum products, natural gas plant liquids, and nonhydrocarbon compounds blended into finished petroleum products.

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

Web Page: For annual data not displayed between 1973 and 1995, see <http://www.eia.doe.gov/emeu/mer/overview.html>.

Sources: • **Columns 1-6:** Tables 3.1a, 3.1b, 3.3b, and 3.3d. • **Columns 7-12:** Calculated by Energy Information Administration.

Figure 1.8 Energy Consumption per Real Dollar of Gross Domestic Product
 (Thousand Btu per Chained (2000) Dollar)



Web Page: <http://www.eia.doe.gov/emeu/mer/overview.html>.

Source: Table 1.8.

Table 1.8 Energy Consumption per Real Dollar of Gross Domestic Product

	Energy Consumption			Gross Domestic Product (GDP)	Energy Consumption per Real Dollar of GDP		
	Petroleum and Natural Gas ^a	Other Energy ^{a,b}	Total ^a		Petroleum and Natural Gas ^a	Other Energy ^{a,b}	Total ^a
	Quadrillion Btu			Billion Chained (2000) Dollars	Thousand Btu per Chained (2000) Dollar		
1973 Year	57.352	18.356	75.708	4,341.5	13.21	4.23	17.44
1974 Year	55.187	18.804	73.991	4,319.6	12.78	4.35	17.13
1975 Year	52.678	19.321	71.999	4,311.2	12.22	4.48	16.70
1976 Year	55.520	20.492	76.012	4,540.9	12.23	4.51	16.74
1977 Year	57.053	20.947	78.000	4,750.5	12.01	4.41	16.42
1978 Year	57.966	22.021	79.986	5,015.0	11.56	4.39	15.95
1979 Year	57.789	23.114	80.903	5,173.4	11.17	4.47	15.64
1980 Year	54.596	23.684	78.280	5,161.7	10.58	4.59	15.17
1981 Year	51.859	24.484	76.343	5,291.7	9.80	4.63	14.43
1982 Year	48.737	24.549	73.286	5,189.3	9.39	4.73	14.12
1983 Year	47.411	25.735	73.146	5,423.8	8.74	4.74	13.49
1984 Year	49.558	27.235	76.793	5,813.6	8.52	4.68	13.21
1985 Year	48.756	27.824	76.580	6,053.7	8.05	4.60	12.65
1986 Year	48.904	27.922	76.826	6,263.6	7.81	4.46	12.27
1987 Year	50.609	28.614	79.223	6,475.1	7.82	4.42	12.24
1988 Year	52.774	30.095	82.869	6,742.7	7.83	4.46	12.29
1989 Year	53.923	31.077	84.999	6,981.4	7.72	4.45	12.18
1990 Year	53.282	31.448	84.730	7,112.5	7.49	4.42	11.91
1991 Year	52.994	31.673	84.667	7,100.5	7.46	4.46	11.92
1992 Year	54.362	31.653	86.015	7,336.6	7.41	4.31	11.72
1993 Year	55.193	32.557	87.652	7,532.7	7.33	4.32	11.64
1994 Year	56.512	32.888	89.292	7,835.5	7.21	4.20	11.40
1995 Year	57.338	33.979	91.200	8,031.7	7.14	4.23	11.35
1996 Year	58.954	35.356	94.226	8,328.9	7.08	4.24	11.31
1997 Year	59.594	35.312	94.800	8,703.5	6.85	4.06	10.89
1998 Year	59.869	35.448	95.200	9,066.9	6.60	3.91	10.50
1999 Year	60.970	35.988	96.837	9,470.3	6.44	3.80	10.23
2000 Year	62.320	36.796	98.976	9,817.0	6.35	3.75	10.08
2001 Year	61.194	R 35.271	R 96.318	9,890.7	6.19	R 3.57	R 9.74
2002 Year	62.030	R 35.953	R 97.808	10,048.8	6.17	R 3.58	R 9.73
2003 Year	62.014	R 36.345	R 98.121	10,301.0	6.02	R 3.53	R 9.53
2004 Year	63.587	R 36.930	R 100.218	10,703.5	5.94	R 3.45	R 9.36
2005 Year	63.622	R 37.182	R 100.461	11,048.6	5.76	R 3.37	R 9.09
2006 Year	62.712	37.409	99.661	11,413.6	5.49	3.28	8.73

^a Beginning in 1993, ethanol blended into motor gasoline is included in both "Petroleum and Natural Gas" and "Other Energy," but is counted only once in total consumption.

^b "Other Energy" is coal, nuclear electric power, renewable energy, and net imports of coal coke and electricity.

R=Revised.

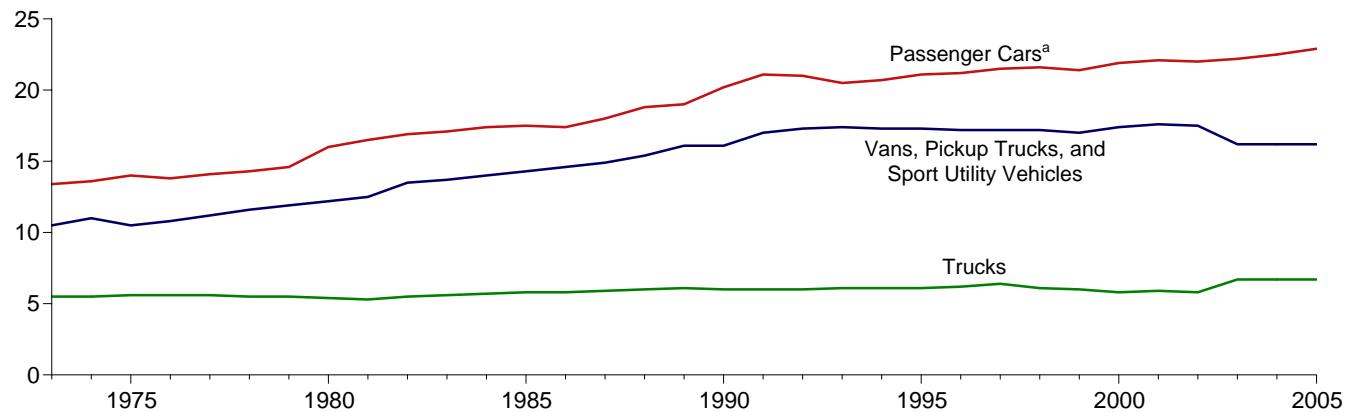
Notes: • Totals may not equal sum of components due to independent rounding. • Geographic coverage is the 50 States and the District of

Columbia.

Web Page: <http://www.eia.doe.gov/emeu/mer/overview.html>.

Sources: • **Energy Consumption:** Table 1.3. • **Gross Domestic Product: 1973-2003**—U.S. Department of Commerce, Bureau of Economic Analysis, *Survey of Current Business*, August 2006, Table 2A. **2004 forward**—U.S. Department of Commerce, Bureau of Economic Analysis, *BEA News Release*, February 28, 2007, Table 3, which is available at Web site <http://www.bea.gov/bea/newsrel/gdpnewsrelease.htm>.

Figure 1.9 Motor Vehicle Fuel Rates
(Miles per Gallon)



^aMotorcycles are included through 1989.

Web Page: <http://www.eia.doe.gov/emeu/mer/overview.html>.

Source: Table 1.9.

Table 1.9 Motor Vehicle Mileage, Fuel Consumption, and Fuel Rates

	Passenger Cars ^a			Vans, Pickup Trucks, and Sport Utility Vehicles ^b			Trucks ^c			All Motor Vehicles ^d		
	Mileage (miles per vehicle)	Fuel Consumption (gallons per vehicle)	Fuel Rate (miles per gallon)	Mileage (miles per vehicle)	Fuel Consumption (gallons per vehicle)	Fuel Rate (miles per gallon)	Mileage (miles per vehicle)	Fuel Consumption (gallons per vehicle)	Fuel Rate (miles per gallon)	Mileage (miles per vehicle)	Fuel Consumption (gallons per vehicle)	Fuel Rate (miles per gallon)
1973	9,884	737	13.4	9,779	931	10.5	15,370	2,775	5.5	10,099	850	11.9
1974	9,221	677	13.6	9,452	862	11.0	14,995	2,708	5.5	9,493	788	12.0
1975	9,309	665	14.0	9,829	934	10.5	15,167	2,722	5.6	9,627	790	12.2
1976	9,418	681	13.8	10,127	934	10.8	15,438	2,764	5.6	9,774	806	12.1
1977	9,517	676	14.1	10,607	947	11.2	16,700	3,002	5.6	9,978	814	12.3
1978	9,500	665	14.3	10,968	948	11.6	18,045	3,263	5.5	10,077	816	12.4
1979	9,062	620	14.6	10,802	905	11.9	18,502	3,380	5.5	9,722	776	12.5
1980	8,813	551	16.0	10,437	854	12.2	18,736	3,447	5.4	9,458	712	13.3
1981	8,873	538	16.5	10,244	819	12.5	19,016	3,565	5.3	9,477	697	13.6
1982	9,050	535	16.9	10,276	762	13.5	19,931	3,647	5.5	9,644	686	14.1
1983	9,118	534	17.1	10,497	767	13.7	21,083	3,769	5.6	9,760	686	14.2
1984	9,248	530	17.4	11,151	797	14.0	22,550	3,967	5.7	10,017	691	14.5
1985	9,419	538	17.5	10,506	735	14.3	20,597	3,570	5.8	10,020	685	14.6
1986	9,464	543	17.4	10,764	738	14.6	22,143	3,821	5.8	10,143	692	14.7
1987	9,720	539	18.0	11,114	744	14.9	23,349	3,937	5.9	10,453	694	15.1
1988	9,972	531	18.8	11,465	745	15.4	22,485	3,736	6.0	10,721	688	15.6
1989	^a 10,157	^a 533	^a 19.0	11,676	724	16.1	22,926	3,776	6.1	10,932	688	15.9
1990	10,504	520	20.2	11,902	738	16.1	23,603	3,953	6.0	11,107	677	16.4
1991	10,571	501	21.1	12,245	721	17.0	24,229	4,047	6.0	11,294	669	16.9
1992	10,857	517	21.0	12,381	717	17.3	25,373	4,210	6.0	11,558	683	16.9
1993	10,804	527	20.5	12,430	714	17.4	26,262	4,309	6.1	11,595	693	16.7
1994	10,992	531	20.7	12,156	701	17.3	25,838	4,202	6.1	11,683	698	16.7
1995	11,203	530	21.1	12,018	694	17.3	26,514	4,315	6.1	11,793	700	16.8
1996	11,330	534	21.2	11,811	685	17.2	26,092	4,221	6.2	11,813	700	16.9
1997	11,581	539	21.5	12,115	703	17.2	27,032	4,218	6.4	12,107	711	17.0
1998	11,754	544	21.6	12,173	707	17.2	25,397	4,135	6.1	12,211	721	16.9
1999	11,848	553	21.4	11,957	701	17.0	26,014	4,352	6.0	12,206	732	16.7
2000	11,976	547	21.9	11,672	669	17.4	25,617	4,391	5.8	12,164	720	16.9
2001	11,831	534	22.1	11,204	636	17.6	26,602	4,477	5.9	11,887	695	17.1
2002	12,202	555	22.0	11,364	650	17.5	27,071	4,642	5.8	12,171	719	16.9
2003	12,325	556	22.2	11,287	697	16.2	28,093	4,215	6.7	12,208	718	17.0
2004	12,460	553	22.5	11,184	690	16.2	27,023	4,057	6.7	12,200	714	17.1
2005 ^p	12,375	541	22.9	11,114	686	16.2	26,272	3,944	6.7	12,084	704	17.2

^a Through 1989, includes motorcycles.

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

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

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

P=Preliminary.

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

Web Page: <http://www.eia.doe.gov/emeu/mer/overview.html>.

Sources: • **Passenger Cars, 1990-1994:** U.S. Department of Transportation, Bureau of Transportation Statistics, *National Transportation Statistics 1998*, Table 4-13. • **All Other Data:** • 1973-1994—Federal Highway Administration (FHWA), *Highway Statistics Summary to 1995*, Table VM-20A. • 1995 forward—FHWA, *Highway Statistics*, annual reports, Table VM-1.

Table 1.10 Heating Degree-Days by Census Division

Census Divisions	February 1 through February 28					Cumulative July 1 through February 28				
	Normal ^a	2006	2007	Percent Change		Normal ^a	2006	2007	Percent Change	
				Normal to 2007	2006 to 2007				Normal to 2007	2006 to 2007
New England Connecticut, Maine, Massachusetts, New Hampshire, Rhode Island, Vermont	1,060	1,028	1,208	14	18	4,768	4,318	4,435	-7	3
Middle Atlantic New Jersey, New York, Pennsylvania	983	936	1,159	18	24	4,332	3,840	3,938	-9	3
East North Central Illinois, Indiana, Michigan, Ohio, Wisconsin	1,061	1,028	1,319	24	28	4,835	4,319	4,697	-3	9
West North Central Iowa, Kansas, Minnesota, Missouri, Nebraska, North Dakota, South Dakota	1,078	1,090	1,256	17	15	5,163	4,532	4,995	-3	10
South Atlantic Delaware, Florida, Georgia, Maryland and the District of Columbia, North Carolina, South Carolina, Virginia, West Virginia	507	521	607	20	17	2,233	2,062	2,084	-7	1
East South Central Alabama, Kentucky, Mississippi, Tennessee	623	669	753	21	13	2,853	2,646	2,800	-2	6
West South Central Arkansas, Louisiana, Oklahoma, Texas	414	431	452	9	5	1,912	1,648	1,903	(s)	15
Mountain Arizona, Colorado, Idaho, Montana, Nevada, New Mexico, Utah, Wyoming	737	734	712	-3	-3	3,835	3,401	3,796	-1	12
Pacific^b California, Oregon, Washington	439	420	440	(s)	5	2,256	1,977	2,189	-3	11
U.S. Average^b	732	723	847	16	17	3,388	3,024	3,237	-4	7

^a "Normal" is based on calculations of data from 1971 through 2000.

^b Excludes Alaska and Hawaii.

Notes: Degree-days are relative measurements of outdoor air temperature used as an index for heating and cooling energy requirements. Heating degree-days are the number of degrees that the daily average temperature falls below 65° F. Cooling degree-days are the number of degrees that the daily average temperature rises above 65° F. The daily average temperature is the mean of the maximum and minimum temperatures in a 24-hour period. For example, a weather station recording an average daily temperature of 40°

F would report 25 heating degree-days for that day (and 0 cooling degree-days). If a weather station recorded an average daily temperature of 78° F, cooling degree-days for that station would be 13 (and 0 heating degree days).

Web Pages: • See <http://www.eia.doe.gov/emeu/mer/overview.html> for current data. • See <http://www.eia.doe.gov/emeu/aer/overview.html> for historical data.

Sources: See end of section.

Table 1.11 Cooling Degree-Days by Census Division

Census Divisions	February 1 through February 28					Cumulative January 1 through February 28				
	Normal ^a	2006	2007	Percent Change		Normal ^a	2006	2007	Percent Change	
				Normal to 2007	2006 to 2007				Normal to 2007	2006 to 2007
New England Connecticut, Maine, Massachusetts, New Hampshire, Rhode Island, Vermont	0	0	0	(c)	(c)	0	0	0	(c)	(c)
Middle Atlantic New Jersey, New York, Pennsylvania	0	0	0	(c)	(c)	0	0	0	(c)	(c)
East North Central Illinois, Indiana, Michigan, Ohio, Wisconsin	0	0	0	(c)	(c)	0	0	0	(c)	(c)
West North Central Iowa, Kansas, Minnesota, Missouri, Nebraska, North Dakota, South Dakota	0	0	0	(c)	(c)	0	0	0	(c)	(c)
South Atlantic Delaware, Florida, Georgia, Maryland and the District of Columbia, North Carolina, South Carolina, Virginia, West Virginia	29	19	20	(c)	(c)	62	47	57	(c)	(c)
East South Central Alabama, Kentucky, Mississippi, Tennessee	4	0	0	(c)	(c)	10	0	0	(c)	(c)
West South Central Arkansas, Louisiana, Oklahoma, Texas	15	9	9	(c)	(c)	29	22	14	(c)	(c)
Mountain Arizona, Colorado, Idaho, Montana, Nevada, New Mexico, Utah, Wyoming	4	1	0	(c)	(c)	5	1	0	(c)	(c)
Pacific California, Oregon, Washington	2	0	0	(c)	(c)	4	0	0	(c)	(c)
U.S. Average^b	8	5	5	(c)	(c)	16	11	12	(c)	(c)

^a "Normal" is based on calculations of data from 1971 through 2000.

^b Excludes Alaska and Hawaii.

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

Notes: Degree-days are relative measurements of outdoor air temperature used as an index for heating and cooling energy requirements. Cooling degree-days are the number of degrees that the daily average temperature rises above 65° F. Heating degree-days are the number of degrees that the daily average temperature falls below 65° F. The daily average temperature is the mean of the maximum and minimum temperatures in a 24-hour period.

For example, if a weather station recorded an average daily temperature of 78° F, cooling degree-days for that station would be 13 (and 0 heating degree-days). A weather station recording an average daily temperature of 40° F would report 25 heating degree-days for that day (and 0 cooling degree-days).

Web Pages: • See <http://www.eia.doe.gov/emeu/mer/overview.html> for current data. • See <http://www.eia.doe.gov/emeu/aer/overview.html> for historical data.

Sources: See end of section.

Energy Overview

Note 1. Energy Production: Includes production of fossil fuels (coal, dry natural gas, crude oil and lease condensate, and natural gas plant liquids), nuclear electric power, and renewable energy. Renewable energy production is assumed to be equivalent to: end-use consumption of wood, waste, alcohol fuels, geothermal heat pump and direct use energy, and solar thermal direct use and photovoltaic energy; and electricity net generation from conventional hydroelectric power, wood, waste, geothermal, solar, and wind. Approximate heat contents (Btu values) are derived by using the conversion factors provided in Appendix A. See Section 10 for further information on renewable energy.

Note 2. Energy Consumption: Includes consumption of fossil fuels (coal, natural gas, and petroleum), some secondary energy derived from fossil fuels (supplemental gaseous fuels and coal coke net imports), nuclear electric power, renewable energy, and net imports of electricity. Renewable energy consumption includes: end-use consumption of wood, waste, alcohol fuels, geothermal heat pump and direct use energy, and solar thermal direct use and photovoltaic energy; and net electricity generation from conventional hydroelectric power, wood, waste, geothermal, solar, and wind. Approximate heat contents (Btu values) are derived by using the conversion factors provided in Appendix A. See Section 10 for further information on renewable energy.

Note 3. Energy Imports: Includes imports of fossil fuels (coal, natural gas, and petroleum, including crude oil imported for the Strategic Petroleum Reserve), some secondary energy derived from fossil fuels (coal coke imports), and electricity. Approximate heat contents (Btu values) are derived by using the conversion factors provided in Appendix A. See Section 10 for further information on renewable energy.

Note 4. Energy Exports: Includes exports of fossil fuels (coal, natural gas, and petroleum), some secondary energy derived from fossil fuels (coal coke exports), and electricity. Approximate heat contents (Btu values) are derived by using the conversion factors provided in Appendix A. See Section 10 for further information on renewable energy.

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

“Balance” is exports minus imports; a positive balance indicates a surplus trade value and a negative balance indicates a deficit trade value. “Energy” includes mineral fuels, lubricants, and related material. “Non-Energy Balance” and “Total Merchandise” include foreign exports (i.e., re-exports) and nonmonetary gold and Department of

Defense Grant-Aid shipments. The “Non-Energy Balance” is calculated by subtracting the “Energy” from the “Total Merchandise Balance.”

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

Table 1.5 Sources

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

Petroleum Exports

1974-1987: “U.S. Exports,” FT410, December issues.
1988 and 1989: “Report on U.S. Merchandise Trade,” Final Revisions.
1990-1992: “U.S. Merchandise Trade,” Final Report.
1993-2005: “U.S. International Trade in Goods and Services,” Annual Revision.
2006 and 2007: “U.S. International Trade in Goods and Services,” FT-900, monthly.

Petroleum Imports

1974-1987: “U.S. Merchandise Trade,” FT900, December issues, 1975-1988.
1988 and 1989: “Report on U.S. Merchandise Trade,” Final Revisions.
1990-1993: “U.S. Merchandise Trade,” Final Report.
1994-2005: “U.S. International Trade in Goods and Services,” Annual Revision.
2006 and 2007: “U.S. International Trade in Goods and Services,” FT-900, monthly.

Energy Exports and Imports

1974-1987: U.S. merchandise trade press releases and database printouts for adjustments.
1988: January-July, monthly FT-900 supplement, 1989 issues. August-December, monthly FT-900, 1989 issues.
1989: Monthly FT-900, 1990 issues.
1990-1992: “U.S. Merchandise Trade,” Final Report.
1993-2005: “U.S. International Trade in Goods and Services,” Annual Revision.
2006 and 2007: “U.S. International Trade in Goods and

Services," FT-900, monthly.

Petroleum, Energy, and Non-Energy Balances

Calculated by the Energy Information Administration.

Total Merchandise

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

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

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

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

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

1992-2005: "U.S. International Trade in Goods and Services," Annual Revision.

2006 and 2007: "U.S. International Trade in Goods and Services," FT-900, monthly.

Tables 1.10 and 1.11 Sources

There are several degree-day databases maintained by the National Oceanic and Atmospheric Administration. The information published here is developed by the National Weather Service Climate Prediction 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 the 2000 Census by the U.S. Department of Commerce, Bureau of the Census. The data provided here are available sooner than the Historical Climatology Series 5-1 (heating degree-days) and 5-2 (cooling degree-days) developed by the National Climatic Data Center, Asheville, NC, which compiles data from some 8,000 weather stations.

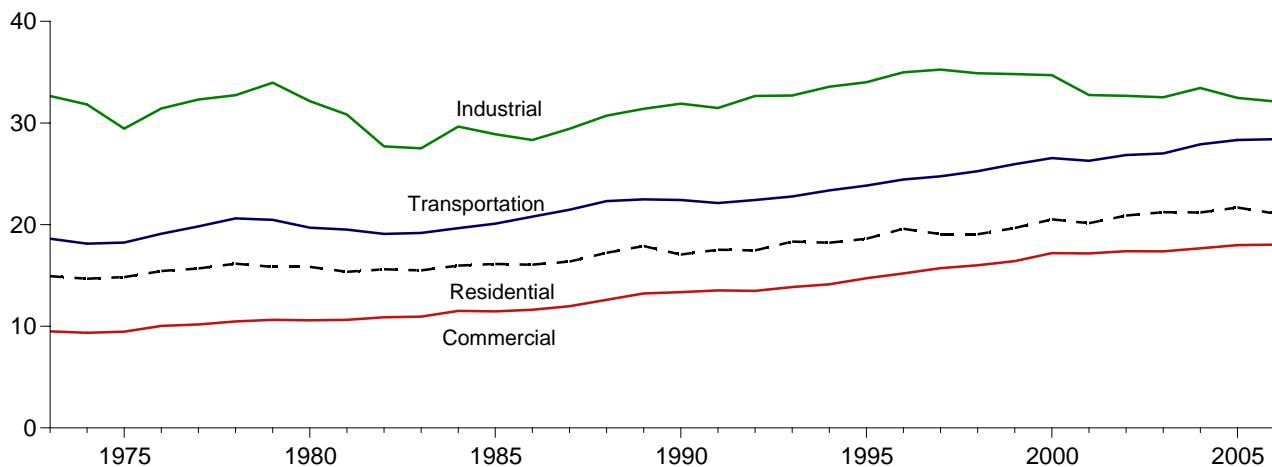
Energy Consumption by Sector



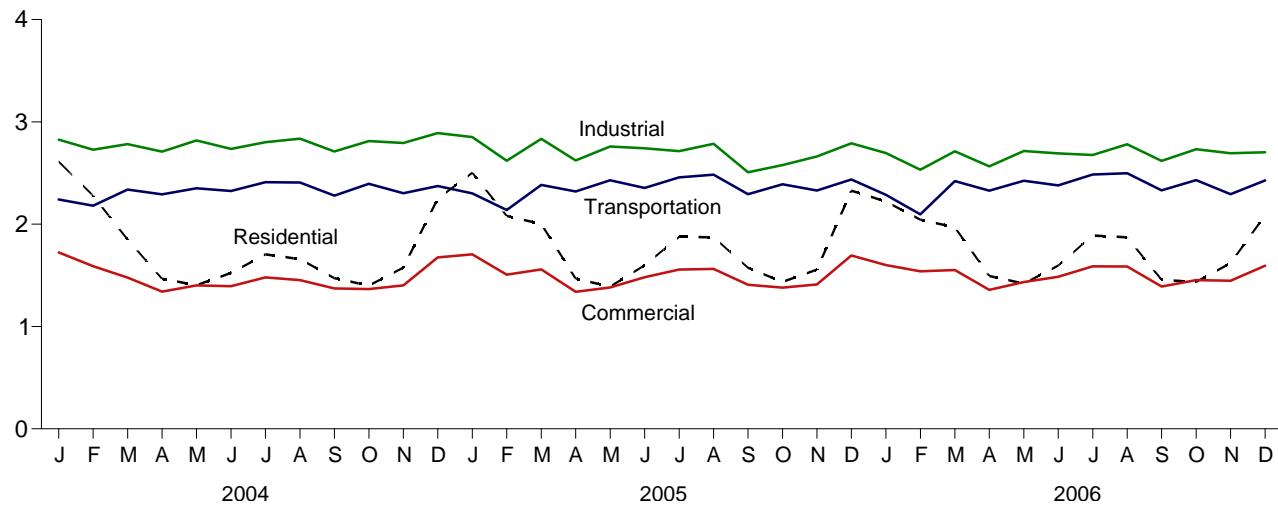
Office buildings, industries, residences, and transport systems, Baltimore, Maryland; east view from the inner harbor.
Source: U.S. Department of Energy.

Figure 2.1 Energy Consumption by Sector
(Quadrillion Btu)

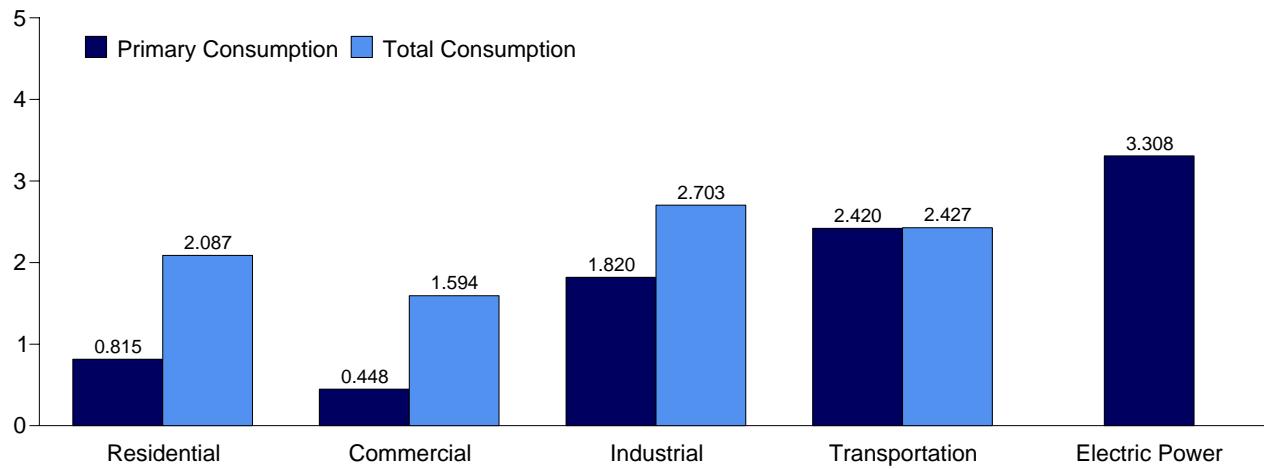
Total Consumption by End-Use Sector, 1973-2006



Total Consumption by End-Use Sector, Monthly



By Sector, December 2006



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

Web Page: <http://www.eia.doe.gov/emeu/mer/consump.html>.

Source: Table 2.1.

Table 2.1 Energy Consumption by Sector
(Trillion Btu)

	End-Use Sectors								Electric Power Sector ^{c,d}	Adjustments ^e	Total			
	Residential		Commercial ^a		Industrial ^b		Transportation							
	Primary	Total	Primary	Total	Primary	Total	Primary	Total						
1973 Total	8,250	14,930	4,381	9,507	24,741	32,653	18,576	18,612	19,753	7	75,708			
1975 Total	8,006	14,842	4,023	9,466	21,454	29,447	18,209	18,244	20,307	1	71,999			
1980 Total	7,495	15,839	4,097	10,594	22,673	32,152	19,658	19,696	24,359	-1	78,280			
1985 Total	7,197	16,134	3,714	11,471	19,473	28,891	20,042	20,089	26,158	-4	76,580			
1990 Total	6,603	17,055	3,877	13,359	21,209	31,904	22,368	22,421	30,684	-9	84,730			
1995 Total	6,973	18,613	4,080	14,722	22,706	34,013	23,793	23,849	33,644	3	91,200			
1996 Total	7,500	19,598	4,252	15,205	23,428	34,980	24,384	24,439	34,658	4	94,226			
1997 Total	7,075	19,068	4,273	15,717	23,684	35,257	24,697	24,752	35,065	6	94,800			
1998 Total	6,447	19,052	3,979	16,003	23,166	34,891	25,203	25,259	36,409	-3	95,200			
1999 Total	6,817	19,662	4,022	16,406	22,938	34,811	25,894	25,951	37,159	6	96,837			
2000 Total	7,200	20,527	4,241	17,197	22,805	34,698	26,491	26,552	38,237	2	98,976			
2001 Total	6,900	R 20,135	R 4,049	R 17,162	R 21,772	R 32,750	R 26,214	R 26,277	R 37,389	-6	R 96,318			
2002 Total	6,954	R 20,897	R 4,110	R 17,384	R 21,764	R 32,676	R 26,786	R 26,846	R 38,190	5	R 97,808			
2003 Total	7,269	R 21,232	R 4,249	R 17,368	R 21,445	R 32,524	R 26,926	R 27,000	R 38,235	-3	R 98,121			
2004 January	1,211	R 2,611	R 631	R 1,724	1,937	R 2,826	2,235	2,242	R 3,390	1	R 9,404			
February	1,076	R 2,280	R 587	R 1,590	R 1,876	R 2,728	2,174	2,181	R 3,065	-1	R 8,778			
March	784	R 1,851	R 451	R 1,479	1,885	R 2,783	2,333	2,339	R 2,999	-3	R 8,448			
April	550	R 1,466	R 337	R 1,340	R 1,815	R 2,709	2,285	2,291	R 2,821	-4	R 7,804			
May	364	R 1,403	R 244	R 1,401	R 1,821	R 2,819	2,344	2,351	R 3,201	-1	R 7,974			
June	292	R 1,524	R 208	R 1,394	R 1,784	R 2,736	2,317	2,324	R 3,377	1	R 7,980			
July	274	R 1,706	R 201	R 1,480	R 1,821	R 2,801	2,404	2,411	R 3,698	4	R 8,401			
August	275	R 1,658	R 202	R 1,454	R 1,857	R 2,835	2,401	2,408	R 3,619	3	R 8,358			
September	272	R 1,473	R 201	R 1,372	R 1,791	R 2,711	2,273	2,279	R 3,298	1	R 7,836			
October	384	R 1,401	R 253	R 1,366	R 1,884	R 2,813	2,388	2,394	R 3,065	-1	R 7,973			
November	586	R 1,576	R 344	R 1,402	R 1,864	R 2,794	2,296	2,303	R 2,984	-1	R 8,073			
December	968	R 2,250	R 529	R 1,676	R 1,951	R 2,890	2,366	2,373	R 3,376	1	R 9,190			
Total	7,036	R 21,201	R 4,188	R 17,677	R 22,285	R 33,444	27,817	27,896	R 38,893	(s)	R 100,218			
2005 January	R 1,126	R 2,502	R 597	R 1,705	R 1,948	2,851	R 2,293	R 2,301	R 3,395	2	R 9,360			
February	R 960	R 2,080	R 527	R 1,507	R 1,791	2,620	R 2,132	R 2,139	R 2,936	-1	R 8,346			
March	R 877	R 2,003	R 488	R 1,558	R 1,934	R 2,834	R 2,378	R 2,384	R 3,103	-1	R 8,778			
April	R 539	R 1,467	R 329	R 1,339	R 1,741	R 2,622	R 2,313	R 2,319	R 2,825	-4	R 7,743			
May	R 400	R 1,390	R 252	R 1,381	R 1,787	R 2,759	R 2,423	R 2,429	R 3,098	-1	R 7,958			
June	R 303	R 1,599	R 214	R 1,482	R 1,764	R 2,742	R 2,347	R 2,354	R 3,550	2	R 8,180			
July	R 274	R 1,876	R 203	R 1,556	R 1,733	R 2,713	R 2,451	R 2,458	R 3,943	4	R 8,608			
August	R 272	R 1,873	R 206	R 1,563	R 1,798	R 2,785	R 2,477	R 2,484	R 3,952	3	R 8,709			
September	R 259	R 1,574	R 198	R 1,409	R 1,601	R 2,508	R 2,286	R 2,293	R 3,438	1	R 7,784			
October	R 357	R 1,436	R 241	R 1,381	R 1,676	R 2,578	R 2,384	R 2,391	R 3,126	-1	R 7,785			
November	R 551	R 1,557	R 327	R 1,411	R 1,746	R 2,662	R 2,323	R 2,330	R 3,012	-1	R 7,959			
December	R 983	R 2,328	R 535	R 1,694	R 1,862	R 2,791	R 2,430	R 2,438	R 3,440	1	R 9,251			
Total	R 6,901	R 21,684	R 4,117	R 17,985	R 21,381	R 32,466	R 28,238	R 28,320	R 39,818	6	R 100,461			
2006 January	R 930	R 2,222	R 512	R 1,600	R 1,837	R 2,695	R 2,279	R 2,287	R 3,246	1	R 8,805			
February	R 920	R 2,045	R 508	R 1,539	R 1,683	R 2,533	R 2,088	R 2,096	R 3,013	-1	R 8,212			
March	R 838	R 1,969	R 463	R 1,552	R 1,827	R 2,713	R 2,414	R 2,422	R 3,114	-1	R 8,654			
April	R 524	R 1,495	R 309	R 1,358	R 1,689	R 2,565	2,321	2,328	R 2,902	-2	R 7,743			
May	R 362	R 1,419	R 239	R 1,435	R 1,756	R 2,715	R 2,417	R 2,424	R 3,219	-1	R 7,993			
June	R 286	R 1,596	R 211	R 1,487	R 1,743	R 2,692	R 2,372	R 2,379	R 3,542	1	R 8,155			
July	R 260	R 1,889	R 199	1,589	R 1,704	R 2,676	R 2,478	R 2,485	R 3,998	4	R 8,643			
August	R 255	R 1,871	R 212	1,586	R 1,816	R 2,781	R 2,490	R 2,498	R 3,963	4	R 8,740			
September	R 269	R 1,456	R 216	1,391	R 1,745	R 2,618	R 2,323	R 2,330	R 3,243	R (s)	R 7,796			
October	R 398	R 1,437	R 279	R 1,454	R 1,826	R 2,733	R 2,424	R 2,431	R 3,127	R -1	R 8,053			
November	R 577	R 1,619	R 341	R 1,447	R 1,814	R 2,693	R 2,286	R 2,293	R 3,034	R (s)	R 8,052			
December	815	2,087	448	1,594	1,820	2,703	2,420	2,427	3,308	2	8,814			
Total	6,436	21,108	3,937	18,031	21,260	32,116	28,313	28,400	39,710	6	99,661			

^a Commercial sector fuel use, including that at commercial combined-heat-and-power (CHP) and commercial electricity-only plants. See Note, "Classification of Power Plants Into Energy-Use Sectors," at end of Section 7.

^b Industrial sector fuel use, including that at industrial combined-heat-and-power (CHP) and industrial electricity-only plants. See Note, "Classification of Power Plants Auto Energy-Use Sectors," at end of Section 7.

^c The electric power sector comprises electricity-only and combined-heat-and-power (CHP) plants within the NAICS 22 category whose primary business is to sell electricity, or electricity and heat, to the public.

^d Through 1988, data are for consumption at electric utilities only. Beginning in 1989, data also include consumption at independent power producers.

^e A balancing item. The sum of primary consumption in the five energy-use sectors equals the sum of total consumption in the four end-use sectors. However,

total energy consumption does not equal the sum of the sectoral components due to the use of sector-specific conversion factors for coal and natural gas.

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

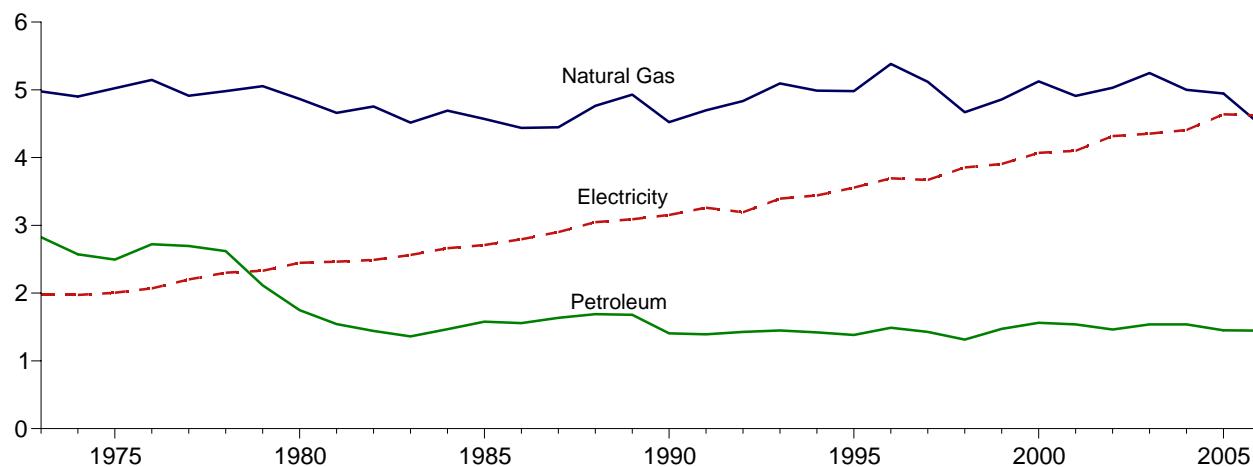
Notes: • Primary consumption includes coal, natural gas, petroleum, nuclear electric power, conventional hydroelectric power, wood, waste, alcohol fuels, geothermal, solar, wind, coal coke net imports, and electricity net imports. • Total consumption includes primary consumption, electricity retail sales, and electrical system energy losses. • Totals may not equal sum of components due to independent rounding. • Geographic coverage is the 50 States and the District of Columbia.

Web Page: For annual data not displayed between 1973 and 1995, see <http://www.eia.doe.gov/emeu/mer/consump.html>.

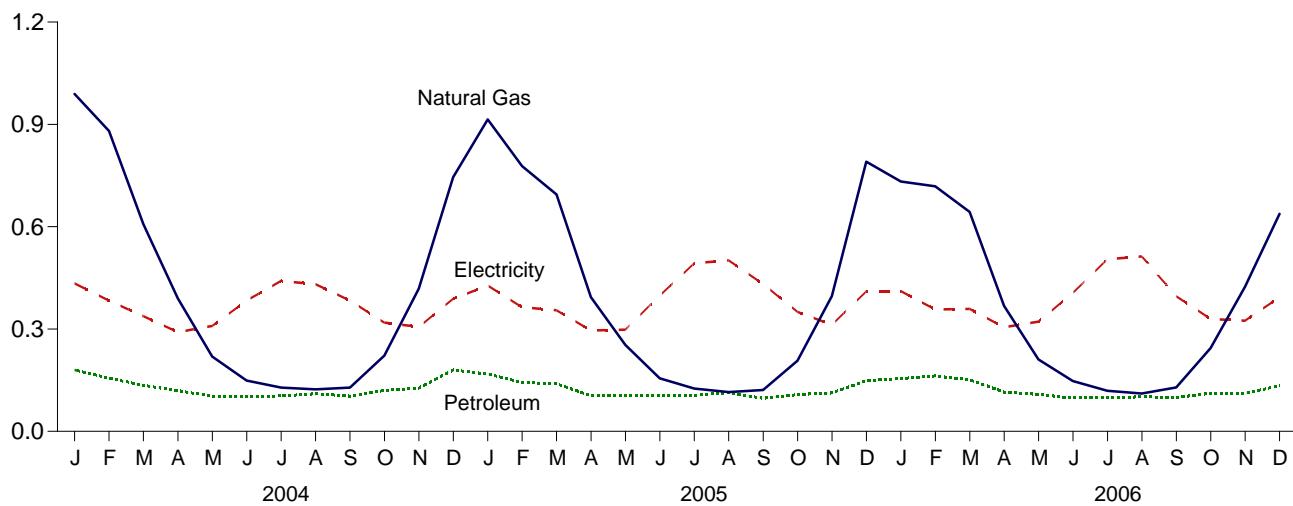
Additional Notes and Sources: See Tables 2.2-2.6 and end of section.

Figure 2.2 Residential Sector Energy Consumption
(Quadrillion Btu)

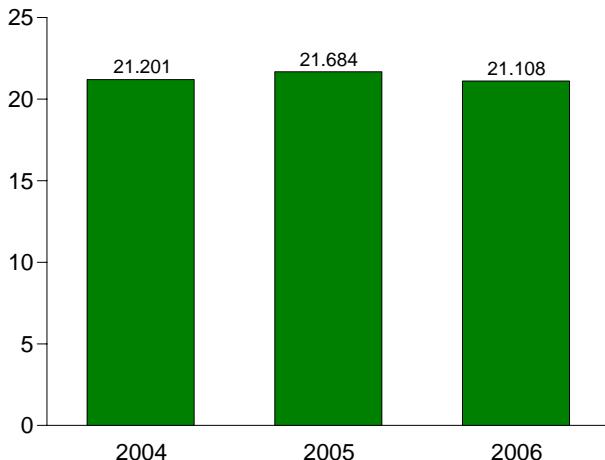
By Major Sources, 1973-2006



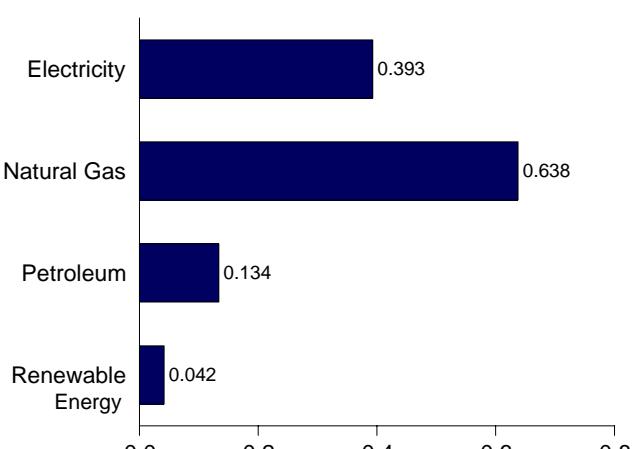
By Major Sources, Monthly



Total, January-December



By Major Sources, December 2006



Note: Because vertical scales differ, graphs should not be compared.
Web Page: <http://www.eia.doe.gov/emeu/mer/consump.html>.

Source: Table 2.2.

Table 2.2 Residential Sector Energy Consumption
(Trillion Btu)

	Primary Consumption								Total Primary	Electricity Retail Sales ^f	Electrical System Energy Losses ^g	Total				
	Fossil Fuels				Renewable Energy ^a											
	Coal	Natural Gas ^b	Petroleum	Total	Bio-mass ^c	Geo-thermal ^d	Solar ^e	Total								
1973 Total	94	4,977	2,825	7,896	354	NA	NA	354	8,250	1,976	4,703	14,930				
1975 Total	63	5,023	2,495	7,580	425	NA	NA	425	8,006	2,007	4,829	14,842				
1980 Total	31	4,866	1,748	6,645	850	NA	NA	850	7,495	2,448	5,897	15,839				
1985 Total	39	4,571	1,578	6,187	1,010	NA	NA	1,010	7,197	2,709	6,227	16,134				
1990 Total	31	4,523	1,407	5,961	580	6	56	641	6,603	3,153	7,300	17,055				
1995 Total	17	4,981	1,383	6,382	520	7	65	591	6,973	3,557	8,083	18,613				
1996 Total	17	5,383	1,488	6,888	540	7	65	612	7,500	3,694	8,405	19,598				
1997 Total	16	5,118	1,428	6,562	440	8	65	513	7,075	3,671	8,322	19,068				
1998 Total	12	4,669	1,314	5,995	380	8	65	452	6,447	3,856	8,749	19,052				
1999 Total	14	4,858	1,473	6,345	400	9	64	472	6,817	3,906	8,939	19,662				
2000 Total	11	5,126	1,563	6,701	430	9	61	500	7,200	4,069	9,258	20,527				
2001 Total	12	4,910	1,539	6,460	370	9	60	439	6,900	4,100	R 9,136	R 20,135				
2002 Total	12	5,031	1,463	6,505	380	10	59	449	6,954	4,317	R 9,626	R 20,897				
2003 Total	12	5,247	1,539	6,798	400	13	58	471	7,269	4,353	R 9,609	R 21,232				
2004 January	2	989	180	1,170	35	1	5	41	1,211	434	R 966	R 2,611				
February	1	881	156	1,038	32	1	5	38	1,076	384	R 820	R 2,280				
March	1	607	135	743	35	1	5	41	784	338	R 729	R 1,851				
April	1	390	120	511	34	1	5	40	550	291	R 625	R 1,466				
May	1	219	103	323	35	1	5	41	364	309	R 730	R 1,403				
June	1	149	103	252	34	1	5	40	292	383	R 849	R 1,524				
July	1	128	104	233	35	1	5	41	274	441	R 991	R 1,706				
August	1	123	110	234	35	1	5	41	275	431	R 951	R 1,658				
September	1	128	103	232	34	1	5	40	272	383	R 817	R 1,473				
October	1	222	120	343	35	1	5	41	384	319	R 698	R 1,401				
November	1	418	127	546	34	1	5	40	586	306	R 684	R 1,576				
December	2	745	180	927	35	1	5	41	968	389	R 893	R 2,250				
Total	14	5,000	1,539	6,553	410	14	59	483	7,036	4,408	R 9,756	R 21,201				
2005 January	1	915	R 168	R 1,084	36	1	5	42	R 1,126	427	R 949	R 2,502				
February	1	778	R 143	R 922	32	1	5	38	R 960	364	R 756	R 2,080				
March	1	694	R 139	R 835	36	1	5	42	R 877	355	R 771	R 2,003				
April	1	393	R 104	R 498	35	1	5	41	R 539	296	R 632	R 1,467				
May	1	253	R 104	R 358	36	1	5	42	R 400	298	R 692	R 1,390				
June	1	156	R 106	R 262	35	1	5	41	R 303	398	R 898	R 1,599				
July	1	125	R 106	R 232	36	1	5	42	R 274	493	R 1,109	R 1,876				
August	1	115	R 114	R 230	36	1	5	42	R 272	501	R 1,100	R 1,873				
September	1	121	R 97	R 219	35	1	5	41	R 259	432	R 883	R 1,574				
October	1	207	R 108	R 315	36	1	5	42	R 357	350	R 728	R 1,436				
November	1	397	R 113	R 510	35	1	5	41	R 551	313	R 693	R 1,557				
December	2	791	R 148	R 941	36	1	5	42	R 983	410	R 935	R 2,328				
Total	10	4,946	R 1,450	R 6,406	420	16	59	495	R 6,901	4,638	R 10,146	R 21,684				
2006 January	1	732	R 155	R 888	36	1	5	42	R 930	411	R 880	R 2,222				
February	1	719	R 162	R 882	32	1	5	38	R 920	357	R 767	R 2,045				
March	1	643	R 151	R 796	36	1	5	42	R 838	359	R 773	R 1,969				
April	1	368	R 115	R 484	35	1	5	41	R 524	305	R 665	R 1,495				
May	1	211	R 108	R 320	36	1	5	42	R 362	321	R 735	R 1,419				
June	1	147	R 98	R 246	35	1	5	41	R 286	406	R 904	R 1,596				
July	1	119	R 98	R 218	36	1	5	42	R 260	504	R 1,124	R 1,889				
August	1	111	R 101	R 213	36	1	5	42	R 255	513	R 1,103	R 1,871				
September	(s)	129	R 99	R 229	35	1	5	41	R 269	396	R 791	R 1,456				
October	1	244	R 111	R 356	36	1	5	42	R 398	329	R 709	R 1,437				
November	1	424	R 111	R 536	35	1	5	41	R 577	324	R 718	R 1,619				
December	1	638	134	773	36	1	5	42	815	393	879	2,087				
Total	10	4,485	1,445	5,941	420	16	59	495	6,436	4,621	10,052	21,108				

^a All values are estimated; see Table 10.2a.

^b Natural gas, plus a small amount of supplemental gaseous fuels that cannot be identified separately.

^c Wood.

^d Geothermal heat pump and direct use energy.

^e Solar thermal direct use and photovoltaic electricity generation. Includes small amounts of commercial sector use.

^f Electricity retail sales to ultimate customers reported by electric utilities and,

beginning in 1996, other energy service providers.

^g See Note 11, "Electrical System Energy Losses," at end of section.

R=Revised. NA=Not available. (s)=Less than 0.5 trillion Btu.

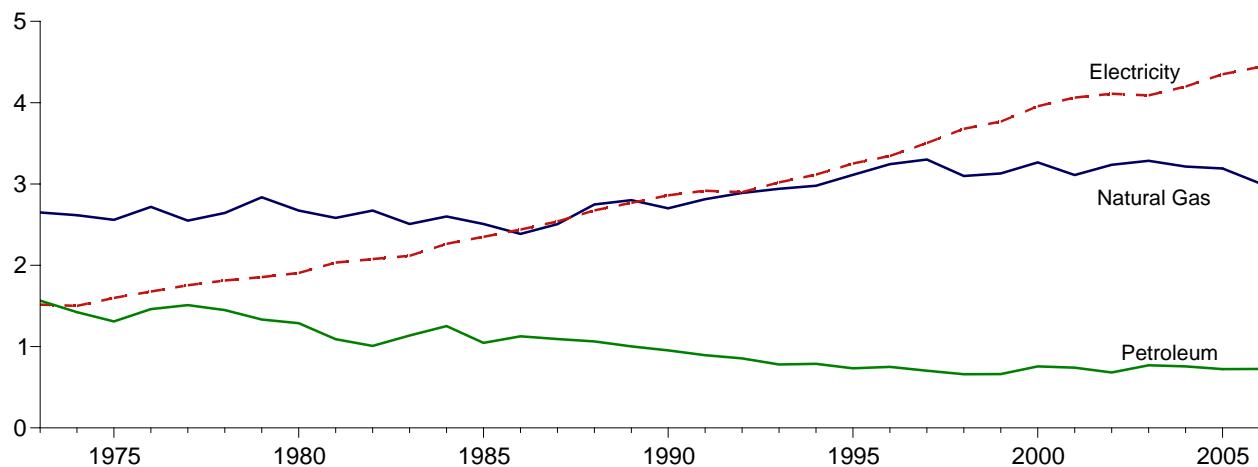
Notes: • Totals may not equal sum of components due to independent rounding. • Geographic coverage is the 50 States and the District of Columbia.

Web Page: For annual data not displayed between 1973 and 1995, see <http://www.eia.doe.gov/emeu/mer/consump.html>.

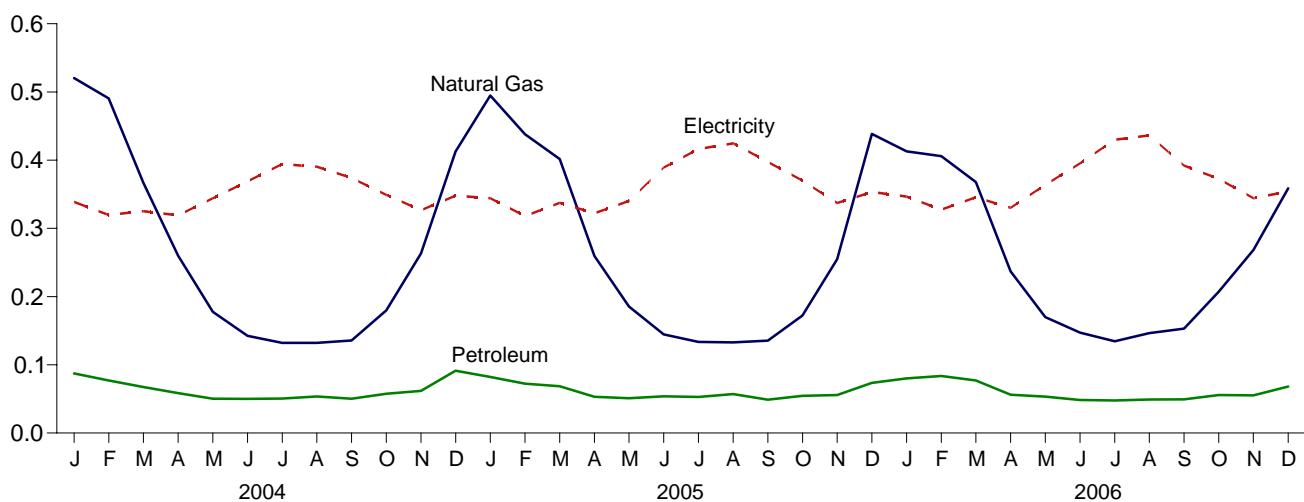
Additional Notes and Sources: See end of section.

Figure 2.3 Commercial Sector Energy Consumption
(Quadrillion Btu)

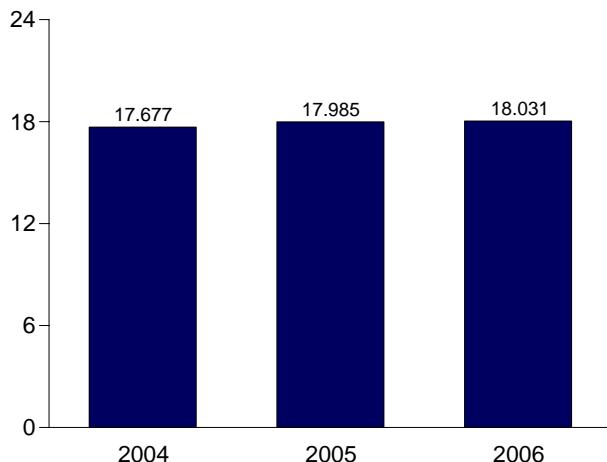
By Major Sources, 1973-2006



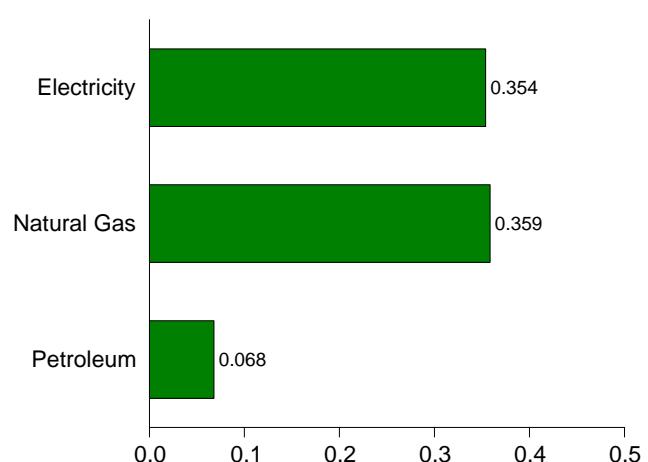
By Major Sources, Monthly



Total, January-December



By Major Sources, December 2006



Note: Because vertical scales differ, graphs should not be compared.
Web Page: <http://www.eia.doe.gov/emeu/mer/consump.html>.
Source: Table 2.3.

Table 2.3 Commercial Sector Energy Consumption

(Trillion Btu)

	Primary Consumption								Total Primary	Electricity Retail Sales ^f	Electrical System Energy Losses ^g	Total				
	Fossil Fuels				Renewable Energy ^a											
	Coal	Natural Gas ^b	Petroleum	Total	Hydro-electric Power ^c	Bio-mass ^d	Geo-thermal ^e	Total								
1973 Total	160	2,649	1,565	4,374	NA	7	NA	7	4,381	1,517	3,609	9,507				
1975 Total	147	2,558	1,310	4,015	NA	8	NA	8	4,023	1,598	3,845	9,466				
1980 Total	115	2,674	1,287	4,076	NA	21	NA	21	4,097	1,906	4,591	10,594				
1985 Total	137	2,508	1,045	3,690	NA	24	NA	24	3,714	2,351	5,405	11,471				
1990 Total	124	2,701	953	3,779	1	94	3	98	3,877	2,860	6,622	13,359				
1995 Total	117	3,113	732	3,962	1	113	5	118	4,080	3,252	7,390	14,722				
1996 Total	122	3,244	751	4,116	1	129	5	135	4,252	3,344	7,609	15,205				
1997 Total	129	3,302	704	4,135	1	131	6	138	4,273	3,503	7,941	15,717				
1998 Total	93	3,098	661	3,853	1	118	7	127	3,979	3,678	8,345	16,003				
1999 Total	103	3,130	661	3,894	1	121	7	128	4,022	3,766	8,618	16,406				
2000 Total	92	3,265	756	4,113	1	119	8	127	4,241	3,956	9,001	17,197				
2001 Total	97	3,110	742	3,949	1	R 91	8	R 100	R 4,049	4,062	R 9,051	R 17,162				
2002 Total	90	3,235	681	4,006	(s)	R 95	9	R 103	R 4,110	4,110	R 9,164	R 17,384				
2003 Total	82	3,284	771	4,137	1	R 100	11	R 112	R 4,249	4,090	R 9,029	R 17,368				
 2004 January	13	520	87	621	(s)	R 9	1	R 10	R 631	339	R 754	R 1,724				
February	10	491	77	578	(s)	R 8	1	R 9	R 587	320	R 683	R 1,590				
March	7	367	67	441	(s)	R 9	1	R 10	R 451	325	R 703	R 1,479				
April	8	260	59	327	(s)	R 9	1	R 10	R 337	319	R 685	R 1,340				
May	6	178	50	234	(s)	R 9	1	R 10	R 244	344	R 813	R 1,401				
June	6	143	50	198	(s)	R 9	1	R 10	R 208	369	R 817	R 1,394				
July	8	132	51	191	(s)	R 9	1	R 10	R 201	394	R 885	R 1,480				
August	7	132	53	192	(s)	R 9	1	R 10	R 202	391	R 861	R 1,454				
September	5	136	50	191	(s)	R 9	1	R 10	R 201	374	R 798	R 1,372				
October	6	180	58	243	(s)	R 9	1	R 10	R 253	349	R 764	R 1,366				
November	9	263	62	335	(s)	R 9	1	R 10	R 344	327	R 731	R 1,402				
December	15	413	91	519	(s)	R 9	1	R 10	R 529	348	R 799	R 1,676				
Total	101	3,213	756	4,070	1	R 105	12	R 118	R 4,188	4,198	R 9,291	R 17,677				
 2005 January	10	495	R 82	R 587	(s)	R 9	1	R 10	R 597	344	R 764	R 1,705				
February	8	438	R 72	R 518	(s)	R 8	1	R 9	R 527	318	R 661	R 1,507				
March	7	402	R 69	R 478	(s)	R 9	1	R 10	R 488	338	R 733	R 1,558				
April	6	260	R 53	R 319	(s)	R 8	1	R 10	R 329	322	R 688	R 1,339				
May	5	185	R 51	R 241	(s)	R 9	1	R 10	R 252	340	R 789	R 1,381				
June	5	145	R 54	R 204	(s)	R 9	1	R 10	R 214	389	R 879	R 1,482				
July	6	134	R 53	R 193	(s)	R 9	1	R 10	R 203	416	R 937	R 1,556				
August	6	133	R 57	R 196	(s)	R 9	1	R 10	R 206	425	R 932	R 1,563				
September	4	135	R 49	R 189	(s)	R 9	1	R 10	R 198	398	R 813	R 1,409				
October	5	172	R 54	R 231	(s)	R 9	1	R 10	R 241	370	R 769	R 1,381				
November	7	255	R 56	R 318	(s)	R 9	1	R 10	R 327	337	R 747	R 1,411				
December	13	438	R 74	R 525	(s)	R 9	1	R 10	R 535	353	R 806	R 1,694				
Total	84	3,191	R 723	R 3,999	1	R 104	14	R 118	R 4,117	4,351	R 9,518	R 17,985				
 2006 January	8	413	R 80	R 502	(s)	R 9	1	R 10	R 512	347	R 742	R 1,600				
February	9	406	R 84	R 499	(s)	R 8	1	R 9	R 508	328	R 703	R 1,539				
March	8	368	R 77	R 453	(s)	R 9	1	R 10	R 463	346	R 744	R 1,552				
April	6	237	R 56	R 300	(s)	R 9	1	R 10	R 309	330	R 719	R 1,358				
May	5	170	R 53	R 229	(s)	R 9	1	R 10	R 239	364	R 832	1,435				
June	5	147	R 48	R 201	(s)	R 9	1	R 10	R 211	395	R 880	1,487				
July	7	135	R 48	R 189	(s)	R 9	1	R 10	R 199	430	R 959	1,589				
August	6	146	R 49	R 202	(s)	R 9	1	R 10	R 212	436	R 938	1,586				
September	4	153	R 49	R 206	(s)	R 9	1	R 10	R 216	392	R 783	1,391				
October	6	207	R 56	R 269	(s)	R 9	1	R 10	R 279	373	R 802	R 1,454				
November	R 8	268	R 55	R 332	(s)	R 9	1	R 10	R 341	344	R 762	R 1,447				
December	11	359	68	438	(s)	9	1	10	448	354	792	1,594				
Total	84	3,010	724	3,818	1	105	14	120	3,937	4,439	9,656	18,031				

^a All values are estimated; see Table 10.2a.

^b Natural gas, plus a small amount of supplemental gaseous fuels that cannot be identified separately.

^c Conventional hydroelectric power.

^d Wood and waste.

^e Geothermal heat pump and direct use energy.

^f Electricity retail sales to ultimate customers reported by electric utilities and, beginning in 1996, other energy service providers.

^g See Note 11, "Electrical System Energy Losses," at end of section.

R=Revised. NA=Not available. (s)=Less than 0.5 trillion Btu.

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

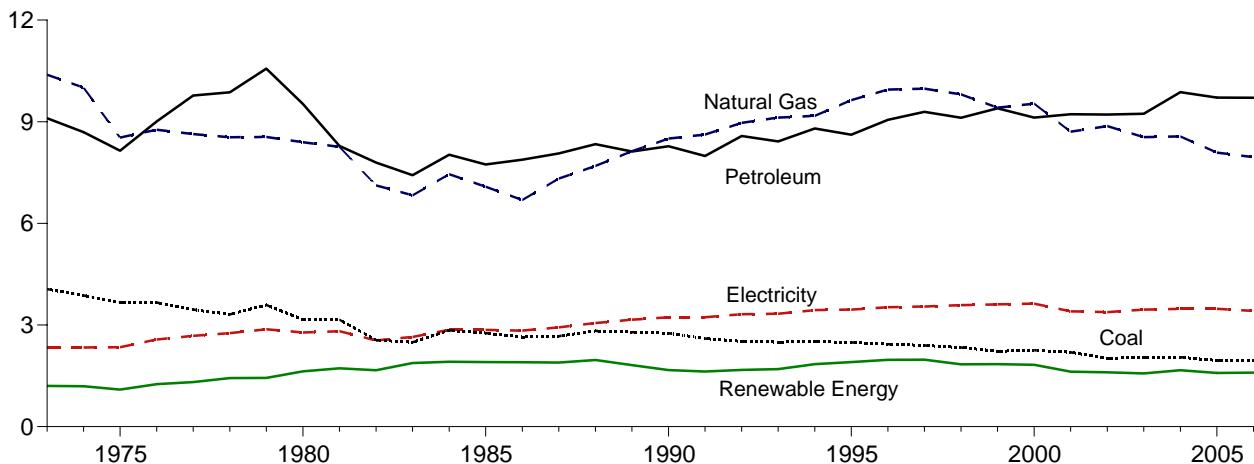
Web Page: For annual data not displayed between 1973 and 1995, see <http://www.eia.doe.gov/emeu/mer/consump.html>.

Additional Notes and Sources: See end of section.

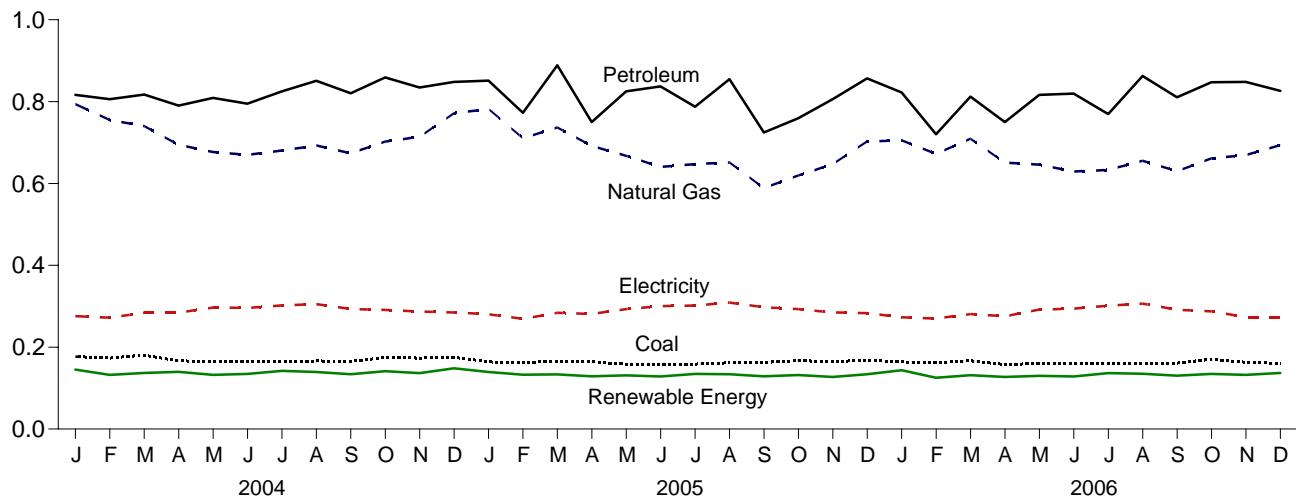
Beginning with 2001 data, non-renewable waste (municipal solid waste from non-biogenic sources, and tire-derived fuels) is removed from "Biomass." Because this portion is mostly derived from fossil fuels, it is not primary energy, and, hence, not included in this table.

Figure 2.4 Industrial Sector Energy Consumption
(Quadrillion Btu)

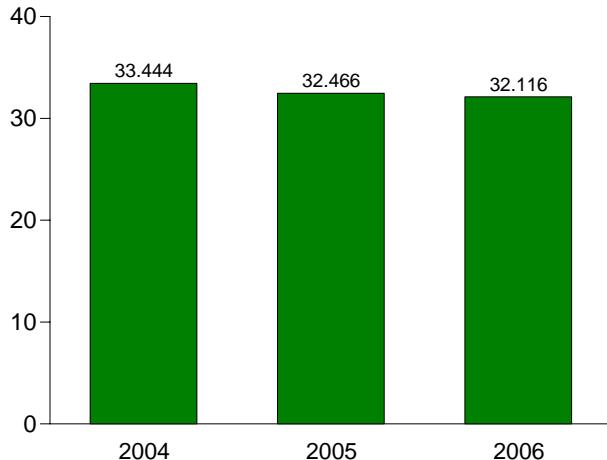
By Major Sources, 1973-2006



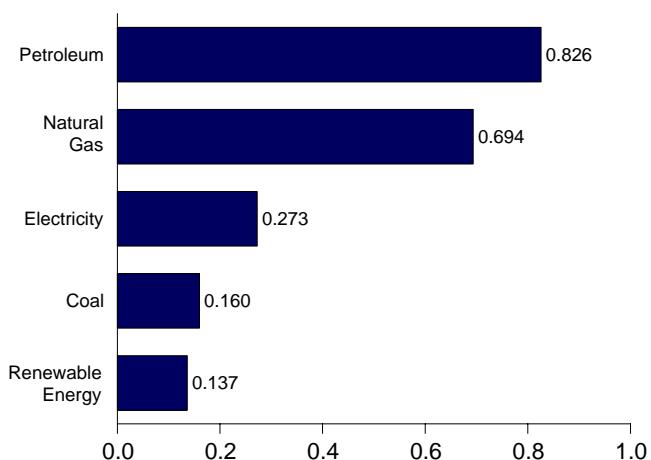
By Major Sources, Monthly



Total, January-December



By Major Sources, December 2006



Note: Because vertical scales differ, graphs should not be compared.
Web Page: <http://www.eia.doe.gov/emeu/mer/consump.html>.
Source: Table 2.4.

Table 2.4 Industrial Sector Energy Consumption
(Trillion Btu)

	Primary Consumption								Electricity Retail Sales ^g	Electrical System Energy Losses ^h	Total ^c	
	Fossil Fuels				Renewable Energy ^a							
	Coal	Natural Gas ^b	Petroleum	Total ^c	Hydro- electric Power ^d	Bio- mass ^e	Geo- thermal ^f	Total	Total	Primary		
1973 Total	4,057	10,388	9,104	23,541	35	1,165	NA	1,200	24,741	2,341	5,571	32,653
1975 Total	3,667	8,532	8,146	20,359	32	1,063	NA	1,096	21,454	2,346	5,647	29,447
1980 Total	3,155	8,395	9,525	21,040	33	1,600	NA	1,633	22,673	2,781	6,698	32,152
1985 Total	2,760	7,080	7,738	17,565	33	1,875	NA	1,908	19,473	2,855	6,563	28,891
1990 Total	2,756	8,502	8,278	19,542	31	1,634	2	1,667	21,209	3,226	7,469	31,904
1995 Total	2,488	9,637	8,614	20,801	55	1,847	3	1,905	22,706	3,455	7,852	34,013
1996 Total	2,434	9,947	9,053	21,457	61	1,907	3	1,971	23,428	3,527	8,025	34,980
1997 Total	2,395	9,976	9,290	21,708	58	1,915	3	1,976	23,684	3,542	8,031	35,257
1998 Total	2,335	9,806	9,116	21,324	55	1,784	3	1,841	23,166	3,587	8,138	34,891
1999 Total	2,227	9,415	9,396	21,095	49	1,791	4	1,843	22,938	3,611	8,262	34,811
2000 Total	2,256	9,535	9,120	20,977	42	1,781	4	1,828	22,805	3,631	8,262	34,698
2001 Total	2,192	8,708	9,220	20,149	33	R 1,586	5	R 1,623	R 21,772	3,400	R 7,577	R 32,750
2002 Total	2,019	8,870	9,213	20,163	39	R 1,557	5	R 1,601	R 21,764	3,379	R 7,534	R 32,676
2003 Total	2,041	8,546	9,237	19,874	43	R 1,524	3	R 1,571	R 21,445	3,454	R 7,625	R 32,524
2004 January	177	794	817	1,791	3	142	(s)	R 145	1,937	276	R 614	R 2,826
February	173	755	806	1,743	3	R 129	(s)	R 132	R 1,876	272	R 581	R 2,728
March	181	740	817	1,748	3	R 134	(s)	R 137	1,885	284	R 614	R 2,783
April	166	695	790	1,675	2	R 137	(s)	R 140	R 1,815	284	R 610	R 2,709
May	166	677	809	1,689	2	R 130	(s)	R 132	R 1,821	297	R 701	R 2,819
June	165	670	795	1,650	2	133	(s)	R 135	R 1,784	296	R 656	R 2,736
July	164	681	825	1,679	2	140	(s)	R 142	R 1,821	302	R 678	R 2,801
August	167	693	851	1,717	2	R 137	(s)	R 139	R 1,857	305	R 673	R 2,835
September	165	674	820	1,658	3	R 130	(s)	R 134	R 1,791	293	R 626	R 2,711
October	175	702	859	1,743	3	R 138	(s)	R 141	R 1,884	291	R 637	R 2,813
November	173	714	834	1,727	3	R 133	(s)	R 137	R 1,864	287	R 643	R 2,794
December	175	771	848	1,802	4	R 144	(s)	149	R 1,951	285	R 654	R 2,890
Total	2,047	8,566	9,872	20,622	33	R 1,626	4	R 1,663	R 22,285	3,473	R 7,686	R 33,444
2005 January	164	782	R 851	R 1,808	3	R 136	(s)	R 139	R 1,948	281	R 623	2,851
February	162	711	R 773	R 1,658	3	R 130	(s)	R 133	R 1,791	269	R 560	2,620
March	166	737	R 889	R 1,800	3	R 130	(s)	R 134	R 1,934	284	R 616	R 2,834
April	164	692	R 750	1,612	3	R 126	(s)	R 129	R 1,741	281	R 600	R 2,622
May	158	667	825	1,656	3	R 128	(s)	R 131	R 1,787	293	R 680	R 2,759
June	157	640	837	1,635	3	R 125	(s)	R 128	R 1,764	300	R 678	R 2,742
July	158	647	787	1,598	3	R 131	(s)	R 135	R 1,733	302	R 679	R 2,713
August	162	651	R 855	1,664	2	R 131	(s)	R 134	R 1,798	309	R 678	R 2,785
September	163	588	724	1,473	2	R 126	(s)	R 129	R 1,601	298	R 609	R 2,508
October	167	619	759	R 1,545	2	R 129	(s)	R 132	R 1,676	293	R 609	R 2,578
November	164	647	806	1,618	2	R 125	(s)	R 127	R 1,746	285	R 631	R 2,662
December	168	703	R 857	R 1,728	3	R 131	(s)	R 134	R 1,862	283	R 646	R 2,791
Total	1,954	8,085	R 9,714	R 19,797	32	R 1,548	4	R 1,584	R 21,381	3,477	R 7,607	R 32,466
2006 January	164	705	R 822	R 1,694	3	R 140	(s)	R 144	R 1,837	273	R 585	R 2,695
February	162	672	R 720	R 1,558	3	R 122	(s)	R 125	R 1,683	270	R 580	R 2,533
March	167	709	R 812	R 1,695	2	R 129	(s)	R 132	R 1,827	281	R 605	R 2,713
April	157	R 651	R 750	R 1,562	2	R 125	(s)	R 127	R 1,689	276	R 600	R 2,565
May	160	R 646	R 816	R 1,626	2	R 127	(s)	R 130	R 1,756	292	R 667	R 2,715
June	160	R 629	R 820	R 1,614	2	R 126	(s)	R 129	R 1,743	294	R 655	R 2,692
July	161	633	R 769	R 1,567	2	R 134	(s)	R 137	R 1,704	301	R 671	R 2,676
August	160	R 655	R 863	R 1,681	2	R 133	(s)	R 135	R 1,816	306	R 659	R 2,781
September	161	R 630	R 811	R 1,615	2	R 128	(s)	R 130	R 1,745	291	R 582	R 2,618
October	R 170	R 661	R 847	R 1,692	3	R 132	(s)	R 135	R 1,826	287	R 619	R 2,733
November	R 163	R 670	R 848	R 1,682	3	R 128	(s)	R 132	R 1,814	274	R 605	R 2,693
December	160	694	826	1,683	3	134	(s)	137	1,820	273	610	2,703
Total	1,946	7,956	9,705	19,668	30	1,558	4	1,592	21,260	3,419	7,437	32,116

^a All values are estimated; see Table 10.2b.

^b Natural gas, plus a small amount of supplemental gaseous fuels that cannot be identified separately.

^c Includes coal coke net imports, which are not separately displayed. See Table 1.4.

^d Conventional hydroelectric power.

^e Wood and waste.

^f Geothermal heat pump and direct use energy.

^g Electricity retail sales to ultimate customers reported by electric utilities and,

beginning in 1996, other energy service providers.

^h See Note 11, "Electrical System Energy Losses," at end of section.

R=Revised. NA=Not available. (s)=Less than 0.5 trillion Btu.

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

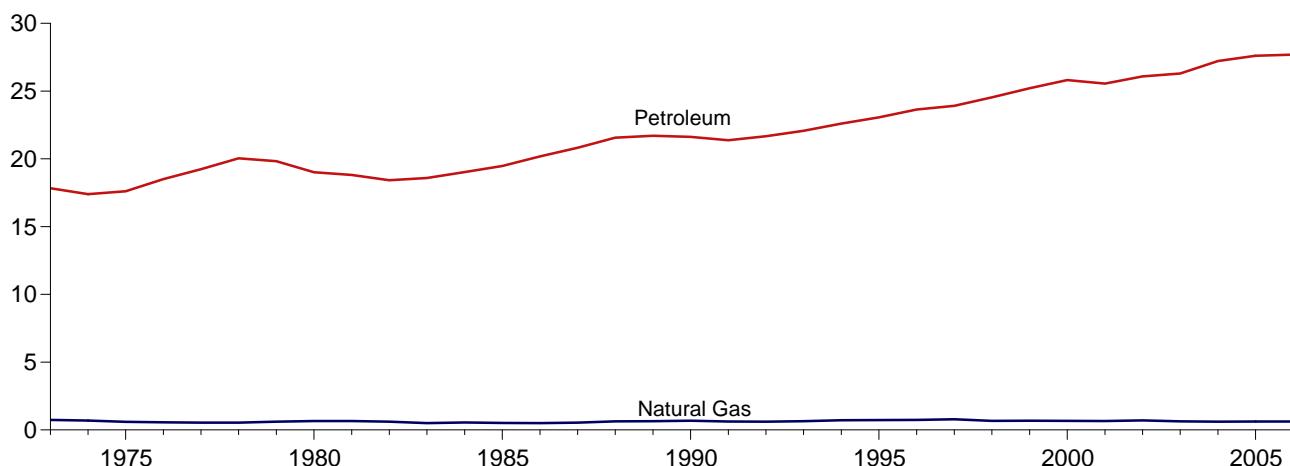
Web Page: For annual data not displayed between 1973 and 1995, see <http://www.eia.doe.gov/emeu/mer/consump.html>.

Additional Notes and Sources: See end of section.

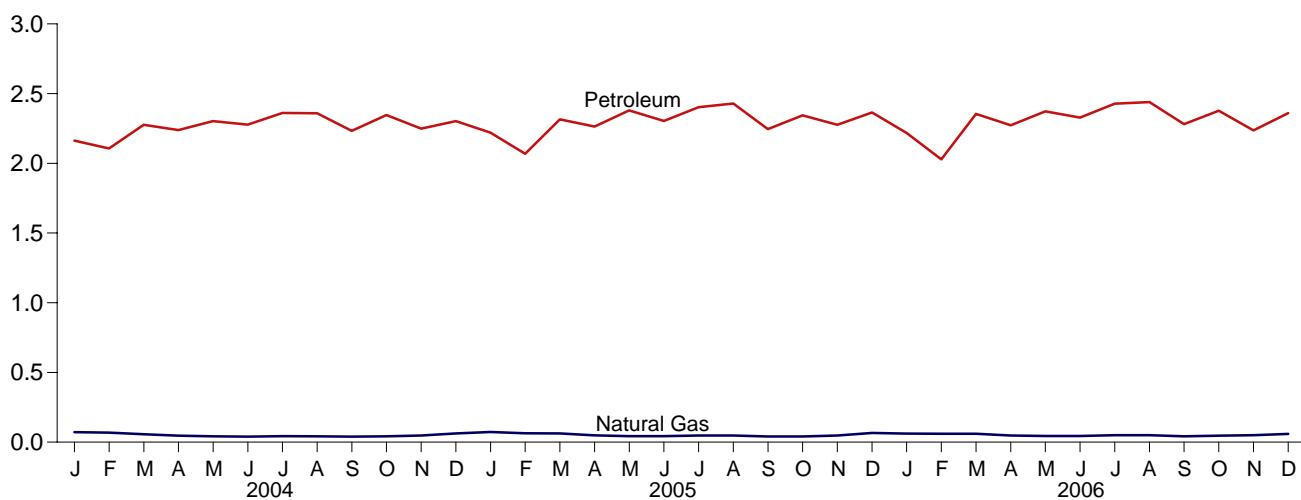
Beginning with 2001 data, non-renewable waste (municipal solid waste from non-biogenic sources, and tire-derived fuels) is removed from "Biomass." Because this portion is mostly derived from fossil fuels, it is not primary energy, and, hence, not included in this table.

Figure 2.5 Transportation Sector Energy Consumption
(Quadrillion Btu)

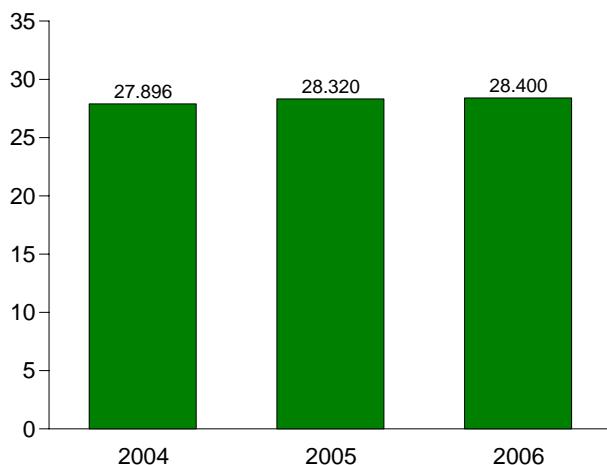
By Major Sources, 1973-2006



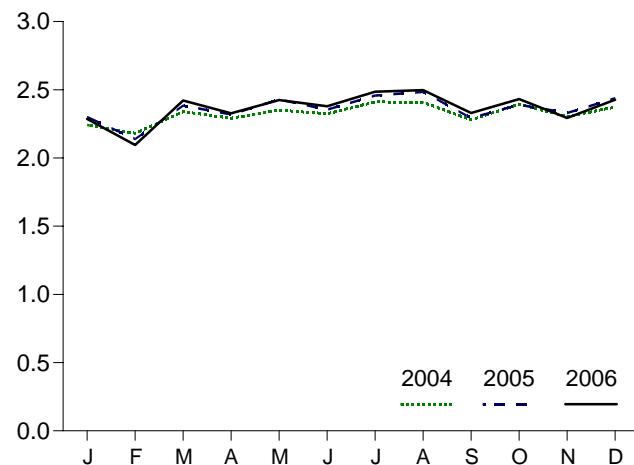
By Major Sources, Monthly



Total, January-December



Total, Monthly



Note: Because vertical scales differ, graphs should not be compared.
Web Page: <http://www.eia.doe.gov/emeu/mer/consump.html>.
Source: Table 2.5.

Table 2.5 Transportation Sector Energy Consumption
(Trillion Btu)

	Primary Consumption					Total Primary ^d	Electricity Retail Sales ^f	Electrical System Energy Losses ^g	Total ^d
	Fossil Fuels				Renewable Energy ^a				
	Coal	Natural Gas ^b	Petroleum ^{c,d}	Total	Biomass ^{d,e}				
1973 Total	3	743	17,831	18,576	NA	18,576	11	25	18,612
1975 Total	1	595	17,614	18,209	NA	18,209	10	24	18,244
1980 Total	(h)	650	19,009	19,658	NA	19,658	11	27	19,696
1985 Total	(h)	519	19,471	19,990	52	20,042	14	33	20,089
1990 Total	(h)	680	21,625	22,305	63	22,368	16	38	22,421
1995 Total	(h)	724	23,069	23,793	117	23,793	17	39	23,849
1996 Total	(h)	737	23,647	24,384	84	24,384	17	38	24,439
1997 Total	(h)	780	23,917	24,697	106	24,697	17	38	24,752
1998 Total	(h)	666	24,537	25,203	117	25,203	17	38	25,259
1999 Total	(h)	675	25,218	25,894	122	25,894	17	40	25,951
2000 Total	(h)	672	25,820	26,491	139	26,491	18	42	26,552
2001 Total	(h)	658	25,556	26,214	147	26,214	20	44	R 26,277
2002 Total	(h)	702	26,084	26,786	175	26,786	19	42	R 26,846
2003 Total	(h)	630	26,296	26,926	238	26,926	23	R 51	R 27,000
2004 January	(h)	72	2,163	2,235	24	2,235	2	5	2,242
February	(h)	68	2,106	2,174	24	2,174	2	5	2,181
March	(h)	57	2,276	2,333	24	2,333	2	4	2,339
April	(h)	47	2,238	2,285	24	2,285	2	4	2,291
May	(h)	42	2,302	2,344	25	2,344	2	5	2,351
June	(h)	40	2,278	2,317	26	2,317	2	4	2,324
July	(h)	43	2,361	2,404	24	2,404	2	5	2,411
August	(h)	42	2,359	2,401	25	2,401	2	5	2,408
September	(h)	40	2,233	2,273	25	2,273	2	4	2,279
October	(h)	42	2,346	2,388	26	2,388	2	4	2,394
November	(h)	48	2,248	2,296	26	2,296	2	4	2,303
December	(h)	63	2,303	2,366	27	2,366	2	5	2,373
Total	(h)	603	27,214	27,817	299	27,817	25	55	27,896
2005 January	(h)	73	R 2,220	R 2,293	27	R 2,293	2	5	R 2,301
February	(h)	64	R 2,069	R 2,132	24	R 2,132	2	5	R 2,139
March	(h)	63	R 2,315	R 2,378	26	R 2,378	2	5	R 2,384
April	(h)	49	R 2,264	R 2,313	25	R 2,313	2	4	R 2,319
May	(h)	43	R 2,380	R 2,423	27	R 2,423	2	4	R 2,429
June	(h)	43	R 2,304	R 2,347	29	R 2,347	2	5	R 2,354
July	(h)	48	R 2,403	R 2,451	29	R 2,451	2	5	R 2,458
August	(h)	48	R 2,429	R 2,477	31	R 2,477	2	5	R 2,484
September	(h)	40	R 2,246	R 2,286	28	R 2,286	2	4	R 2,293
October	(h)	41	R 2,344	R 2,384	31	R 2,384	2	4	R 2,391
November	(h)	47	R 2,276	R 2,323	31	R 2,323	2	4	R 2,330
December	(h)	66	R 2,364	R 2,430	33	R 2,430	2	5	R 2,438
Total	(h)	625	R 27,614	R 28,238	342	R 28,238	26	56	R 28,320
2006 January	(h)	61	R 2,218	R 2,279	30	R 2,279	2	5	R 2,287
February	(h)	60	R 2,028	R 2,088	28	R 2,088	2	5	R 2,096
March	(h)	60	R 2,354	R 2,414	32	R 2,414	2	5	R 2,422
April	(h)	48	2,273	2,321	32	2,321	2	5	2,328
May	(h)	44	R 2,373	R 2,417	39	R 2,417	2	5	R 2,424
June	(h)	45	R 2,327	R 2,372	43	R 2,372	2	5	R 2,379
July	(h)	50	R 2,428	R 2,478	40	R 2,478	2	5	R 2,485
August	(h)	50	R 2,440	R 2,490	42	R 2,490	2	5	R 2,498
September	(h)	42	R 2,281	R 2,323	41	R 2,323	2	5	R 2,330
October	(h)	47	R 2,377	R 2,424	43	R 2,424	2	5	R 2,431
November	(h)	50	R 2,236	R 2,286	44	R 2,286	2	5	R 2,293
December	(h)	59	2,361	2,420	44	2,420	2	5	2,427
Total	(h)	616	27,696	28,313	459	28,313	28	60	28,400

^a All values are estimated; see Table 10.2b.

^b Natural gas consumed in the operation of pipelines (primarily in compressors) and small amounts consumed as vehicle fuel. See Table 4.4.

^c Beginning in 1993, includes ethanol blended into motor gasoline.

^d Beginning in 1993, ethanol blended into motor gasoline is included in both "Petroleum" and "Biomass," but is counted only once in both total primary consumption and total consumption.

^e Alcohol fuels (ethanol blended into motor gasoline).

^f Electricity retail sales to ultimate customers reported by electric utilities and, beginning in 1996, other energy service providers.

^g See Note 11, "Electrical System Energy Losses," at end of section.

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

R=Revised. NA=Not available.

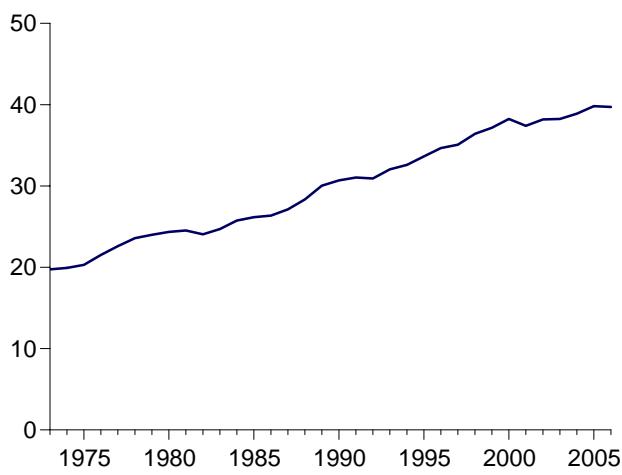
Notes: • Totals may not equal sum of components due to independent rounding. • Geographic coverage is the 50 States and the District of Columbia.

Web Page: For annual data not displayed between 1973 and 1995, see <http://www.eia.doe.gov/emeu/mer/consump.html>.

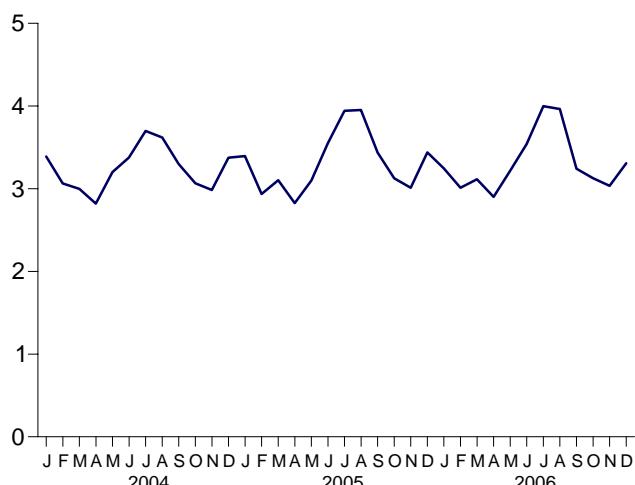
Additional Notes and Sources: See end of section.

Figure 2.6 Electric Power Sector Energy Consumption
(Quadrillion Btu)

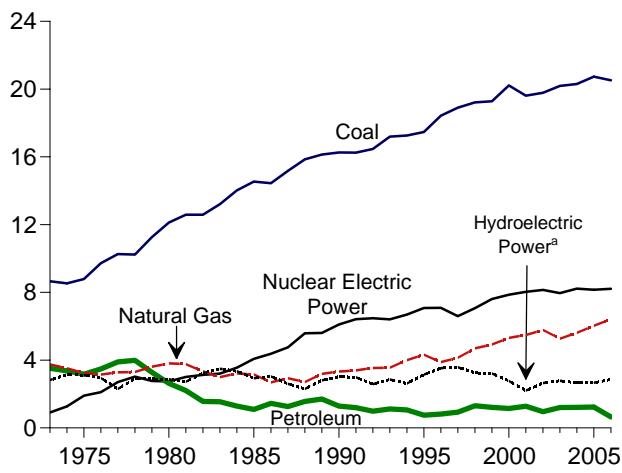
Total, 1973-2006



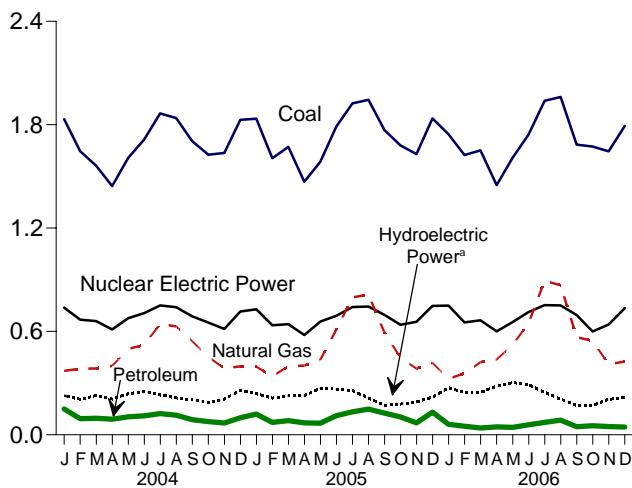
Total, Monthly



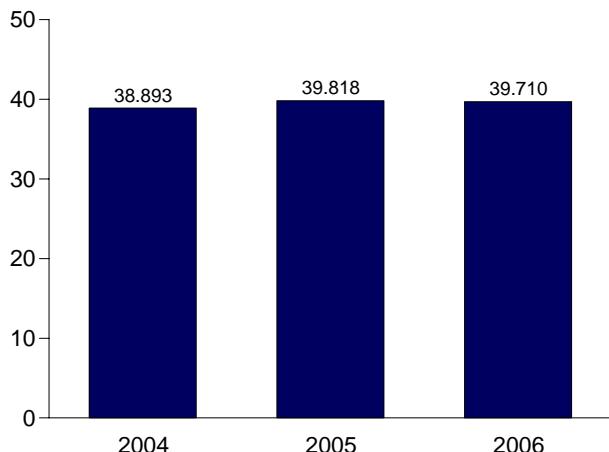
By Major Sources, 1973-2006



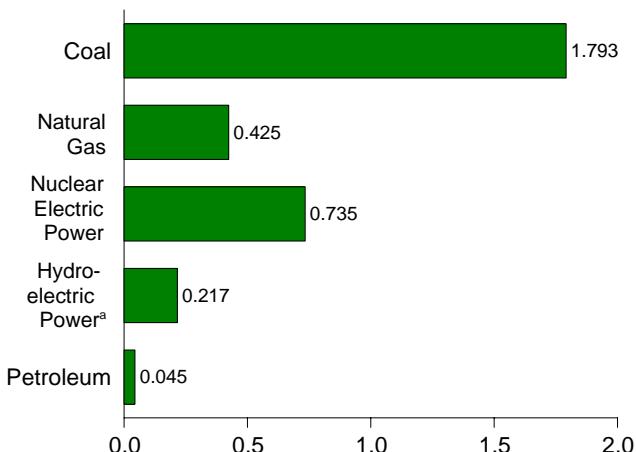
By Major Sources, Monthly



Total, January-December



By Major Sources, December 2006



^aConventional hydroelectric power.

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

Web Page: <http://www.eia.doe.gov/emeu/mer/consump.html>.

Source: Table 2.6.

Table 2.6 Electric Power Sector Energy Consumption
(Trillion Btu)

	Primary Consumption													Electricity Net Imports	Total Primary
	Fossil Fuels				Nuclear Electric Power	Renewable Energy ^a									
	Coal	Natural Gas ^b	Petroleum	Total		Hydro-electric Power ^c	Bio-mass ^d	Geo-thermal ^e	Solar ^f	Wind ^g	Total				
1973 Total	8,658	3,748	3,515	15,921	910	2,827	3	43	NA	NA	2,873	49	19,753		
1975 Total	8,786	3,240	3,166	15,191	1,900	3,122	2	70	NA	NA	3,194	21	20,307		
1980 Total	12,123	3,810	2,634	18,567	2,739	2,867	4	110	NA	NA	2,982	71	24,359		
1985 Total	14,542	3,160	1,090	18,792	4,076	2,937	14	198	(s)	(s)	3,150	140	26,158		
1990 Total ^h	16,261	3,332	1,289	20,883	6,104	3,014	317	326	4	29	3,689	8	30,684		
1995 Total	17,466	4,325	755	22,546	7,075	3,149	422	280	5	33	3,889	134	33,644		
1996 Total	18,429	3,883	817	23,129	7,087	3,528	438	300	5	33	4,305	137	34,658		
1997 Total	18,905	4,146	927	23,977	6,597	3,581	446	309	5	34	4,375	116	35,065		
1998 Total	19,216	4,698	1,306	25,220	7,068	3,241	444	311	5	31	4,032	88	36,409		
1999 Total	19,279	4,926	1,211	25,416	7,610	3,218	453	312	5	46	4,034	99	37,159		
2000 Total	20,220	5,316	1,144	26,680	7,862	2,768	453	296	5	57	3,579	115	38,237		
2001 Total	19,614	5,481	1,277	26,371	8,033	2,209	R 337	289	6	70	R 2,910	75	R 37,389		
2002 Total	19,783	5,785	961	26,529	8,143	2,650	R 380	305	6	105	R 3,445	72	R 38,190		
2003 Total	20,185	5,264	1,205	26,653	7,959	2,781	R 397	303	5	115	R 3,601	22	R 38,235		
2004 January	1,832	371	150	2,354	738	227	R 33	27	(s)	10	R 297	(s)	R 3,390		
February	1,646	384	93	2,123	668	207	R 31	26	(s)	10	R 274	(s)	R 3,065		
March	1,561	385	96	2,043	660	227	R 33	26	1	13	R 299	-3	R 2,999		
April	1,444	400	90	1,934	611	207	R 30	24	1	13	R 275	(s)	R 2,821		
May	1,607	498	105	2,210	677	239	R 31	25	1	17	R 313	1	R 3,201		
June	1,714	522	110	2,346	706	251	R 31	26	1	14	R 323	2	R 3,377		
July	1,866	643	123	2,632	750	232	R 35	27	1	12	R 306	10	R 3,698		
August	1,838	629	114	2,581	741	214	R 34	26	1	11	R 286	12	R 3,619		
September	1,705	544	88	2,337	687	203	R 32	25	1	11	R 271	3	R 3,298		
October	1,626	452	77	2,155	652	186	R 32	27	(s)	10	R 255	4	R 3,065		
November	1,636	386	68	2,091	615	206	R 32	25	(s)	9	R 273	5	R 2,984		
December	1,828	397	98	2,323	715	259	R 35	26	(s)	12	R 331	5	R 3,376		
Total	20,305	5,611	1,212	27,129	8,222	2,656	R 388	311	6	142	R 3,503	39	R 38,893		
2005 January	1,835	395	120	2,350	729	239	R 34	26	(s)	11	R 311	5	R 3,395		
February	1,605	340	72	2,017	636	213	R 31	22	(s)	10	R 277	6	R 2,936		
March	1,671	397	82	2,151	642	226	R 34	25	(s)	16	R 302	8	R 3,103		
April	1,469	401	69	1,940	579	228	R 30	25	1	17	R 300	6	R 2,825		
May	1,585	435	68	2,088	657	270	R 33	27	1	17	R 348	5	R 3,098		
June	1,789	611	111	2,511	690	265	R 34	26	1	18	R 344	5	R 3,550		
July	1,924	799	133	2,856	742	257	R 37	27	1	14	R 335	10	R 3,943		
August	1,945	813	149	2,907	745	213	R 36	26	1	11	R 288	12	R 3,952		
September	1,769	594	126	2,488	696	171	R 34	26	1	15	R 246	7	R 3,438		
October	1,680	447	103	2,230	639	178	R 32	26	(s)	14	R 251	6	R 3,126		
November	1,630	384	69	2,082	656	191	R 34	26	(s)	16	R 267	6	R 3,012		
December	1,836	418	132	2,386	749	218	R 36	26	(s)	18	R 299	7	R 3,440		
Total	20,737	6,033	1,235	28,005	8,160	2,670	R 406	309	6	178	R 3,568	84	R 39,818		
2006 January	1,745	325	61	2,130	750	273	R 37	26	(s)	24	R 361	5	R 3,246		
February	1,624	357	50	2,031	653	247	R 34	24	(s)	19	R 324	5	R 3,013		
March	1,651	421	39	2,112	664	245	R 36	27	(s)	24	R 332	6	R 3,114		
April	1,450	437	46	1,933	600	283	R 32	24	1	25	R 364	5	R 2,902		
May	1,608	522	44	2,174	655	303	R 34	23	1	24	R 386	5	R 3,219		
June	1,744	649	58	2,451	713	291	R 35	26	1	20	R 373	5	R 3,542		
July	1,938	895	72	2,905	753	247	R 37	27	1	19	R 330	10	R 3,998		
August	1,961	868	85	2,913	751	207	R 37	28	1	16	R 288	10	R 3,963		
September	1,684	567	47	2,298	695	170	R 35	26	1	18	R 250	(s)	R 3,243		
October	1,673	545	52	2,270	600	171	R 34	27	(s)	24	R 256	1	R 3,127		
November	1,646	410	48	2,104	640	206	R 35	26	(s)	23	R 290	(s)	R 3,034		
December	1,793	425	45	2,263	735	217	36	28	(s)	23	303	7	3,308		
Total	20,517	6,421	646	27,584	8,208	2,858	423	312	5	258	3,857	60	39,710		

^a See Table 10.2c.

^b Natural gas, plus a small amount of supplemental gaseous fuels that cannot be identified separately.

^c Conventional hydroelectric power.

^d Wood and waste.

^e Geothermal electricity net generation.

^f Solar thermal and photovoltaic electricity net generation.

^g Wind electricity net generation.

^h Through 1988, data are for consumption at electric utilities only. Beginning in 1989, data also include consumption at independent power producers.

R=Revised. NA=Not available. (s)=Less than 0.5 trillion Btu.

Notes: • Data are for fuels consumed to produce electricity and useful thermal output. • The electric power sector comprises electricity-only and combined-heat-and-power (CHP) plants within the NAICS 22 category whose primary business is to sell electricity, or electricity and heat, to the public. • Totals may not equal sum of components due to independent rounding. • Geographic coverage is the 50 States and the District of Columbia.

Web Page: For annual data not displayed between 1973 and 1995, see <http://www.eia.doe.gov/emeu/mer/consump.html>.

Additional Notes and Sources: See end of section.

Beginning with 2001 data, non-renewable waste (municipal solid waste from non-biogenic sources, and tire-derived fuels) is removed from "Biomass." Because this portion is mostly derived from fossil fuels, it is not primary energy, and, hence, not included in this table.

Energy Consumption by Sector

Most of the data in this section of the *Monthly Energy Review (MER)* are developed from a group of energy-related surveys, typically called "supply surveys," conducted by the Energy Information Administration (EIA). Supply surveys are directed to suppliers and marketers of specific energy sources. They measure the quantities of specific energy sources produced, or the quantities supplied to the market, or both. The data obtained from EIA's supply surveys are integrated to yield the summary consumption statistics published in this section (and in Section 1) of the *MER*.

Users of EIA's energy consumption statistics should be aware of a second group of energy-related surveys, typically called "consumption surveys." Consumption surveys gather information on the types of energy consumed by end users of energy, along with the characteristics of those end users that can be associated with energy use. For example, the Manufacturing Energy Consumption Survey belongs to the consumption survey group because it collects information directly from end users (the manufacturing establishments). There are important differences between the supply and consumption surveys that need to be taken into account in any analysis that uses both data sources. For information on those differences, see *Energy Consumption by End-Use Sector, A Comparison of Measures by Consumption and Supply Surveys*, DOE/EIA-0533, Energy Information Administration, Washington, DC, April 6, 1990.

Note 1. Energy Consumption:

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

Total Consumption: In addition to primary consumption in the four end-use sectors (residential, commercial, industrial, and transportation), total consumption also includes retail sales of electricity and electrical system energy losses (see Note 11).

Note 2. Energy-Use Sectors: The five major economic sectors—residential, commercial, industrial, transportation, and electric power—are called energy-use sectors in this report. The first four sectors comprise the end-use sectors, that is, the point of final consumption of the energy. Energy

consumption is assigned to the five energy-use sectors, as closely as possible, by the following definitions:

Residential Sector—An energy-consuming sector that consists of living quarters for private households. Common uses of energy associated with this sector include space heating, water heating, air conditioning, lighting, refrigeration, cooking, and running a variety of other appliances. The residential sector excludes institutional living quarters. For further explanation see:
<http://www.eia.doe.gov/neic/datadefinitions/Guideforwebres.htm>.

Commercial Sector—An energy-consuming sector that consists of service-providing facilities and equipment of: businesses; Federal, State, and local governments; and other private and public organizations, such as religious, social, or fraternal groups. The commercial sector includes institutional living quarters. Common uses of energy associated with this sector include space heating, water heating, air conditioning, lighting, refrigeration, cooking, and running a wide variety of other equipment. *Note:* This sector includes generators that produce electricity and/or useful thermal output primarily to support the activities of the above-mentioned commercial establishments. For further information, see:
<http://www.eia.doe.gov/neic/datadefinitions/Guideforwebcom.htm>.

Industrial Sector—An energy-consuming sector that consists of all facilities and equipment used for producing, processing, or assembling goods. The industrial sector encompasses the following types of activity: manufacturing (NAICS (North American Industry Classification System) codes 31-33); agriculture, forestry, fishing and hunting (NAICS code 11); mining, including oil and gas extraction (NAICS code 21); and construction (NAICS code 23). Overall energy use in this sector is largely for process heat and cooling and powering machinery, with lesser amounts used for facility heating, air conditioning, and lighting. Fossil fuels are also used as raw material inputs to manufactured products. *Note:* This sector includes generators that produce electricity and/or useful thermal output primarily to support the above-mentioned industrial activities. For further information, see:
<http://www.eia.doe.gov/neic/datadefinitions/Guideforwebind.htm>.

Transportation Sector—An energy-consuming sector that consists of all vehicles whose primary purpose is transporting people and/or goods from one physical location to another. Included are automobiles; trucks; buses; motorcycles; trains, subways, and other rail vehicles; aircraft; and ships, barges, and other waterborne vehicles. Vehicles whose primary purpose is not transportation (e.g., construction cranes and bulldozers, farming vehicles, and warehouse tractors and forklifts) are classified in the sector of their primary use. *Note:* Various EIA programs differ in sectoral coverage. For further information see:
<http://www.eia.doe.gov/neic/datadefinitions/Guideforwebtrans.htm>.

Electric Power Sector—An energy-consuming sector that consists of electricity-only and combined-heat-and-power

(CHP) plants whose primary business is to sell electricity, or electricity and heat, to the public—i.e., North American Industry Classification System 22 plants.

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

Note 3. Conversion Factors: See Appendix A.

Note 4. Coal: See Tables 6.2 and A5.

Note 5. Coal Coke Net Imports: Net imports means imports minus exports, and a minus sign indicates that exports are greater than imports. Coal coke net imports are included in the industrial sector.

Sources:

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

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

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

1982 forward: EIA, *Quarterly Coal Report*.

Note 6. Natural Gas: See Tables 4.4 and A4. For Section 2 calculations, lease and plant fuel consumption are included in the industrial sector, and pipeline fuel use of natural gas is included in the transportation sector. For 1973-1979, annual values for residential and commercial natural gas consumption are allocated to the months in proportion to the monthly sales data from the American Gas Association, "Monthly Gas Utility Statistical Report."

Note 7. Petroleum: Petroleum consumption in this section of the *Monthly Energy Review (MER)* is the series called "petroleum products supplied" from Section 3.

The sources for petroleum products supplied by product are:

1973-1975: DOI, BOM, *Mineral Industry Surveys*, "Petroleum Statement, Annual."

1976-1980: EIA, *Energy Data Reports*, "Petroleum Statement, Annual."

1981-2005: EIA, *Petroleum Supply Annual*.

2006 forward: EIA, *Petroleum Supply Monthly*.

Energy-use allocation procedures by individual product are as follows:

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

Asphalt—All consumption of asphalt is assigned to the industrial sector.

Distillate Fuel Oil—Distillate fuel oil consumption is assigned to the sectors as follows:

Distillate Fuel Oil Consumed by the Electric Power Sector—See Tables 7.3b and 7.4b. For 1973-1979, electric utility consumption of distillate fuel is assumed to be the amount of petroleum (minus small amounts of kerosene and kerosene-type jet fuel deliveries) consumed in gas turbine and internal combustion plants. For 1980-2000, electric utility consumption of distillate fuel is assumed to be the amount of light oil (fuel oil nos. 1 and 2, plus small amounts of kerosene and jet fuel) consumed.

Distillate Fuel Oil Consumed by the End-Use Sectors, Annually—The aggregate end-use amount is total distillate fuel oil supplied minus the amount consumed by the electric power sector. The end-use total consumed annually is allocated into the individual end-use sectors (residential, commercial, industrial, and transportation) in proportion to each sector's share of sales (unadjusted) as reported in EIA's *Fuel Oil and Kerosene Sales (Sales)* report series (DOE/EIA-0535), which is based primarily on data collected by Form EIA-821, previously Form EIA-172. (Shares for the current year are based on the most recent *Sales* report.)

Following are notes on the individual sector groupings:

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

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

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

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

Distillate Fuel Oil Consumed by the End-Use Sectors, Monthly—Residential sector and commercial sector monthly consumption is estimated by allocating the annual estimates, which are described above, into the months in proportion to each month's share of the year's sales of No. 2 heating oil. (For each month of the current year, the residential and commercial consumption increase from the same month in the previous year is based on the percent increase in that month's No. 2 heating oil sales from the same month in the previous year.) The years' No. 2 heating oil sales totals are from the following sources: for 1973-1980, the Ethyl Corporation, *Monthly Report of Heating Oil Sales*; for 1981 and 1982, the American Petroleum Institute, *Monthly Report of Heating Oil Sales*; and for 1983 forward, EIA, Form EIA-782A, "Refiners'/Gas Plant Operators' Monthly Petroleum Product Sales Report," No. 2 Fuel Oil Sales to End Users and for Resale.

The transportation highway use portion is allocated into the months in proportion to each month's share of the year's total sales for highway use as reported by the Federal Highway Administration's Table MF-25, "Private and Commercial Highway Use of Special Fuels by Months." After 1993, the sales-for-highway-use data are no longer available as a monthly series; the 1993 data are used for allocating succeeding year's totals into months.

A distillate fuel oil "balance" is calculated as total distillate fuel oil supplied minus the amount consumed by the electric power sector, residential sector, commercial sector, and for highway use.

Industrial sector monthly consumption is estimated by multiplying each month's distillate fuel oil "balance" by the annual industrial consumption share of the annual distillate fuel oil "balance."

Total transportation sector monthly consumption is estimated as total distillate fuel oil supplied minus the amount consumed by the residential, commercial, industrial, and electric power sectors.

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

Kerosene—Kerosene product supplied is allocated into the individual end-use sectors (residential, commercial, and industrial) in proportion to each sector's share of "sales" as reported in EIA's *Fuel Oil and Kerosene Sales (Sales)* report series (DOE/EIA-0535), which is based primarily on data collected by Form EIA-821, previously Form EIA-172.

Since 1979, the residential sector sales total is directly from the *Sales* reports. Prior to 1979, each year's sales category called "heating" is split into residential, commercial, and industrial in proportion to the 1979 shares

Since 1979, the commercial sector sales total is directly from the *Sales* reports. Prior to 1979, each year's sales category called "heating" is split into residential, commercial, and industrial in proportion to the 1979 shares.

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

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

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

The quantity of LPG sold each year for consumption in internal combustion engines is allocated between the transportation and industrial sectors on the basis of data for special fuels used on highways published by the U.S. Department of Transportation, Federal Highway Administration, in *Highway Statistics*. The allocations of LPG sold for internal combustion engine use to the transportation

sector range from a low of 20 percent (in 2001) to a high of 73 percent (in 1994).

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

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

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

1983: End-use consumption estimates for 1983 are based on 1982 end-use consumption because the collection of data under Form EIA-174 was discontinued after data year 1982. 1984-forward: 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. EIA adjusts the data to remove quantities of pentanes plus and to estimate withheld values.

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

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

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

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

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

Petroleum Coke—Portions of petroleum coke are consumed by the electric power sector (see Tables 7.3b and 7.4b) and the commercial sector (see sources for Table 7.4c). The remaining petroleum coke is assigned to the industrial sector.

Residual Fuel Oil—Residual fuel oil consumption is assigned to the sectors as follows:

Residual Fuel Oil Consumed by the Electric Power Sector—See Tables 7.3b and 7.4b. For 1973-1979, electric utility consumption of residual fuel oil is assumed to be the amount of petroleum consumed in steam-electric power plants. For 1980-2000, electric utility consumption of residual fuel oil is assumed to be the amount of heavy oil (fuel oil nos. 4, 5, and 6) consumed.

Residual Fuel Oil Consumed by the End-Use Sectors, Annually—The aggregate end-use amount is total residual fuel oil supplied minus the amount consumed by the electric power sector. The end-use total consumed annually is allocated into the individual end-use sectors (commercial, industrial, and transportation) in proportion to each sector's share of sales (unadjusted) as reported in EIA's *Fuel Oil and Kerosene Sales (Sales)* report series (DOE/EIA-535), which is based primarily on data collected by Form EIA-821, previously Form EIA-172. (Shares for the current year are based on the most recent *Sales* report.)

Following are notes on the individual sector groupings:

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

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

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

Residual Fuel Oil Consumed by the End-Use Sectors, Monthly—Commercial sector monthly consumption is estimated by allocating the annual estimates, which are described above, into the months in proportion to each month's share of the year's sales of No. 2 heating oil. (For each month of the current year, the consumption increase from the same month in the previous year is based on the percent increase in that month's No. 2 heating oil sales from the same month in the previous year.) The years' No. 2 heating oil sales totals are from the following sources: for 1973-1980, the Ethyl Corporation, *Monthly Report of Heating Oil Sales*; for 1981 and 1982, the

American Petroleum Institute, *Monthly Report of Heating Oil Sales*; and for 1983-1996, EIA, Form EIA-782A, "Refiners'/Gas Plant Operators' Monthly Petroleum Product Sales Report," No. 2 Fuel Oil Sales to End Users and for Resale.

A residual fuel oil "balance" is calculated as total residual fuel oil supplied minus the amount consumed by the electric power sector, commercial sector, and by industrial combined-heat-and-power plants (see sources for Table 7.4c).

Transportation sector monthly consumption is estimated by multiplying each month's residual fuel oil "balance" by the annual transportation consumption share of the annual residual fuel oil "balance."

Total industrial sector monthly consumption is estimated as total residual fuel oil supplied minus the amount consumed by the commercial, transportation, and electric power sectors.

Road Oil—All consumption of road oil is assigned to the industrial sector.

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

Note 8. Nuclear Electric Power: See Tables 8.1 and A6. Nuclear electric power is included in the electric power sector.

Note 9. Renewable Energy: See Tables 10.2a-10.2c. End-use consumption of wood, waste, alcohol fuels, geothermal heat pump and direct use energy, and solar thermal direct use and photovoltaic energy is included in the end-use sectors. Included in the electric power sector are: net electricity generation from conventional hydroelectric power, wood, waste, geothermal, solar, and wind.

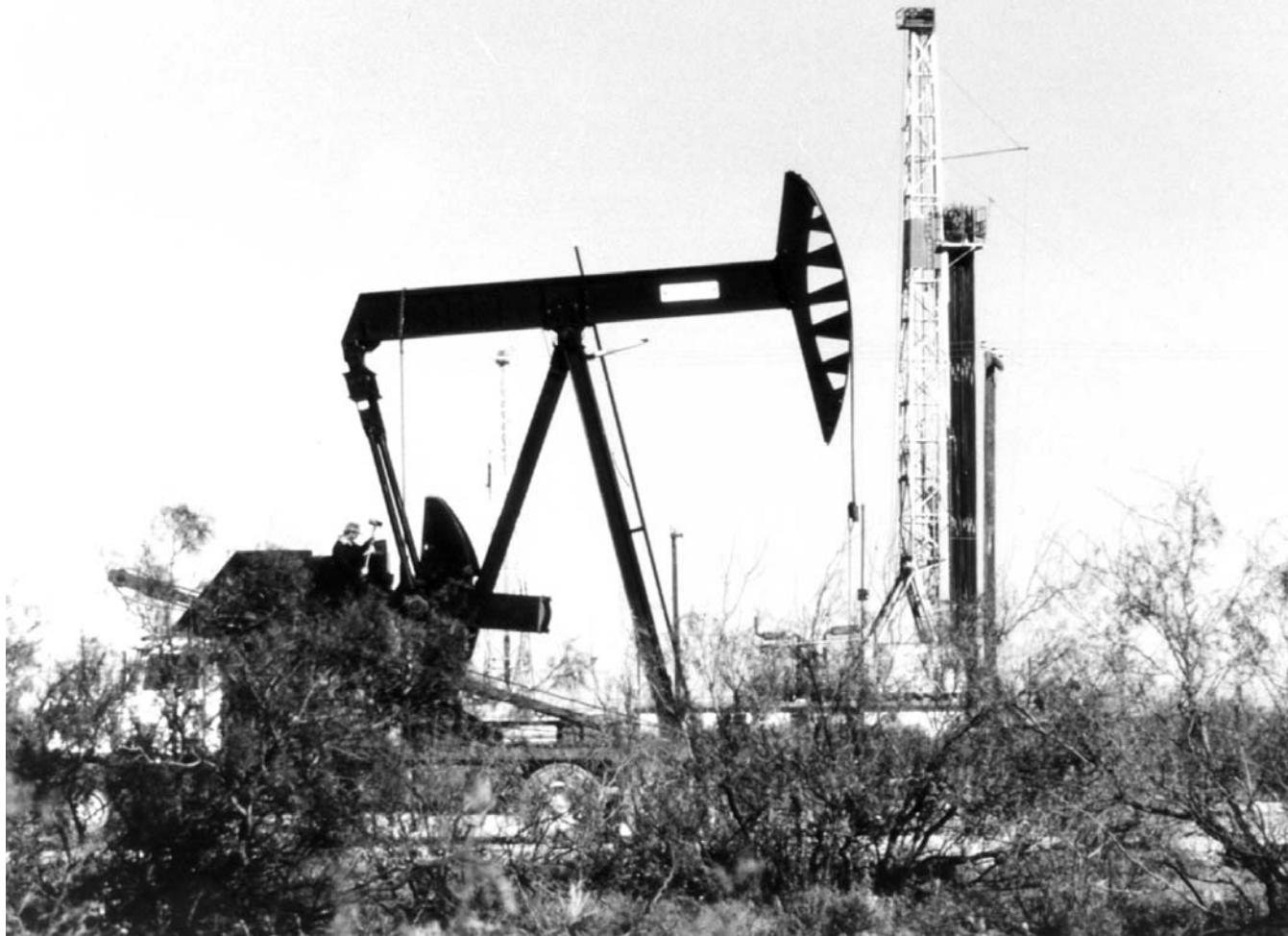
Note 10. Electricity Retail Sales: See Table 7.6. Kilowatthours are converted to Btu at the rate of 3,412 Btu per kilowatthour.

Note 11. Electrical System Energy Losses: Electrical system energy losses are calculated as the difference between total primary consumption by the electric power sector (see Table 2.6) and the total energy content of electricity retail sales (see Tables 7.6 and A6). Most of these losses occur at steam-electric power plants (conventional and nuclear) in the conversion of heat energy into mechanical energy to turn electric generators. The loss is a thermodynamically necessary feature of the steam-electric cycle. Part of the energy input-to-output losses is a result of imputing fossil energy equivalent inputs for hydroelectric and other energy sources, since there is no generally accepted practice for measuring those thermal conversion rates. In addition to conversion losses, other losses include power plant use of electricity, transmission and distribution of electricity from power plants to end-use consumers (also called "line losses"), and unaccounted for electricity. Total losses are allocated to the end-use sectors in proportion to each sector's share of total electricity sales. Overall, approximately 67 percent of total energy input is lost in conversion; of electricity generated, approximately 5 percent is lost in plant use and 9 percent is lost in transmission and distribution.

Note 12. Electricity Net Imports: See Table 7.1. Kilowatthours are converted to Btu at a rate of 3,412 Btu per kilowatthour.

3

Petroleum



Oil pumping unit and drilling rig, Texas. Source: U.S. Department of Energy.

Table 3.1a Petroleum Overview: Supply

	Supply							
	Field Production ^a			Refinery and Blender Net Production	Imports			Adjust- ments ^d
	Crude Oil	Natural Gas Plant Liquids ^b	Total		Crude Oil ^c	Petroleum Products	Total	
	Thousand Barrels per Day							
1973 Average	9,208	1,738	10,946	13,854	3,244	3,012	6,256	18
1975 Average	8,375	1,633	10,007	13,685	4,105	1,951	6,056	41
1980 Average	8,597	1,573	10,170	14,622	5,263	1,646	6,909	64
1985 Average	8,971	1,609	10,581	13,750	3,201	1,866	5,067	200
1990 Average	7,355	1,559	8,914	15,272	5,894	2,123	8,018	338
1995 Average	6,560	1,762	8,322	15,994	7,230	1,605	8,835	496
1996 Average	6,465	1,830	8,295	16,324	7,508	1,971	9,478	528
1997 Average	6,452	1,817	8,269	16,759	8,225	1,936	10,162	487
1998 Average	6,252	1,759	8,011	17,030	8,706	2,002	10,708	495
1999 Average	5,881	1,850	7,731	16,989	8,731	2,122	10,852	567
2000 Average	5,822	1,911	7,733	17,243	9,071	2,389	11,459	532
2001 Average	5,801	1,868	7,670	17,285	9,328	2,543	11,871	501
2002 Average	5,746	1,880	7,626	17,273	9,140	2,390	11,530	527
2003 Average	5,681	1,719	7,400	17,487	9,665	2,599	12,264	478
2004 Average	5,419	1,809	7,228	17,814	10,088	3,057	13,145	564
2005 January	5,441	1,812	7,253	17,379	9,997	2,994	12,991	430
February	5,494	1,868	7,362	17,557	10,219	3,530	13,749	517
March	5,601	1,872	7,473	17,585	10,242	2,988	13,230	616
April	5,556	1,840	7,396	18,527	10,224	3,252	13,476	906
May	5,581	1,849	7,429	18,615	10,432	3,573	14,006	414
June	5,460	1,785	7,245	19,063	10,765	3,505	14,270	468
July	5,240	1,748	6,988	18,544	10,377	3,548	13,925	476
August	5,218	1,724	6,942	18,327	10,404	3,444	13,848	308
September	4,204	1,491	5,695	16,608	9,155	4,074	13,229	714
October	4,534	1,544	6,078	16,073	9,444	4,765	14,208	352
November	4,837	1,621	6,458	17,545	10,262	3,834	14,096	435
December	4,984	1,459	6,443	17,771	9,996	3,552	13,548	536
Average	5,178	1,717	6,895	17,800	10,126	3,588	13,714	513
2006 January	E 5,047	1,684	E 6,731	17,279	9,713	3,863	13,576	544
February	E 5,048	1,677	E 6,725	17,152	9,897	3,424	13,320	807
March	E 5,016	1,688	E 6,703	16,915	9,828	3,059	12,887	293
April	E 5,067	1,729	E 6,796	17,372	9,832	3,528	13,360	788
May	E 5,100	1,753	E 6,854	18,277	10,247	3,975	14,223	469
June	E 5,219	1,753	E 6,972	18,828	10,681	3,462	14,143	309
July	E 5,171	1,755	E 6,926	18,493	10,153	3,684	13,837	722
August	E 5,155	1,726	E 6,881	18,777	10,537	4,075	14,612	670
September	E 5,188	1,781	E 6,969	18,481	10,703	3,672	14,375	428
October	E 5,195	1,773	E 6,967	17,706	10,132	3,193	13,324	354
November	E 5,149	1,769	E 6,918	17,623	9,837	3,119	12,955	406
December	RE 5,275	R 1,734	RE 7,009	R 17,961	R 9,584	R 3,127	R 12,711	R 333
Average	RE 5,136	R 1,735	RE 6,872	R 17,909	R 10,095	R 3,517	R 13,612	R 508
2007 January	E 5,279	E 1,771	E 7,050	E 17,713	E 10,036	E 3,407	E 13,443	E 542
February	E 5,298	E 1,763	E 7,061	E 17,094	E 9,454	E 3,208	E 12,662	E 618
2-Month Average	E 5,288	E 1,767	E 7,055	E 17,419	E 9,760	E 3,313	E 13,072	E 578
2006 2-Month Average	E 5,048	1,681	E 6,728	17,219	9,800	3,654	13,455	668
2005 2-Month Average	5,466	1,839	7,305	17,463	10,102	3,249	13,351	471

^a Crude oil production on leases, and natural gas liquids (liquefied petroleum gases, pentanes plus, and a small amount of finished petroleum products) production at natural gas processing plants. Excludes what was previously classified as "Field Production" of finished motor gasoline, motor gasoline blending components, and other hydrocarbons and oxygenates; these are now included in "Adjustments."

^b See Note 6, "Data Discrepancies," at end of section.

^c Includes Strategic Petroleum Reserve imports. See Table 3.2a.

^d An adjustment for crude oil (see Tables 3.2a, 3.5, and 3.6), and for motor gasoline blending components and fuel ethanol (see Tables 3.4 and 3.10). Through 1988, also includes a small amount of distillate fuel oil production at natural gas processing plants (see Table 3.5).

R=Revised. E=Estimate.

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

Web Page: For annual data not displayed between 1973 and 1995, see <http://www.eia.doe.gov/emeu/mer/petro.html>.

Sources: • **1973-1975:** Bureau of Mines, Mineral Industry Surveys, *Petroleum Statement, Annual*, annual reports. • **1976-1980:** Energy Information Administration (EIA), Energy Data Reports, *Petroleum Statement, Annual*, annual reports. • **1981-2005:** *Petroleum Supply Annual*, annual reports. • **2006 and 2007:** EIA, *Petroleum Supply Monthly*, monthly reports; and, for the current two months, *Weekly Petroleum Status Report* data system and *Monthly Energy Review* data system calculations.

Table 3.1b Petroleum Overview: Disposition and Stocks

	Disposition										Stocks ^a		
	Stock Change ^b			Refinery and Blender Net Inputs	Exports			Petroleum Products Supplied	Crude Oil ^{c,d}	Petroleum Products ^{d,e}	Total ^d		
	Crude Oil ^{c,d}	Petroleum Products ^{d,e}	Total ^d		Crude Oil	Petroleum Products ^f	Total ^f						
	Thousand Barrels per Day										Million Barrels		
1973 Average	-11	146	135	13,401	2	229	231	17,308	242	766	1,008		
1975 Average	17	d15	d32	13,225	6	204	209	16,322	271	862	1,133		
1980 Average	98	42	140	14,025	287	258	544	17,056	466	d926	d1,392		
1985 Average	50	-153	-103	13,192	204	577	781	15,726	814	705	1,519		
1990 Average	-35	142	107	14,589	109	748	857	16,988	908	712	1,621		
1995 Average	-93	-153	-246	15,220	95	855	949	17,725	895	668	1,563		
1996 Average	-124	-28	-151	15,487	110	871	981	18,309	850	658	1,507		
1997 Average	51	93	143	15,909	108	896	1,003	18,620	868	692	1,560		
1998 Average	74	165	239	16,144	110	835	945	18,917	895	752	1,647		
1999 Average	-118	-304	-422	16,103	118	822	940	19,519	852	641	1,493		
2000 Average	-70	(s)	-69	16,295	50	990	1,040	19,701	826	641	1,468		
2001 Average	99	227	325	16,382	20	951	971	19,649	862	724	1,586		
2002 Average	40	-145	-105	16,316	9	975	984	19,761	877	671	1,548		
2003 Average	84	-28	56	16,513	12	1,014	1,027	20,034	907	661	1,568		
2004 Average	148	61	209	16,762	27	1,021	1,048	20,731	961	683	1,645		
2005													
January	142	-77	65	16,377	40	877	917	20,694	966	681	1,647		
February	658	-97	561	16,538	19	1,237	1,256	20,830	984	678	1,663		
March	770	-826	-57	16,643	36	1,272	1,308	21,009	1,008	653	1,661		
April	717	648	1,365	17,475	45	1,285	1,330	20,137	1,030	672	1,702		
May	19	884	904	17,574	55	1,325	1,380	20,606	1,030	700	1,730		
June	-193	519	327	18,045	21	1,456	1,477	21,198	1,024	715	1,740		
July	-229	347	118	17,618	34	1,225	1,259	20,939	1,017	726	1,743		
August	-222	-656	-877	17,340	17	1,278	1,295	21,666	1,010	706	1,716		
September	-345	-45	-390	15,651	24	819	844	20,142	1,000	704	1,704		
October	238	152	390	15,215	17	837	854	20,253	1,007	709	1,716		
November	23	412	436	16,515	48	912	961	20,623	1,008	721	1,729		
December	6	-1,033	-1,028	16,725	24	1,081	1,106	21,495	1,008	689	1,698		
Average	129	16	145	16,811	32	1,133	1,165	20,802	1,008	689	1,698		
2006													
January	-15	696	681	16,271	27	1,040	1,068	20,110	1,007	710	1,717		
February	681	-415	266	16,121	15	1,285	1,300	20,316	1,026	698	1,724		
March	66	-1,123	-1,057	15,984	29	1,146	1,176	20,695	1,028	663	1,692		
April	237	72	309	16,416	26	1,382	1,409	20,182	1,036	665	1,701		
May	-203	946	744	17,256	27	1,334	1,361	20,463	1,029	695	1,724		
June	-172	360	188	17,847	33	1,310	1,342	20,875	1,024	706	1,730		
July	-168	671	503	17,497	13	1,383	1,397	20,582	1,019	726	1,745		
August	5	614	619	17,720	15	1,263	1,278	21,322	1,019	745	1,764		
September	46	684	730	17,466	21	1,564	1,585	20,472	1,020	766	1,786		
October	150	-788	-638	16,712	37	1,484	1,521	20,757	1,025	741	1,767		
November	-142	-550	-692	16,663	24	1,364	1,387	20,544	1,021	725	1,746		
December	R -723	R -80	R -803	R 16,933	R 27	R 1,159	R 1,186	R 20,697	R 998	R 722	R 1,721		
Average	R -26	R 94	R 69	R 16,912	R 25	R 1,309	R 1,333	R 20,588	R 998	R 722	R 1,721		
2007													
January	E 226	E -29	E 197	F 16,722	E 22	E 1,222	E 1,244	E 20,585	E 1,013	E 709	E 1,722		
February	E 11	E -1,664	E -1,654	F 16,130	E 22	E 1,218	E 1,240	E 21,719	E 1,013	E 662	E 1,675		
2-Month Average	E 124	E -805	E -681	F 16,441	E 22	E 1,220	E 1,242	E 21,123	E 1,013	E 662	E 1,675		
2006 2-Month Average	315	169	484	16,200	21	1,157	1,178	20,208	1,026	698	1,724		
2005 2-Month Average	387	-86	300	16,453	30	1,048	1,078	20,759	984	678	1,663		

^a Stocks are at end of period.

^b A negative value indicates a decrease in stocks and a positive value indicates an increase. Current month stock change estimates are based on the change from the previous month's stocks estimates, rather than the actual stocks values shown in this table.

^c Includes Strategic Petroleum Reserve stocks. See Table 3.2b.

^d See Note 4, "New Stock Basis," at end of section.

^e Does not include distillate stocks in the Northeast Heating Oil Reserve.

^f See Note 6, "Data Discrepancies," at end of section.

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

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

components due to independent rounding.

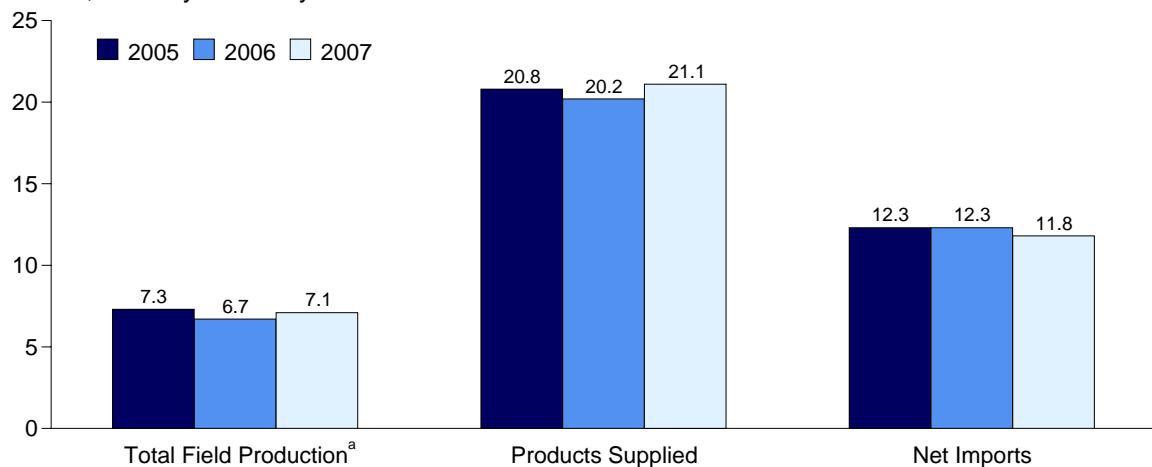
• Geographic coverage is the 50 States and the District of Columbia.

Web Page: For annual data not displayed between 1973 and 1995, see <http://www.eia.doe.gov/emeu/mer/petro.html>.

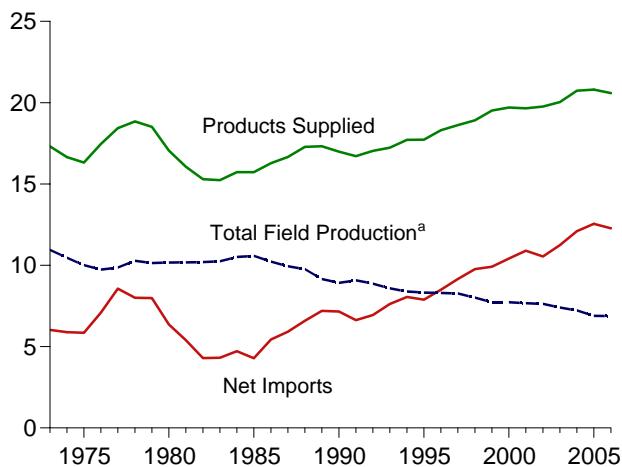
Sources: • **1973-1975:** Bureau of Mines, Mineral Industry Surveys, *Petroleum Statement, Annual*, annual reports. • **1976-1980:** Energy Information Administration (EIA), Energy Data Reports, *Petroleum Statement, Annual*, annual reports. • **1981-2005:** *Petroleum Supply Annual*, annual reports. • **2006 and 2007:** EIA, *Petroleum Supply Monthly*, monthly reports; and, for the current two months, *Weekly Petroleum Status Report* data system, Short-Term Integrated Forecasting System, and *Monthly Energy Review* data system calculations.

Figure 3.1a Petroleum Overview and Production
(Million Barrels per Day)

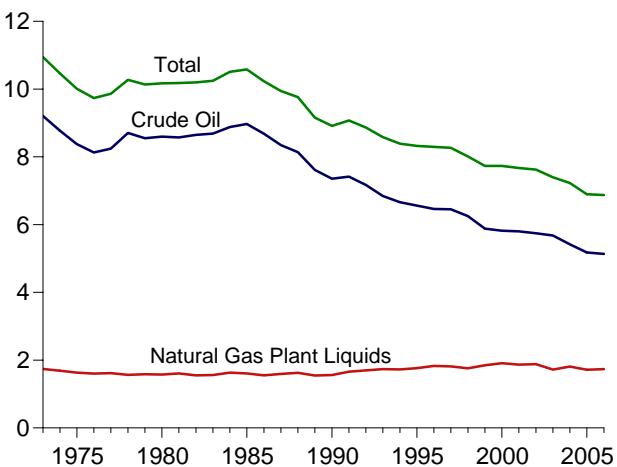
Overview, January-February



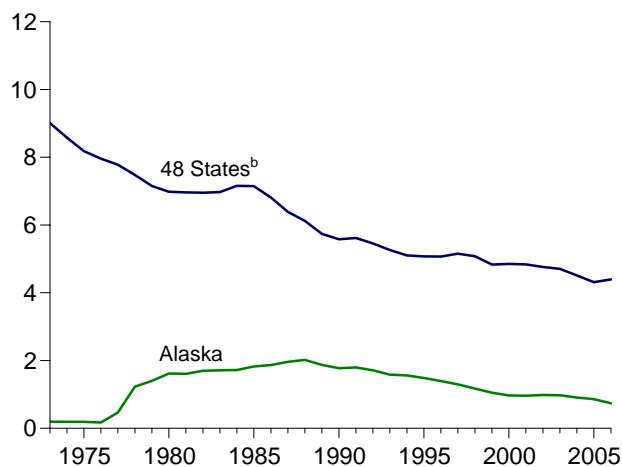
Overview, 1973-2006



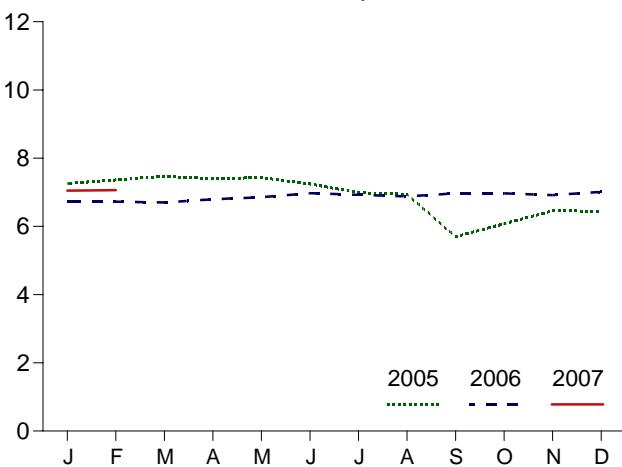
Total Field Production, 1973-2006



Crude Oil Field Production, 1973-2006



Total Field Production^a, Monthly



^aCrude oil and natural gas plant liquids field production.

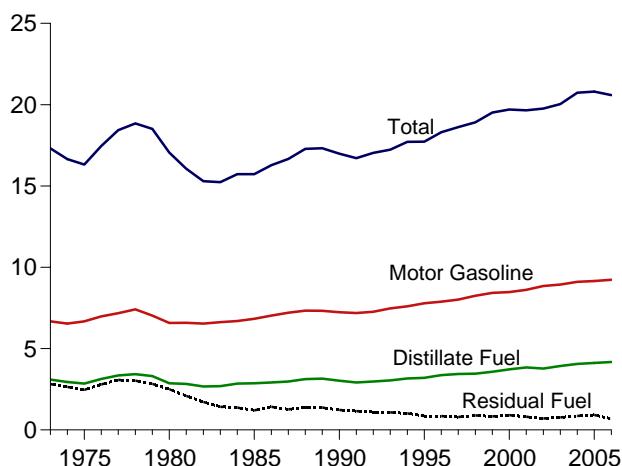
^bUnited States excluding Alaska and Hawaii.

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

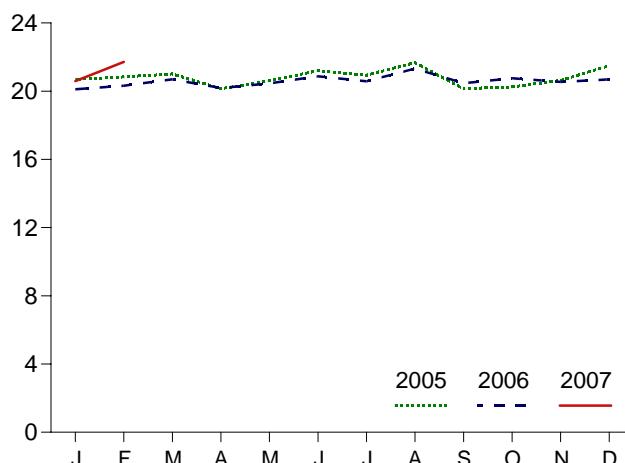
Web Page: <http://www.eia.doe.gov/emeu/mer/petro.html>.
Sources: Tables 3.1a, 3.1b, and 3.2a.

Figure 3.1b Petroleum Products Supplied, Imports, and Stocks
 (Million Barrels per Day, Except as Noted)

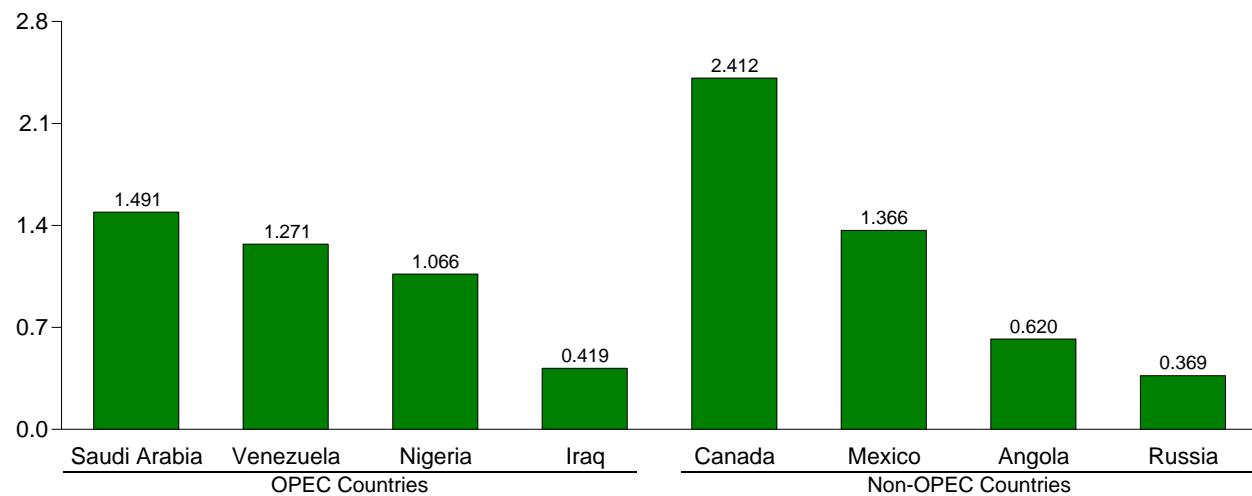
Products Supplied, 1973-2006



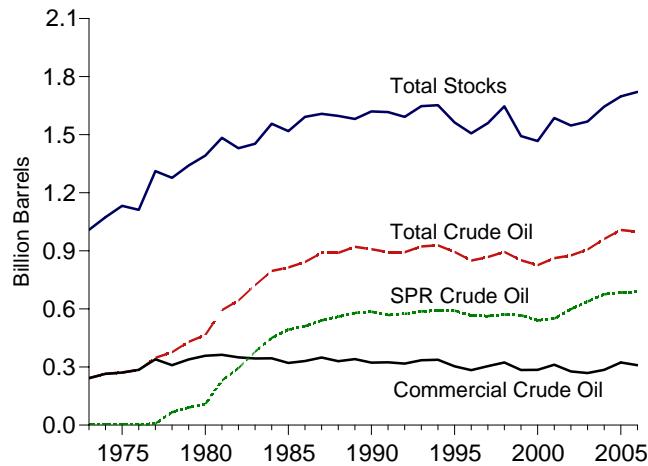
Products Supplied, Monthly



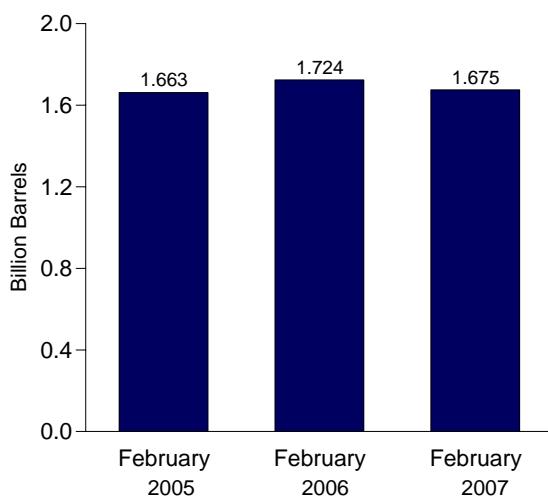
Imports from Selected Countries, December 2006



Stocks, End of Year, 1973-2006



Total Stocks, End of Month



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

Web Page: <http://www.eia.doe.gov/emeu/mer/petro.html>.
 Sources: Tables 3.1b, 3.2b, 3.3a, 3.3b, 3.3d, 3.3e, 3.3f, 3.3g, 3.4, 3.5, and 3.6.

Table 3.2a Crude Oil Overview: Supply

	Supply						
	Field Production			Imports			Adjustments ^e
	48 States ^a	Alaska	Total	SPR ^{b,c}	Non-SPR ^d	Total	
Thousand Barrels per Day							
1973 Average	9,010	198	9,208	—	3,244	3,244	-30
1975 Average	8,183	191	8,375	—	4,105	4,105	-14
1980 Average	6,980	1,617	8,597	44	5,219	5,263	6
1985 Average	7,146	1,825	8,971	118	3,083	3,201	145
1990 Average	5,582	1,773	7,355	27	5,867	5,894	257
1995 Average	5,076	1,484	6,560	0	7,230	7,230	193
1996 Average	5,071	1,393	6,465	0	7,508	7,508	215
1997 Average	5,156	1,296	6,452	0	8,225	8,225	145
1998 Average	5,077	1,175	6,252	0	8,706	8,706	115
1999 Average	4,832	1,050	5,881	8	8,722	8,731	191
2000 Average	4,851	970	5,822	8	9,062	9,071	155
2001 Average	4,839	963	5,801	11	9,318	9,328	117
2002 Average	4,761	984	5,746	16	9,124	9,140	110
2003 Average	4,706	974	5,681	0	9,665	9,665	54
2004 Average	4,510	908	5,419	77	10,010	10,088	143
2005 January	4,523	918	5,441	134	9,863	9,997	-2
February	4,577	917	5,494	46	10,173	10,219	107
March	4,681	921	5,601	140	10,102	10,242	177
April	4,662	893	5,556	97	10,128	10,224	475
May	4,688	893	5,581	0	10,432	10,432	-34
June	4,629	831	5,460	64	10,702	10,765	5
July	4,462	779	5,240	52	10,326	10,377	37
August	4,382	836	5,218	34	10,370	10,404	-162
September	3,389	815	4,204	14	9,141	9,155	306
October	3,672	862	4,534	0	9,444	9,444	-76
November	3,964	873	4,837	34	10,228	10,262	5
December	4,148	836	4,984	8	9,989	9,996	95
Average	4,314	864	5,178	52	10,074	10,126	76
2006 January	E 4,215	E 832	E 5,047	0	9,713	9,713	57
February	E 4,228	E 821	E 5,048	14	9,883	9,897	330
March	E 4,263	E 752	E 5,016	0	9,828	9,828	-168
April	E 4,267	E 800	E 5,067	33	9,799	9,832	301
May	E 4,299	E 801	E 5,100	23	10,224	10,247	-4
June	E 4,438	E 781	E 5,219	0	10,681	10,681	-201
July	E 4,490	E 681	E 5,171	0	10,153	10,153	188
August	E 4,534	E 621	E 5,155	0	10,537	10,537	122
September	E 4,532	E 655	E 5,188	0	10,703	10,703	-87
October	E 4,481	E 714	E 5,195	0	10,132	10,132	-139
November	E 4,494	E 655	E 5,149	0	9,837	9,837	-93
December	RE 4,490	RE 785	RE 5,275	R 0	R 9,584	R 9,584	R -187
Average	RE 4,395	E 741	RE 5,136	R 6	R 10,089	R 10,095	R 8
2007 January	E 4,506	E 773	E 5,279	NA	NA	E 10,036	E -70
February	E 4,544	E 754	E 5,298	NA	NA	E 9,454	E -59
2-Month Average	E 4,524	E 764	E 5,288	NA	NA	E 9,760	E -65
2006 2-Month Average	E 4,221	E 826	E 5,048	6	9,794	9,800	187
2005 2-Month Average	4,549	918	5,466	92	10,010	10,102	49

^a United States excluding Alaska and Hawaii.

^b "SPR" is the Strategic Petroleum Reserve. Through 2003, includes crude oil imports by SPR only; beginning in 2004, includes crude oil imports by SPR, and crude oil imports into SPR by others.

^c See Note 6, "Data Discrepancies," at end of section.

^d All crude oil imports other than those in "SPR."

^e An adjustment for crude oil. Through 1982, includes what was previously classified as "Crude Oil Used Directly" (as distillate and residual fuel oil). Through 2004, also includes what were previously classified as "Unaccounted-for Crude Oil" and "Crude Losses."

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

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

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

Web Page: For annual data not displayed between 1973 and 1995, see <http://www.eia.doe.gov/emeu/mer/petro.html>.

Sources: • **1973-1975:** Bureau of Mines, Mineral Industry Surveys, *Petroleum Statement, Annual*, annual reports. • **1976-1980:** Energy Information Administration (EIA), Energy Data Reports, *Petroleum Statement, Annual*, annual reports. • **1981-2005:** EIA, *Petroleum Supply Annual*, annual reports. • **2006 and 2007:** EIA, *Petroleum Supply Monthly*, monthly reports; and, for the current two months, *Weekly Petroleum Status Report* data system, and *Monthly Energy Review* data system calculations.

Table 3.2b Crude Oil Overview: Disposition and Stocks

	Disposition						Stocks ^a		
	Stock Change ^b			Refinery Inputs	Exports	Product Supplied	SPRC	Non-SPR ^{d,e,f}	Total ^{e,f}
	SPRC	Non-SPR ^{d,e,f}	Total ^{e,f}						
	Thousand Barrels per Day						Million Barrels		
1973 Average	-	-11	-11	12,431	2	0	-	242	242
1975 Average	-	17	17	12,442	6	0	-	271	271
1980 Average	45	52	98	13,481	287	0	108	^e 358	^e 466
1985 Average	117	-67	50	12,002	204	60	493	321	814
1990 Average	16	-51	-35	13,409	109	24	586	323	908
1995 Average	(s)	-93	-93	13,973	95	7	592	303	895
1996 Average	-71	-53	-124	14,195	110	6	566	284	850
1997 Average	-7	57	51	14,662	108	2	563	305	868
1998 Average	22	52	74	14,889	110	0	571	324	895
1999 Average	-11	-107	-118	14,804	118	0	567	284	852
2000 Average	-73	3	-70	15,067	50	0	541	286	826
2001 Average	26	73	99	15,128	20	0	550	312	862
2002 Average	134	-94	40	14,947	9	0	599	278	877
2003 Average	108	-24	84	15,304	12	0	638	269	907
2004 Average	102	46	148	15,475	27	0	676	286	961
2005 January	131	10	142	15,254	40	0	680	286	966
February	84	574	658	15,142	19	0	682	302	984
March	198	572	770	15,214	36	0	688	320	1,008
April	124	592	717	15,494	45	0	692	338	1,030
May	66	-47	19	15,905	55	0	694	336	1,030
June	82	-275	-193	16,401	21	0	696	328	1,024
July	78	-307	-229	15,850	34	0	699	318	1,017
August	62	-283	-222	15,664	17	0	701	310	1,010
September	-236	-109	-345	13,986	24	0	694	306	1,000
October	-272	510	238	13,646	17	0	685	322	1,007
November	13	10	23	15,032	48	0	686	322	1,008
December	-35	41	6	15,046	24	0	685	324	1,008
Average	25	104	129	15,220	32	0	685	324	1,008
2006 January	-35	20	-15	14,806	27	0	683	324	1,007
February	47	635	681	14,579	15	0	685	342	1,026
March	41	25	66	14,580	29	0	686	342	1,028
April	61	176	237	14,936	26	0	688	348	1,036
May	23	-226	-203	15,519	27	0	689	341	1,029
June	-25	-147	-172	15,838	33	0	688	336	1,024
July	(s)	-168	-168	15,667	13	0	688	331	1,019
August	(s)	5	5	15,794	15	0	688	331	1,019
September	(s)	46	46	15,737	21	0	688	333	1,020
October	25	126	150	15,000	37	0	689	336	1,025
November	0	-142	-142	15,010	24	0	689	332	1,021
December	0	R -723	R -723	R 15,368	R 27	0	689	R 310	R 998
Average	11	R -37	R -26	R 15,240	R 25	0	689	R 310	R 998
2007 January	E 0	E 226	E 226	E 14,997	E 22	0	E 689	E 325	E 1,013
February	E 0	E 11	E 11	E 14,660	E 22	0	E 689	E 325	E 1,013
2-Month Average	E 0	E 124	E 124	E 14,837	E 22	0	E 689	E 325	E 1,013
2006 2-Month Average	4	311	315	14,698	21	0	685	342	1,026
2005 2-Month Average	109	278	387	15,201	30	0	682	302	984

^a Stocks are at end of period.

^b A negative number indicates a decrease in stocks and a positive number indicates an increase. Current month stock change estimates are based on the change from the previous month's stocks estimates, rather than the actual stocks values shown in this table.

^c "SPR" is the Strategic Petroleum Reserve. Crude oil stocks in the SPR include non-U.S. stocks held under foreign or commercial storage agreements.

^d All crude oil stocks other than those in "SPR."

^e Beginning in 1981, includes stocks of Alaskan crude oil in transit. See Note 5, "Stocks of Alaskan Crude Oil," at end of section.

^f See Note 4, "New Stock Basis," at end of section.

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

per day and greater than -500 barrels per day.

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

Web Page: For annual data not displayed between 1973 and 1995, see <http://www.eia.doe.gov/emeu/mer/petro.html>.

Sources: • **1973-1975:** Bureau of Mines, Mineral Industry Surveys, *Petroleum Statement, Annual*, annual reports. • **1976-1980:** Energy Information Administration (EIA), Energy Data Reports, *Petroleum Statement, Annual*, annual reports. • **1981-2005:** EIA, *Petroleum Supply Annual*, annual reports. • **2006 and 2007:** EIA, *Petroleum Supply Monthly*, monthly reports; and, for the current two months, *Weekly Petroleum Status Report* data system, and *Monthly Energy Review* data system calculations.

Table 3.3a Petroleum Imports From Bahrain, Iran, Iraq, and Kuwait
 (Thousand Barrels per Day)

	Persian Gulf ^a							
	Bahrain		Iran ^b		Iraq		Kuwait ^c	
	Total	Crude Oil	Total	Crude Oil	Total	Crude Oil	Total	Crude Oil
1973 Average	11	0	223	216	4	4	47	42
1975 Average	16	0	280	278	2	2	16	4
1980 Average	(s)	0	9	8	28	28	27	27
1985 Average	4	0	27	27	46	46	21	4
1990 Average	1	0	0	0	518	514	86	79
1995 Average	1	0	0	0	0	0	218	213
1996 Average	1	0	0	0	1	1	236	235
1997 Average	0	0	0	0	89	89	253	253
1998 Average	1	0	0	0	336	336	301	300
1999 Average	0	0	0	0	725	725	248	246
2000 Average	1	0	0	0	620	620	272	263
2001 Average	(s)	0	0	0	795	795	250	237
2002 Average	0	0	0	0	459	459	228	216
2003 Average	1	0	0	0	481	481	220	208
2004 Average	4	0	0	0	656	655	250	241
2005 January	0	0	0	0	493	493	203	197
February	0	0	0	0	551	551	183	177
March	0	0	0	0	548	548	207	179
April	0	0	0	0	569	562	187	174
May	0	0	0	0	604	604	291	277
June	0	0	0	0	608	608	184	184
July	0	0	0	0	642	631	278	272
August	0	0	0	0	369	369	229	208
September	0	0	0	0	459	443	237	235
October	0	0	0	0	577	563	330	271
November	0	0	0	0	572	572	289	273
December	0	0	0	0	390	390	291	268
Average	0	0	0	0	531	527	243	227
2006 January	0	0	0	0	532	532	74	73
February	0	0	0	0	450	450	158	152
March	0	0	0	0	476	476	118	111
April	0	0	0	0	531	531	225	225
May	0	0	0	0	666	666	226	220
June	0	0	0	0	617	617	201	201
July	0	0	0	0	592	592	155	155
August	0	0	0	0	620	620	155	136
September	0	0	0	0	655	655	227	227
October	0	0	0	0	505	505	239	234
November	0	0	0	0	573	573	259	253
December	0	0	0	0	419	419	169	163
Average	0	0	0	0	553	553	184	179

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

^b In January 1988, a small amount of Iranian crude oil entered the United States from the Virgin Islands. The oil originated in Iran and was exported to the Virgin Islands prior to the signing of Executive Order 12613 on November 29, 1987.

^c Imports from the Neutral Zone are reported as originating in either Saudi Arabia or Kuwait depending on the country reported to U.S. Customs.

(s)=Less than 500 barrels per day.

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

Web Page: For annual data not displayed between 1973 and 1995, see <http://www.eia.doe.gov/emeu/mer/petro.html>.

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

	Persian Gulf ^a							
	Qatar		Saudi Arabia ^b		United Arab Emirates		Total ^a	
	Total	Crude Oil	Total	Crude Oil	Total	Crude Oil	Total	Crude Oil
1973 Average	7	7	486	462	71	71	848	802
1975 Average	18	18	715	701	117	117	1,165	1,121
1980 Average	22	22	1,261	1,250	172	172	1,519	1,508
1985 Average	(s)	0	168	132	45	35	311	244
1990 Average	4	4	1,339	1,195	17	9	1,966	1,801
1995 Average	0	0	1,344	1,260	10	5	1,573	1,479
1996 Average	0	0	1,363	1,248	3	3	1,604	1,488
1997 Average	4	0	1,407	1,293	2	0	1,755	1,635
1998 Average	4	1	1,491	1,404	3	3	2,136	2,044
1999 Average	10	1	1,478	1,387	2	0	2,464	2,360
2000 Average	9	0	1,572	1,523	15	3	2,488	2,409
2001 Average	13	(s)	1,662	1,611	40	21	2,761	2,664
2002 Average	15	9	1,552	1,519	15	10	2,269	2,213
2003 Average	3	0	1,774	1,726	21	10	2,501	2,425
2004 Average	5	4	1,558	1,495	20	5	2,493	2,400
2005								
January	0	0	1,653	1,602	11	0	2,361	2,291
February	1	0	1,574	1,525	10	0	2,319	2,253
March	1	0	1,651	1,576	6	0	2,412	2,302
April	0	0	1,514	1,459	9	0	2,280	2,194
May	0	0	1,580	1,472	22	22	2,498	2,375
June	0	0	1,596	1,566	15	0	2,403	2,358
July	0	0	1,692	1,499	10	0	2,622	2,402
August	0	0	1,589	1,444	7	0	2,194	2,021
September	8	0	1,390	1,286	36	26	2,130	1,989
October	18	0	1,351	1,204	42	34	2,319	2,072
November	19	0	1,370	1,267	45	21	2,294	2,132
December	6	0	1,472	1,438	8	0	2,166	2,097
Average	4	0	1,537	1,445	18	9	2,334	2,207
2006								
January	7	0	1,369	1,335	7	0	1,989	1,941
February	0	0	1,451	1,418	10	0	2,069	2,020
March	0	0	1,364	1,322	0	0	1,958	1,909
April	0	0	1,595	1,582	10	0	2,361	2,338
May	0	0	1,492	1,457	0	0	2,384	2,343
June	0	0	1,522	1,427	8	8	2,348	2,253
July	14	14	1,313	1,264	4	0	2,078	2,025
August	0	0	1,514	1,477	25	14	2,314	2,246
September	0	0	1,564	1,546	35	33	2,481	2,461
October	0	0	1,382	1,322	5	0	2,132	2,061
November	0	0	1,491	1,444	0	0	2,322	2,269
December	0	0	1,491	1,471	0	0	2,079	2,052
Average	2	1	1,461	1,421	9	5	2,209	2,159

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

^b Imports from the Neutral Zone are reported as originating in either Saudi Arabia or Kuwait depending on the country reported to U.S. Customs.

(s)=Less than 500 barrels per day.

Notes: • Beginning in October 1977, Strategic Petroleum Reserve imports are included. • Totals may not equal sum of components due to independent

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

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

	Other OPEC ^{a,b}									
	Algeria		Ecuador ^c		Gabon ^d		Indonesia		Libya	
	Total	Crude Oil	Total	Crude Oil	Total	Crude Oil	Total	Crude Oil	Total	Crude Oil
1973 Average	136	120	48	47	0	0	213	200	164	133
1975 Average	282	264	57	57	27	27	390	379	232	223
1980 Average	488	456	27	17	26	25	348	314	554	548
1985 Average	187	84	67	56	52	51	314	292	4	0
1990 Average	280	63	49	38	64	64	114	98	0	0
1995 Average	234	27	(c)	(c)	(d)	(d)	88	64	0	0
1996 Average	256	8	(c)	(c)	(d)	(d)	59	44	0	0
1997 Average	285	6	(c)	(c)	(d)	(d)	58	51	0	0
1998 Average	290	10	(c)	(c)	(d)	(d)	66	50	0	0
1999 Average	259	25	(c)	(c)	(d)	(d)	81	70	0	0
2000 Average	225	1	(c)	(c)	(d)	(d)	48	36	0	0
2001 Average	278	11	(c)	(c)	(d)	(d)	51	40	0	0
2002 Average	264	30	(c)	(c)	(d)	(d)	53	50	0	0
2003 Average	382	112	(c)	(c)	(d)	(d)	37	26	0	0
2004 Average	452	215	(c)	(c)	(d)	(d)	45	34	20	18
2005 January	368	146	(c)	(c)	(d)	(d)	22	22	0	0
February	504	219	(c)	(c)	(d)	(d)	11	11	96	96
March	380	134	(c)	(c)	(d)	(d)	38	19	9	0
April	467	232	(c)	(c)	(d)	(d)	25	25	21	20
May	449	152	(c)	(c)	(d)	(d)	10	10	35	35
June	581	292	(c)	(c)	(d)	(d)	7	7	106	87
July	540	325	(c)	(c)	(d)	(d)	11	11	40	16
August	610	330	(c)	(c)	(d)	(d)	20	20	136	116
September	447	218	(c)	(c)	(d)	(d)	33	10	37	20
October	496	216	(c)	(c)	(d)	(d)	58	39	83	55
November	500	265	(c)	(c)	(d)	(d)	22	22	61	51
December	405	212	(c)	(c)	(d)	(d)	28	28	53	34
Average	478	228	(c)	(c)	(d)	(d)	24	19	56	44
2006 January	713	235	(c)	(c)	(d)	(d)	26	8	69	39
February	446	163	(c)	(c)	(d)	(d)	12	12	69	58
March	404	281	(c)	(c)	(d)	(d)	10	10	40	40
April	543	256	(c)	(c)	(d)	(d)	17	17	65	51
May	643	350	(c)	(c)	(d)	(d)	30	15	66	26
June	740	491	(c)	(c)	(d)	(d)	17	11	144	110
July	743	413	(c)	(c)	(d)	(d)	29	18	116	104
August	803	506	(c)	(c)	(d)	(d)	27	25	111	84
September	796	453	(c)	(c)	(d)	(d)	29	8	71	59
October	813	449	(c)	(c)	(d)	(d)	32	9	105	91
November	462	253	(c)	(c)	(d)	(d)	20	10	103	72
December	677	421	(c)	(c)	(d)	(d)	71	50	67	46
Average	650	357	(c)	(c)	(d)	(d)	27	16	85	65

^a Organization of the Petroleum Exporting Countries.

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

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

^d Gabon withdrew from OPEC on December 31, 1994. As of January 1995, imports from Gabon appear on Table 3.3f under "Non-OPEC."

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

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

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Table 3.3d Petroleum Imports From Nigeria, Venezuela, Total Other OPEC, and Total OPEC
 (Thousand Barrels per Day)

	Other OPEC ^{a,b}						Total OPEC ^c	
	Nigeria		Venezuela		Total		Total	Crude Oil
	Total	Crude Oil	Total	Crude Oil	Total	Crude Oil		
1973 Average	459	448	1,135	344	2,156	1,293	2,993	2,095
1975 Average	762	746	702	395	2,452	2,091	3,601	3,211
1980 Average	857	841	481	156	2,781	2,356	4,300	3,864
1985 Average	293	280	605	306	1,522	1,069	1,830	1,312
1990 Average	800	784	1,025	666	2,332	1,713	4,296	3,514
1995 Average	627	621	1,480	1,151	2,430	1,862	4,002	3,341
1996 Average	617	595	1,676	1,303	2,609	1,950	4,211	3,438
1997 Average	698	689	1,773	1,394	2,814	2,140	4,569	3,775
1998 Average	696	689	1,719	1,377	2,771	2,125	4,905	4,169
1999 Average	657	623	1,493	1,150	2,489	1,869	4,953	4,228
2000 Average	896	875	1,546	1,223	2,716	2,135	5,203	4,544
2001 Average	885	842	1,553	1,291	2,768	2,184	5,528	4,848
2002 Average	621	589	1,398	1,201	2,336	1,870	4,605	4,083
2003 Average	867	832	1,376	1,183	2,662	2,153	5,162	4,578
2004 Average	1,140	1,078	1,554	1,297	3,211	2,642	5,701	5,042
2005 January	1,103	1,042	1,622	1,376	3,115	2,587	5,476	4,878
February	1,221	1,130	1,710	1,357	3,541	2,812	5,860	5,065
March	974	900	1,546	1,322	2,948	2,375	5,359	4,676
April	1,243	1,130	1,581	1,391	3,338	2,799	5,618	4,993
May	1,234	1,126	1,648	1,323	3,375	2,645	5,873	5,021
June	1,089	1,012	1,600	1,292	3,382	2,689	5,785	5,047
July	1,255	1,134	1,632	1,327	3,478	2,813	6,100	5,215
August	1,112	1,053	1,601	1,332	3,479	2,851	5,673	4,873
September	1,065	959	1,374	1,073	2,955	2,280	5,085	4,270
October	1,203	1,103	1,255	911	3,093	2,324	5,412	4,396
November	1,248	1,163	1,258	1,009	3,089	2,509	5,383	4,641
December	1,246	1,174	1,532	1,183	3,265	2,631	5,431	4,727
Average	1,166	1,077	1,529	1,241	3,253	2,608	5,587	4,816
2006 January	1,186	1,133	1,539	1,228	3,533	2,642	5,522	4,583
February	1,377	1,342	1,475	1,178	3,378	2,752	5,448	4,772
March	1,195	1,114	1,530	1,183	3,180	2,628	5,138	4,537
April	1,098	1,022	1,393	1,171	3,116	2,517	5,477	4,855
May	1,189	1,075	1,470	1,169	3,399	2,635	5,782	4,978
June	1,094	996	1,306	1,008	3,301	2,615	5,649	4,868
July	1,073	1,014	1,467	1,191	3,427	2,742	5,505	4,766
August	1,026	898	1,438	1,151	3,404	2,664	5,718	4,910
September	1,078	966	1,384	1,129	3,357	2,615	5,838	5,076
October	1,088	1,049	1,354	1,125	3,393	2,723	5,525	4,784
November	972	919	1,275	1,088	2,831	2,343	5,153	4,612
December	1,066	1,010	1,271	1,045	3,153	2,572	5,232	4,623
Average	1,119	1,043	1,409	1,139	3,290	2,621	5,499	4,780

^a Organization of the Petroleum Exporting Countries.

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

^c OPEC includes the Persian Gulf nations that are displayed on Tables 3.3a and 3.3b except Bahrain, which is not a member of OPEC, and the nations displayed under "Other OPEC" on Tables 3.3c and 3.3d. Ecuador withdrew from OPEC on December 31, 1992; as of January 1993, imports from Ecuador appear on Table 3.3f under "Non-OPEC." Gabon withdrew on December 31, 1994; as of January 1995, imports from Gabon appear on Table 3.3f under "Non-OPEC." Imports from Bahrain are accounted for under

"Other Non-OPEC" on Table 3.3h.

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

Web Page: For annual data not displayed between 1973 and 1995, see <http://www.eia.doe.gov/emeu/mer/petro.html>.

Sources: • **1973-1975:** Bureau of Mines, Mineral Industry Surveys, *Petroleum Statement, Annual*, annual reports. • **1976-1980:** Energy Information Administration (EIA), Energy Data Reports, *Petroleum Statement, Annual*, annual reports. • **1981-2005:** EIA, *Petroleum Supply Annual*, annual reports. • **2006:** EIA, *Petroleum Supply Monthly*, monthly reports.

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

(Thousand Barrels per Day)

	Non-OPEC ^{a,b}											
	Angola		Australia		Bahamas		Brazil		Canada		China	
	Total	Crude Oil	Total	Crude Oil	Total	Crude Oil	Total	Crude Oil	Total	Crude Oil	Total	Crude Oil
1973 Average	49	49	2	0	174	0	9	0	1,325	1,001	(s)	0
1975 Average	75	71	5	0	152	0	5	0	846	600	0	0
1980 Average	42	37	1	0	78	0	3	1	455	199	(s)	0
1985 Average	110	104	37	21	40	0	61	0	770	468	59	36
1990 Average	237	236	53	47	37	0	49	0	934	643	80	77
1995 Average	367	360	16	16	2	0	8	0	1,332	1,040	53	53
1996 Average	351	344	31	25	1	0	9	0	1,424	1,075	57	57
1997 Average	427	425	48	31	1	0	5	0	1,563	1,198	49	48
1998 Average	468	465	57	31	4	0	26	0	1,598	1,266	42	42
1999 Average	361	357	42	31	3	0	26	0	1,539	1,178	21	13
2000 Average	301	295	56	49	0	0	51	5	1,807	1,348	44	33
2001 Average	328	321	43	34	10	0	82	13	1,828	1,356	24	13
2002 Average	332	321	57	51	34	0	116	58	1,971	1,445	26	20
2003 Average	371	363	34	27	30	0	108	50	2,072	1,549	27	13
2004 Average	316	306	27	21	38	0	104	51	2,138	1,616	22	14
2005 January	474	462	21	21	32	0	123	32	2,235	1,578	24	22
February	394	369	11	11	43	0	153	52	2,114	1,524	29	23
March	692	692	0	0	46	0	55	32	2,037	1,467	29	27
April	374	374	0	0	32	0	49	36	2,073	1,537	31	21
May	353	324	0	0	58	0	134	115	2,216	1,733	31	30
June	397	397	21	21	34	0	226	212	2,171	1,705	41	14
July	219	219	51	22	74	0	156	138	2,080	1,613	17	9
August	609	585	3	0	11	0	226	127	2,085	1,596	24	18
September	473	451	45	21	21	0	162	83	2,215	1,670	29	23
October	566	501	0	0	23	0	192	79	2,109	1,516	56	37
November	675	658	21	21	8	0	151	65	2,305	1,756	50	36
December	443	433	0	0	3	0	242	159	2,531	1,900	34	23
Average	473	456	14	10	32	0	156	94	2,181	1,633	33	24
2006 January	433	420	20	20	10	0	106	61	2,311	1,768	25	23
February	478	464	0	0	22	0	203	164	2,262	1,710	27	21
March	522	510	11	0	7	0	193	123	2,254	1,716	20	16
April	419	389	0	0	10	0	169	111	2,238	1,710	49	40
May	391	379	4	0	11	0	140	96	2,313	1,868	19	7
June	565	525	0	0	9	0	151	107	2,258	1,799	26	16
July	695	666	16	0	0	0	279	187	2,114	1,624	5	0
August	544	525	0	0	4	0	311	196	2,468	1,850	54	40
September	678	648	0	0	7	0	191	99	2,262	1,747	71	49
October	536	506	20	20	8	0	221	171	2,144	1,704	29	15
November	521	505	19	19	0	0	182	156	2,598	2,064	1	0
December	620	610	0	0	12	0	162	130	2,412	1,829	(s)	0
Average	534	513	8	5	8	0	192	133	2,303	1,782	27	19

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

(s)=Less than 500 barrels per day.

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

Columbia.

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

(Thousand Barrels per Day)

	Non-OPEC ^{a,b}											
	Colombia		Ecuador ^c		Gabon ^d		Italy		Malaysia		Mexico	
	Total	Crude Oil	Total	Crude Oil	Total	Crude Oil	Total	Crude Oil	Total	Crude Oil	Total	Crude Oil
1973 Average	9	2	-	-	-	-	125	0	12	1	16	1
1975 Average	9	0	-	-	-	-	27	0	8	5	71	70
1980 Average	4	0	-	-	-	-	4	0	70	61	533	507
1985 Average	23	0	-	-	-	-	60	(s)	3	1	816	715
1990 Average	182	140	-	-	-	-	58	2	41	40	755	689
1995 Average	219	207	97	96	229	229	5	0	8	6	1,068	1,027
1996 Average	234	226	104	96	184	184	8	0	11	6	1,244	1,207
1997 Average	271	270	115	114	230	230	7	0	23	8	1,385	1,360
1998 Average	354	349	101	98	207	207	12	0	35	26	1,351	1,321
1999 Average	468	452	118	114	168	168	10	0	35	21	1,324	1,254
2000 Average	342	318	128	125	143	143	30	0	45	29	1,373	1,313
2001 Average	296	260	120	113	140	140	40	0	37	15	1,440	1,394
2002 Average	260	235	110	100	143	143	34	0	16	9	1,547	1,500
2003 Average	195	166	145	139	131	131	34	0	31	21	1,623	1,569
2004 Average	176	142	245	232	142	142	43	0	30	18	1,665	1,598
2005												
January	150	122	315	309	145	145	27	0	65	40	1,534	1,426
February	110	99	363	356	140	140	14	0	23	0	1,610	1,488
March	126	108	305	305	196	196	18	0	0	0	1,689	1,590
April	241	183	261	240	64	64	21	0	14	0	1,650	1,541
May	176	116	238	238	109	109	49	0	34	13	1,858	1,761
June	251	227	312	288	64	64	65	0	22	22	1,761	1,646
July	205	172	228	219	124	124	51	0	25	11	1,600	1,502
August	266	208	297	292	162	162	47	0	(s)	0	1,745	1,630
September	158	112	198	191	193	192	58	0	27	11	1,329	1,249
October	176	111	275	273	126	126	81	0	23	11	1,589	1,463
November	330	281	264	264	66	66	39	0	25	10	1,777	1,658
December	159	135	340	340	139	139	44	0	0	0	1,797	1,707
Average	196	156	283	276	128	127	43	0	22	10	1,662	1,556
2006												
January	195	169	380	373	61	61	84	0	13	13	1,796	1,701
February	168	126	234	222	34	34	48	0	15	12	1,878	1,774
March	170	170	242	242	81	81	61	0	13	0	1,801	1,697
April	176	149	319	312	33	33	81	0	10	0	1,750	1,601
May	204	185	246	239	15	15	58	0	13	0	1,710	1,576
June	223	211	295	288	89	89	55	0	11	0	1,855	1,734
July	156	144	181	170	53	53	50	0	49	32	1,709	1,561
August	131	125	292	285	72	72	67	0	28	10	1,758	1,652
September	185	170	326	319	82	82	60	0	17	0	1,569	1,441
October	133	131	322	315	56	56	34	0	18	18	1,646	1,481
November	46	42	248	243	63	63	39	0	9	0	1,584	1,462
December	74	74	256	254	75	75	51	0	30	0	1,366	1,245
Average	155	141	278	272	60	60	57	0	19	7	1,700	1,576

^a Organization of the Petroleum Exporting Countries.

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

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

^d Through December 1994, Gabon was a member of OPEC. See Table 3.3c.

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

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

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

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Table 3.3g Petroleum Imports From Netherlands, Netherlands Antilles, Norway, Puerto Rico, Russia, and Spain
 (Thousand Barrels per Day)

	Non-OPEC ^{a,b}											
	Netherlands		Netherlands Antilles		Norway		Puerto Rico		Russia ^c		Spain	
	Total	Crude Oil	Total	Crude Oil	Total	Crude Oil	Total	Crude Oil	Total	Crude Oil	Total	Crude Oil
1973 Average	53	0	585	0	1	0	99	0	26	0	26	0
1975 Average	19	4	332	0	17	12	90	0	14	0	1	0
1980 Average	2	(s)	225	0	144	144	88	0	1	0	1	0
1985 Average	58	0	40	0	32	31	28	0	8	(s)	29	1
1990 Average	55	0	31	0	102	96	32	0	45	1	47	0
1995 Average	15	0	52	0	273	258	15	0	25	14	16	1
1996 Average	19	0	64	0	313	293	20	0	25	18	29	1
1997 Average	25	0	74	0	309	288	16	0	13	3	21	0
1998 Average	31	0	82	0	236	221	15	0	24	9	18	0
1999 Average	27	0	65	0	304	263	13	0	89	21	10	0
2000 Average	30	1	90	0	343	302	15	0	72	7	25	0
2001 Average	43	0	81	0	341	281	4	0	90	0	31	0
2002 Average	66	0	81	0	393	348	(s)	0	210	85	17	0
2003 Average	87	0	70	0	270	181	0	0	254	151	24	0
2004 Average	101	0	29	0	244	143	0	0	298	158	24	0
2005 January	62	0	9	0	248	162	1	0	337	176	7	0
February	115	0	25	0	126	50	0	0	464	294	29	0
March	73	0	29	0	288	165	0	0	510	304	9	0
April	131	0	10	0	245	137	0	0	660	464	34	0
May	184	0	23	0	241	117	0	0	365	209	40	0
June	132	0	57	0	357	194	0	0	350	116	37	0
July	200	0	47	0	206	102	0	0	614	341	34	0
August	108	0	37	0	131	59	0	0	237	72	32	0
September	199	0	29	0	236	125	0	0	466	150	26	0
October	226	0	35	0	308	145	2	0	435	175	19	0
November	206	0	21	0	232	103	0	0	217	47	30	0
December	173	0	28	0	177	66	0	0	275	50	35	0
Average	151	0	29	0	233	119	(s)	0	410	199	28	0
2006 January	216	0	44	0	205	67	0	0	218	0	14	0
February	142	0	57	0	199	71	0	0	304	43	35	0
March	105	0	37	0	209	121	0	0	221	34	37	0
April	161	0	8	0	206	74	0	0	218	0	56	0
May	259	0	38	0	199	98	0	0	620	255	52	0
June	211	0	64	0	140	92	0	0	429	216	60	0
July	196	0	23	0	236	160	0	0	425	134	39	0
August	259	0	35	0	255	108	0	0	485	167	76	0
September	153	0	16	0	159	76	0	0	534	183	48	0
October	116	0	18	0	181	120	0	0	381	98	47	0
November	152	0	38	0	174	81	0	0	223	16	58	0
December	118	0	19	0	178	110	0	0	369	139	44	0
Average	175	0	33	0	195	98	0	0	370	108	47	0

^a Organization of the Petroleum Exporting Countries.

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

^c Imports from other republics in the former U.S.S.R. may be included in imports from Russia for the years 1973 through 1992.

(s)=Less than 500 barrels per day.

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

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

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Table 3.3h Petroleum Imports From Trinidad and Tobago, United Kingdom, U.S. Virgin Islands, Other Non-OPEC, Total Non-OPEC, and Total Imports
 (Thousand Barrels per Day)

	Non-OPEC ^{a,b}										Total Imports	
	Trinidad and Tobago		United Kingdom		U.S. Virgin Islands		Other Non-OPEC ^c		Total ^d			
	Total	Crude Oil	Total	Crude Oil	Total	Crude Oil	Total	Crude Oil	Total	Crude Oil	Total	Crude Oil
1973 Average	255	60	15	0	329	0	153	36	3,263	1,149	6,256	3,244
1975 Average	242	115	14	(s)	406	0	120	14	2,454	893	6,056	4,105
1980 Average	176	115	176	173	388	0	219	162	2,609	1,399	6,909	5,263
1985 Average	113	98	310	278	247	0	394	137	3,237	1,888	5,067	3,201
1990 Average	96	76	189	155	282	0	417	180	3,721	2,381	8,018	5,894
1995 Average	70	62	383	341	278	0	302	181	4,833	3,889	8,835	7,230
1996 Average	76	58	308	216	313	0	440	265	5,267	4,070	9,478	7,508
1997 Average	61	56	226	169	300	0	422	250	5,593	4,450	10,162	8,225
1998 Average	66	53	250	161	293	0	531	288	5,803	4,537	10,708	8,706
1999 Average	58	40	365	284	280	1	575	304	5,899	4,502	10,852	8,731
2000 Average	85	56	366	291	291	0	618	214	6,257	4,526	11,459	9,071
2001 Average	72	51	324	244	268	0	702	244	6,343	4,480	11,871	9,328
2002 Average	80	68	478	405	236	0	720	270	6,925	5,058	11,530	9,140
2003 Average	98	67	440	359	288	0	773	303	7,103	5,087	12,264	9,665
2004 Average	88	49	380	238	330	0	1,003	314	7,444	5,046	13,145	10,088
2005												
January	84	50	328	197	305	0	989	376	7,515	5,119	12,991	9,997
February	86	56	337	190	330	0	1,374	502	7,889	5,154	13,749	10,219
March	100	64	451	294	278	0	940	320	7,870	5,565	13,230	10,242
April	136	87	399	256	358	0	1,077	292	7,859	5,231	13,476	10,224
May	126	84	348	194	367	0	1,182	369	8,133	5,412	14,006	10,432
June	140	70	422	269	331	0	1,296	474	8,485	5,718	14,270	10,765
July	89	52	406	259	323	0	1,076	381	7,825	5,162	13,925	10,377
August	130	68	442	321	299	0	1,283	393	8,175	5,531	13,848	10,404
September	104	25	413	209	289	0	1,474	372	8,144	4,885	13,229	9,155
October	125	74	455	231	413	0	1,564	307	8,796	5,048	14,208	9,444
November	117	70	504	229	303	0	1,373	359	8,713	5,621	14,096	10,262
December	112	62	251	33	335	0	1,000	223	8,117	5,269	13,548	9,996
Average	112	64	396	224	328	0	1,217	363	8,127	5,310	13,714	10,126
2006												
January	138	96	187	36	277	0	1,322	323	8,054	5,131	13,576	9,713
February	62	20	205	82	318	0	1,182	382	7,873	5,125	13,320	9,897
March	126	52	299	145	299	0	1,040	384	7,749	5,291	12,887	9,828
April	135	80	315	169	239	0	1,291	310	7,883	4,977	13,360	9,832
May	156	95	349	174	373	0	1,271	285	8,441	5,269	14,223	10,247
June	141	82	355	185	273	0	1,284	467	8,495	5,813	14,143	10,681
July	102	59	340	229	353	0	1,312	368	8,332	5,387	13,837	10,153
August	86	52	262	107	377	0	1,327	437	8,894	5,626	14,612	10,537
September	103	78	239	121	396	0	1,440	615	8,537	5,628	14,375	10,703
October	105	58	205	74	335	0	1,244	581	7,800	5,348	13,324	10,132
November	103	71	291	119	331	0	1,121	383	7,802	5,225	12,955	9,837
December	143	60	199	93	334	0	1,016	343	7,479	4,961	12,711	9,584
Average	117	67	271	128	326	0	1,238	406	8,113	5,315	13,612	10,095

^a Organization of the Petroleum Exporting Countries.

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

^c Includes Bahrain, which is shown on Table 3.3a.

^d As of January 1993, includes petroleum imported from Ecuador, which withdrew from OPEC on December 31, 1992. As of January 1995, includes petroleum imported from Gabon, which withdrew from OPEC on December 31, 1994.

(s)=Less than 500 barrels per day.

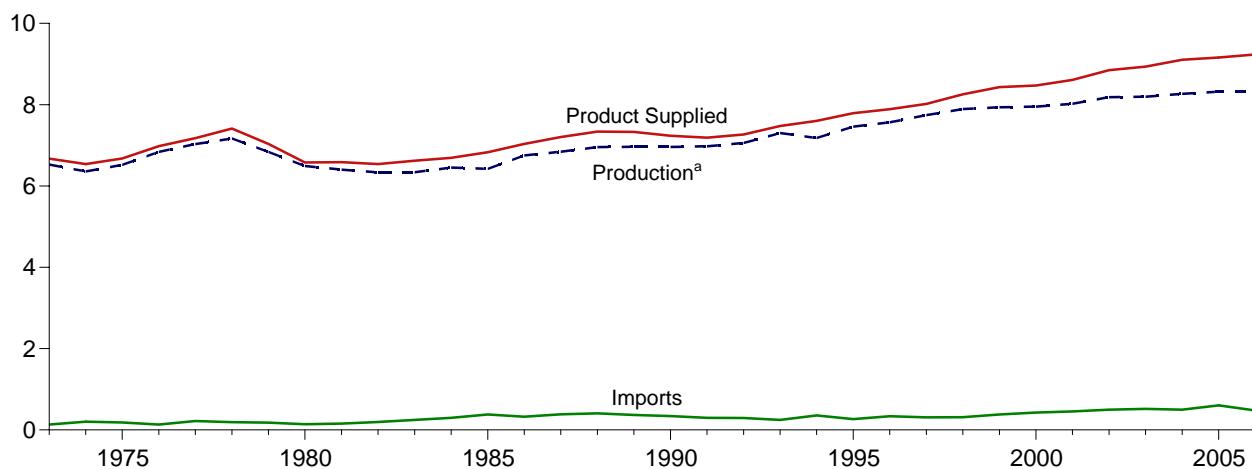
Notes: • Beginning in October 1977, Strategic Petroleum Reserve imports are included. • Totals may not equal sum of components due to independent rounding. • U.S. geographic coverage is the 50 States and the District of Columbia.

Web Page: For annual data not displayed between 1973 and 1995, see <http://www.eia.doe.gov/emeu/mer/petro.html>.

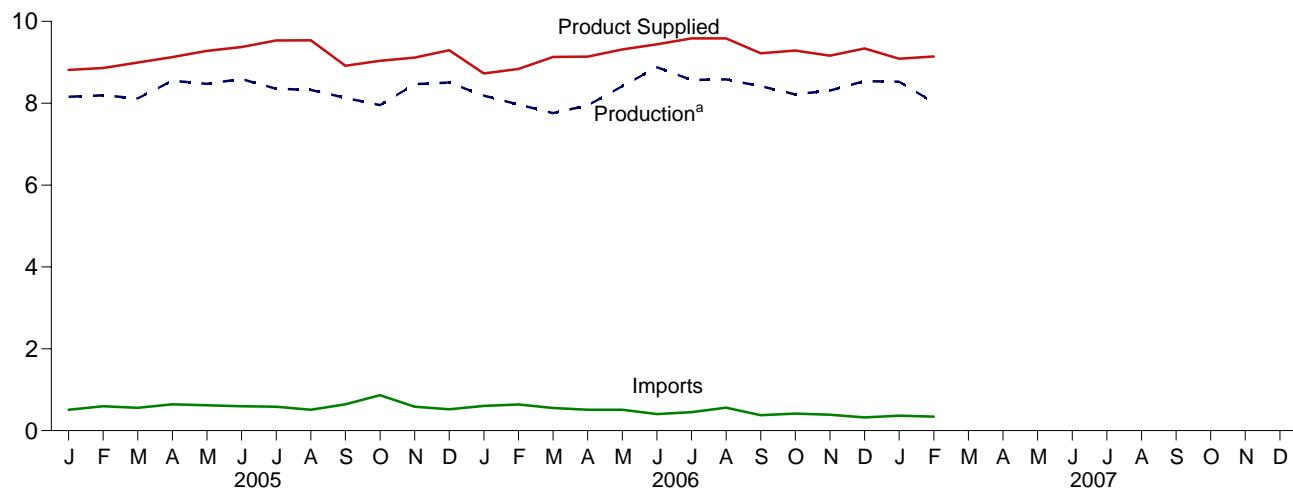
Sources: • **1973-1975:** Bureau of Mines, Mineral Industry Surveys, *Petroleum Statement, Annual*, annual reports. • **1976-1980:** Energy Information Administration (EIA), Energy Data Reports, *Petroleum Statement, Annual*, annual reports. • **1981-2005:** EIA, *Petroleum Supply Annual*, annual reports. • **2006:** EIA, *Petroleum Supply Monthly*, monthly reports.

Figure 3.2 Finished Motor Gasoline
(Million Barrels per Day, Except as Noted)

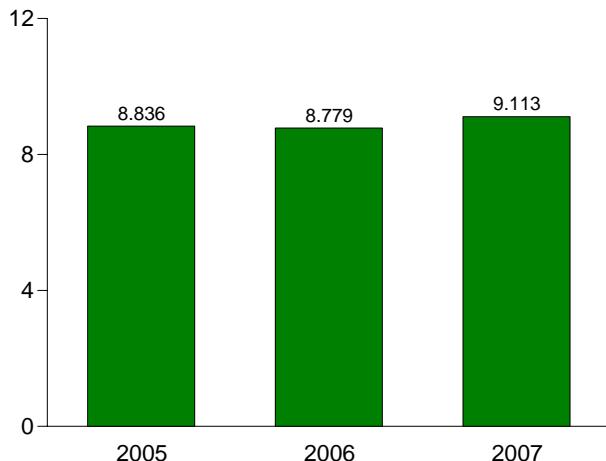
Overview, 1973-2006



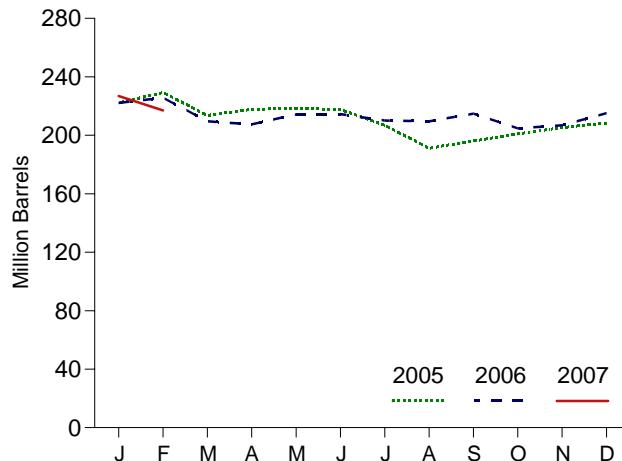
Overview, Monthly



Product Supplied, January–February



Total Stocks, End of Month



^aRefinery and blender net production.

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

Web Page: <http://www.eia.doe.gov/emeu/mer/petro.html>.
Source: Table 3.4.

Table 3.4 Finished Motor Gasoline Supply, Disposition, and Stocks

	Supply			Disposition			Stocks ^a		
	Refinery and Blender Net Production	Imports ^b	Adjust- ments ^c	Stock Change ^{b,d,e}	Exports	Product Supplied	Motor Gasoline		Oxygenates ^g
							Finished	Total ^{e,f}	
Thousand Barrels per Day									
1973 Average	6,527	134	8	-9	4	6,674	NA	209	NA
1975 Average	6,518	184	3	e28	2	6,675	NA	235	NA
1980 Average	6,492	140	14	66	1	6,579	NA	e261	NA
1985 Average	6,419	381	(s)	-41	10	6,831	190	223	NA
1990 Average	6,959	342	(s)	10	55	7,235	181	220	NA
1995 Average	7,459	265	130	-40	104	7,789	161	202	12
1996 Average	7,565	336	82	-12	104	7,891	157	195	13
1997 Average	7,743	309	127	26	137	8,017	166	210	12
1998 Average	7,892	311	190	15	125	8,253	172	216	14
1999 Average	7,934	382	177	-49	111	8,431	154	193	14
2000 Average	7,951	427	235	-3	144	8,472	153	196	12
2001 Average	8,022	454	290	23	133	8,610	161	210	13
2002 Average	8,183	498	292	1	124	8,848	162	209	12
2003 Average	8,194	518	307	-41	125	8,935	147	207	11
2004 Average	8,265	496	458	-10	124	9,105	143	218	11
2005 January	8,157	510	371	79	146	8,813	146	222	11
February	8,194	598	233	26	137	8,861	146	229	11
March	8,119	558	137	-322	142	8,994	136	214	11
April	8,549	642	207	156	114	9,128	141	218	10
May	8,475	618	352	-12	178	9,278	141	218	11
June	8,589	596	343	8	147	9,373	141	218	10
July	8,352	583	509	-238	148	9,534	134	207	9
August	8,326	511	501	-356	157	9,537	123	191	8
September	8,129	644	397	160	95	8,915	127	196	8
October	7,953	866	425	128	80	9,036	131	201	9
November	8,468	584	298	138	96	9,115	135	205	9
December	8,503	524	463	12	182	9,296	136	208	9
Average	8,318	603	354	-20	136	9,159	136	208	9
2006 January	8,185	605	311	274	101	8,727	143	222	9
February	7,969	638	263	-87	122	8,836	141	226	11
March	7,760	554	454	-528	166	9,129	124	210	11
April	7,946	510	522	-289	127	9,140	116	207	11
May	8,414	512	737	181	170	9,312	121	214	10
June	8,878	406	247	-57	150	9,440	120	214	9
July	8,566	450	690	-43	166	9,583	118	210	10
August	8,584	560	476	-56	91	9,585	117	210	11
September	8,415	376	700	132	137	9,222	121	215	12
October	8,214	415	571	-240	153	9,286	113	205	11
November	8,310	388	697	72	162	9,160	115	207	11
December	R 8,538	R 324	R 726	R 96	R 156	R 9,335	R 118	R 215	R 11
Average	R 8,317	R 477	R 535	R -45	R 142	R 9,233	R 118	R 215	R 11
2007 January	E 8,524	E 364	E 572	E 248	E 124	E 9,088	E 125	E 227	NA
February	E 8,019	E 342	E 697	E -211	E 128	E 9,141	E 119	E 217	NA
2-Month Average	E 8,284	E 354	E 631	E 30	E 126	E 9,113	E 119	E 217	NA
2006 2-Month Average	8,083	621	288	103	111	8,779	141	226	11
2005 2-Month Average	8,174	552	305	54	142	8,836	146	229	11

^a Stocks are at end of period.

^b Beginning in 1981, excludes motor gasoline blending components.

^c An adjustment for motor gasoline blending components and fuel ethanol. Through 2004, includes what was previously classified as "Field Production" of finished motor gasoline.

^d A negative number indicates a decrease in stocks and a positive number indicates an increase. The current month stock change estimate is based on the change from the previous month's stocks estimate, rather than the actual stocks value shown in this table.

^e See Note 4, "New Stock Basis," at end of section.

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

^g See Note 1, "Survey Respondents," at end of section.

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

Notes: • See Note 2, "Motor Gasoline," at end of section. • Geographic coverage is the 50 States and the District of Columbia.

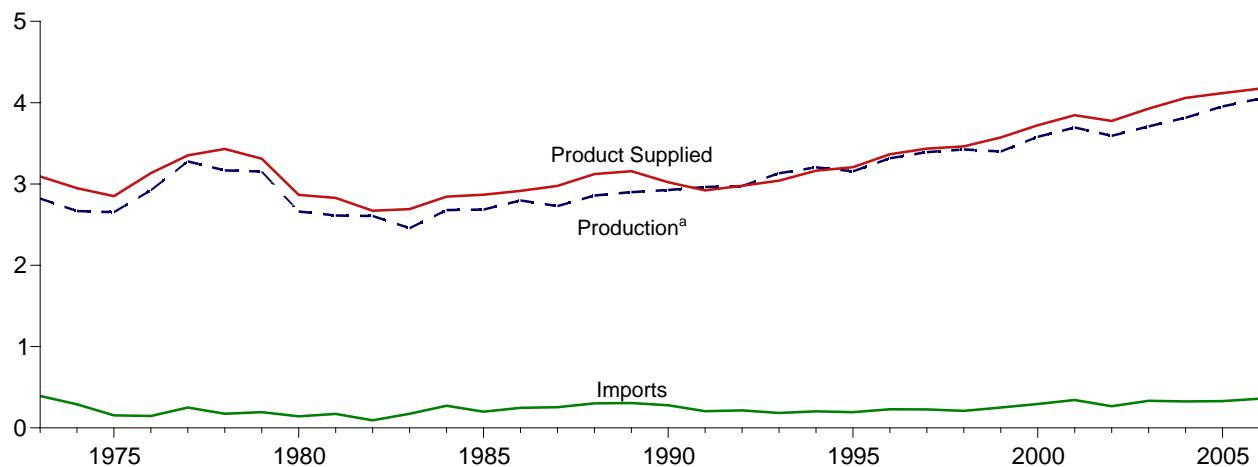
Web Page: For annual data not displayed between 1973 and 1995, see <http://www.eia.doe.gov/emeu/mer/petro.html>.

Sources: • **1973-1975:** Bureau of Mines, Mineral Industry Surveys, *Petroleum Statement, Annual*, annual reports. • **1976-1980:** Energy Information Administration (EIA), *Petroleum Statement, Annual*, annual reports.

• **1981-2005:** EIA, *Petroleum Supply Annual*, annual reports. • **2006 and 2007:** EIA, *Petroleum Supply Monthly*, monthly reports; and, for the current two months, *Weekly Petroleum Status Report* data system, and *Monthly Energy Review* data system calculations.

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

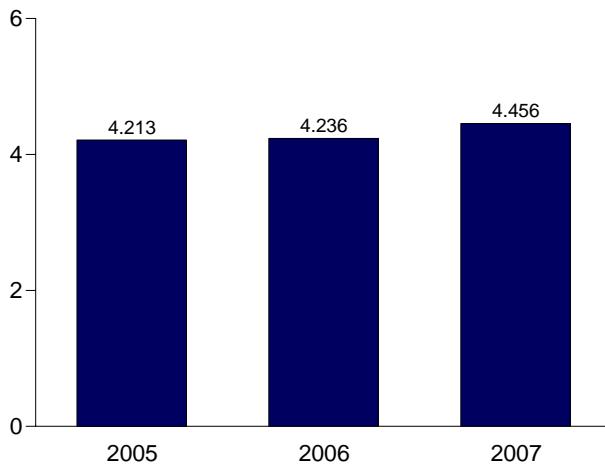
Overview, 1973-2006



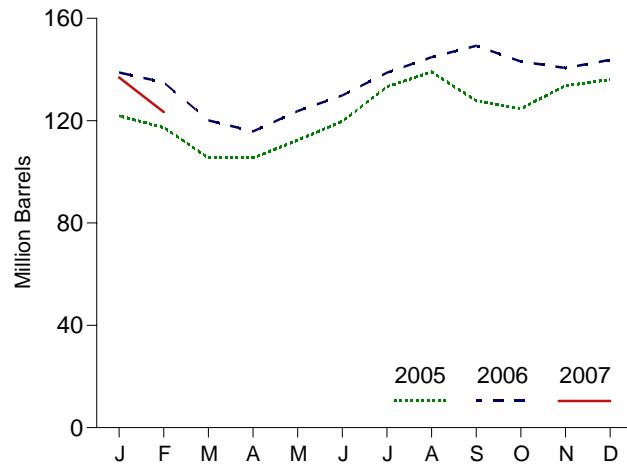
Overview, Monthly



Product Supplied, January–February



Total Stocks, End of Month



^aRefinery net production.

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

Web Page: <http://www.eia.doe.gov/emeu/mer/petro.html>.

Source: Table 3.5.

Table 3.5 Distillate Fuel Oil Supply, Disposition, and Stocks

	Supply			Disposition			Stocks ^a			
	Refinery Net Production	Imports	Adjustments ^c	Stock Change ^{d,e,f}	Exports	Product Supplied	Sulfur Content ^b			Total ^f
							<= 15 ppm	> 15 ppm and <= 500 ppm	> 500 ppm	
	Thousand Barrels per Day						Million Barrels			
1973 Average	2,820	392	4	115	9	3,092	NA	NA	NA	196
1975 Average	2,653	155	2	e,f -41	1	2,851	NA	NA	NA	209
1980 Average	2,661	142	2	-64	3	2,866	NA	NA	NA	205
1985 Average	2,686	200	2	-48	67	2,868	NA	NA	NA	144
1990 Average	2,925	278	-	73	109	3,021	NA	NA	NA	132
1995 Average	3,155	193	-	-41	183	3,207	(9)	67	63	130
1996 Average	3,316	230	-	-10	190	3,365	(9)	68	58	127
1997 Average	3,392	228	-	32	152	3,435	(9)	68	70	138
1998 Average	3,424	210	-	48	124	3,461	(9)	77	79	156
1999 Average	3,399	250	-	-84	162	3,572	(9)	69	56	125
2000 Average	3,580	295	-	-20	173	3,722	(9)	72	46	118
2001 Average	3,695	344	-	73	119	3,847	(9)	82	62	145
2002 Average	3,592	267	-	-29	112	3,776	(9)	81	53	134
2003 Average	3,707	333	-	7	107	3,927	(9)	82	55	137
2004 Average	3,814	325	-	-28	110	4,058	1	75	50	126
2005										
January	3,777	353	-	-141	49	4,223	1	74	47	122
February	3,797	344	-	-163	102	4,202	1	72	44	117
March	3,874	257	-	-383	165	4,349	1	68	37	105
April	4,028	264	-	-1	192	4,101	1	66	39	105
May	4,179	281	-	225	199	4,037	1	70	42	112
June	4,274	236	-	245	227	4,038	1	69	49	120
July	4,236	243	-	437	189	3,854	1	76	56	133
August	4,108	263	-	187	163	4,020	1	77	60	139
September	3,570	275	-	-378	108	4,116	1	67	59	128
October	3,585	507	-	-97	109	4,079	1	67	56	125
November	3,966	486	-	299	92	4,061	1	73	60	134
December	4,044	435	-	75	65	4,339	2	77	57	136
Average	3,954	329	-	27	138	4,118	2	77	57	136
2006										
January	3,833	541	-	90	123	4,161	2	78	58	139
February	3,952	385	-	-138	156	4,318	2	80	53	135
March	3,835	289	-	-477	120	4,481	2	74	45	120
April	3,833	291	-	-145	200	4,069	3	68	45	116
May	4,114	434	-	257	229	4,062	11	66	47	124
June	4,106	292	-	204	187	4,007	24	52	54	130
July	4,067	357	-	287	231	3,906	35	46	58	139
August	4,237	366	-	196	191	4,215	43	42	60	145
September	4,300	422	-	148	456	4,118	54	33	62	149
October	4,083	301	-	-199	291	4,292	53	27	63	143
November	4,070	280	-	-84	252	4,183	53	25	63	141
December	R 4,159	R 352	-	R 102	R 149	R 4,260	R 57	R 27	R 60	R 144
Average	R 4,049	R 359	-	R 21	R 215	R 4,172	R 57	R 27	R 60	R 144
2007										
January	E 4,032	E 370	-	E -33	E 170	E 4,264	E 59	E 24	E 54	E 137
February	E 3,970	E 373	-	E -482	E 157	E 4,668	E 57	E 23	E 44	E 123
2-Month Average	E 4,003	E 371	-	E -246	E 164	E 4,456	E 57	E 23	E 44	E 123
2006 2-Month Average	3,890	467	-	-18	139	4,236	2	80	53	135
2005 2-Month Average	3,787	349	-	-152	74	4,213	1	72	44	117

^a Stocks are at end of period.

^b By weight; "ppm" is parts per million.

^c Through 1982, includes what was previously classified as "Crude Oil Used Directly" (as distillate fuel oil). Through 1988, also includes a small amount of distillate fuel oil production at natural gas processing plants.

^d A negative number indicates a decrease in stocks and a positive number indicates an increase. The current month stock change estimate is based on the change from the previous month's stocks estimate, rather than the actual stocks value shown in this table.

^e See Note 6, "Data Discrepancies," at end of section.

^f See Note 4, "New Stock Basis," at end of section.

^g Included in "> 15 ppm and <= 500 ppm."

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

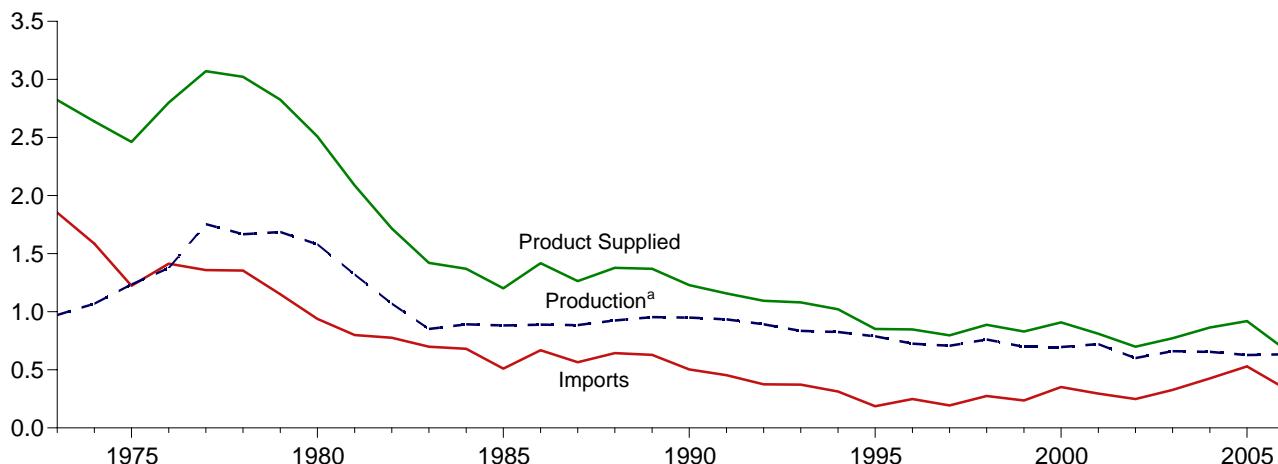
Notes: • See Note 3, "Distillate and Residual Fuel Oils," at end of section. • Totals may not equal sum of components due to independent rounding.

• Geographic coverage is the 50 States and the District of Columbia. Web Page: For annual data not displayed between 1973 and 1995, see <http://www.eia.doe.gov/emeu/mer/petro.html>.

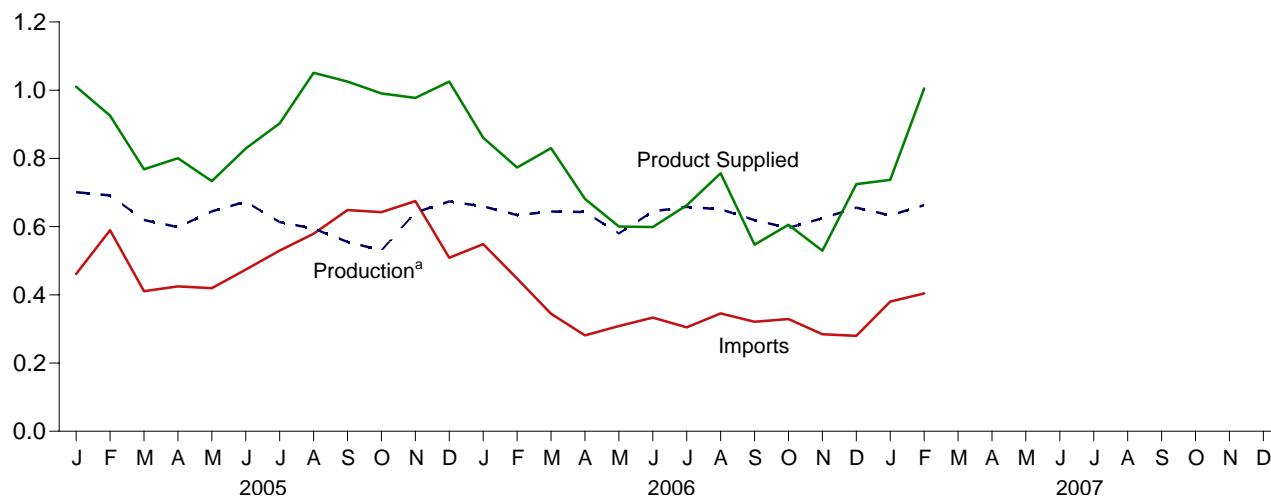
Sources: • **1973-1975:** Bureau of Mines, Mineral Industry Surveys, *Petroleum Statement, Annual*, annual reports. • **1976-1980:** Energy Information Administration (EIA), Energy Data Reports, *Petroleum Statement, Annual*, annual reports. • **1981-2005:** EIA, *Petroleum Supply Annual*, annual reports. • **2006 and 2007:** EIA, *Petroleum Supply Monthly*, monthly reports; and, for the current two months, *Weekly Petroleum Status Report* data system, and *Monthly Energy Review* data system calculations.

Figure 3.4 Residual Fuel Oil
(Million Barrels per Day, Except as Noted)

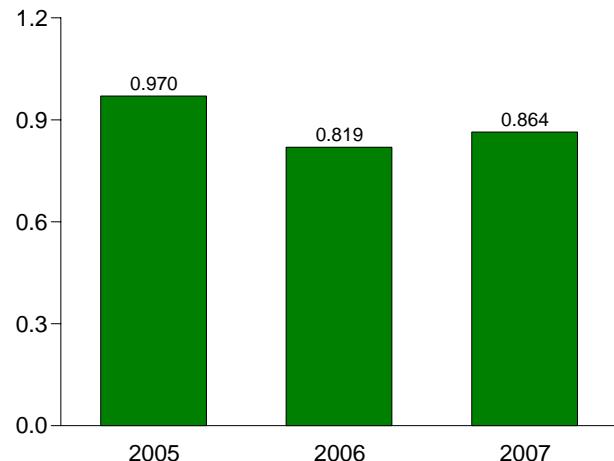
Overview, 1973-2006



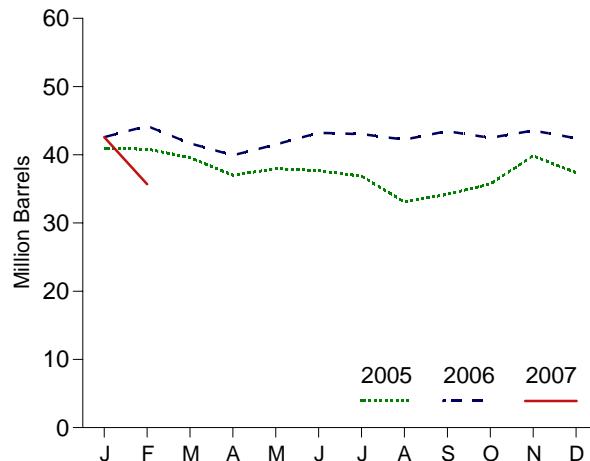
Overview, Monthly



Product Supplied, January–February



Total Stocks, End of Month



^aRefinery net production.

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

Table 3.6 Residual Fuel Oil Supply, Disposition, and Stocks

	Supply			Disposition			Stocks ^a			
	Refinery Net Production	Imports	Adjust- ments ^c	Stock Change ^{d,e}	Exports	Product Supplied	Sulfur Content ^b			Total ^e
							< 0.31%	=> 0.31% and <= 1.00%	> 1.00%	
Thousand Barrels per Day						Million Barrels				
1973 Average	971	1,853	17	-5	23	2,822	NA	NA	NA	53
1975 Average	1,235	1,223	15	e-2	15	2,462	NA	NA	NA	74
1980 Average	1,580	939	12	-10	33	2,508	NA	NA	NA	e92
1985 Average	882	510	-	-7	197	1,202	NA	NA	NA	50
1990 Average	950	504	-	13	211	1,229	NA	NA	NA	49
1995 Average	788	187	-	-13	136	852	NA	NA	NA	37
1996 Average	726	248	-	24	102	848	NA	NA	NA	46
1997 Average	708	194	-	-15	120	797	NA	NA	NA	40
1998 Average	762	275	-	12	138	887	NA	NA	NA	45
1999 Average	698	237	-	-25	129	830	NA	NA	NA	36
2000 Average	696	352	-	1	139	909	NA	NA	NA	36
2001 Average	721	295	-	13	191	811	NA	NA	NA	41
2002 Average	601	249	-	-27	177	700	NA	NA	NA	31
2003 Average	660	327	-	18	197	772	5	13	19	38
2004 Average	655	426	-	12	205	865	6	14	22	42
2005										
January	701	461	-	-48	200	1,010	5	15	21	41
February	691	590	-	-2	358	925	5	14	22	41
March	619	411	-	-39	301	768	5	13	21	40
April	598	425	-	-87	310	800	5	14	19	37
May	645	420	-	31	300	733	4	13	21	38
June	673	474	-	-9	326	829	4	12	22	38
July	614	530	-	-27	268	903	5	11	21	37
August	594	579	-	-122	244	1,051	4	9	20	33
September	555	649	-	38	141	1,025	4	11	20	34
October	530	642	-	49	134	990	4	10	21	36
November	642	675	-	138	202	977	5	13	21	40
December	674	509	-	-79	236	1,025	6	12	20	37
Average	628	530	-	-14	251	920	6	12	20	37
2006										
January	659	548	-	169	178	861	6	14	22	43
February	634	448	-	59	249	773	6	16	22	44
March	644	344	-	-82	241	830	6	15	21	42
April	643	281	-	-58	300	682	5	14	21	40
May	580	308	-	50	238	600	6	14	21	41
June	645	333	-	57	323	599	6	16	22	43
July	658	305	-	-6	306	663	6	14	23	43
August	651	345	-	-25	265	756	6	15	21	42
September	619	321	-	40	353	547	7	14	23	43
October	597	329	-	-31	351	605	7	14	22	42
November	624	285	-	35	344	530	6	16	22	44
December	R 656	R 280	-	R -37	R 248	R 725	R 6	R 14	R 21	R 42
Average	R 634	R 344	-	R 14	R 283	R 681	R 6	R 14	R 21	R 42
2007										
January	E 633	E 380	-	E -17	E 292	E 737	NA	NA	NA	E 43
February	E 663	E 404	-	E -247	E 308	E 1,005	NA	NA	NA	E 36
2-Month Average	E 647	E 391	-	E -126	E 300	E 864	NA	NA	NA	E 36
2006 2-Month Average	647	501	-	117	212	819	6	16	22	44
2005 2-Month Average	696	522	-	-26	275	970	5	14	22	41

^a Stocks are at end of period.

^b By weight. Residual fuel oil stocks by sulfur content exclude pipeline stocks; therefore, the sum of stocks by sulfur content may not equal total stocks.

^c Through 1982, includes what was previously classified as "Crude Oil Used Directly" (as residual fuel oil).

^d A negative number indicates a decrease in stocks and a positive number indicates an increase. The current month stock change estimate is based on the change from the previous month's stocks estimate, rather than the actual stocks value shown in this table.

^e See Note 4, "New Stock Basis," at end of section.

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

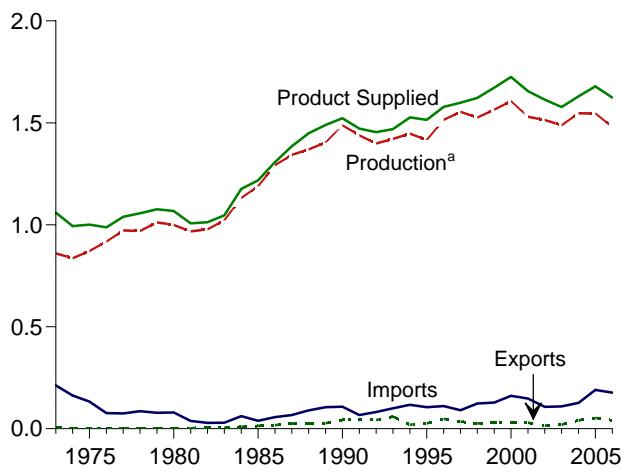
Notes: • See Note 3, "Distillate and Residual Fuel Oils," at end of section. • Geographic coverage is the 50 States and the District of Columbia.

Web Page: For annual data not displayed between 1973 and 1995, see <http://www.eia.doe.gov/emeu/mer/petro.html>.

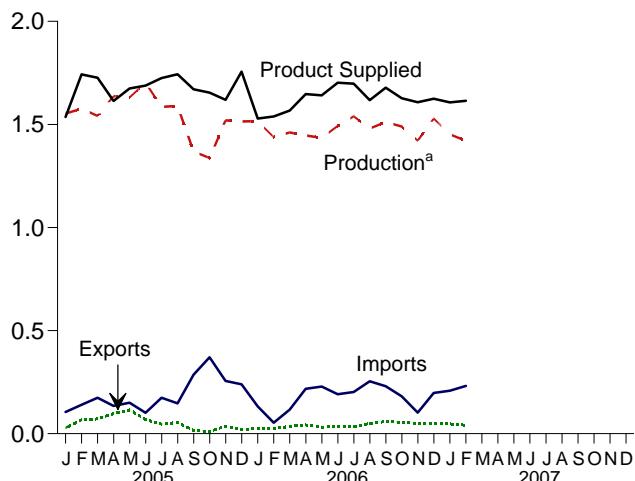
Sources: • **1973-1975:** Bureau of Mines, Mineral Industry Surveys, *Petroleum Statement, Annual*, annual reports. • **1976-1980:** Energy Information Administration (EIA), Energy Data Reports, *Petroleum Statement, Annual*, annual reports. • **1981-2005:** EIA, *Petroleum Supply Annual*, annual reports. • **2006 and 2007:** EIA, *Petroleum Supply Monthly*, monthly reports; and, for the current two months, *Weekly Petroleum Status Report* data system, and *Monthly Energy Review* data system calculations.

Figure 3.5 Jet Fuel
(Million Barrels Per Day, Except as Noted)

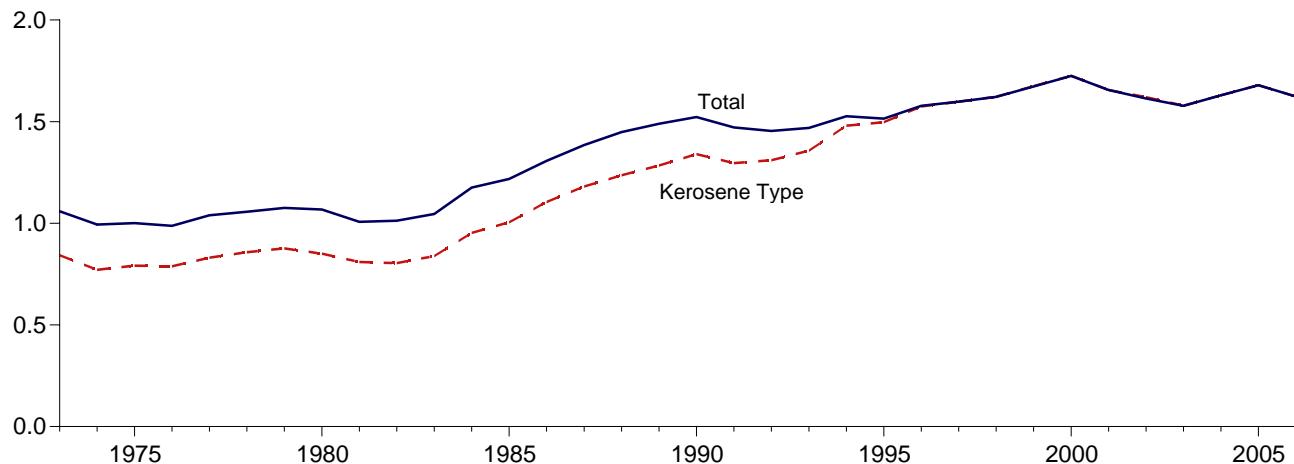
Overview, 1973-2006



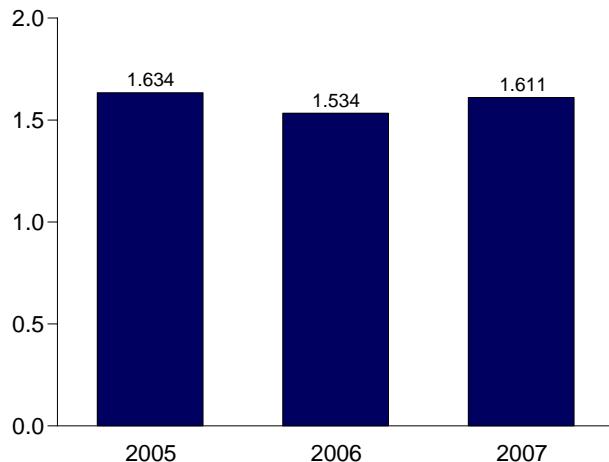
Overview, Monthly



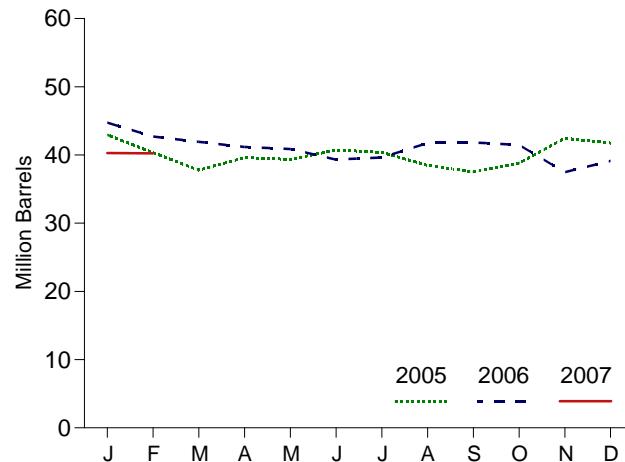
Product Supplied by Type, 1973-2006



Product Supplied, January-February



Total Stocks, End of Month



^aRefinery net production.

Notes: • Through 2004, includes naphtha-type jet fuel. Beginning in 2005, naphtha-type jet fuel is included in "Other Petroleum Products" on Table

3.10. • Because vertical scales differ, graphs should not be compared.

Web Page: <http://www.eia.doe.gov/emeu/mer/petro.html>.

Source: Table 3.7.

Table 3.7 Jet Fuel Supply, Disposition, and Stocks

	Supply		Disposition				Stocks ^a		
	Refinery Net Production		Imports ^b	Stock Change ^{b,c}	Product Supplied		Kerosene Type	Total ^b	
	Kerosene Type	Total ^b			Kerosene Type	Total ^b			
	Thousand Barrels per Day								
1973 Average	679	859	212	8	4	842	1,059	23	29
1975 Average	691	871	133	d2	2	791	1,001	25	30
1980 Average	811	999	80	10	1	851	1,068	d36	d42
1985 Average	983	1,189	39	-4	13	1,005	1,218	34	40
1990 Average	1,311	1,488	108	31	43	1,340	1,522	46	52
1995 Average	1,407	1,416	106	-19	26	1,497	1,514	39	40
1996 Average	1,513	1,515	111	(s)	48	1,575	1,578	40	40
1997 Average	1,554	1,554	91	11	35	1,598	1,599	44	44
1998 Average	1,525	1,526	124	2	26	1,623	1,622	45	45
1999 Average	1,565	1,565	128	-11	32	1,675	1,673	40	41
2000 Average	1,606	1,606	162	11	32	1,725	1,725	44	45
2001 Average	1,529	1,530	148	-7	29	1,656	1,655	42	42
2002 Average	1,514	1,514	107	-8	15	1,621	1,614	39	39
2003 Average	1,489	1,488	109	-1	20	1,578	1,578	39	39
2004 Average	1,547	1,547	127	4	40	1,630	1,630	40	40
2005 January	1,552	1,552	105	93	28	1,536	1,536	43	43
February	1,576	1,576	140	-94	67	1,743	1,743	40	40
March	1,541	1,541	174	-83	72	1,726	1,726	38	38
April	1,638	1,638	135	61	98	1,614	1,614	40	40
May	1,631	1,631	150	-8	115	1,674	1,674	39	39
June	1,701	1,701	102	46	68	1,689	1,689	41	41
July	1,585	1,585	174	-12	46	1,725	1,725	40	40
August	1,590	1,590	147	-61	55	1,743	1,743	38	38
September	1,368	1,368	286	-32	16	1,670	1,670	38	38
October	1,337	1,337	371	42	11	1,655	1,655	39	39
November	1,520	1,520	256	121	36	1,619	1,619	42	42
December	1,515	1,515	239	-23	21	1,756	1,756	42	42
Average	1,546	1,546	190	5	53	1,679	1,679	42	42
2006 January	1,515	1,515	133	95	24	1,529	1,529	45	45
February	1,438	1,438	54	-72	25	1,539	1,539	43	43
March	1,461	1,461	117	-25	36	1,567	1,567	42	42
April	1,446	1,446	218	-25	42	1,647	1,647	41	41
May	1,435	1,435	229	-10	32	1,641	1,641	41	41
June	1,493	1,493	191	-52	34	1,702	1,702	39	39
July	1,540	1,540	202	10	34	1,698	1,698	40	40
August	1,480	1,480	254	68	49	1,618	1,618	42	42
September	1,511	1,511	230	4	60	1,678	1,678	42	42
October	1,490	1,490	181	-12	56	1,627	1,627	41	41
November	1,422	1,422	102	-134	49	1,608	1,608	37	37
December	R 1,529	R 1,529	R 198	R 54	R 48	R 1,625	R 1,625	R 39	R 39
Average	R 1,481	R 1,481	177	-7	41	R 1,624	R 1,624	R 39	R 39
2007 January	E 1,452	E 1,452	E 208	E 6	E 47	E 1,607	E 1,607	E 40	E 40
February	E 1,421	E 1,421	E 232	E -2	E 41	E 1,615	E 1,615	E 40	E 40
2-Month Average	E 1,437	E 1,437	E 219	E 2	E 44	E 1,611	E 1,611	E 40	E 40
2006 2-Month Average	1,479	1,479	95	16	25	1,534	1,534	43	43
2005 2-Month Average	1,564	1,564	122	4	47	1,634	1,634	40	40

^a Stocks are at end of period.

^b Through 2004, includes kerosene-type and naphtha-type jet fuel. Beginning in 2005, includes kerosene-type jet fuel only; naphtha-type jet fuel is included in "Other Petroleum Products" on Table 3.10.

^c A negative number indicates a decrease in stocks and a positive number indicates an increase. The current month stock change estimate is based on the change from the previous month's stocks estimate, rather than the actual stocks value shown in this table.

^d See Note 4, "New Stock Basis," at end of section.

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

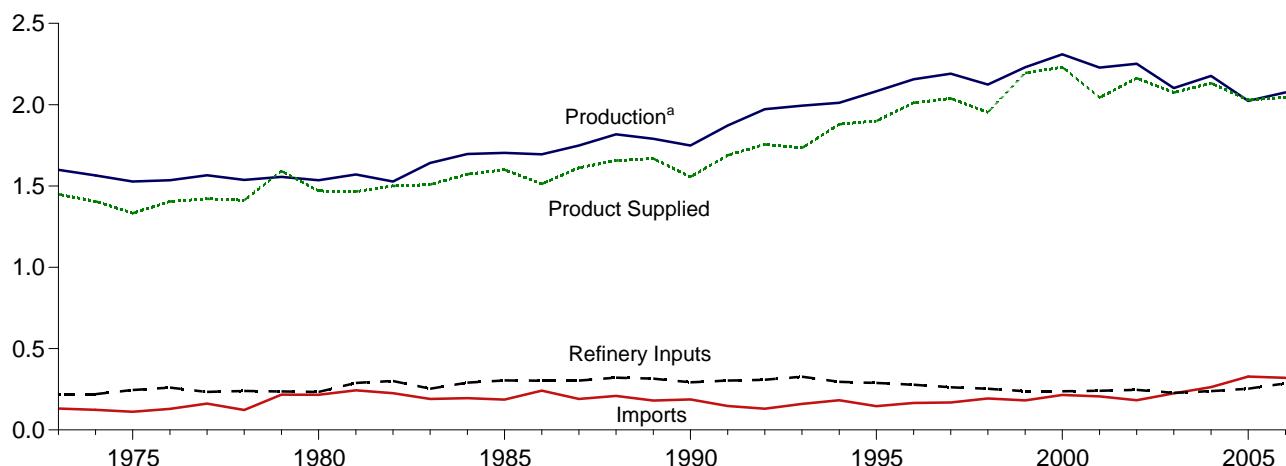
Note: Geographic coverage is the 50 States and the District of Columbia.

Web Page: For annual data not displayed between 1973 and 1995, see <http://www.eia.doe.gov/emeu/mer/petro.html>.

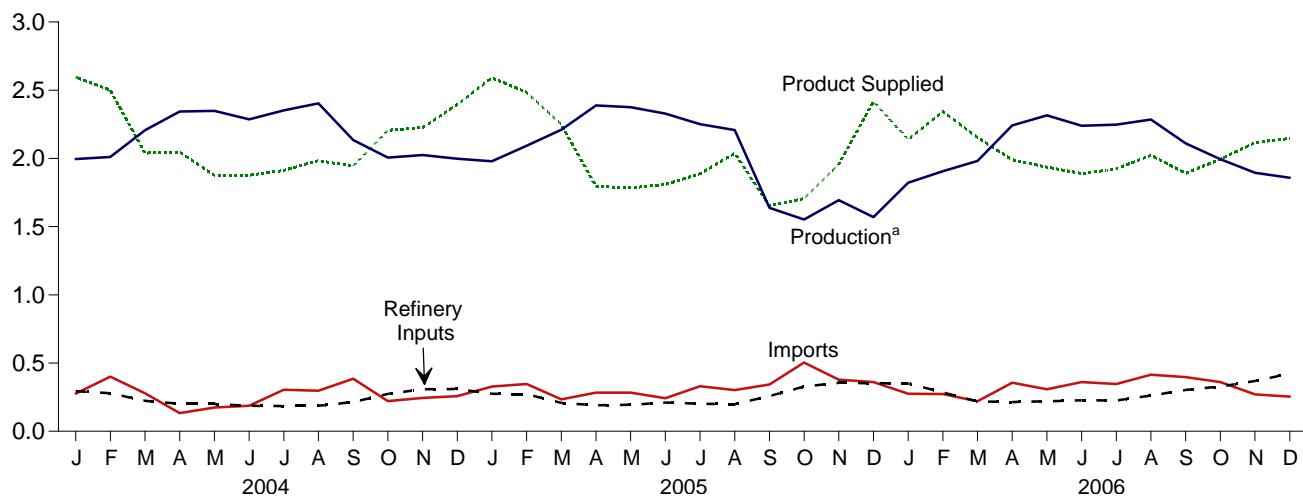
Sources: • **1973-1975:** Bureau of Mines, Mineral Industry Surveys, *Petroleum Statement, Annual*, annual reports. • **1976-1980:** Energy Information Administration (EIA), Energy Data Reports, *Petroleum Statement, Annual*, annual reports. • **1981-2005:** EIA, *Petroleum Supply Annual*, annual reports. • **2006 and 2007:** EIA, *Petroleum Supply Monthly*, monthly reports; and, for the current two months, *Weekly Petroleum Status Report* data system, and *Monthly Energy Review* data system calculations.

Figure 3.6 Liquefied Petroleum Gases
(Million Barrels per Day, Except as Noted)

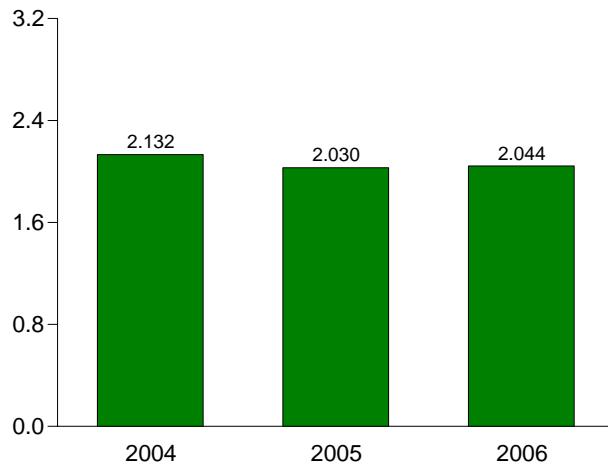
Overview, 1973-2006



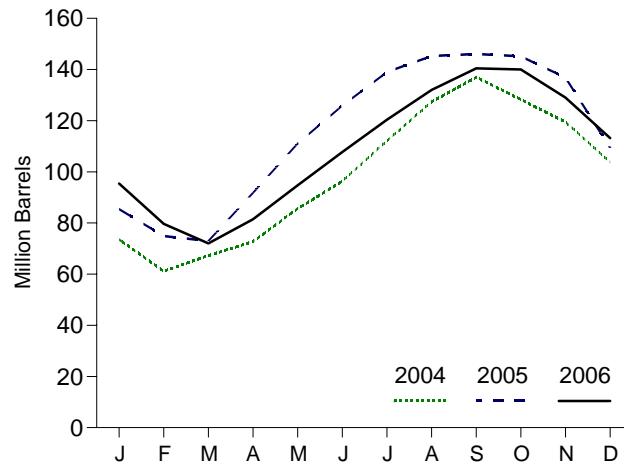
Overview, Monthly



Product Supplied, January-December



Stocks, End of Month



^aField production and refinery net production.

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

Web Page: <http://www.eia.doe.gov/emeu/mer/petro.html>.

Source: Table 3.8.

Table 3.8 Liquefied Petroleum Gases Supply, Disposition, and Stocks

	Supply			Disposition				Stocks ^c
	Field Production ^a	Refinery Net Production	Imports	Stock Change ^b	Refinery Inputs	Exports	Product Supplied	
	Thousand Barrels per Day							
1973 Average	1,225	375	132	35	220	27	1,449	99
1975 Average	1,217	311	112	d35	246	26	1,333	125
1980 Average	1,205	330	216	27	233	21	1,469	d120
1985 Average	1,313	391	187	-75	304	62	1,599	74
1990 Average	1,250	499	188	48	293	40	1,556	98
1995 Average	1,428	654	146	-17	289	58	1,899	93
1996 Average	1,494	662	166	-19	278	51	2,012	86
1997 Average	1,499	691	169	9	263	50	2,038	89
1998 Average	1,450	674	194	70	253	42	1,952	115
1999 Average	1,547	684	182	-71	238	50	2,195	89
2000 Average	1,605	705	215	-19	238	74	2,231	83
2001 Average	1,562	667	206	105	241	44	2,044	121
2002 Average	1,581	671	183	-42	247	67	2,163	106
2003 Average	1,444	658	225	-31	228	56	2,074	94
2004 Average	1,532	645	263	25	238	43	2,132	104
2005								
January	1,552	427	328	-592	275	33	2,592	85
February	1,609	484	347	-376	272	59	2,485	75
March	1,604	607	234	-63	208	51	2,248	73
April	1,568	820	283	628	190	58	1,795	92
May	1,563	812	283	621	195	58	1,785	111
June	1,490	838	243	496	210	56	1,809	126
July	1,455	796	330	423	201	70	1,887	139
August	1,445	763	301	202	198	71	2,037	145
September	1,245	393	343	26	258	43	1,653	146
October	1,293	259	504	-30	328	51	1,706	145
November	1,373	322	379	-276	355	38	1,957	137
December	1,224	346	360	-887	352	48	2,416	109
Average	1,451	573	328	15	253	53	2,030	109
2006								
January	1,440	382	275	-455	351	63	2,138	95
February	1,433	474	273	-564	284	113	2,345	80
March	1,443	539	220	-245	219	75	2,153	72
April	1,469	773	356	314	214	81	1,990	81
May	1,483	833	308	428	220	41	1,935	95
June	1,478	762	361	434	227	51	1,888	108
July	1,479	769	347	408	225	38	1,923	120
August	1,454	831	415	376	262	40	2,022	132
September	1,504	607	397	282	303	32	1,891	140
October	1,499	496	361	-15	327	48	1,994	140
November	1,511	383	271	-367	369	47	2,117	129
December	1,486	372	254	-511	423	53	2,146	113
Average	1,473	602	320	10	285	56	2,044	113

^a Liquefied petroleum gases production at natural gas processing plants.

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

^c Stocks are at end of period.

^d See Note 4, "New Stock Basis," at end of section.

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

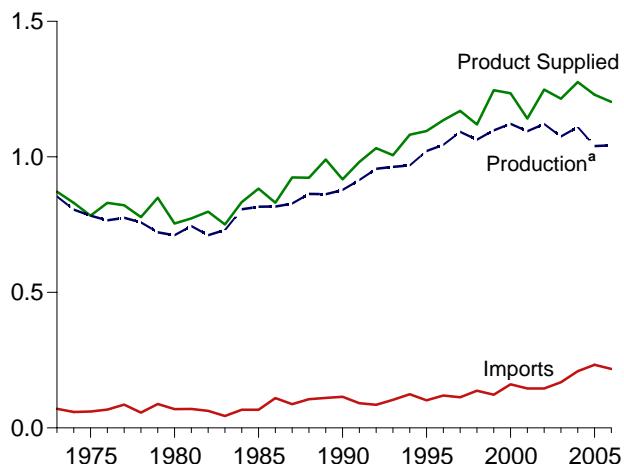
Web Page: For annual data not displayed between 1973 and 1995, see

<http://www.eia.doe.gov/emeu/mer/petro.html>.

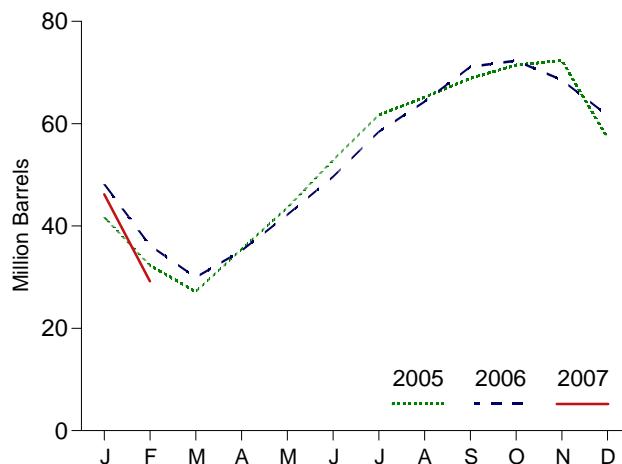
Sources: • **1973-1975:** Bureau of Mines, Mineral Industry Surveys, *Petroleum Statement, Annual*, annual reports. • **1976-1980:** Energy Information Administration (EIA), Energy Data Reports, *Petroleum Statement, Annual*, annual reports. • **1981-2005:** EIA, *Petroleum Supply Annual*, annual reports. • **2006:** EIA, *Petroleum Supply Monthly*, monthly reports.

Figure 3.7 Propane and Propylene
(Million Barrels per Day, Except as Noted)

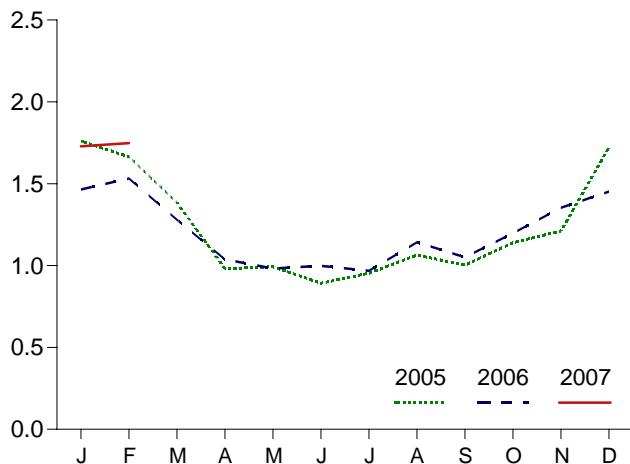
Overview, 1973-2006



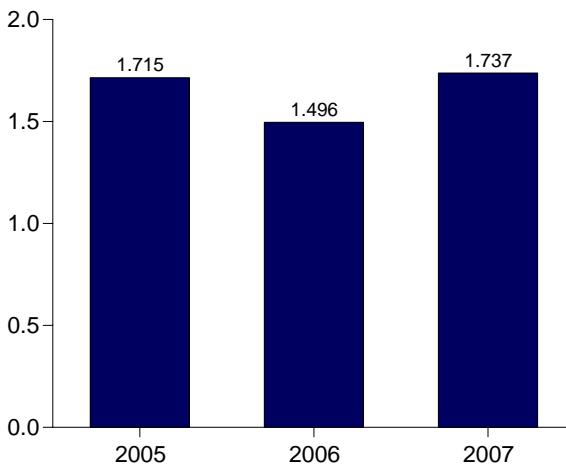
Stocks, End of Month



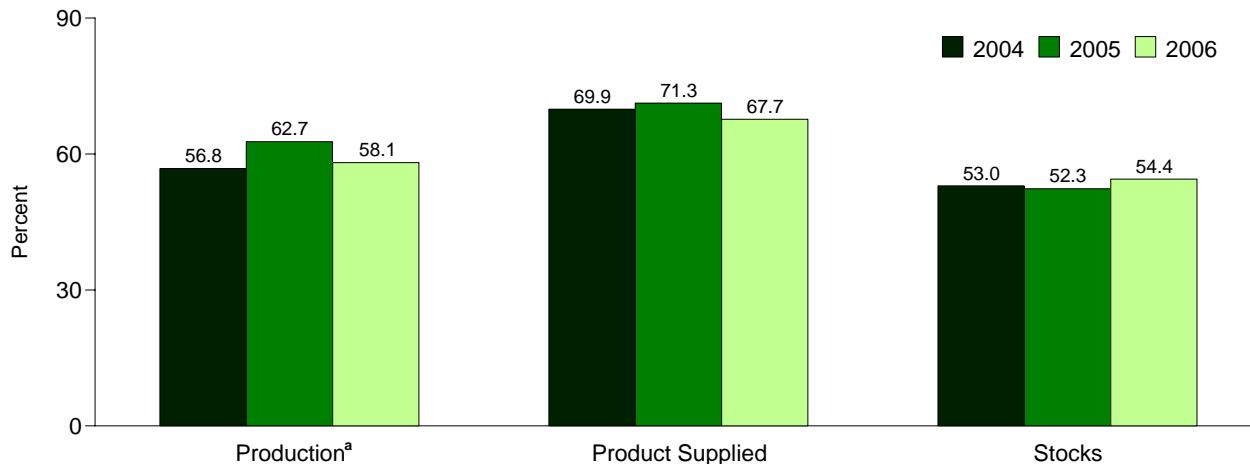
Product Supplied, Monthly



Product Supplied, January-February



Share of Liquefied Petroleum Gases, December



^aField production and refinery net production.

Note: Because vertical scales differ, graphs should not be compared.
Web Page: <http://www.eia.doe.gov/emeu/petro.html>.

Sources: Tables 3.8 and 3.9. Calculation of shares is based on data prior to rounding.

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

	Supply			Disposition				Stocks ^{c,d}
	Field Production ^a	Refinery Net Production	Imports	Stock Change ^{b,c}	Refinery Inputs	Exports	Product Supplied	
	Thousand Barrels per Day							
1973 Average	583	271	71	30	8	15	872	65
1975 Average	550	234	60	36	11	13	783	82
1980 Average	442	269	69	4	12	10	754	^c 65
1985 Average	521	295	67	-50	3	48	883	39
1990 Average	474	404	115	48	(s)	28	917	49
1995 Average	519	503	102	-10	0	38	1,096	43
1996 Average	525	520	119	(s)	0	28	1,136	43
1997 Average	528	565	113	3	0	32	1,170	44
1998 Average	513	550	137	56	0	25	1,120	65
1999 Average	529	569	122	-59	0	33	1,246	43
2000 Average	539	583	161	-5	0	53	1,235	41
2001 Average	538	556	145	67	0	31	1,142	66
2002 Average	549	572	145	-36	0	55	1,248	53
2003 Average	506	570	168	-8	0	37	1,215	50
2004 Average	526	584	209	15	0	28	1,276	55
2005								
January	527	560	274	-428	0	28	1,761	42
February	540	579	244	-336	0	35	1,664	32
March	540	549	164	-166	0	34	1,385	27
April	531	586	179	277	0	38	981	35
May	531	587	175	261	0	39	992	44
June	516	576	152	311	0	42	892	53
July	505	552	220	285	0	39	953	62
August	505	540	171	112	0	40	1,064	65
September	437	466	256	124	0	32	1,003	69
October	448	441	377	83	0	44	1,139	71
November	469	513	293	31	0	34	1,211	72
December	444	541	293	-488	0	44	1,722	57
Average	499	540	233	6	0	37	1,229	57
2006								
January	490	527	200	-297	0	50	1,464	48
February	495	511	201	-427	0	103	1,531	36
March	495	479	169	-202	0	66	1,280	30
April	500	535	234	174	0	58	1,037	35
May	503	564	174	226	0	33	982	42
June	501	540	231	248	0	26	998	50
July	504	549	226	284	0	26	968	58
August	497	574	290	189	0	30	1,142	64
September	507	561	235	227	0	24	1,051	71
October	501	531	248	40	0	43	1,197	72
November	513	549	208	-126	0	43	1,353	69
December	R 499	R 581	R 195	R -224	0	R 46	R 1,452	R 62
Average	R 500	R 542	R 218	R 12	0	R 45	R 1,203	R 62
2007								
January	RF 508	RF 550	E 232	E -477	E 0	E 40	E 1,728	E 46
February	F 509	F 505	E 169	E -607	E 0	E 41	E 1,748	E 29
2-Month Average	F 508	F 529	E 202	E -539	E 0	E 40	E 1,737	E 29
2006 2-Month Average	493	519	201	-359	0	75	1,496	36
2005 2-Month Average	533	569	260	-385	0	32	1,715	32

^a Propane and propylene production at natural gas processing plants.

^b A negative number indicates a decrease in stocks and a positive number indicates an increase. The current month stock change estimate is based on the change from the previous month's stocks estimate, rather than the actual stocks value shown in this table.

^c See Note 4, "New Stock Basis," at end of section.

^d Stocks are at end of period.

R=Revised. E=Estimate. F=Forecast. (s)=Less than 500 barrels per day.

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

Web Page: For annual data not displayed between 1973 and 1995, see

<http://www.eia.doe.gov/emeu/mer/petro.html>.

Sources: • **1973-1975:** Bureau of Mines, Mineral Industry Surveys, *Petroleum Statement, Annual*, annual reports. • **1976-1980:** Energy Information Administration (EIA), Energy Data Reports, *Petroleum Statement, Annual*, annual reports. • **1981-2005:** EIA, *Petroleum Supply Annual*, annual reports. • **2006 and 2007:** EIA, *Petroleum Supply Monthly*, monthly reports; and, for the current two months, *Weekly Petroleum Status Report* data system, Short-Term Integrated Forecasting System, and *Monthly Energy Review* data system calculations.

Table 3.10 Other Petroleum Products Supply, Disposition, and Stocks

	Supply				Disposition				Stocks ^{d,f}
	Field Production ^a	Refinery and Blender Net Production	Imports	Adjustments ^b	Stock Change ^{c,d}	Refinery and Blender Net Inputs	Exports	Products Supplied ^e	
	Thousand Barrels per Day								Million Barrels
1973 Average	513	2,301	290	19	1	750	162	2,211	179
1975 Average	416	2,097	144	35	d-6	537	158	2,001	188
1980 Average	369	2,559	130	30	15	310	197	2,566	d205
1985 Average	296	2,183	550	53	22	886	227	1,947	206
1990 Average	309	2,452	705	80	-32	887	289	2,402	201
1995 Average	335	2,522	708	174	-23	958	348	2,457	206
1996 Average	336	2,541	879	230	-11	1,014	376	2,608	202
1997 Average	318	2,671	945	215	30	985	402	2,733	213
1998 Average	309	2,753	888	190	18	1,002	380	2,741	219
1999 Average	303	2,709	943	199	-64	1,061	338	2,819	196
2000 Average	306	2,705	938	143	30	991	429	2,642	207
2001 Average	307	2,651	1,095	95	20	1,013	434	2,681	214
2002 Average	300	2,712	1,085	126	-42	1,123	479	2,662	199
2003 Average	275	2,780	1,087	116	21	981	509	2,747	207
2004 Average	277	2,887	1,419	-37	58	1,049	499	2,940	228
2005 January	260	2,765	1,236	62	533	848	420	2,521	244
February	260	2,814	1,513	177	512	1,124	514	2,614	259
March	268	2,825	1,353	302	64	1,221	540	2,923	261
April	272	2,894	1,504	225	-108	1,791	514	2,698	257
May	286	2,873	1,821	96	28	1,474	475	3,099	258
June	295	2,988	1,855	120	-267	1,433	632	3,461	250
July	293	2,961	1,688	-70	-236	1,567	504	3,036	243
August	280	2,946	1,642	-31	-506	1,478	588	3,277	227
September	247	2,593	1,877	11	141	1,407	417	2,762	231
October	252	2,410	1,875	4	61	1,242	451	2,786	233
November	248	2,629	1,455	132	-8	1,128	450	2,894	233
December	235	2,690	1,484	-22	-132	1,327	529	2,663	229
Average	266	2,782	1,609	83	4	1,337	503	2,896	229
2006 January	244	2,704	1,761	175	522	1,115	552	2,695	245
February	244	2,685	1,627	213	387	1,258	620	2,504	256
March	245	2,676	1,535	7	235	1,185	508	2,535	263
April	260	2,731	1,872	-35	275	1,266	632	2,655	271
May	270	2,902	2,184	-263	40	1,516	624	2,912	272
June	275	2,944	1,879	263	-226	1,781	566	3,239	266
July	276	2,894	2,023	-156	15	1,605	608	2,809	266
August	271	2,994	2,136	72	55	1,664	627	3,126	268
September	278	3,029	1,926	-185	79	1,427	526	3,015	270
October	274	2,827	1,606	-78	-292	1,384	584	2,953	261
November	258	2,814	1,794	-197	-73	1,284	510	2,948	259
December	249	2,707	1,719	-206	216	1,142	505	2,605	266
Average	262	2,826	1,840	-35	101	1,386	572	2,834	266

^a Production at natural gas processing plants. Through 1988, includes pentanes plus and a small amount of finished petroleum products. Beginning in 1989, includes pentanes plus only.

^b An adjustment for motor gasoline blending components and fuel ethanol. Through 2004, includes what was previously classified as "Field Production" of motor gasoline blending components and other hydrocarbons and oxygenates.

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

^d See Note 4, "New Stock Basis," at end of section.

^e See Note 6, "Data Discrepancies," at end of section.

^f Stocks are at end of period.

Notes: • "Other Petroleum Products" include pentanes plus, other

hydrocarbons and oxygenates, unfinished oils, gasoline blending components, and all finished petroleum products except finished motor gasoline, distillate fuel oil, residual fuel oil, jet fuel, liquefied petroleum gases, and crude oil that is used as fuel; beginning in 2005 also includes naphtha-type jet fuel. • Geographic coverage is the 50 States and the District of Columbia.

Web Page: For annual data not displayed between 1973 and 1995, see <http://www.eia.doe.gov/emeu/mer/petro.html>.

Sources: • **1973-1975:** Bureau of Mines, Mineral Industry Surveys, *Petroleum Statement, Annual*, annual reports. • **1976-1980:** Energy Information Administration (EIA), Energy Data Reports, *Petroleum Statement, Annual*, annual reports. • **1981-2005:** EIA, *Petroleum Supply Annual*, annual reports. • **2006:** EIA, *Petroleum Supply Monthly*, monthly reports.

Petroleum

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

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

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

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

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

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

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

Beginning in January 1993, distillate fuel oil end-of-month stocks are split into two sulfur categories to meet Environmental Protection Agency requirements effective October 1992. Beginning in January 2004, distillate fuel oil and residual fuel oil stocks are both split into three categories. For further details, see the EIA, *Petroleum Supply Monthly*.

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

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

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

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

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

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

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

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

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

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

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

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

isobutane, and pentanes plus). Most of these stocks now appear in the "Liquefied Petroleum Gases Supply and Disposition" table. This change affects stocks reported and stock change calculations in each table. Under the new basis, end-of-year 1983 stocks, in million barrels, would have been: 108 for liquefied petroleum gases, 55 for propane and propylene, and 210 for other petroleum products.

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

Note 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).

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

Table	Data Series	Year Average	MER Data	PSA and PSM Data
3.1a	Natural Gas Plant Liquids Production	1976	1,604	1,603
3.1b	Exports, Total	1979	471	472
3.1b	Exports, Petroleum Products	1979	236	237
3.2a	Imports, SPR	1978	161	162
3.5	Stock Change	1974	10	9
3.5	Stock Change	1975	-41	-40
3.10	Products Supplied	1982	1,857	1,856

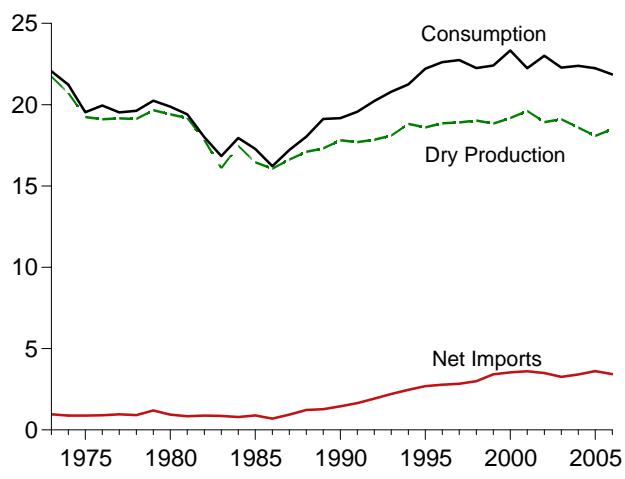
Natural Gas



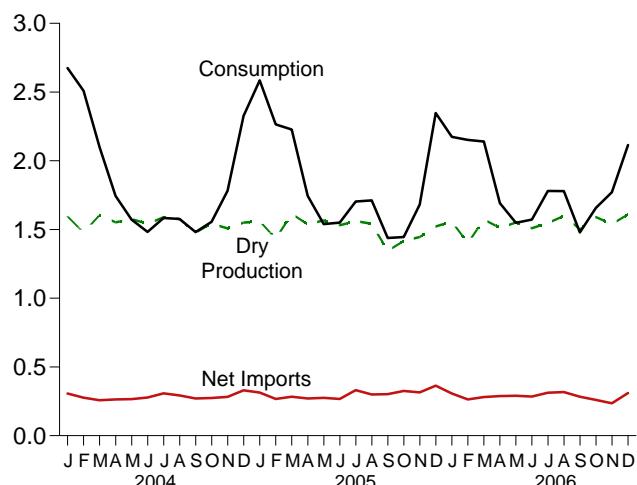
Natural gas pipeline, El Paso County, Texas. Source: U.S. Department of Energy.

Figure 4.1 Natural Gas
(Trillion Cubic Feet)

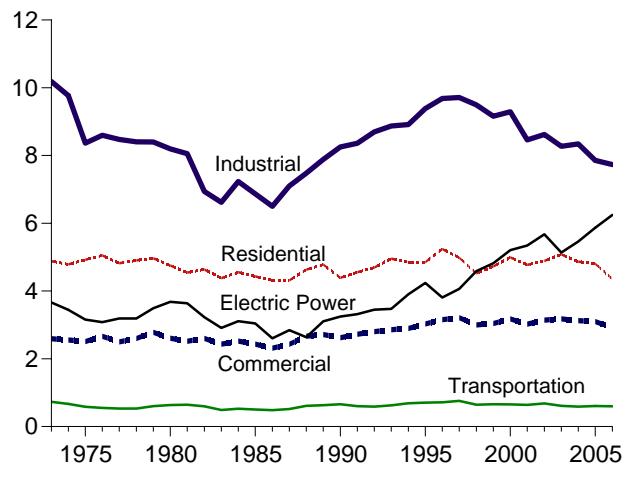
Overview, 1973-2006



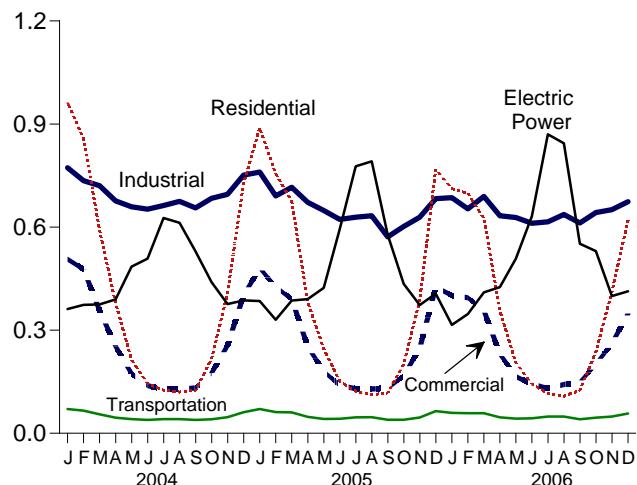
Overview, Monthly



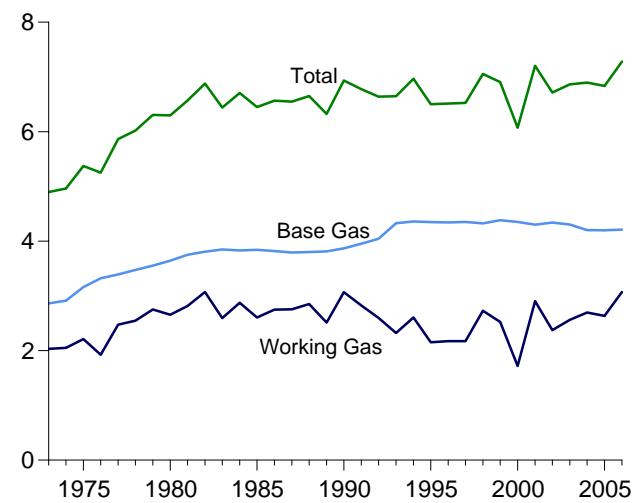
Consumption by Sector, 1973-2006



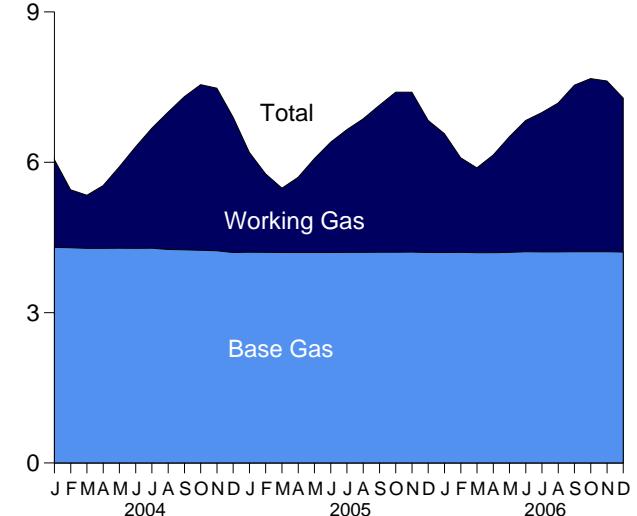
Consumption by Sector, Monthly



Underground Storage, End of Year, 1973-2006



Underground Storage, End of Month



Note: Because vertical scales differ, graphs should not be compared.
Web Page: <http://www.eia.doe.gov/emeu/mer/natgas.html>.
Sources: Tables 4.1, 4.4, and 4.5.

Table 4.1 Natural Gas Overview
(Billion Cubic Feet)

	Dry Gas Production ^a	Supplemental Gaseous Fuels ^b	Trade			Net Storage Withdrawals ^c	Balancing Item ^d	Consumption ^e
			Imports	Exports	Net Imports			
1973 Total	f21,731	NA	1,033	77	956	-442	-196	22,049
1975 Total	f19,236	NA	953	73	880	-344	-235	19,538
1980 Total	19,403	155	985	49	936	23	-640	19,877
1985 Total	16,454	126	950	55	894	235	-428	17,281
1990 Total	17,810	123	1,532	86	1,447	-513	307	g 19,174
1995 Total	18,599	110	2,841	154	2,687	415	396	22,207
1996 Total	18,854	109	2,937	153	2,784	2	860	22,610
1997 Total	18,902	103	2,994	157	2,837	24	871	22,737
1998 Total	19,024	102	3,152	159	2,993	-530	657	22,246
1999 Total	18,832	98	3,586	163	3,422	172	-119	22,405
2000 Total	19,182	90	3,782	244	3,538	829	-305	23,333
2001 Total	19,616	86	3,977	373	3,604	-1,166	99	22,239
2002 Total	18,928	68	4,015	516	3,499	468	44	23,007
2003 Total	19,099	68	3,944	680	3,264	-197	44	22,277
2004								
January	1,595	6	373	67	306	835	-68	2,674
February	1,478	6	346	70	276	617	133	2,510
March	1,605	6	349	91	258	106	124	2,100
April	1,552	5	325	62	263	-208	131	1,744
May	1,576	6	327	61	266	-391	115	1,572
June	1,542	1	342	64	278	-409	70	1,483
July	1,589	3	375	67	308	-373	57	1,584
August	1,576	5	360	67	293	-356	60	1,577
September	1,477	5	345	74	270	-333	62	1,481
October	1,543	6	336	61	274	-253	-15	1,556
November	1,509	6	369	86	282	65	-80	1,782
December	1,550	5	413	83	330	584	-143	2,326
Total	18,591	60	4,259	854	3,404	-114	448	22,389
2005								
January	1,561	4	405	91	314	730	-24	2,585
February	1,433	5	356	90	267	439	120	2,265
March	1,613	6	380	96	283	292	34	2,228
April	1,539	5	326	56	271	-222	152	1,745
May	1,566	4	334	59	275	-393	87	1,540
June	1,531	5	322	55	267	-333	80	1,551
July	1,561	5	386	55	331	-263	70	1,704
August	1,541	6	352	52	300	-220	85	1,712
September	1,344	5	346	44	302	-280	67	1,438
October	1,417	5	366	41	325	-273	-30	1,445
November	1,445	5	359	45	314	9	-92	1,681
December	1,523	6	409	45	363	565	-109	2,348
Total	18,074	64	4,341	729	3,612	51	440	22,241
2006								
January	E 1,557	6	362	56	307	264	40	2,174
February	E 1,402	6	323	59	264	485	-6	2,152
March	E 1,572	6	350	R 69	R 281	200	R 81	2,140
April	E 1,512	4	R 334	45	R 288	-254	R 142	R 1,693
May	E 1,551	3	353	63	290	-368	R 72	R 1,549
June	RE 1,509	5	350	66	285	-311	R 85	R 1,572
July	E 1,547	5	R 371	R 59	R 312	-161	R 77	R 1,781
August	E 1,600	6	R 372	55	R 318	-189	R 46	R 1,780
September	E 1,501	E 5	R 336	R 53	R 283	-357	R 47	R 1,479
October	RE 1,590	E 5	E 326	E 66	E 260	-131	R 68	R 1,657
November	E 1,540	E 5	RE 316	RE 80	RE 236	47	R 57	R 1,771
December	E 1,610	E 6	E 394	E 84	E 310	343	-155	2,114
Total	E 18,491	E 62	E 4,187	E 754	E 3,433	-431	305	21,861

^a Marketed production (wet) minus extraction loss. See Table 4.2.

^b See Note 1, "Supplemental Gaseous Fuels," at end of section.

^c Net withdrawals from underground storage. For 1980-2005, also includes net withdrawals of liquefied natural gas in above-ground tanks. See Note 2, "Storage," at end of section.

^d See Note 3, "Balancing Item," at end of section. Since 1980, excludes transit shipments that cross the U.S.-Canada border (i.e., natural gas delivered to its destination via the other country).

^e See Note 4, "Consumption," at end of section.

^f May include unknown quantities of nonhydrocarbon gases.

^g For 1989-1992, a small amount of consumption at independent power producers may be counted in both "Other Industrial" and "Electric Power Sector" on

Table 4.4. See Note 5, "Consumption, 1989-1992," at end of section.

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

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

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

Web Page: For annual data not displayed between 1973 and 1995, see <http://www.eia.doe.gov/emeu/mer/natgas.html>.

Sources: • Dry Gas Production: Table 4.2. • Supplemental Gaseous Fuels and Net Storage Withdrawals: 1973-2000—Energy Information Administration (EIA), *Natural Gas Annual*, annual reports. 2001 forward—EIA, *Natural Gas Monthly*, February 2007, Table 2. • Trade: Table 4.3. • Consumption: Table 4.4.

• Balancing Item: Calculated as consumption minus dry gas production, supplemental gaseous fuels, net imports, and net storage withdrawals.

Table 4.2 Natural Gas Production
(Billion Cubic Feet)

	Gross Withdrawals ^a	Repressuring ^b	Nonhydro-carbon Gases Removed ^c	Vented ^d and Flared ^e	Marketed Production ^f	Extraction Loss ^g	Dry Gas Production ^h
1973 Total	24,067	1,171	NA	248	i 22,648	917	i 21,731
1975 Total	21,104	861	NA	134	i 20,109	872	i 19,236
1980 Total	21,870	1,365	199	125	20,180	777	19,403
1985 Total	19,607	1,915	326	95	17,270	816	16,454
1990 Total	21,523	2,489	289	150	18,594	784	17,810
1995 Total	23,744	3,565	388	284	19,506	908	18,599
1996 Total	24,114	3,511	518	272	19,812	958	18,854
1997 Total	24,213	3,492	599	256	19,866	964	18,902
1998 Total	24,108	3,427	617	103	19,961	938	19,024
1999 Total	23,823	3,293	615	110	19,805	973	18,832
2000 Total	24,174	3,380	505	91	20,198	1,016	19,182
2001 Total	24,501	3,371	463	97	20,570	954	19,616
2002 Total	23,941	3,455	502	99	19,885	957	18,928
2003 Total	24,119	3,548	499	98	19,974	876	19,099
2004 January	2,063	326	55	8	1,674	79	1,595
February	1,921	311	52	7	1,551	74	1,478
March	2,077	329	54	8	1,685	80	1,605
April	1,995	305	53	8	1,629	77	1,552
May	2,001	285	55	7	1,654	79	1,576
June	1,966	285	54	8	1,619	77	1,542
July	2,019	287	55	8	1,668	79	1,589
August	2,017	297	57	8	1,654	79	1,576
September	1,909	299	52	8	1,550	74	1,477
October	2,009	325	55	9	1,620	77	1,543
November	1,969	322	55	9	1,584	75	1,509
December	2,024	333	56	8	1,627	77	1,550
Total	23,970	3,702	654	96	19,517	927	18,591
2005 January	2,040	328	64	11	1,637	76	1,561
February	1,876	312	52	9	1,503	70	1,433
March	2,085	327	57	9	1,691	78	1,613
April	1,979	302	55	9	1,613	75	1,539
May	2,001	288	61	10	1,642	76	1,566
June	1,967	293	59	10	1,605	74	1,531
July	1,994	287	60	10	1,637	76	1,561
August	1,985	298	61	10	1,616	75	1,541
September	1,776	298	58	10	1,409	65	1,344
October	1,882	325	61	10	1,486	69	1,417
November	1,903	317	62	10	1,515	70	1,445
December	2,001	332	62	10	1,596	74	1,523
Total	23,488	3,707	711	119	18,951	876	18,074
2006 January	E 2,012	E 313	E 63	E 8	E 1,628	70	E 1,557
February	E 1,815	E 285	E 58	E 8	E 1,465	63	E 1,402
March	E 2,033	E 314	E 67	E 9	E 1,642	70	E 1,572
April	E 1,961	E 308	E 63	E 9	E 1,582	69	E 1,512
May	E 2,003	E 306	E 64	E 9	E 1,624	73	E 1,551
June	RE 1,926	E 277	E 61	E 10	RE 1,579	70	RE 1,509
July	E 1,959	E 262	E 68	RE 10	E 1,620	73	E 1,547
August	RE 1,929	E 180	RE 68	E 9	RE 1,671	72	E 1,600
September	E 1,835	E 187	E 64	E 11	E 1,573	72	E 1,501
October	RE 2,024	RE 275	RE 74	E 10	RE 1,664	74	RE 1,590
November	RE 1,900	RE 211	RE 68	E 10	E 1,611	R 71	E 1,540
December	E 1,998	E 233	E 72	E 11	E 1,682	72	E 1,610
Total	E 23,396	E 3,151	E 791	E 112	E 19,342	851	E 18,491

^a Gas withdrawn from natural gas and crude oil wells; excludes lease condensate.

^b Natural gas injected into natural gas and crude oil formations to effect greater ultimate recovery.

^c See Note 6, "Nonhydrocarbon Gases Removed," at end of section.

^d Natural gas released into the air on the base site or at processing plants.

^e Natural gas burned in flares on the base site or at processing plants. See Note 7, "Production," at end of section.

^f Gross withdrawals minus repressuring, nonhydrocarbon gases removed, and vented and flared. See Note 7, "Production," at end of section.

^g See Note 8, "Extraction Loss," at end of section.

^h Marketed production (wet) minus extraction loss.

ⁱ May include unknown quantities of nonhydrocarbon gases.

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

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

Web Page: For annual data not displayed between 1973 and 1995, see <http://www.eia.doe.gov/emeu/mer/natgas.html>.

Sources: • **1973-2000:** Energy Information Administration (EIA), *Natural Gas Annual 2000*, Table 93. • **2001 forward:** EIA, *Natural Gas Monthly*, February 2007, Table 1.

Table 4.3 Natural Gas Trade by Country

(Billion Cubic Feet)

	Imports							Exports				
	Algeria ^a	Australia ^a	Canada ^b	Mexico ^b	Qatar ^a	Trinidad and Tobago ^a	Other ^c	Total	Canada ^b	Japan ^a	Mexico ^b	Total
1973 Total	3	0	1,028	2	0	0	0	1,033	15	48	14	77
1975 Total	5	0	948	0	0	0	0	953	10	53	9	73
1980 Total	86	0	797	102	0	0	0	985	(s)	45	4	49
1985 Total	24	0	926	0	0	0	0	950	(s)	53	2	55
1990 Total	84	0	1,448	0	0	0	0	1,532	17	53	16	86
1995 Total	18	0	2,816	7	0	0	0	2,841	28	65	61	154
1996 Total	35	0	2,883	14	0	0	5	2,937	52	68	34	153
1997 Total	66	10	2,899	17	0	0	2	2,994	56	62	38	157
1998 Total	69	12	3,052	15	0	0	5	3,152	40	66	53	159
1999 Total	76	12	3,368	55	20	51	5	3,586	39	64	61	163
2000 Total	47	6	3,544	12	46	99	28	3,782	73	66	106	244
2001 Total	65	2	3,729	10	23	98	50	3,977	167	66	141	373
2002 Total	27	0	3,785	2	35	151	16	4,015	189	63	263	516
2003 Total	53	0	3,437	0	14	378	61	3,944	271	66	343	680
2004												
January	7	0	320	0	0	43	3	373	31	5	31	67
February	8	0	297	0	0	41	0	346	38	5	27	70
March	11	0	300	0	0	38	0	349	56	6	30	91
April	8	0	279	0	3	35	0	325	33	6	24	62
May	5	3	273	0	3	36	6	327	27	2	32	61
June	16	3	285	0	0	34	4	342	24	4	36	64
July	11	6	300	0	3	38	17	375	23	6	38	67
August	22	0	301	0	0	38	0	360	23	6	39	67
September	7	0	288	0	0	41	9	345	30	7	37	74
October	8	0	288	0	3	36	0	336	22	5	34	61
November	3	0	328	0	0	38	0	369	46	6	35	86
December	14	3	349	0	0	44	3	413	43	6	34	83
Total	120	15	3,607	0	12	462	43	4,259	395	62	397	854
2005												
January	6	0	347	0	0	44	8	405	53	6	33	91
February	11	0	303	0	3	39	0	356	53	6	31	90
March	3	0	333	(s)	0	40	3	380	65	6	26	96
April	9	0	279	(s)	0	36	3	326	29	6	21	56
May	11	0	281	(s)	0	41	0	334	28	4	27	59
June	12	0	265	0	0	42	3	322	18	4	33	55
July	6	0	333	(s)	0	41	6	386	18	7	30	55
August	3	0	308	0	0	27	14	352	19	6	27	52
September	6	0	293	1	0	35	11	346	16	6	22	44
October	12	0	306	1	0	33	15	366	15	6	20	41
November	9	0	299	3	0	30	19	359	20	6	19	45
December	9	0	353	4	0	31	11	409	23	6	17	45
Total	97	0	3,700	9	3	439	92	4,341	358	65	305	729
2006												
January	3	0	R 322	1	0	30	6	362	32	6	18	56
February	3	0	283	(s)	0	28	8	323	33	6	20	59
March	3	0	316	1	0	30	0	350	37	6	R 26	R 69
April	3	0	R 275	(s)	0	36	20	R 334	16	6	24	45
May	0	0	285	(s)	0	44	23	353	21	6	36	63
June	3	0	289	0	0	39	20	350	23	6	37	66
July	3	0	R 314	0	0	33	21	R 371	R 17	6	R 37	R 59
August	0	0	R 320	0	0	37	15	R 372	17	6	32	55
September	0	0	R 292	R 3	0	25	15	R 336	23	4	R 26	R 53
October	0	0	E 290	0	0	25	12	E 326	E 31	3	E 32	E 66
November	0	0	RE 269	0	0	25	23	RE 316	RE 43	5	E 32	RE 80
December	0	0	E 343	0	0	37	15	E 394	E 47	4	E 32	E 84
Total	17	0	E 3,598	6	0	389	177	E 4,187	E 340	61	E 353	E 754

^a As liquefied natural gas.

^b By pipeline, except for very small amounts of liquefied natural gas imported from Canada in 1973, 1977, and 1981 and exported to Mexico beginning in 1998. See Note 9, "Imports and Exports," at end of section.

^c Brunei in 2002; Egypt in 2005 forward; Indonesia in 1986 and 2000; Malaysia in 1999 and 2002 forward; Nigeria in 2000 forward; Oman in 2000 forward; and United Arab Emirates in 1996-2000

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

Notes: • See Note 9, "Imports and Exports," at end of section. • Totals may

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

Web Page: For annual data not displayed between 1973 and 1995, see <http://www.eia.doe.gov/emeu/mer/natgas.html>.

Sources: • **1973-1987:** Energy Information Administration (EIA), Form FPC-14, "Annual Report for Importers and Exporters of Natural Gas."

• **1988-2000:** EIA, *Natural Gas Annual*, annual reports. • **2001 forward:** EIA, *Natural Gas Monthly*, February 2007, Tables 5 and 6; and Department of Energy, Office of Fossil Energy, "Natural Gas Imports and Exports."

Table 4.4 Natural Gas Consumption by Sector
(Billion Cubic Feet)

	End-Use Sectors										Electric Power Sector ^{f,g}	Total		
	Residential	Commercial ^a	Industrial			Transportation								
			Lease and Plant Fuel	CHP ^b	Non-CHP ^c	Total	Total	Pipelines ^d and Distribution ^e	Vehicle Fuel	Total				
1973 Total	4,879	2,597	1,496	(^h)	8,689	8,689	10,185	728	NA	728	3,660	22,049		
1975 Total	4,924	2,508	1,396	(^h)	6,968	6,968	8,365	583	NA	583	3,158	19,538		
1980 Total	4,752	2,611	1,026	(^h)	7,172	7,172	8,198	635	NA	635	3,682	19,877		
1985 Total	4,433	2,432	966	(^h)	5,901	5,901	6,867	504	NA	504	3,044	17,281		
1990 Total	4,391	2,623	1,236	1,055	5,963	7,018	8,255	660	(s)	660	3,245	ⁱ 19,174		
1995 Total	4,850	3,031	1,220	1,258	6,906	8,164	9,384	700	5	705	4,237	22,207		
1996 Total	5,241	3,158	1,250	1,289	7,146	8,435	9,685	711	6	718	3,807	22,610		
1997 Total	4,984	3,215	1,203	1,282	7,229	8,511	9,714	751	8	760	4,065	22,737		
1998 Total	4,520	2,999	1,173	1,355	6,965	8,320	9,493	635	9	645	4,588	22,246		
1999 Total	4,726	3,045	1,079	1,401	6,678	8,079	9,158	645	12	657	4,820	22,405		
2000 Total	4,996	3,182	1,151	1,386	6,757	8,142	9,293	642	13	655	5,206	23,333		
2001 Total	4,771	3,023	1,119	1,310	6,035	7,344	8,463	625	15	640	5,342	22,239		
2002 Total	4,889	3,144	1,113	1,240	6,267	7,507	8,620	667	15	682	5,672	23,007		
2003 Total	5,079	3,179	1,122	1,144	6,007	7,150	8,273	591	18	610	5,135	22,277		
2004														
January	963	507	94	101	577	678	773	69	2	70	361	2,674		
February	857	478	88	98	549	647	735	64	2	66	373	2,510		
March	591	357	95	96	530	626	721	53	2	55	375	2,100		
April	380	253	91	93	491	585	676	44	2	46	389	1,744		
May	214	173	92	101	466	567	659	39	2	41	485	1,572		
June	145	139	90	99	463	562	652	37	2	39	508	1,483		
July	125	129	93	108	462	570	663	40	2	41	626	1,584		
August	120	129	93	105	477	582	675	39	2	41	613	1,577		
September	125	132	87	98	470	569	656	37	2	39	529	1,481		
October	216	175	92	95	497	592	684	39	2	41	440	1,556		
November	407	256	90	93	512	605	695	45	2	47	376	1,782		
December	726	402	92	102	557	659	751	59	2	61	387	2,326		
Total	4,869	3,129	1,098	1,191	6,052	7,243	8,341	566	21	587	5,464	22,389		
2005														
January	889	481	96	92	571	664	760	69	2	71	385	2,585		
February	756	426	89	84	519	602	691	60	2	62	331	2,265		
March	675	390	99	90	526	617	716	59	2	61	386	2,228		
April	382	252	94	87	491	578	672	46	2	48	390	1,745		
May	246	180	95	89	465	553	649	40	2	42	423	1,540		
June	151	141	93	100	429	529	622	40	2	42	594	1,551		
July	122	130	95	110	424	534	629	45	2	46	777	1,704		
August	112	129	94	110	429	539	633	45	2	47	791	1,712		
September	118	132	84	87	401	488	572	37	2	39	578	1,438		
October	201	167	88	74	439	513	602	38	2	39	435	1,445		
November	386	248	90	75	464	539	629	44	2	46	373	1,681		
December	768	426	94	85	503	589	683	62	2	64	406	2,348		
Total	4,806	3,102	1,112	1,084	5,662	6,746	7,857	585	22	607	5,869	22,241		
2006														
January	712	401	E 95	79	511	590	686	57	2	59	316	2,174		
February	698	395	E 86	77	490	567	653	57	2	58	347	2,152		
March	625	358	E 96	84	509	593	689	56	2	58	410	2,140		
April	358	230	E 93	81	459	R 540	R 633	R 45	2	46	425	R 1,693		
May	205	165	E 95	92	R 441	R 533	R 628	41	2	43	508	R 1,549		
June	143	143	E 93	97	R 422	R 519	R 611	41	2	43	632	R 1,572		
July	116	131	E 95	112	R 409	R 520	R 615	47	2	49	870	R 1,781		
August	108	142	E 98	112	R 427	R 539	R 637	47	2	49	844	R 1,780		
September	125	149	E 92	91	R 429	R 520	R 612	39	2	41	552	R 1,479		
October	237	201	RE 98	93	R 452	R 545	R 642	R 44	2	46	530	R 1,657		
November	412	261	E 94	82	R 474	R 556	R 651	47	2	49	399	R 1,771		
December	620	349	E 99	87	488	576	674	56	2	58	413	2,114		
Total	4,359	2,925	E 1,134	1,087	5,511	6,597	7,732	575	24	599	6,247	21,861		

^a All commercial sector fuel use, including that at commercial combined-heat-and-power (CHP) and commercial electricity-only plants. See Table 7.4c for CHP fuel use.

^b Industrial combined-heat-and-power (CHP) and a small number of industrial electricity-only plants.

^c All industrial sector fuel use other than that in "Lease and Plant Fuel" and "CHP."

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

^e Natural gas used as fuel in the delivery of natural gas to consumers.

^f The electric power sector comprises electricity-only and combined-heat-and-power (CHP) plants within the NAICS 22 category whose primary business is to sell electricity, or electricity and heat, to the public.

^g Through 1988, data are for electric utilities only. Beginning in 1989, data are for electric utilities and independent power producers.

^h Included in "Non-CHP."

ⁱ For 1989-1992, a small amount of consumption at independent power producers may be counted in both "Other Industrial" and "Electric Power Sector." See Note 5, "Consumption, 1989-1992," at end of section.

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

Notes: • Data are for natural gas, plus a small amount of supplemental

gaseous fuels that cannot be identified separately. • See Note, "Classification of Power Plants Into Energy-Use Sectors," at end of Section 7. • Totals may not equal sum of components due to independent rounding. • Geographic coverage is the 50 States and the District of Columbia.

Web Page: For annual data not displayed between 1973 and 1995, see <http://www.eia.doe.gov/emeu/mer/natgas.htm>.

Sources: • Residential, Commercial, Lease and Plant Fuel, Other Industrial Total and Pipelines and Distribution: 1973-2000—Energy Information Administration (EIA), *Natural Gas Annual (NGA)*, annual reports.

2001 forward—EIA, *Natural Gas Monthly (NGM)*, February 2007, Table 3.

• Industrial CHP: Table 7.4c. • Vehicle Fuel: 1990 and 1991—EIA, *NGA 2000*, (November 2001), Table 95. 1992-1998—"Alternatives to Traditional Transportation Fuels 1999" (October 1999), Table 10, and "Alternatives to Traditional Transportation Fuels 2003" (February 2004), Table 10. Data for compressed natural gas and liquefied natural gas in gasoline-equivalent gallons were converted to cubic feet by multiplying by the motor gasoline conversion factor (see Table A3) and dividing by the natural gas end-use sectors conversion factor (see Table A4). 1999 and 2000—EIA, *NGA*, annual reports. 2001 forward—EIA, *NGM*, February 2007, Table 3.

• Electric Power Sector: 1973-1988—Table 7.3b. 1989 forward—Table 7.4b. • All Other Data: Calculated.

Table 4.5 Natural Gas in Underground Storage
(Volumes in Billion Cubic Feet)

	Natural Gas in Underground Storage, End of Period			Change in Working Gas From Same Period Previous Year		Storage Activity		
	Base Gas	Working Gas	Total ^a	Volume	Percent	Withdrawals	Injections	Net ^{b,c}
1973 Total	2,864	2,034	4,898	305	17.6	1,533	1,974	-442
1975 Total	3,162	2,212	5,374	162	7.9	1,760	2,104	-344
1980 Total	3,642	2,655	6,297	-99	-3.6	1,910	1,896	14
1985 Total	3,842	2,607	6,448	-270	-9.4	2,359	2,128	231
1990 Total	3,868	3,068	6,936	555	22.1	1,934	2,433	-499
1995 Total	4,349	2,153	6,503	-453	-17.4	2,974	2,566	408
1996 Total	4,341	2,173	6,513	19	.9	2,911	2,906	6
1997 Total	4,350	2,175	6,525	2	.1	2,824	2,800	24
1998 Total	4,326	2,730	7,056	554	25.5	2,379	2,905	-526
1999 Total	4,383	2,523	6,906	-207	-7.6	2,772	2,598	174
2000 Total	4,352	1,719	6,071	-806	-31.9	3,498	2,684	814
2001 Total	4,301	2,904	7,204	1,185	68.9	2,309	3,464	-1,156
2002 Total	4,340	2,375	6,715	-528	-18.2	3,138	2,670	468
2003 Total	4,303	2,563	6,866	187	7.9	3,099	3,292	-193
2004 January	4,301	1,751	6,052	217	14.1	875	60	815
February	4,297	1,156	5,452	292	33.8	650	48	603
March	4,283	1,058	5,342	328	45.0	272	168	104
April	4,283	1,252	5,535	357	39.8	95	299	-203
May	4,287	1,624	5,911	323	24.9	43	425	-382
June	4,284	2,023	6,307	255	14.4	36	436	-400
July	4,287	2,395	6,681	266	12.5	60	424	-364
August	4,262	2,743	7,005	307	12.6	57	405	-348
September	4,254	3,057	7,310	214	7.5	67	393	-325
October	4,246	3,302	7,548	172	5.5	63	310	-247
November	4,235	3,245	7,479	207	6.8	192	128	64
December	4,201	2,696	6,897	133	5.2	626	55	571
Total	4,201	2,696	6,897	133	5.2	3,037	3,150	-113
2005 January	4,205	1,994	6,199	243	13.9	771	58	713
February	4,204	1,564	5,769	409	35.4	487	59	429
March	4,200	1,284	5,484	226	21.3	385	100	285
April	4,200	1,499	5,699	246	19.7	72	288	-216
May	4,200	1,875	6,076	251	15.5	57	439	-383
June	4,201	2,197	6,399	175	8.6	66	390	-324
July	4,203	2,450	6,653	56	2.3	95	351	-256
August	4,203	2,662	6,865	-80	-2.9	100	314	-214
September	4,205	2,932	7,136	-125	-4.1	87	359	-273
October	4,206	3,194	7,400	-108	-3.3	74	340	-266
November	4,209	3,189	7,398	-55	-1.7	212	203	8
December	4,200	2,635	6,835	-61	-2.3	651	99	552
Total	4,200	2,635	6,835	-61	-2.3	3,057	3,002	55
2006 January	4,201	2,371	6,572	377	18.9	374	110	264
February	4,204	1,886	6,090	322	20.6	539	54	485
March	4,197	1,692	5,889	407	31.7	331	131	200
April	4,198	1,945	6,143	447	29.8	77	331	-254
May	4,202	2,310	6,512	435	23.2	52	420	-368
June	4,216	2,617	6,833	419	19.1	62	373	-311
July	4,214	2,779	6,993	329	13.4	144	305	-161
August	4,213	2,969	7,182	307	11.5	113	302	-189
September	4,215	3,323	7,539	391	13.4	37	394	-357
October	4,217	3,452	7,669	258	8.1	115	246	-131
November	4,216	3,407	7,623	217	6.8	206	159	47
December	4,211	3,070	7,281	435	16.5	441	98	343
Total	4,211	3,070	7,281	435	16.5	2,491	2,922	-431

^a For total underground storage capacity at the end of each calendar year, see Note 2, "Storage," at end of section.

^b For 1980-2005, data differ from those shown on Table 4.1, which include liquefied natural gas storage for that period.

^c Positive numbers indicate that withdrawals are greater than injections. Negative numbers indicate that injections are greater than withdrawals. Net withdrawals or injections may not equal the difference between applicable ending stocks. See Note 2, "Storage," at end of section.

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

Web Page: For annual data not displayed between 1973 and 1995, see <http://www.eia.doe.gov/emeu/mer/natgas.html>.

Sources: • **Storage Activity:** 1973-1975—Energy Information Administration (EIA), *Natural Gas Annual 1994, Volume 2*, Table 9.

1976-1979—EIA, *Natural Gas Production and Consumption 1979*, Table 1. 1980-1995—EIA, *Historical Natural Gas Annual 1930 Through 2000*, Table 11. 1996-2000—EIA, *Natural Gas Monthly (NGM)*, monthly issues. • 2001 forward—EIA, NGM, February 2007, Table 9. • **Other Data:** 1973 and 1974—American Gas Association (AGA), *Gas Facts, 1972 Data*, Table 57, *Gas Facts, 1973 Data*, Table 57, and *Gas Facts, 1974 Data*, Table 40. 1975 and 1976—Federal Energy Administration (FEA), Form FEA-G318-M-0, "Underground Gas Storage Report," and Federal Power Commission (FPC), Form FPC-8, "Underground Gas Storage Report." 1977 and 1978—EIA, Form FEA-G318-M-0, "Underground Gas Storage Report," and Federal Energy Regulatory Commission (FERC), Form FERC-8, "Underground Gas Storage Report." 1979-1995—EIA, Form EIA-191, "Underground Gas Storage Report," and FERC, Form FERC-8, "Underground Gas Storage Report." 1996-2003—EIA, NGM, monthly issues. 2004 forward—EIA, NGM, February 2007, Table 9.

Natural Gas

Note 1. Supplemental Gaseous Fuels: Any gaseous substance that, introduced into or commingled with natural gas, increases the volume available for disposition. Such substances include, but are not limited to, propane-air, refinery gas, coke oven gas, still gas, manufactured gas, biomass gas, or air or inert gases added for Btu stabilization.

Annual data beginning with 1980 are from the Energy Information Administration (EIA) *Natural Gas Annual (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.

Note 2. Storage: Natural gas in storage at the end of a reporting period may not equal the quantity derived by adding or subtracting net injections or withdrawals from the quantity in storage at the end of the previous period. The difference is due to changes in the quantity of native gas included in the base gas and/or losses in base gas due to migration from storage reservoirs.

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

1975 . . . 6,280	1986 . . . 8,145	1997 . . . 8,332
1976 . . . 6,544	1987 . . . 8,124	1998 . . . 8,179
1977 . . . 6,678	1988 . . . 8,124	1999 . . . 8,229
1978 . . . 6,890	1989 . . . 8,120	2000 . . . 8,241
1979 . . . 6,929	1990 . . . 7,794	2001 . . . 8,415
1980 . . . 7,434	1991 . . . 7,993	2002 . . . 8,207
1981 . . . 7,805	1992 . . . 7,932	2003 . . . 8,206
1982 . . . 7,915	1993 . . . 7,989	2004 . . . 8,255
1983 . . . 7,985	1994 . . . 8,043	2005 . . . 8,268
1984 . . . 8,043	1995 . . . 7,953	
1985 . . . 8,087	1996 . . . 7,980	

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

The final monthly and annual storage and withdrawal data for 1980–2004 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.

Note 3. Balancing Item: The balancing item for natural gas represents the difference between the sum of the components of natural gas supply and the sum of components of natural gas disposition. The differences may be due to quantities lost or to the effects of data reporting problems. Reporting problems include differences due to the net result of conversions of flow data metered at varying temperature and pressure bases and converted to a standard temperature and pressure base; the effect of variations in company accounting and billing practices; differences between billing cycle and calendar period time frames; and imbalances resulting from the merger of data reporting systems which vary in scope, format, definitions, and type of respondents.

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

Note 4. Consumption: Consumption includes use for lease and plant fuel, pipelines and distribution, vehicle fuel, and electric power plants, as well as deliveries to residential, commercial, and other industrial customers.

Final data for series other than “Other Industrial CHP” and “Electric Power Sector” 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*.

Note 5. Consumption, 1989-1992: Prior to 1993, deliveries to nonutility generators were not separately collected from natural gas companies on Form EIA-176, “Annual Report of Natural and Supplemental Gas Supply and Disposition.” As a result, for 1989 through 1992, those volumes are probably included in both the industrial and electric power sectors and double-counted in total consumption. In 1993, 0.28 trillion cubic feet was reported as delivered to nonutility generators.

Note 6. Nonhydrocarbon Gases Removed: Annual data on nonhydrocarbon gases removed from marketed production—carbon dioxide, helium, hydrogen sulfide, and nitrogen—are from the EIA *NGA*. Data are not available prior to 1980. Monthly data are reported by three States and computed for six States. Monthly data are preliminary until after publication of the EIA *NGA*. Differences between annual data published in the EIA *NGA* and the sum of the

preliminary monthly data (January–December) are allocated proportionally to the months to create final monthly data.

For further information on methods of estimating preliminary monthly data, see the EIA *NGM*.

Note 7. 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.

Note 8. Extraction Loss: Extraction loss is the reduction in volume of natural gas resulting from the removal of natural gas liquid constituents at natural gas processing plants.

Annual data are from the EIA *NGA*, where they are estimated on the basis of the type and quantity of liquid products extracted from the gas stream and the calculated volume of such products at standard conditions. For a

detailed explanation of the calculations used to derive estimated extraction losses, see the EIA *NGA*.

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

Monthly data are revised and considered final after the publication of the EIA *NGA*. Final monthly data are estimated by allocating annual extraction loss data to the months on the basis of total natural gas marketed production data from the EIA *NGA*.

Note 9. Imports and Exports: The United States imports natural gas via pipeline from Canada and Mexico and imports LNG via tanker from Algeria, Australia, Brunei, Indonesia, Malaysia, Nigeria, Oman, Qatar, Trinidad and Tobago, and the United Arab Emirates. In addition, very small amounts of LNG arrived from Canada in 1973 (667 million cubic feet), 1977 (572 million cubic feet), and 1981 (6 million cubic feet). The United States exports natural gas via pipeline to Canada and Mexico and exports LNG via tanker to Japan. Also, small amounts of LNG have gone to Mexico since 1998.

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

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

5

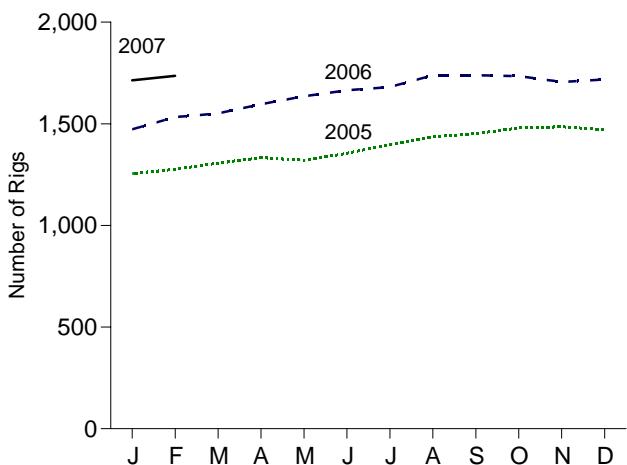
Crude Oil and Natural Gas Resource Development



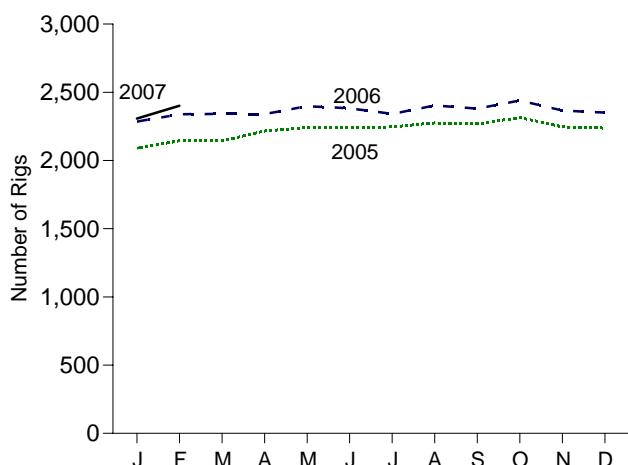
Semisubmersible drilling rig in the Gulf of Mexico. Source: U.S. Department of Energy.

Figure 5.1 Crude Oil and Natural Gas Resource Development Indicators

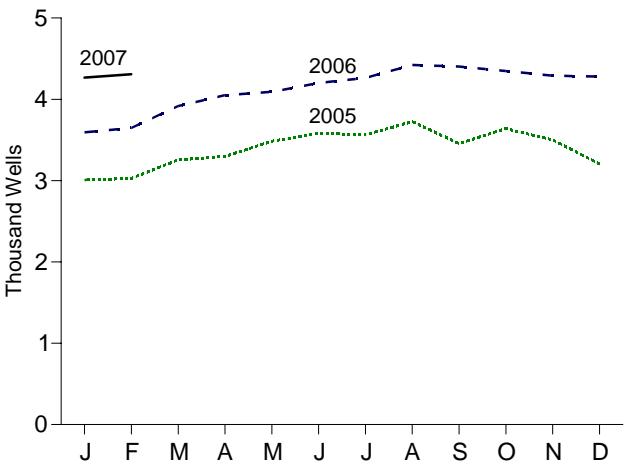
Rotary Rigs in Operation



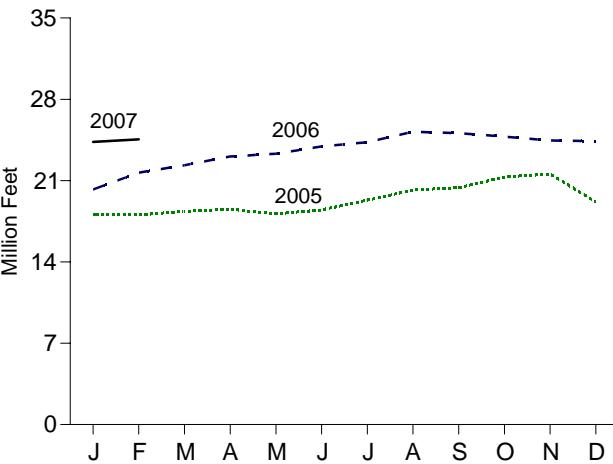
Active Well Service Rig Count



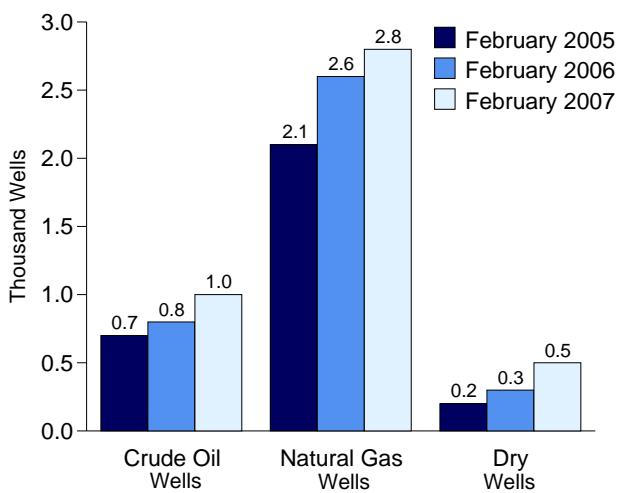
Wells Drilled



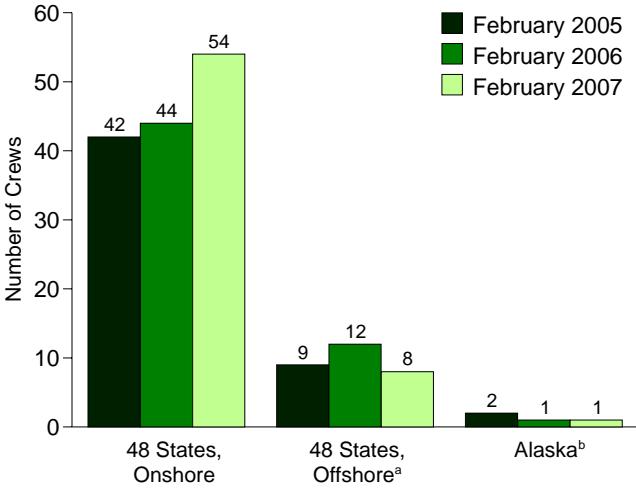
Footage Drilled



Wells Drilled by Type



Maximum U.S. Active Seismic Crew Counts



^aFederal and State Jurisdiction waters of the Gulf of Mexico.

^bAll onshore.

Web Page: <http://www.eia.doe.gov/emeu/mer/resource.html>.

Sources: Tables 5.1-5.3.

Table 5.1 Crude Oil and Natural Gas Drilling Activity Measurements
 (Number of Rigs)

	Rotary Rigs in Operation ^a					Active Well Service Rig Count ^c	
	By Site		By Type		Total ^b		
	Onshore	Offshore	Crude Oil	Natural Gas			
1973 Average	1,110	84	NA	NA	1,194	2,008	
1975 Average	1,554	106	NA	NA	1,660	2,486	
1980 Average	2,678	231	NA	NA	2,909	4,089	
1985 Average	1,774	206	NA	NA	1,980	4,716	
1990 Average	902	108	532	464	1,010	3,658	
1995 Average	622	101	323	385	723	3,041	
1996 Average	671	108	306	464	779	3,445	
1997 Average	821	122	376	564	943	3,499	
1998 Average	703	123	264	560	827	3,014	
1999 Average	519	106	128	496	625	2,232	
2000 Average	778	140	197	720	918	2,692	
2001 Average	1,003	153	217	939	1,156	2,267	
2002 Average	717	113	137	691	830	1,830	
2003 Average	924	108	157	872	1,032	1,967	
2004 Average	1,095	97	165	1,025	1,192	2,064	
2005							
January	1,153	102	178	1,075	1,255	2,091	
February	1,170	106	192	1,083	1,276	2,144	
March	1,209	97	186	1,118	1,306	2,143	
April	1,241	93	171	1,163	1,334	2,216	
May	1,229	91	150	1,170	1,320	2,242	
June	1,259	96	146	1,208	1,355	2,238	
July	1,297	101	170	1,226	1,398	2,247	
August	1,333	102	206	1,227	1,436	2,276	
September	1,360	91	210	1,236	1,452	2,268	
October	1,392	87	217	1,256	1,479	2,315	
November	1,402	84	253	1,228	1,486	2,247	
December	1,393	77	247	1,220	1,470	2,237	
Average	1,290	93	194	1,186	1,383	2,222	
2006							
January	1,396	77	242	1,228	1,473	2,285	
February	1,455	79	209	1,321	1,533	2,339	
March	1,464	88	244	1,305	1,551	2,342	
April	1,502	95	259	1,337	1,597	2,340	
May	1,536	100	261	1,373	1,635	2,398	
June	1,570	95	285	1,376	1,665	2,382	
July	1,587	94	298	1,379	1,681	2,342	
August	1,639	99	316	1,417	1,738	2,404	
September	1,646	93	305	1,429	1,739	2,380	
October	1,644	90	288	1,441	1,734	2,440	
November	1,620	87	288	1,414	1,706	2,366	
December	1,634	84	281	1,431	1,718	2,351	
Average	1,559	90	274	1,372	1,649	2,364	
2007							
January	1,630	84	270	1,440	1,714	2,307	
February	1,651	85	266	1,466	1,736	2,401	
2-Month Average	1,641	85	268	1,453	1,725	2,354	
2006 2-Month Average	1,425	78	226	1,275	1,503	2,312	
2005 2-Month Average	1,162	103	185	1,079	1,265	2,118	

^a Rotary rigs in operation are reported weekly. Monthly data are averages of 4- or 5-week reporting periods, not calendar months. Multi-month data are averages of the reported data over the covered months, not averages of the weekly data. Annual data are averages over 52 or 53 weeks, not calendar years. Published data are rounded to the nearest whole number.

^b Sum of rigs drilling for crude oil, rigs drilling for natural gas, and other rigs (not shown) drilling for miscellaneous purposes, such as service wells, injection wells, and stratigraphic tests.

^c The number of rigs doing true workovers (where tubing is pulled from the well), or doing rod string and pump repair operations, and that

are, on average, crewed and working every day of the month.

NA=Not available.

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

Web Page: For annual data not displayed between 1973 and 1995, see <http://www.eia.doe.gov/emeu/mer/resource.html>.

Sources: • **Rotary Rigs in Operation: By Site**—Baker Hughes, Inc., Houston, Texas, *Rotary Rigs Running—by State*. **By Type**—Baker Hughes, Inc., Houston, Texas, weekly phone recording. • **Active Well Service Rig Count**: Weatherford International, Ltd., Houston, Texas.

Table 5.2 Crude Oil and Natural Gas Exploratory and Development Wells

	Wells Drilled												Total Footage Drilled	
	Exploratory				Development				Total					
	Crude Oil	Natural Gas	Dry	Total	Crude Oil	Natural Gas	Dry	Total	Crude Oil	Natural Gas	Dry	Total		
Number												Thousand Feet		
1973 Total	642	1,067	5,952	7,661	9,525	5,866	4,368	19,759	10,167	6,933	10,320	27,420	138,223	
1975 Total	982	1,248	7,129	9,359	15,966	6,879	6,517	29,362	16,948	8,127	13,364	38,721	180,494	
1980 Total	1,777	2,099	9,081	12,957	31,182	15,362	11,704	58,248	32,959	17,461	20,785	71,205	316,943	
1985 Total	1,680	1,200	8,954	11,834	33,581	13,124	12,257	58,962	35,261	14,324	21,211	70,796	314,409	
1990 Total	664	693	3,793	5,150	11,781	10,433	4,703	26,917	12,445	11,126	8,496	32,067	156,204	
1995 Total	549	583	2,279	3,411	7,278	7,871	3,040	18,189	7,827	8,454	5,319	21,600	121,309	
1996 Total	496	591	2,246	3,333	8,264	8,948	3,341	20,553	8,760	9,539	5,587	23,886	133,362	
1997 Total	434	543	2,178	3,155	10,011	10,643	3,777	24,431	10,445	11,186	5,955	27,586	155,292	
1998 Total	286	510	1,649	2,445	6,693	10,617	3,156	20,466	6,979	11,127	4,805	22,911	131,137	
1999 Total	156	519	1,167	1,842	4,158	10,602	2,337	17,097	4,314	11,121	3,504	18,939	94,595	
2000 Total	267	615	1,349	2,231	7,318	15,627	2,697	25,642	7,585	16,242	4,046	27,873	136,575	
2001 Total	330	972	1,716	3,018	7,856	20,431	2,716	31,003	8,186	21,403	4,432	34,021	172,245	
2002 Total	239	701	1,283	2,223	5,987	16,027	2,327	24,341	6,226	16,728	3,610	26,564	139,973	
2003 Total	326	892	1,266	2,484	7,139	18,630	2,422	28,191	7,465	19,522	3,688	30,675	169,178	
2004 Total	368	1,323	1,200	2,891	7,438	20,493	2,274	30,205	7,806	21,816	3,474	33,096	191,803	
2005 January	33	96	104	233	618	1,966	190	2,774	651	2,062	294	3,007	18,088	
February	R 41	119	104	R 264	R 662	1,958	143	R 2,763	703	2,077	247	3,027	18,052	
March	38	132	101	271	752	2,012	220	2,984	790	2,144	321	3,255	18,348	
April	26	106	139	271	706	2,125	195	3,026	732	2,231	334	3,297	18,553	
May	41	159	109	309	809	2,085	280	3,174	850	2,244	389	3,483	18,138	
June	36	144	138	318	841	2,167	258	3,266	877	2,311	396	3,584	18,480	
July	35	111	102	248	827	2,240	248	3,315	862	2,351	350	3,563	19,312	
August	37	136	151	324	903	2,217	282	3,402	940	2,353	433	3,726	20,184	
September	44	112	97	253	725	2,259	220	3,204	769	2,371	317	3,457	20,394	
October	47	139	111	297	758	2,360	225	3,343	805	2,499	336	3,640	21,295	
November	39	141	118	298	734	2,244	225	3,203	773	2,385	343	3,501	21,574	
December	31	137	84	252	885	1,849	219	2,953	916	1,986	303	3,205	19,173	
Total	R 448	1,532	1,358	R 3,338	R 9,220	25,482	2,705	R 37,407	9,668	27,014	4,063	40,745	231,591	
2006 January	60	R 136	71	R 267	837	R 2,249	242	R 3,328	897	2,385	313	3,595	20,235	
February	R 48	119	R 89	R 256	R 727	2,446	R 219	R 3,392	775	2,565	R 308	R 3,648	21,682	
March	38	118	166	322	867	2,416	312	3,595	905	2,534	478	3,917	22,327	
April	46	121	171	338	914	2,475	323	3,712	960	2,596	494	4,050	23,085	
May	43	128	165	336	946	2,496	313	3,755	989	2,624	478	4,091	23,319	
June	47	129	169	345	1,033	2,501	322	3,856	1,080	2,630	491	4,201	23,945	
July	49	129	171	349	1,081	2,507	327	3,915	1,130	2,636	498	4,264	24,305	
August	52	133	177	362	1,146	2,575	339	4,060	1,198	2,708	516	4,422	25,205	
September	50	134	177	361	1,106	2,598	337	4,041	1,156	2,732	514	4,402	25,092	
October	48	139	173	360	1,044	2,615	329	3,988	1,092	2,754	502	4,348	24,784	
November	48	136	171	355	1,044	2,567	324	3,935	1,092	2,703	495	4,290	24,454	
December	47	137	170	354	1,018	2,583	324	3,925	1,065	2,720	494	4,279	24,391	
Total	R 576	R 1,559	R 1,870	R 4,005	R 11,763	R 30,028	R 3,711	R 45,502	12,339	31,587	R 5,581	R 49,507	282,824	
2007 January	45	139	170	354	978	2,613	323	3,914	1,023	2,752	493	4,268	R 24,328	
February	44	131	172	347	964	2,671	326	3,961	1,008	2,802	498	4,308	24,556	
2-Month Total	89	270	342	701	1,942	5,284	649	7,875	2,031	5,554	991	8,576	48,884	
2006 2-Month Total	108	255	160	523	1,564	4,695	461	6,720	1,672	4,950	621	7,243	41,917	
2005 2-Month Total	74	215	208	497	1,280	3,924	333	5,537	1,354	4,139	541	6,034	36,140	

R=Revised.

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

Exploratory and Development Wells," at end of Section 5. • Geographic coverage is the 50 States and the District of Columbia.

Web Page: For annual data not displayed between 1973 and 1995, see <http://www.eia.doe.gov/emeu/mer/resource.html>.

Sources: • **1973-1994:** Energy Information Administration (EIA) computations based on well reports submitted to the American Petroleum Institute. • **1995 forward:** EIA computations based on well reports submitted to the Information Handling Services Energy Group, Inc.

Table 5.3 Maximum U.S. Active Seismic Crew Counts
(Number of Crews)

	48 States, Onshore				48 States, Offshore ^a				Alaska ^b				Total	
	Dimensions ^c			Total ^d	Dimensions ^c			Total ^d	Dimensions ^c			Total ^d		
	2	3	4		2	3	4		2	3	4			
2001 February	6	38	1	45	8	7	0	16	0	0	0	0	61	
2002 February	9	31	0	40	9	6	0	15	1	1	0	2	57	
2003 January	8	19	1	28	8	4	0	12	0	0	0	0	40	
February	9	20	0	29	8	4	0	12	0	0	0	0	41	
March	8	20	0	28	7	4	0	11	1	1	0	2	41	
April	7	20	0	27	7	4	0	11	1	1	0	2	40	
May	7	17	0	24	8	4	0	12	1	1	0	2	38	
June	7	18	0	25	8	4	0	12	1	1	0	2	39	
July	7	21	0	28	7	4	0	11	1	1	0	2	41	
August	8	22	0	30	7	4	0	11	1	1	0	2	43	
September	8	22	0	30	7	2	0	9	0	0	0	0	39	
October	7	24	0	31	5	3	0	8	0	0	0	0	39	
November	7	24	0	31	4	3	0	7	0	0	0	0	38	
December	7	25	0	32	5	5	0	10	0	0	0	0	42	
2004 January	8	25	0	33	5	5	0	10	0	0	0	0	43	
February	8	27	0	35	5	5	0	10	0	0	0	0	45	
March	8	27	0	35	5	5	0	10	0	0	0	0	45	
April	9	27	0	36	5	4	0	9	0	0	0	0	45	
May	9	26	0	35	5	4	0	9	0	0	0	0	44	
June	9	30	0	39	4	4	0	8	0	2	0	2	49	
July	8	30	0	38	4	4	0	8	0	2	0	2	48	
August	8	31	0	39	4	4	0	8	0	2	0	2	49	
September	8	32	0	40	4	2	0	6	0	2	0	2	48	
October	8	34	0	42	2	2	0	4	0	2	0	2	48	
November	9	33	0	42	1	4	0	5	0	2	0	2	49	
December	9	32	0	41	3	4	0	7	0	2	0	2	50	
2005 January	8	33	0	41	5	4	0	9	0	2	0	2	52	
February	8	34	0	42	5	4	0	9	0	2	0	2	53	
March	6	33	0	39	6	6	0	12	0	0	0	0	51	
April	8	30	0	38	6	6	0	12	0	0	0	0	50	
May	8	34	0	42	7	6	0	13	0	0	0	0	55	
June	9	35	0	44	7	5	0	12	0	1	0	1	57	
July	8	34	0	42	6	5	0	11	0	1	0	1	54	
August	8	35	0	43	6	5	0	11	0	1	0	1	55	
September	7	37	0	44	6	5	0	11	0	1	0	1	56	
October	6	39	0	45	6	5	0	11	0	1	0	1	57	
November	5	40	0	45	6	5	0	11	0	1	0	1	57	
December	6	40	0	46	6	5	0	11	0	1	0	1	58	
2006 January	5	38	0	43	6	5	0	11	0	1	0	1	55	
February	5	39	0	44	6	6	0	12	0	1	0	1	57	
March	4	42	0	46	6	6	0	12	0	1	0	1	59	
April	4	42	0	46	5	6	0	11	0	1	0	1	58	
May	4	42	0	46	5	6	0	11	0	1	0	1	58	
June	9	35	0	44	7	5	0	12	0	1	0	1	57	
July	5	51	0	56	4	5	0	9	0	1	0	1	66	
August	4	49	0	53	3	5	0	8	0	1	0	1	62	
September	4	51	0	55	2	5	0	7	0	1	0	1	63	
October	5	51	0	56	2	5	0	7	0	1	0	1	64	
November	5	51	0	56	3	5	0	8	0	1	0	1	65	
December	5	50	0	55	3	5	0	8	0	1	0	1	64	
2007 January	3	51	0	54	3	5	0	8	0	1	0	1	63	
February	3	51	0	54	3	5	0	8	0	1	0	1	63	

^a Federal and State Jurisdiction waters of the Gulf of Mexico.

^b All onshore.

^c In **two-dimensional** (2D) reflection seismic surveying both the sound source and the sound detectors (numbering up to a hundred or more per shot) are moved along a straight line. The resultant product can be thought of as a vertical sonic cross-section of the subsurface beneath the survey line. It is constructed by summing many compressional (pressure) wave reflections from the various sound source and sound detector locations at the halfway sound path points beneath each location (common depth point stacking). In **three-dimensional** (3D) reflection seismic surveying the sound detectors (numbering up to a thousand or more) are spread out over an area and the sound source is moved from location to location through the area. The resultant product can be thought of as a cube of common depth point stacked reflections. Advantages over 2D include the additional dimension, the fact that many more reflections are available for stacking at each point, which provides greatly improved resolution of subsurface features, and elimination of the "ghost" or "side swipe" reflections from

nearby offline features that 2D surveys are prone to (except, of course, along the outer faces of the cube). **Four dimensional** (4D) reflection seismic surveying is the exact repetition of a 3D survey at two or more time intervals. The primary application of 4D is mapping the movement of fluid interfaces in producing oil and gas reservoirs.

^d Includes crews with unknown survey dimension.

Notes: • A "seismic crew" is a group of people, of varying number, engaged in a seismic surveying job. • "48 States" is the United States excluding Alaska and Hawaii. • Data are reported on the first and fifteenth of each month, except January when they are reported only on the fifteenth. When semi-monthly values differ for the month, the larger of the two values is shown here. Consequently, this table reflects the maximum number of crews at work at any time during the month.

Web Page: For monthly data beginning March 2000, see <http://www.eia.doe.gov/emeu/mer/resource.html>.

Source: *World Geophysical News*, IHS Energy Group, Denver, CO, used with permission.

Crude Oil and Natural Gas Resource Development

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

Prior to the March 1985 *MER*, drilling statistics consisted of completion data for the above types and classes of wells

as reported to the American Petroleum Institute (API) during a given month. Due to time lags between the date of well completion and the date of completion reporting to the API, as-reported well completions proved to be an inaccurate indicator of drilling activity. During 1982, for example, as-reported well completions rose, while the number of actual completions fell. Consequently, the drilling statistics published since the March 1985 *MER* are Energy Information Administration (EIA) estimates produced by statistically imputing well counts and footage based on the partial data available from the API. These estimates are subject to continuous revision as new data, some of which pertain to earlier months and years, become available. Additional information about the EIA estimation methodology may be found in “Estimating Well Completions,” the feature article published in the March 1985 *MER*.

6

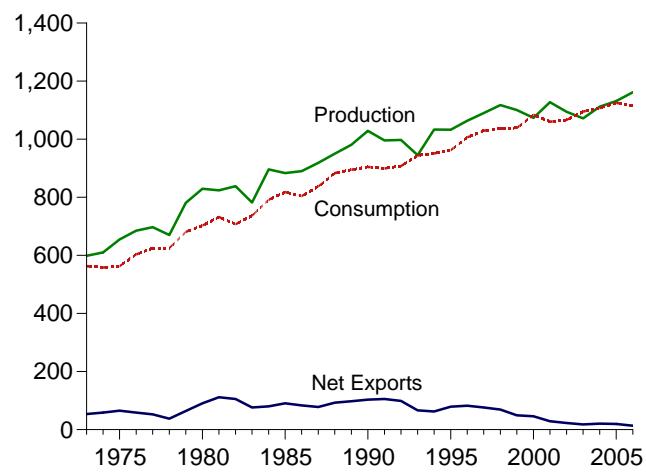
Coal



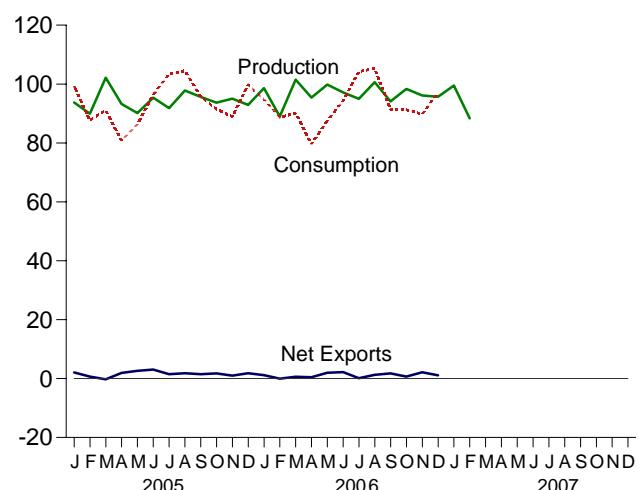
Coal yard, Curtis Bay, Maryland. Source: U.S. Department of Energy.

Figure 6.1 Coal
(Million Short Tons)

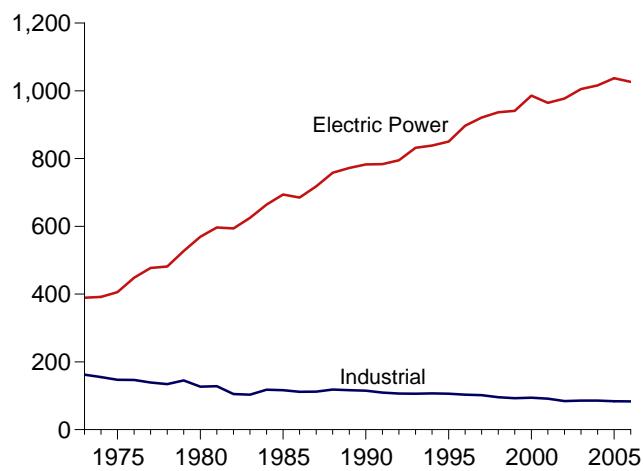
Overview, 1973-2006



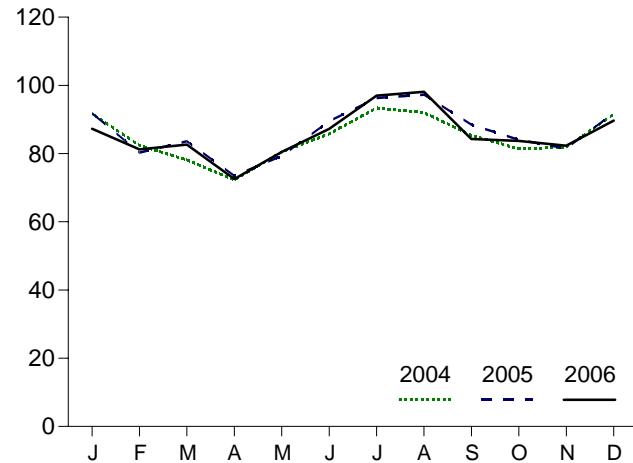
Overview, Monthly



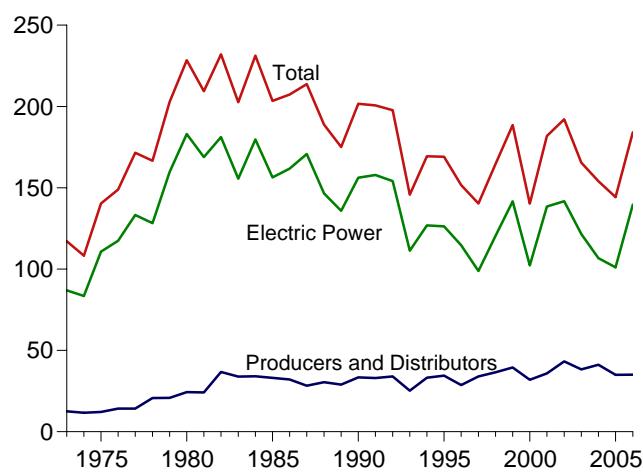
Consumption by Sector, 1973-2006



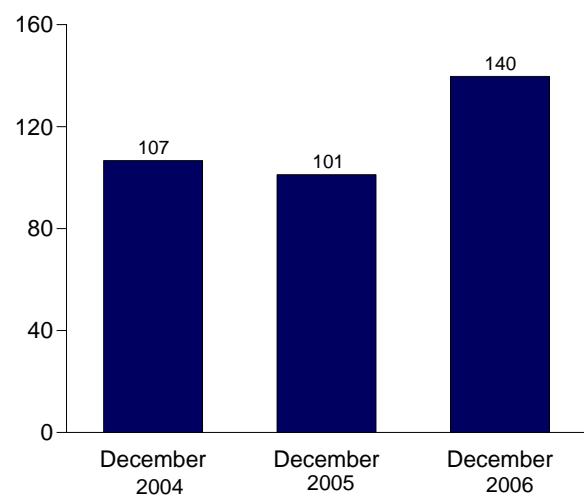
Electric Power Sector Consumption, Monthly



Stocks, End of Year, 1973-2006



Electric Power Sector Stocks, End of Month



Note: Because vertical scales differ, graphs should not be compared.
Web Page: <http://www.eia.doe.gov/emeu/mer/coal.html>.
Sources: Tables 6.1, 6.2, and 6.3.

Table 6.1 Coal Overview

(Thousand Short Tons)

	Production ^a	Waste Coal Supplied ^b	Trade			Stock Change ^d	Losses and Unaccounted for ^e	Consumption
			Imports	Exports	Net Imports ^c			
1973 Total	598,568	NA	127	53,587	-53,460	(f)	-17,476	562,584
1975 Total	654,641	NA	940	66,309	-65,369	32,154	-5,522	562,640
1980 Total	829,700	NA	1,194	91,742	-90,548	25,595	10,827	702,730
1985 Total	883,638	NA	1,952	92,680	-90,727	-27,934	2,796	818,049
1990 Total	1,029,076	3,339	2,699	105,804	-103,104	26,542	-1,730	904,498
1995 Total	1,032,974	8,561	9,473	88,547	-79,074	-275	632	962,104
1996 Total	1,063,856	8,778	8,115	90,473	-82,357	-17,456	1,411	1,006,321
1997 Total	1,089,932	8,096	7,487	83,545	-76,058	-11,253	3,678	1,029,544
1998 Total	1,117,535	8,690	8,724	78,048	-69,324	24,228	-4,430	1,037,103
1999 Total	1,100,431	8,683	9,089	58,476	-49,387	23,988	-2,906	1,038,647
2000 Total	1,073,612	9,089	12,513	58,489	-45,976	-48,309	938	1,084,095
2001 Total	1,127,689	10,085	19,787	48,666	-28,879	41,630	7,120	1,060,146
2002 Total	1,094,283	9,052	16,875	39,601	-22,726	10,215	4,040	1,066,355
2003 Total	1,071,753	10,016	25,044	43,014	-17,970	-26,659	-4,403	1,094,861
2004								
January	93,684	905	1,748	3,447	-1,699	-9,755	2,839	99,808
February	86,772	834	1,789	2,276	-487	-3,602	488	90,233
March	95,036	880	1,788	3,965	-2,177	5,512	2,151	86,076
April	91,892	835	2,157	5,359	-3,201	8,628	1,253	79,645
May	87,350	795	2,232	4,910	-2,678	3,306	-5,533	87,694
June	95,093	689	2,464	4,987	-2,522	-2,965	3,250	92,976
July	92,427	863	2,531	3,957	-1,426	-9,077	278	100,664
August	95,382	785	2,494	4,067	-1,573	-3,687	-1,038	99,319
September	93,675	792	2,779	4,178	-1,399	-2,139	2,659	92,548
October	92,763	810	2,678	3,358	-681	5,521	-1,655	89,026
November	92,419	1,387	2,258	3,144	-885	3,098	155	89,667
December	95,606	1,722	2,361	4,350	-1,989	-6,302	2,041	99,599
Total	1,112,099	11,299	27,280	47,998	-20,718	-11,462	6,887	1,107,255
2005								
January	93,728	1,013	2,014	4,075	-2,061	-10,166	3,503	99,344
February	89,926	1,051	2,315	3,008	-693	-1,889	4,499	87,674
March	102,147	1,144	3,277	3,046	231	8,324	4,093	91,106
April	93,271	948	2,376	4,294	-1,917	9,152	2,328	80,822
May	90,151	1,049	2,402	5,010	-2,607	5,279	-3,023	86,338
June	95,371	1,092	2,454	5,499	-3,045	-3,279	225	96,472
July	91,841	1,330	2,681	4,147	-1,466	-9,995	-1,690	103,391
August	97,824	1,308	2,387	4,219	-1,831	-9,370	2,158	104,513
September	95,628	1,190	2,764	4,254	-1,491	-905	569	95,664
October	93,688	1,071	2,486	4,251	-1,765	2,378	-824	91,440
November	95,021	899	2,220	3,222	-1,001	6,922	-977	88,974
December	92,901	1,257	3,081	4,918	-1,836	-6,152	-1,265	99,739
Total	1,131,498	13,352	30,460	49,942	-19,482	-9,702	9,594	1,125,476
2006								
January	R 98,616	1,215	3,031	4,187	-1,155	R 1,852	R 2,059	94,764
February	R 89,030	1,054	2,715	2,656	60	R 1,896	R -416	R 88,664
March	R 101,485	1,203	3,211	3,817	-606	R 6,512	R 5,416	R 90,155
April	R 95,399	R 1,043	3,030	3,481	-451	R 15,504	R 891	R 79,595
May	R 99,827	R 893	2,742	4,736	-1,995	R 6,072	R 5,083	R 87,570
June	R 97,141	R 1,115	2,185	4,373	-2,188	R 2,895	R -1,176	R 94,349
July	R 94,985	1,213	3,181	3,331	-150	R 4,894	R -3,278	R 104,220
August	R 100,644	1,282	3,849	5,093	-1,244	-6,727	R 2,121	R 105,287
September	R 94,137	1,061	3,370	5,115	-1,745	239	R 1,842	R 91,372
October	R 98,377	R 1,149	3,214	3,908	-694	R 9,456	R -1,918	R 91,295
November	R 96,124	R 1,157	2,630	4,768	-2,139	R 7,379	R -1,983	R 89,745
December	R 95,679	R 1,179	3,089	4,182	-1,093	R -316	R -1,079	R 97,160
Total	R 1,161,444	R 13,564	36,246	49,647	-13,401	R 39,867	R 7,564	R 1,114,176
2007								
January	99,512	NA	NA	NA	NA	NA	NA	NA
February	88,337	NA	NA	NA	NA	NA	NA	NA
2-Month Total	187,849	NA	NA	NA	NA	NA	NA	NA
2006 2-Month Total	187,646	2,269	5,747	6,842	-1,096	3,748	1,643	183,428
2005 2-Month Total	183,655	2,063	4,330	7,083	-2,753	-12,055	8,002	187,018

^a Beginning in 2001, includes a small amount of refuse recovery (coal recaptured from a refuse mine, and cleaned to reduce the concentration of noncombustible materials).

^b Waste coal (including fine coal, coal obtained from a refuse bank or slurry dam, anthracite culm, bituminous gob, and lignite waste) consumed by the electric power and industrial sectors. Beginning in 1989, waste coal supplied is counted as a supply-side item to balance the same amount of waste coal included in "Consumption."

^c Net imports equal imports minus exports. Minus sign indicates exports are greater than imports.

^d A negative value indicates a decrease in stocks; a positive value indicates an increase.

^e "Losses and Unaccounted for" is calculated as the sum of production, imports, and waste coal supplied, minus exports, stock change, and

consumption.

^f In 1973, stock change is included in "Losses and Unaccounted for."

R=Revised. NA=Not available.

Notes: • For methodology used to calculate production, consumption, and stocks, see Note 1, "Production," Note 2, "Consumption," and Note 3, "Stocks," at end of section. • Data values preceded by "F" are derived from the Energy Information Administration's Short-Term Integrated Forecasting System. See Note 4, "Forecast Values," at end of section.

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

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

Web Page: For annual data not displayed between 1973 and 1995, see <http://www.eia.doe.gov/emeu/mer/coal.html>.

Sources: See end of section.

Table 6.2 Coal Consumption by Sector
(Thousand Short Tons)

	End-Use Sectors											Electric Power Sector ^{e,f}	Total		
	Residential	Commercial			Industrial				Trans- portation						
		CHP ^a	Other ^b	Total	Coke Plants	CHP ^c	Non-CHP ^d	Total	Total	Total					
1973 Total	4,113	(g)	7,004	7,004	94,101	(h)	68,038	68,038	162,139	116	389,212	562,584			
1975 Total	2,823	(g)	6,587	6,587	83,598	(h)	63,646	63,646	147,244	24	405,962	562,640			
1980 Total	1,355	(g)	5,097	5,097	66,657	(h)	60,347	60,347	127,004	(h)	569,274	702,730			
1985 Total	1,711	(g)	6,068	6,068	41,056	(h)	75,372	75,372	116,429	(h)	693,841	818,049			
1990 Total	1,345	1,191	4,189	5,379	38,877	27,781	48,549	76,330	115,207	(h)	782,567	904,498			
1995 Total	755	1,419	3,633	5,052	33,011	29,363	43,693	73,055	106,067	(h)	850,230	962,104			
1996 Total	721	1,660	3,625	5,285	31,706	29,434	42,254	71,689	103,395	(h)	896,921	1,006,321			
1997 Total	711	1,738	4,015	5,752	30,203	29,853	41,661	71,515	101,718	(h)	921,364	1,029,544			
1998 Total	534	1,443	2,879	4,322	28,189	28,553	38,887	67,439	95,628	(h)	936,619	1,037,103			
1999 Total	585	1,490	2,803	4,293	28,108	27,763	36,975	64,738	92,846	(h)	940,922	1,038,647			
2000 Total	454	1,547	2,126	3,673	28,939	28,031	37,177	65,208	94,147	(h)	985,821	1,084,095			
2001 Total	481	1,448	2,441	3,888	26,075	25,755	39,514	65,268	91,344	(h)	964,433	1,060,146			
2002 Total	533	1,405	2,506	3,912	23,656	26,232	34,515	60,747	84,403	(h)	977,507	1,066,355			
2003 Total	551	1,816	1,869	3,685	24,248	24,846	36,415	61,261	85,509	(h)	1,005,116	1,094,861			
2004															
January	79	202	376	578	1,996	2,465	2,978	5,443	7,439	(h)	91,712	99,808			
February	63	184	281	465	1,829	2,213	3,262	5,475	7,304	(h)	82,401	90,233			
March	42	181	128	308	2,080	2,177	3,319	5,495	7,575	(h)	78,150	86,076			
April	51	141	234	375	2,023	2,080	2,858	4,938	6,961	(h)	72,258	79,645			
May	37	152	116	268	1,974	2,147	2,816	4,962	6,936	(h)	80,454	87,694			
June	35	152	106	258	1,934	2,229	2,732	4,961	6,895	(h)	85,787	92,976			
July	48	154	198	353	1,918	2,370	2,594	4,964	6,882	(h)	93,381	100,664			
August	41	154	148	302	1,996	2,253	2,720	4,973	6,969	(h)	92,006	99,319			
September	34	142	104	246	1,979	2,084	2,858	4,941	6,920	(h)	85,348	92,548			
October	36	131	130	261	2,002	2,153	3,194	5,347	7,349	(h)	81,380	89,026			
November	58	158	264	422	1,937	2,122	3,224	5,346	7,283	(h)	81,904	89,667			
December	91	165	504	669	2,003	2,321	3,028	5,349	7,352	(h)	91,487	99,599			
Total	615	1,917	2,590	4,507	23,670	26,613	35,582	62,195	85,865	(h)	1,016,268	1,107,255			
2005															
January	55	192	254	446	1,865	2,252	2,937	5,188	7,054	(h)	91,789	99,344			
February	43	168	178	346	1,778	2,114	3,088	5,202	6,980	(h)	80,305	87,674			
March	41	173	161	333	1,941	2,222	2,968	5,190	7,131	(h)	83,601	91,106			
April	35	135	150	285	2,208	2,023	2,768	4,791	6,999	(h)	73,503	80,822			
May	28	136	90	226	1,931	1,990	2,856	4,847	6,778	(h)	79,306	86,338			
June	30	158	82	240	1,908	2,118	2,679	4,798	6,705	(h)	89,498	96,472			
July	35	166	119	285	1,882	2,260	2,656	4,917	6,798	(h)	96,272	103,391			
August	34	161	110	271	2,018	2,254	2,652	4,906	6,924	(h)	97,284	104,513			
September	24	148	46	194	2,109	2,135	2,703	4,838	6,947	(h)	88,498	95,664			
October	27	138	77	215	2,007	2,115	3,045	5,160	7,167	(h)	84,032	91,440			
November	41	157	177	333	1,832	2,116	3,121	5,237	7,068	(h)	81,531	88,974			
December	71	190	388	578	1,954	2,275	2,992	5,268	7,222	(h)	91,867	99,739			
Total	464	1,922	1,832	3,753	23,434	25,875	34,465	60,340	83,774	(h)	1,037,485	1,125,476			
2006															
January	47	190	189	379	1,879	2,256	R 2,917	5,172	R 7,051	(h)	87,287	94,764			
February	50	172	235	407	1,830	2,067	R 3,069	5,136	6,965	(h)	81,241	R 88,664			
March	42	173	167	340	2,005	2,201	R 2,948	R 5,149	R 7,155	(h)	82,618	R 90,155			
April	35	134	152	286	1,862	2,008	R 2,873	R 4,881	R 6,743	(h)	72,531	R 79,595			
May	29	139	93	233	1,968	2,051	R 2,832	R 4,883	R 6,851	(h)	80,457	R 87,570			
June	29	149	83	232	1,939	2,126	R 2,778	R 4,904	R 6,843	(h)	87,246	R 94,349			
July	38	166	142	308	1,933	2,259	R 2,703	R 4,962	R 6,895	(h)	96,979	R 104,220			
August	33	166	101	267	1,911	2,269	R 2,698	R 4,967	R 6,878	(h)	98,109	R 105,287			
September	22	140	36	176	1,939	2,103	R 2,863	R 4,966	R 6,904	(h)	84,270	R 91,372			
October	R 33	139	R 128	R 267	R 2,094	2,163	R 3,031	R 5,195	R 7,289	(h)	83,706	R 91,295			
November	R 44	163	R 191	R 353	R 1,865	2,103	R 3,054	R 5,157	R 7,022	(h)	82,326	R 89,745			
December	63	186	320	506	1,733	2,190	2,985	5,175	6,908	(h)	89,684	97,160			
Total	464	1,917	1,836	3,753	22,957	25,796	34,751	60,547	83,505	(h)	1,026,454	1,114,176			

^a Commercial combined-heat-and-power (CHP) and a small number of commercial electricity-only plants, such as those at hospitals and universities. See note at end of Section 7.

^b All commercial sector fuel use other than that in "Commercial CHP."

^c Industrial combined-heat-and-power (CHP) and a small number of industrial electricity-only plants. See note at end of Section 7.

^d All industrial sector fuel use other than that in "Coke Plants" and "Industrial CHP."

^e The electric power sector comprises electricity-only and combined-heat-and-power (CHP) plants within the NAICS 22 category whose primary business is to sell electricity, or electricity and heat, to the public.

^f Through 1988, data are for consumption at electric utilities only. Beginning in 1989, data also include consumption at independent power producers.

^g Included in "Commercial Other."

^h Included in "Industrial Non-CHP."

R=Revised.

Notes: • CHP monthly values are from Table 7.4c; electric power sector monthly values are from Table 7.4b; all other monthly values are estimates derived from collected quarterly and annual data. See Note 2, "Consumption," at end of section. • Data values preceded by "F" are derived from the Energy Information Administration's Short-Term Integrated Forecasting System. See Note 4, "Forecast Values," at end of section. • Totals may not equal sum of components due to independent rounding. • Geographic coverage is the 50 States and the District of Columbia.

Web Page: For annual data not displayed between 1973 and 1995, see <http://www.eia.doe.gov/emeu/mer/coal.html>.

Sources: See end of section.

Table 6.3 Coal Stocks by Sector

(Thousand Short Tons)

	Producers and Distributors	End-Use Sectors					Electric Power Sector ^{b,c}	Total		
		Residential and Commercial	Industrial			Total				
			Coke Plants	Other ^a	Total					
1973 Year	12,530	290	6,998	10,370	17,368	17,658	86,967	117,155		
1975 Year	12,108	233	8,797	8,529	17,326	17,559	110,724	140,391		
1980 Year	24,379	NA	9,067	11,951	21,018	21,018	183,010	228,407		
1985 Year	33,133	NA	3,420	10,438	13,857	13,857	156,376	203,367		
1990 Year	33,418	NA	3,329	8,716	12,044	12,044	156,166	201,629		
1995 Year	34,444	NA	2,632	5,702	8,334	8,334	126,304	169,083		
1996 Year	28,648	NA	2,667	5,688	8,355	8,355	114,623	151,627		
1997 Year	33,973	NA	1,978	5,597	7,576	7,576	98,826	140,374		
1998 Year	36,530	NA	2,026	5,545	7,571	7,571	120,501	164,602		
1999 Year	39,475	NA	1,943	5,569	7,511	7,511	c 141,604	188,590		
2000 Year	31,905	NA	1,494	4,587	6,081	6,081	102,296	140,282		
2001 Year	35,900	NA	1,510	6,006	7,516	7,516	138,496	181,912		
2002 Year	43,257	NA	1,364	5,792	7,156	7,156	141,714	192,127		
2003 Year	38,277	NA	905	4,718	5,623	5,623	121,567	165,468		
2004										
January	38,477	NA	1,020	4,458	5,478	5,478	111,758	155,712		
February	39,069	NA	1,134	4,197	5,332	5,332	107,709	152,110		
March	39,305	NA	1,249	3,937	5,186	5,186	113,131	157,622		
April	39,812	NA	1,278	4,056	5,334	5,334	121,104	166,251		
May	40,335	NA	1,307	4,175	5,482	5,482	123,739	169,556		
June	40,698	NA	1,336	4,294	5,630	5,630	120,263	166,591		
July	40,117	NA	1,289	4,482	5,771	5,771	111,625	157,514		
August	39,852	NA	1,242	4,671	5,913	5,913	108,062	153,827		
September	39,425	NA	1,196	4,859	6,055	6,055	106,209	151,688		
October	39,963	NA	1,245	4,853	6,098	6,098	111,148	157,209		
November	40,866	NA	1,294	4,848	6,142	6,142	113,299	160,307		
December	41,151	NA	1,344	4,842	6,186	6,186	106,669	154,006		
2005										
January	40,085	NA	1,512	4,728	6,241	6,241	97,514	143,840		
February	37,596	NA	1,681	4,615	6,295	6,295	98,059	141,951		
March	38,698	NA	1,849	4,501	6,350	6,350	105,226	150,275		
April	36,808	NA	2,019	4,681	6,700	6,700	115,919	159,427		
May	37,754	NA	2,189	4,860	7,050	7,050	119,902	164,706		
June	38,422	NA	2,440	5,040	7,480	7,480	115,524	161,427		
July	38,147	NA	2,447	5,206	7,653	7,653	105,631	151,432		
August	35,357	NA	2,454	5,372	7,826	7,826	98,879	142,062		
September	34,965	NA	2,461	5,538	7,999	7,999	98,192	141,156		
October	34,251	NA	2,512	5,552	8,065	8,065	101,218	143,534		
November	35,752	NA	2,564	5,567	8,131	8,131	106,573	150,456		
December	34,971	NA	2,615	5,582	8,196	8,196	101,137	144,304		
2006										
January	33,486	NA	2,661	R 5,427	R 8,088	R 8,088	104,582	R 146,156		
February	34,947	NA	2,708	R 5,272	R 7,980	R 7,980	105,125	R 148,052		
March	35,113	NA	2,754	R 5,118	R 7,872	R 7,872	111,579	R 154,564		
April	37,489	NA	2,783	R 5,297	R 8,079	R 8,079	124,499	R 170,068		
May	34,587	NA	2,811	R 5,476	R 8,287	R 8,287	133,266	R 176,140		
June	35,307	NA	2,839	R 5,655	R 8,494	R 8,494	135,234	R 179,035		
July	38,147	NA	2,817	R 5,816	R 8,633	R 8,633	127,361	R 174,141		
August	35,357	NA	2,795	R 5,977	R 8,772	R 8,772	123,285	R 167,414		
September	33,170	NA	2,772	R 6,138	R 8,910	R 8,910	125,572	R 167,653		
October	34,251	NA	2,824	R 6,261	R 9,085	R 9,085	133,772	R 177,108		
November	35,752	NA	R 2,876	R 6,383	R 9,259	R 9,259	139,476	R 184,487		
December	35,058	NA	2,928	6,506	9,434	9,434	139,679	184,171		

^a Through 1977, data are for stocks held by the manufacturing and transportation sectors. Beginning in 1978, data are for stocks held at manufacturing plants only.

^b The electric power sector comprises electricity-only and combined-heat-and-power (CHP) plants within the NAICS 22 category whose primary business is to sell electricity, or electricity and heat, to the public.

^c Through 1998, data are for stocks at electric utilities only. Beginning in 1999, data also include stocks at independent power producers.

R=Revised. NA=Not available.

Notes: • Stocks are at end of period. • Producers and distributors monthly values are estimates derived from collected annual data; industrial sector monthly

values are estimates derived from collected quarterly data; electric power sector monthly values are from Table 7.5. See Note 3, "Stocks," at end of section.

• Data values preceded by "F" are derived from the Energy Information Administration's Short-Term Integrated Forecasting System. See Note 4, "Forecast Values," at end of section. • Totals may not equal sum of components due to independent rounding. • Geographic coverage is the 50 States and the District of Columbia.

Web Page: For annual data not displayed between 1973 and 1995, see <http://www.eia.doe.gov/emeu/mer/coal.html>.

Sources: See end of section.

Coal

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

When preliminary quarterly data become available, the monthly and weekly estimates are adjusted to conform to the quarterly figure. The adjustment procedure uses State-level production data and is explained in EIA's *Quarterly Coal Report*. Initial estimates of annual production published in January of the following year are based on preliminary production data covering the first nine 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.

Note 2. Consumption: Coal consumption data are reported by major end-use sector. Forecast data (designated by an "F") are derived from forecasted values shown in the Energy Information Administration (EIA) *Short-Term Energy Outlook* (DOE/EIA-0202) table titled "U.S. Coal Supply and Demand: Base Case." The monthly estimates are based on the quarterly values, which are released in March, June, September, and December. The estimates are revised quarterly as collected data become available from the data sources. Sector-specific information follows.

Residential and Commercial—Coal consumption by the residential and commercial sectors is reported to EIA for the two sectors combined; EIA estimates the amount consumed by the sectors individually. To create the estimates, it is first assumed that an occupied coal-heated housing unit consumes fuel at the same Btu rate as an oil-heated housing

unit. Then, for the years in which data are available on the number of occupied housing units by heating source (1973–1981 and subsequent odd-numbered years), residential consumption of coal is estimated by the following steps: a ratio is created of the number of occupied housing units heated by coal to the number of occupied housing units heated by oil; that ratio is then multiplied by the Btu quantity of oil consumed by the residential sector to derive an estimate of the Btu quantity of coal consumed by the residential sector; and, finally, the amount estimated as the residential sector consumption is subtracted from the residential and commercial sectors' combined consumption to derive the commercial sector's estimated consumption. The 2005 share is applied to 2006, and the other missing years' shares are interpolated.

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

Industrial Other—Prior to 1978, monthly consumption data for the other industrial sector (all industrial users minus coke plants) were derived by using reported data to modify baseline consumption figures from the most recent Bureau of the Census Annual Survey of Manufactures or Census of Manufactures. For 1978 and 1979, monthly estimates were derived from data reported on Forms EIA-3 and EIA-6. From 1980–1987, monthly figures were estimated by proportioning quarterly data by using the ratios of monthly-to-quarterly consumption data in 1979, the last year in which monthly data were reported on Form EIA-3. Quarterly consumption data were derived by adding beginning stocks at manufacturing plants to current receipts and subtracting ending stocks at manufacturing plants. In this calculation, current receipts were the greater of either reported receipts from manufacturing plants (Form EIA-3) or reported shipments to the other industrial sector (Form EIA-6), thereby ensuring that agriculture, forestry, fishing, mining, and construction consumption data were included where appropriate. Starting in January 1988, monthly consumption for the other industrial sector is estimated from reported quarterly data by using ratios derived from industrial production indices published by the Board of Governors of the Federal Reserve System. Indices for six major industry groups are used as the basis for calculating the ratios: food manufacturing, which is North American Industry Classification System (NAICS) code 333; paper manufacturing, NAICS 322; chemical manufacturing, NAICS 325; petroleum and coal products, NAICS 324; nonmetallic mineral products manufacturing, NAICS 327;

and primary metal manufacturing, NAICS 331. 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 Power Sector—Monthly consumption data for electric power plants are taken directly from reported data.

Note 3. Stocks: Coal stocks data are reported by major end-use sector. Forecast data for the most recent months (designated by an “F”) are derived from forecasted values shown in the Energy Information Administration (EIA) *Short-Term Energy Outlook* (DOE/EIA-0202) table titled “U.S. Coal Supply and Demand: Base Case.” The monthly estimates are based on the quarterly values (released in March, June, September, and December) or annual values. The estimates are revised as collected data become available from the data sources. Sector-specific information follows.

Producers and Distributors—Prior to 1998, quarterly stocks at producers and distributors were taken directly from reported data. Monthly data were estimated by using one-third of the current quarterly change to indicate the monthly change in stocks. Beginning in 1998, end-of-year stocks are taken from reported data. Monthly stocks are estimated by a model.

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

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

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

Electric Power Sector—Monthly stocks data at electric power plants are taken directly from reported data.

Note 4. Forecast Values: Data values preceded by “F” in this section are forecast values. They are derived from EIA’s Short-Term Integrated Forecasting System (STIFS). The

model is driven primarily by data and assumptions about key macroeconomic variables, the world oil price, and weather. The coal forecast relies on other variables as well, such as alternative fuel prices (natural gas and oil) and power generation by sources other than fossil fuels, including nuclear and hydroelectric power. Each month, EIA staff review the model output and make adjustments, if appropriate, based on their knowledge of developments in the coal industry.

The STIFS model results are published monthly in EIA’s *Short-Term Energy Outlook*, which is accessible on the Web at <http://www.eia.doe.gov>. Documentation for the model and instructions for downloading and operating it on a personal computer are provided.

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

Table 6.1 Sources

Production

1973–September 1977: U.S. Department of the Interior, Bureau of Mines, *Minerals Yearbook* and *Minerals Industry Surveys*.

October 1977 forward: Energy Information Administration (EIA), *Weekly Coal Production*.

Waste Coal Supplied

1989–1997: EIA, Form EIA-867, “Annual Nonutility Power Producer Report.”

1998–2000: EIA, Form EIA-860B, “Annual Electric Generator Report—Nonutility.”

2001–2003: EIA, Form EIA-906, “Power Plant Report,” and Form EIA-3, “Quarterly Coal Consumption and Quality Report—Manufacturing Plants.”

2004 forward: EIA, Form EIA-906, “Power Plant Report,” Form EIA-920, “Combined Heat and Power Plant Report,” and Form EIA-3, “Quarterly Coal Consumption and Quality Report—Manufacturing Plants”; and for forecast values, EIA, Short-Term Integrated Forecasting System.

Imports and Exports

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

Stock Change

Calculated from data in Table 6.3.

Losses and Unaccounted for

Calculated as the sum of production, imports, and waste coal supplied, minus exports, stock change, and consumption.

Consumption

Table 6.2.

Table 6.2 Sources

Residential and Commercial Total

Coal consumption by the residential and commercial sectors combined is reported to the Energy Information Administration (EIA). EIA estimates the sectors individually using the method described in Note 2, "Consumption," at the end of Section 6. Data for the residential and commercial sectors combined are from:

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."

1980–1997: EIA, Form EIA-6, "Coal Distribution Report," quarterly.

1998 forward: DOI, Mine Safety and Health Administration, Form 7000-2, "Quarterly Mine Employment and Coal Production"; and, for forecast values, EIA, Short-Term Integrated Forecasting System.

Commercial CHP

Table 7.4c.

Commercial Other

Calculated as "Commercial Total" minus "Commercial CHP."

Industrial Coke Plants

1973–September 1977: DOI, BOM, *Minerals Yearbook* and *Minerals Industry Surveys*.

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

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

1985 forward: EIA, Form EIA-5, "Coke Plant Report—Quarterly"; and, for forecast values, EIA, Short-Term Integrated Forecasting System.

Other Industrial Total

1973–September 1977: DOI, BOM, *Minerals Yearbook* and *Minerals Industry Surveys*.

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

1980–1997: EIA, Form EIA-3, "Quarterly Coal Consumption Report—Manufacturing Plants," and Form EIA-6, "Coal Distribution Report," quarterly.

1998 forward: EIA, Form EIA-3, "Quarterly Coal Consumption Report—Manufacturing Plants," and Form EIA-6A, "Coal Distribution Report," annual; and, for forecast values, EIA, Short-Term Integrated Forecasting System.

Other Industrial CHP

Table 7.4c.

Other Industrial Non-CHP

Calculated as "Other Industrial Total" minus "Other Industrial CHP."

Transportation

1973–1976: DOI, BOM, *Minerals Yearbook*.

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

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

Electric Power

1973–1988: Table 7.3b.

1989 forward: Table 7.4b.

Table 6.3 Sources

Producers and Distributors

1973–1979: U.S. Department of the Interior (DOI), Bureau of Mines (BOM), Form 6-1419Q, "Distribution of Bituminous Coal and Lignite Shipments."

1980–1997: Energy Information Administration (EIA), Form EIA-6, "Coal Distribution Report," quarterly.

1998 forward: EIA, Form EIA-6A, "Coal Distribution Report," annual; and, for forecast values, EIA, Short-Term Integrated Forecasting System.

Residential and Commercial

1973–1976: DOI, BOM, *Minerals Yearbook*.

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

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

Industrial Coke Plants

1973–September 1977: 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"; and, for forecast values, EIA, Short-Term Integrated Forecasting System.

Industrial Other

1973–September 1977: DOI, BOM, *Minerals Yearbook* and *Minerals Industry Surveys*.

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

1980 forward: EIA, Form EIA-3, "Quarterly Coal Consumption Report—Manufacturing Plants"; and, for forecast values, EIA, Short-Term Integrated Forecasting System.

Electric Power

Table 7.5.

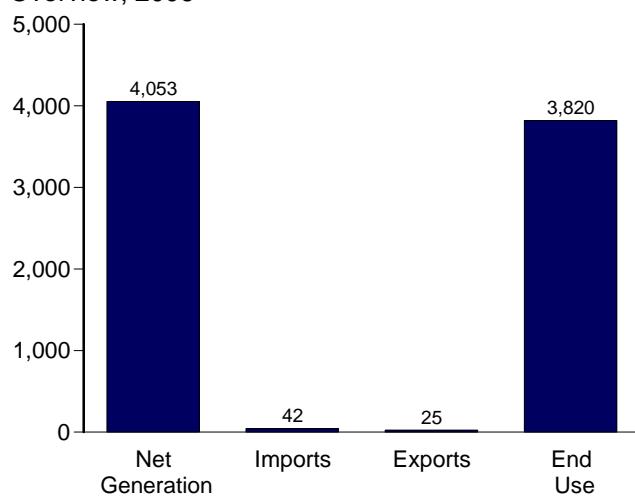
Electricity



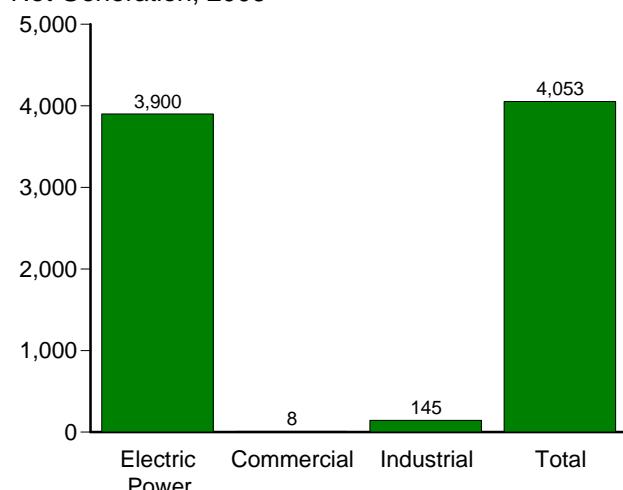
High-tension power lines and towers. Source: U.S. Department of Energy.

Figure 7.1 Electricity Overview
(Billion Kilowatthours)

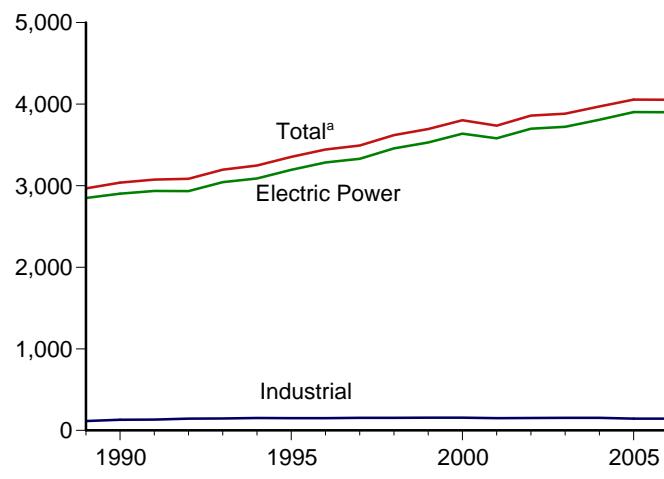
Overview, 2006



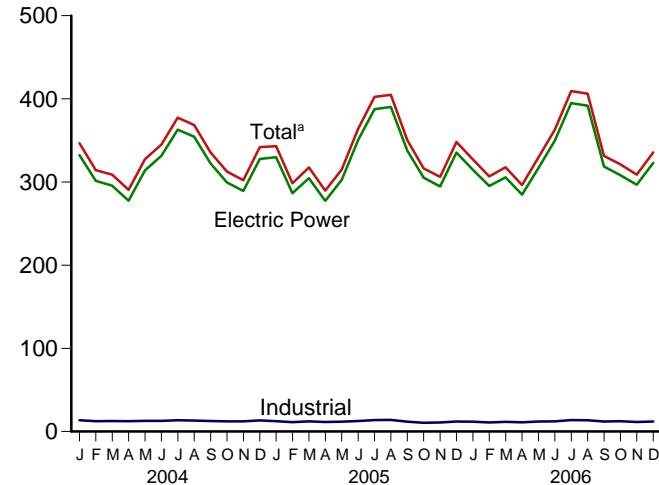
Net Generation, 2006



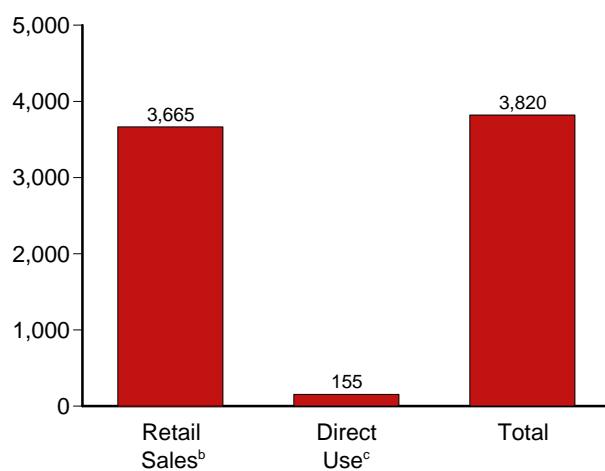
Net Generation by Sector, 1989-2006



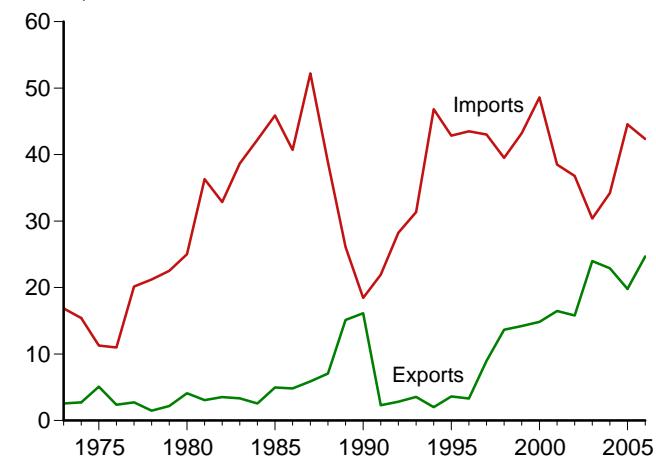
Net Generation by Sector, Monthly



End Use, 2006



Trade, 1973-2006



^aIncludes commercial sector.

^bElectricity retail sales to ultimate customers reported by electric utilities and other energy service providers.

^cSee "Direct Use" in Glossary.

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

Web Page: <http://www.eia.doe.gov/emeu/mer/elect.html>.

Sources: Table 7.1.

Table 7.1 Electricity Overview

(Billion Kilowatthours)

	Net Generation				Trade			T&D Losses ^e and Unaccounted for ^f	End Use		
	Electric Power Sector ^a	Commercial Sector ^b	Industrial Sector ^c	Total	Imports ^d	Exports ^d	Net Imports ^d		Retail Sales ^g	Direct Use ^h	Total
1973 Total	1,861	NA	3	1,864	17	3	14	165	1,713	NA	1,713
1975 Total	1,918	NA	3	1,921	11	5	6	180	1,747	NA	1,747
1980 Total	2,286	NA	3	2,290	25	4	21	216	2,094	NA	2,094
1985 Total	2,470	NA	3	2,473	46	5	41	190	2,324	NA	2,324
1990 Total	2,901	6	131	3,038	18	16	2	203	2,713	125	2,837
1995 Total	3,194	8	151	3,353	43	4	39	229	3,013	151	3,164
1996 Total	3,284	9	151	3,444	43	3	40	231	3,101	153	3,254
1997 Total	3,329	9	154	3,492	43	9	34	224	3,146	156	3,302
1998 Total	3,457	9	154	3,620	40	14	26	221	3,264	161	3,425
1999 Total	3,530	9	156	3,695	43	14	29	240	3,312	172	3,484
2000 Total	3,638	8	157	3,802	49	15	34	244	3,421	171	3,592
2001 Total	3,580	7	149	3,737	39	16	22	202	3,394	163	3,557
2002 Total	3,698	7	153	3,858	37	16	21	248	3,465	166	3,632
2003 Total	3,721	7	155	3,883	30	24	6	228	3,494	168	3,662
2004											
January	332	1	14	347	2	2	(s)	24	308	E 15	323
February	301	1	12	314	2	2	(s)	14	286	E 14	300
March	296	1	13	309	2	3	-1	16	278	E 14	292
April	278	1	12	291	2	2	(s)	14	263	E 13	276
May	314	1	13	327	2	2	(s)	35	279	E 14	293
June	332	1	13	345	3	2	1	24	308	E 14	322
July	363	1	14	377	4	1	3	31	334	E 15	349
August	355	1	13	368	5	1	3	26	331	E 14	345
September	322	1	13	336	3	2	1	14	309	E 14	322
October	299	1	12	312	3	2	1	18	282	E 13	295
November	289	1	12	302	3	2	1	20	270	E 13	284
December	328	1	13	342	3	2	2	29	300	E 15	315
Total	3,808	8	154	3,971	34	23	11	266	3,547	168	3,716
2005											
January	330	1	12	343	3	2	1	22	309	E 13	322
February	287	1	11	299	3	1	2	9	280	E 12	292
March	305	1	12	317	3	1	2	20	287	E 13	300
April	277	1	12	290	3	1	2	15	264	E 12	276
May	303	1	12	315	3	2	2	30	274	E 13	286
June	350	1	13	364	4	2	2	32	319	E 14	333
July	388	1	14	402	4	2	3	35	356	E 15	370
August	390	1	14	405	5	2	4	31	363	E 15	377
September	338	1	12	350	4	2	2	9	331	E 13	344
October	305	1	11	316	4	2	2	9	298	E 11	309
November	295	1	11	306	4	2	2	22	275	E 12	286
December	335	1	12	348	4	2	2	30	307	E 13	320
Total	3,902	8	145	4,055	45	20	25	264	3,661	155	3,816
2006											
January	315	1	12	327	4	2	1	13	303	E 13	316
February	295	1	11	307	3	2	2	16	281	E 12	292
March	306	1	12	318	4	2	2	18	290	E 12	302
April	285	1	11	296	3	2	1	18	268	E 12	279
May	317	1	12	329	4	2	1	31	287	E 13	300
June	350	1	12	363	4	2	1	29	322	E 13	335
July	395	1	14	409	5	2	3	35	363	E 15	377
August	392	1	14	406	5	2	3	26	369	E 15	383
September	319	1	12	331	2	2	(s)	1	317	E 13	330
October	308	1	12	321	3	2	(s)	18	291	E 13	304
November	297	1	11	309	3	2	(s)	20	277	E 12	289
December	323	1	12	336	4	2	2	25	300	E 13	313
Total	3,900	8	145	4,053	42	25	18	251	3,665	E 155	3,820

^a Electricity-only and combined-heat-and-power (CHP) plants within the NAICS 22 category whose primary business is to sell electricity, or electricity and heat, to the public. Through 1988, data are for electric utilities only; beginning in 1989, data are for electric utilities and independent power producers.

^b Commercial combined-heat-and-power (CHP) and commercial electricity-only plants.

^c Industrial combined-heat-and-power (CHP) and industrial electricity-only plants. Through 1988, data are for industrial hydroelectric power only.

^d Electricity transmitted across U.S. borders. Net imports equal imports minus exports.

^e Transmission and distribution losses (electricity losses that occur between the point of generation and delivery to the customer). See Note 11, "Electrical System Energy Losses," at end of Section 2.

^f Data collection frame differences and nonsampling error.

^g Electricity retail sales to ultimate customers by electric utilities and, beginning in 1996, other energy service providers.

^h Use of electricity that is 1) self-generated, 2) produced by either the same entity that consumes the power or an affiliate, and 3) used in direct support of a service or industrial process located within the same facility or group of facilities that house the generating equipment. Direct use is exclusive of station use.

E=Estimate. NA=Not available. (s)=Less than 0.5 billion kilowatthours.

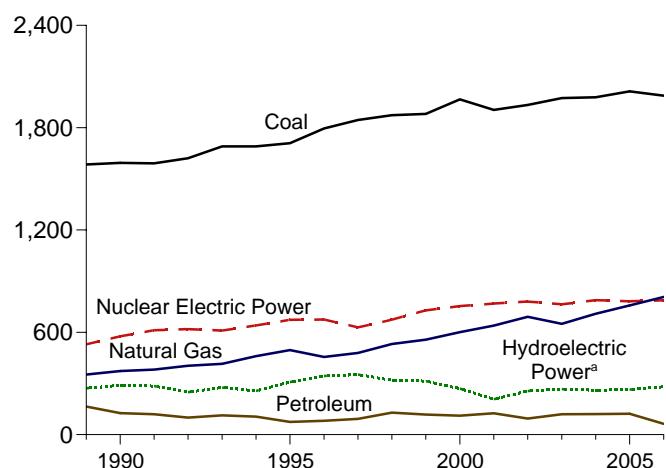
Notes: • See Note, "Classification of Power Plants Into Energy-Use Sectors," at end of section. • Totals may not equal sum of components due to independent rounding. • Geographic coverage is the 50 states and the District of Columbia.

Web Page: For annual data not displayed between 1973 and 1995, see <http://www.eia.doe.gov/emeu/mer/elect.html>.

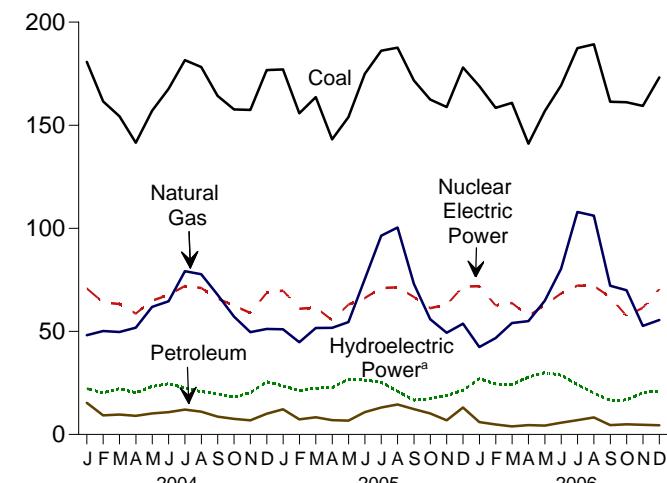
Sources: See end of section.

Figure 7.2 Electricity Net Generation
(Billion Kilowatthours)

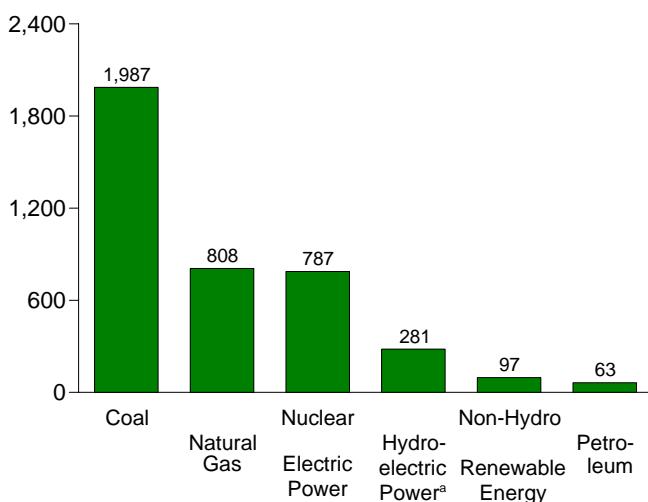
Total (All Sectors), Major Sources, 1989-2006



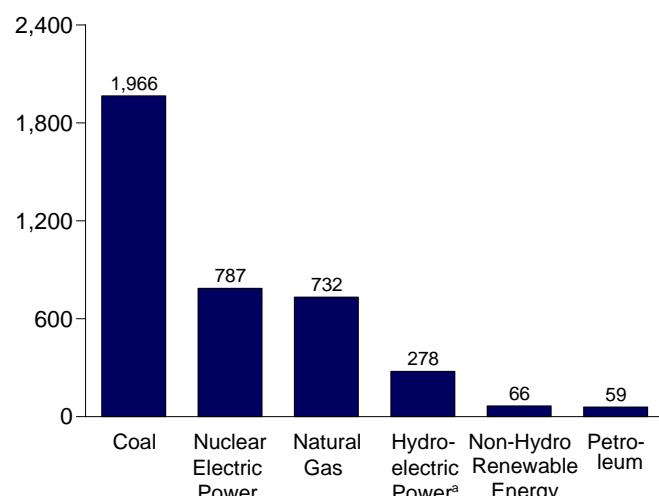
Total (All Sectors), Major Sources, Monthly



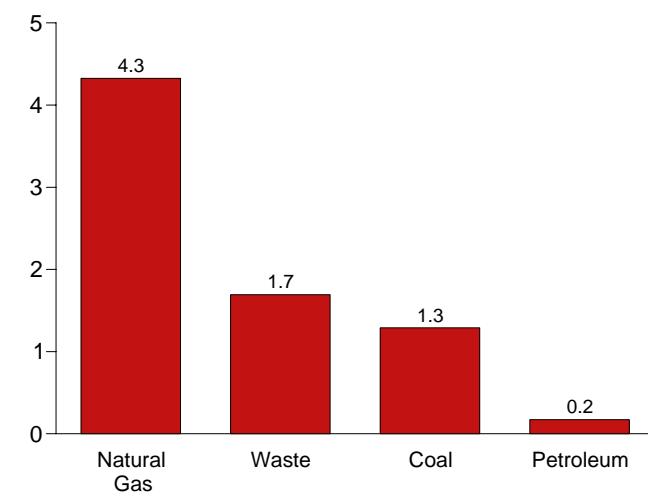
Total (All Sectors), Major Sources, 2006



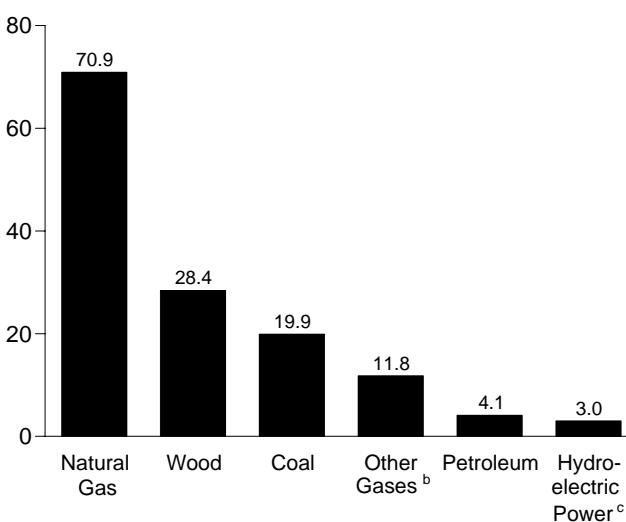
Electric Power Sector, Major Sources, 2006



Commercial Sector, Major Sources, 2006



Industrial Sector, Major Sources, 2006



^aConventional and pumped storage hydroelectric power.

^bBlast furnace gas, propane gas, and other manufactured and waste gases derived from fossil fuels.

^cConventional hydroelectric power.

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

Web Page: <http://www.eia.doe.gov/emeu/mer/elect.html>.

Sources: Tables 7.2a, 7.2b, and 7.2c.

Table 7.2a Electricity Net Generation: Total (All Sectors)

(Sum of Tables 7.2b and 7.2c; Million Kilowatthours)

	Fossil Fuels				Nuclear Electric Power	Hydro- electric Pumped Storage ^e	Renewable Energy									
	Coal ^a	Petroleum ^b	Natural Gas ^c	Other Gases ^d			Conven- tional Hydro- electric Power		Bio- mass		Geo- ther- mal	Solar ^h	Wind			
							Wood ^f	Waste ^g								
1973 Total	847,651	314,343	340,858	NA	83,479	(j)	275,431	130	198	1,966	NA	NA	1,864,057			
1975 Total	852,786	289,095	299,778	NA	172,505	(j)	303,153	18	174	3,246	NA	NA	1,920,755			
1980 Total	1,161,562	245,994	346,240	NA	251,116	(j)	279,182	275	158	5,073	NA	NA	2,289,600			
1985 Total	1,402,128	100,202	291,946	NA	383,691	(j)	284,311	743	640	9,325	11	6	2,473,002			
1990 Total ^k	1,594,011	126,621	372,765	10,383	576,862	-3,508	292,866	32,522	13,260	15,434	367	2,789	3,037,988			
1995 Total	1,709,426	74,554	496,058	13,870	673,402	-2,725	310,833	36,521	20,405	13,378	497	3,164	3,353,487			
1996 Total	1,795,196	81,411	455,056	14,356	674,729	-3,088	347,162	36,800	20,911	14,329	521	3,234	3,444,188			
1997 Total	1,845,016	92,555	479,399	13,351	628,644	-4,040	356,453	36,948	21,709	14,726	511	3,288	3,492,172			
1998 Total	1,873,516	128,800	531,257	13,492	673,702	-4,467	323,336	36,338	22,448	14,774	502	3,026	3,620,295			
1999 Total	1,881,087	118,061	556,396	14,126	728,254	-6,097	319,536	37,041	22,572	14,827	495	4,488	3,694,810			
2000 Total	1,966,265	111,221	601,038	13,955	753,893	-5,539	275,573	37,595	23,131	14,093	493	5,593	3,802,105			
2001 Total	1,903,956	124,880	639,129	9,039	768,826	-8,823	216,961	35,200	R 14,548	13,741	543	6,737	3,736,644			
2002 Total	1,933,130	94,567	691,006	11,463	780,064	-8,743	264,329	38,665	R 15,044	14,491	555	10,354	3,858,452			
2003 Total	1,973,737	119,406	649,908	15,600	763,733	-8,535	275,806	37,529	R 15,812	14,424	534	11,187	3,883,185			
2004 January	180,692	15,358	48,146	1,343	70,806	-768	22,983	3,252	R 1,271	1,295	13	999	346,546			
February	161,530	9,307	50,145	1,384	64,102	-692	20,914	2,987	R 1,228	1,214	11	1,022	314,280			
March	154,318	9,686	49,670	1,436	63,285	-653	22,914	3,083	R 1,298	1,241	53	1,291	308,812			
April	141,506	9,018	51,808	1,366	58,620	-669	20,888	3,047	R 1,301	1,161	57	1,295	290,560			
May	157,046	10,219	61,925	1,405	64,917	-689	24,020	2,940	R 1,367	1,208	82	1,702	327,380			
June	167,639	10,815	64,580	1,486	67,734	-718	25,252	3,050	R 1,314	1,225	88	1,397	345,085			
July	181,542	12,055	79,170	1,437	71,975	-693	23,318	3,349	R 1,338	1,278	82	1,164	377,332			
August	178,204	11,048	77,745	1,410	71,068	-818	21,592	3,249	R 1,338	1,257	73	1,051	368,439			
September	164,273	8,659	67,801	1,448	65,932	-770	20,525	3,064	R 1,241	1,188	61	1,090	335,622			
October	157,650	7,604	57,198	1,363	62,530	-703	18,863	3,209	R 1,250	1,276	34	1,029	312,450			
November	157,458	6,833	49,638	1,302	58,941	-665	20,937	3,051	R 1,260	1,212	15	932	302,101			
December	176,763	10,042	51,154	1,387	68,617	-650	26,211	3,296	R 1,291	1,256	8	1,172	341,948			
Total	1,978,620	120,646	708,979	16,766	788,528	-8,488	268,417	37,576	R 15,497	14,811	575	14,144	3,970,555			
2005 January	177,036	12,236	51,049	1,390	69,828	-725	24,272	3,311	R 1,287	1,252	9	1,132	343,121			
February	155,838	7,336	44,758	1,228	60,947	-346	21,607	3,033	R 1,129	1,063	13	966	298,500			
March	163,664	8,349	51,674	1,431	61,539	-497	22,936	3,257	R 1,283	1,204	38	1,561	317,458			
April	143,127	6,971	51,742	1,377	55,484	-338	23,058	3,000	R 1,228	1,187	58	1,698	289,562			
May	153,966	6,738	54,546	1,471	62,970	-466	27,279	3,087	R 1,357	1,264	81	1,746	315,062			
June	174,893	10,789	75,314	1,483	66,144	-415	26,783	3,158	R 1,333	1,248	88	1,797	363,672			
July	186,112	13,074	96,450	1,511	71,070	-625	25,957	3,409	R 1,387	1,273	72	1,421	402,274			
August	187,592	14,568	100,407	1,545	71,382	-623	21,566	3,410	R 1,355	1,254	76	1,138	404,941			
September	171,681	12,308	73,092	1,399	66,739	-680	17,364	3,251	R 1,280	1,223	61	1,468	350,218			
October	162,462	10,207	55,885	1,134	61,236	-611	18,006	3,234	R 1,210	1,247	38	1,446	316,398			
November	158,822	6,873	49,321	1,068	62,913	-554	19,353	3,192	R 1,295	1,220	13	1,610	306,115			
December	177,987	13,073	53,738	1,279	71,735	-678	22,141	3,337	R 1,335	1,257	3	1,828	348,101			
Total	2,013,179	122,522	757,974	16,317	781,986	-6,558	270,321	38,681	R 15,479	14,692	550	17,811	4,055,423			
2006 January	169,024	6,010	42,387	1,309	71,912	-545	27,592	3,492	R 1,381	1,256	13	2,404	327,352			
February	158,414	4,830	46,725	1,250	62,616	-463	24,923	3,092	R 1,257	1,128	20	1,897	306,697			
March	160,858	3,915	54,042	1,410	63,721	-455	24,723	3,274	R 1,342	1,288	33	2,355	317,706			
April	141,026	4,572	54,956	1,346	57,567	-611	28,425	3,051	R 1,298	1,150	52	2,459	296,404			
May	156,790	4,314	64,860	1,436	62,776	-471	30,466	3,091	R 1,406	1,116	71	2,431	329,472			
June	169,306	5,705	80,345	1,320	68,391	-448	29,254	3,193	R 1,358	1,225	70	2,017	362,837			
July	187,401	6,934	107,941	1,373	72,186	-667	24,838	3,491	R 1,409	1,286	61	1,907	409,346			
August	189,258	8,235	106,116	1,467	72,016	-754	20,834	3,518	R 1,401	1,312	83	1,570	406,205			
September	161,424	4,575	72,119	1,293	66,642	-658	17,176	3,302	R 1,331	1,241	53	1,773	331,387			
October	161,162	4,952	69,949	1,350	57,509	-524	17,284	3,255	R 1,300	1,298	32	2,369	321,106			
November	159,349	4,697	52,655	1,212	61,392	-599	20,892	3,224	R 1,316	1,229	16	2,329	308,841			
December	173,211	4,466	55,503	1,203	70,490	-712	21,899	3,427	1,366	1,312	3	2,270	335,614			
Total	1,987,224	63,204	807,597	15,970	787,219	-6,909	288,306	39,409	16,165	14,842	505	25,782	4,052,968			

^a Anthracite, bituminous coal, subbituminous coal, lignite, waste coal, and coal synfuel.

^b Distillate fuel oil, residual fuel oil, petroleum coke, jet fuel, kerosene, other petroleum, and waste oil.

^c Natural gas, plus a small amount of supplemental gaseous fuels that cannot be identified separately.

^d Blast furnace gas, propane gas, and other manufactured and waste gases derived from fossil fuels.

^e Pumped storage facility production minus energy used for pumping.

^f Wood and wood-derived fuels.

^g Municipal solid waste from biogenic sources, landfill gas, sludge waste, agricultural byproducts, and other biomass. Through 2000, also includes non-renewable waste (municipal solid waste from non-biogenic sources, and tire-derived fuels).

^h Solar thermal and photovoltaic energy.

ⁱ Includes batteries, chemicals, hydrogen, pitch, purchased steam, sulfur, miscellaneous technologies, and, beginning in 2001, non-renewable waste (municipal solid waste from non-biogenic sources, and tire-derived fuels).

^j Included in "Conventional Hydroelectric Power."

^k Through 1988, all data except hydroelectric are for electric utilities only; hydroelectric data through 1988 include industrial plants as well as electric utilities. Beginning in 1989, data are for electric utilities, independent power producers, commercial plants, and industrial plants.

R=Revised. NA=Not available.

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

Web Page: For annual data not displayed between 1973 and 1995, see <http://www.eia.doe.gov/emeu/mer/elect.html>.

Sources: See sources for Tables 7.2b and 7.2c.

Beginning with 2001 data, non-renewable waste (municipal solid waste from non-biogenic sources, and tire-derived fuels) is removed from "Biomass Waste," but is still included in "Total."

Table 7.2b Electricity Net Generation: Electric Power Sector
 (Subset of Table 7.2a; Million Kilowatthours)

	Fossil Fuels				Nuclear Electric Power	Hydro- electric Pumped Storage ^e	Renewable Energy									
	Coal ^a	Petroleum ^b	Natural Gas ^c	Other Gases ^d			Conven- tional Hydro- electric Power		Biomass		Geo- thermal	Solar ^h	Wind			
							Wood ^f	Waste ^g								
1973 Total	847,651	314,343	340,858	NA	83,479	(j)	272,083	130	198	1,966	NA	NA	1,860,710			
1975 Total	852,786	289,095	299,778	NA	172,505	(j)	300,047	18	174	3,246	NA	NA	1,917,649			
1980 Total	1,161,562	245,994	346,240	NA	251,116	(j)	276,021	275	158	5,073	NA	NA	2,286,439			
1985 Total	1,402,128	100,202	291,946	NA	383,691	(j)	281,149	743	640	9,325	11	6	2,469,841			
1990 Total ^k	1,572,109	118,864	309,486	621	576,862	-3,508	289,753	7,032	11,500	15,434	367	2,789	2,901,322			
1995 Total	1,686,056	68,146	419,179	1,927	673,402	-2,725	305,410	7,597	17,986	13,378	497	3,164	3,194,230			
1996 Total	1,771,973	74,783	378,757	1,341	674,729	-3,088	341,159	8,386	17,816	14,329	521	3,234	3,284,141			
1997 Total	1,820,762	86,479	399,596	1,533	628,644	-4,040	350,648	8,680	18,485	14,726	511	3,288	3,329,375			
1998 Total	1,850,193	122,211	449,293	2,315	673,702	-4,467	317,867	8,608	19,233	14,774	502	3,026	3,457,416			
1999 Total	1,858,618	111,539	472,996	1,607	728,254	-6,097	314,663	8,961	19,493	14,827	495	4,488	3,529,982			
2000 Total	1,943,111	105,192	517,978	2,028	753,893	-5,539	271,338	8,916	20,307	14,093	493	5,593	3,637,529			
2001 Total	1,882,826	119,149	554,940	586	768,826	-8,823	213,749	8,294	R 12,944	13,741	543	6,737	3,580,053			
2002 Total	1,910,613	89,733	607,683	1,970	780,064	-8,743	260,491	9,009	R 13,145	14,491	555	10,354	3,698,458			
2003 Total	1,952,714	113,697	567,303	2,647	763,733	-8,535	271,512	9,528	R 13,808	14,424	534	11,187	3,721,159			
2004																
January	178,714	14,491	41,241	226	70,806	-768	22,651	845	R 1,080	1,295	13	999	332,296			
February	159,784	8,789	43,650	255	64,102	-692	20,626	799	R 1,036	1,214	11	1,022	301,278			
March	152,551	9,184	43,031	255	63,285	-653	22,629	810	R 1,106	1,241	53	1,291	295,508			
April	139,831	8,570	45,352	244	58,620	-669	20,670	696	R 1,097	1,161	57	1,295	277,603			
May	155,293	9,769	54,967	257	64,917	-689	23,811	720	R 1,145	1,208	82	1,702	313,916			
June	165,824	10,337	57,780	259	67,734	-718	25,052	737	R 1,106	1,225	88	1,397	331,531			
July	179,599	11,538	71,788	279	71,975	-693	23,113	896	R 1,125	1,278	82	1,164	362,932			
August	176,372	10,577	70,536	257	71,068	-818	21,364	888	R 1,122	1,257	73	1,051	354,509			
September	162,596	8,257	60,948	288	65,932	-770	20,206	814	R 1,061	1,188	61	1,090	322,329			
October	155,924	7,241	50,785	223	62,530	-703	18,564	821	R 1,073	1,276	34	1,029	299,476			
November	155,765	6,425	43,215	239	58,941	-665	20,581	784	R 1,076	1,212	15	932	289,208			
December	174,942	9,388	44,228	244	68,617	-650	25,797	917	R 1,105	1,256	8	1,172	327,775			
Total	1,957,194	114,567	627,519	3,026	788,528	-8,488	265,064	9,727	R 13,130	14,811	575	14,144	3,808,360			
2005																
January	175,246	11,553	44,864	285	69,828	-725	23,922	897	R 1,070	1,252	9	1,132	329,896			
February	154,169	6,858	39,010	267	60,947	-346	21,331	835	R 947	1,063	13	966	286,566			
March	161,867	7,881	45,473	358	61,539	-497	22,632	907	R 1,082	1,204	38	1,561	304,624			
April	141,464	6,510	45,901	334	55,484	-338	22,771	717	R 1,042	1,187	58	1,698	277,402			
May	152,347	6,344	48,392	323	62,970	-466	27,003	785	R 1,146	1,264	81	1,746	302,523			
June	173,149	10,367	68,472	349	66,144	-415	26,480	858	R 1,119	1,248	88	1,797	350,246			
July	184,212	12,529	88,867	369	71,070	-625	25,662	980	R 1,169	1,273	72	1,421	387,630			
August	185,729	14,067	92,719	401	71,382	-623	21,343	995	R 1,139	1,254	76	1,138	390,258			
September	169,921	11,885	67,013	341	66,739	-680	17,143	918	R 1,075	1,223	61	1,468	337,681			
October	160,731	9,763	50,833	310	61,236	-611	17,781	858	R 1,021	1,247	38	1,446	305,201			
November	157,090	6,454	44,001	284	62,913	-554	19,124	861	R 1,096	1,220	13	1,610	294,691			
December	176,135	12,557	47,771	339	71,735	-678	21,845	956	R 1,134	1,257	3	1,828	335,474			
Total	1,992,060	116,767	683,316	3,960	781,986	-6,558	267,040	10,568	R 13,039	14,692	550	17,811	3,902,192			
2006																
January	167,245	5,589	36,611	344	71,912	-545	27,233	971	R 1,178	1,256	13	2,404	314,795			
February	156,789	4,458	41,337	304	62,616	-463	24,625	898	R 1,072	1,128	20	1,897	295,221			
March	159,075	3,561	48,403	351	63,721	-455	24,484	947	R 1,162	1,288	33	2,355	305,513			
April	139,342	4,243	49,573	340	57,567	-611	28,197	771	R 1,104	1,150	52	2,459	284,749			
May	155,061	3,982	58,469	382	62,776	-471	30,238	824	R 1,188	1,116	71	2,431	316,651			
June	167,495	5,372	73,731	365	68,391	-448	29,040	897	R 1,148	1,225	70	2,017	349,891			
July	185,493	6,570	100,277	310	72,186	-667	24,599	977	R 1,201	1,286	61	1,907	394,816			
August	187,334	7,829	98,447	420	72,016	-754	20,651	1,018	R 1,198	1,312	83	1,570	391,747			
September	159,698	4,234	65,771	346	66,642	-658	16,972	918	R 1,122	1,241	53	1,773	318,670			
October	159,381	4,661	63,480	338	57,509	-524	17,014	893	R 1,103	1,298	32	2,369	308,095			
November	157,665	4,362	46,972	328	61,392	-599	20,538	899	R 1,119	1,229	16	2,329	296,792			
December	171,460	4,068	49,307	327	70,490	-712	21,623	956	1,163	1,312	3	2,270	322,866			
Total	1,966,039	58,930	732,378	4,155	787,219	-6,909	285,215	10,969	13,760	14,842	505	25,782	3,899,806			

^a Anthracite, bituminous coal, subbituminous coal, lignite, waste coal, and coal synfuel.

^b Distillate fuel oil, residual fuel oil, petroleum coke, jet fuel, kerosene, other petroleum, and waste oil.

^c Natural gas, plus a small amount of supplemental gaseous fuels that cannot be identified separately.

^d Blast furnace gas, propane gas, and other manufactured and waste gases derived from fossil fuels.

^e Pumped storage facility production minus energy used for pumping.

^f Wood and wood-derived fuels.

^g Municipal solid waste from biogenic sources, landfill gas, sludge waste, agricultural byproducts, and other biomass. Through 2000, also includes non-renewable waste (municipal solid waste from non-biogenic sources, and tire-derived fuels).

^h Solar thermal and photovoltaic energy.

ⁱ Includes batteries, chemicals, hydrogen, pitch, purchased steam, sulfur, miscellaneous technologies, and, beginning in 2001, non-renewable waste (municipal solid waste from non-biogenic sources, and tire-derived fuels).

^j Included in "Conventional Hydroelectric Power."

^k Through 1988, data are for electric utilities only. Beginning in 1989, data are for electric utilities and independent power producers.

R=Revised. NA=Not available.

Notes: • The electric power sector comprises electricity-only and combined-heat-and-power (CHP) plants within the NAICS 22 category whose primary business is to sell electricity, or electricity and heat, to the public. • Totals may not equal sum of components due to independent rounding. • Geographic coverage is the 50 states and the District of Columbia.

Web Page: For annual data not displayed between 1973 and 1995, see <http://www.eia.doe.gov/emeu/mer/elect.html>.

Sources: See end of section.

Beginning with 2001 data, non-renewable waste (municipal solid waste from non-biogenic sources, and tire-derived fuels) is removed from "Biomass Waste," but is still included in "Total."

Table 7.2c Electricity Net Generation: Commercial and Industrial Sectors

(Subset of Table 7.2a; Million Kilowatthours)

	Commercial Sector ^a					Industrial Sector ^b								Total ^k
	Coal ^c	Petro- leum ^d	Natural Gas ^e	Biomass	Total ^g	Coal ^c	Petro- leum ^d	Natural Gas ^e	Other Gases ^h	Hydro- electric Power ⁱ	Biomass			
				Waste ^f							Wood ^j	Waste ^f		
1989 Total	736	558	2,155	527	4,251	20,677	4,955	53,179	7,297	2,722	21,557	893	114,828	
1990 Total	796	589	3,272	812	5,837	21,107	7,169	60,007	9,641	2,975	25,379	949	130,830	
1995 Total	998	379	5,162	1,519	8,232	22,372	6,030	71,717	11,943	5,304	28,868	900	151,025	
1996 Total	1,051	369	5,249	2,176	9,030	22,172	6,260	71,049	13,015	5,878	28,354	919	151,017	
1997 Total	1,040	427	4,725	2,342	8,701	23,214	5,649	75,078	11,814	5,685	28,225	882	154,097	
1998 Total	985	383	4,879	2,335	8,748	22,337	6,206	77,085	11,170	5,349	27,693	880	154,132	
1999 Total	995	434	4,607	2,393	8,563	21,474	6,088	78,793	12,519	4,758	28,060	686	156,264	
2000 Total	1,097	432	4,262	1,985	7,903	22,056	5,597	78,798	11,927	4,135	28,652	839	156,673	
2001 Total	995	438	4,434	R 1,007	7,416	20,135	5,293	79,755	8,454	3,145	26,888	R 596	149,175	
2002 Total	992	431	4,310	R 1,053	7,415	21,525	4,403	79,013	9,493	3,825	29,643	R 846	152,580	
2003 Total	1,206	423	3,899	R 1,289	7,496	19,817	5,285	78,705	12,953	4,222	27,988	R 715	154,530	
2004 January	119	71	316	R 122	694	1,859	797	6,589	1,118	328	2,405	R 70	13,555	
February	117	43	312	R 116	654	1,629	475	6,183	1,130	279	2,187	R 75	12,348	
March	115	41	295	R 115	634	1,651	461	6,344	1,181	273	2,272	R 77	12,670	
April	92	42	283	R 128	623	1,583	407	6,174	1,122	205	2,350	R 76	12,334	
May	105	35	337	R 136	699	1,648	415	6,621	1,148	196	2,220	R 86	12,765	
June	115	34	340	R 132	702	1,700	444	6,461	1,227	190	2,312	R 76	12,853	
July	123	41	386	R 135	763	1,820	477	6,995	1,158	201	2,452	R 78	13,637	
August	120	39	382	R 134	749	1,713	432	6,827	1,153	224	2,359	R 82	13,181	
September	109	32	366	R 128	707	1,569	370	6,487	1,160	314	2,249	R 51	12,586	
October	94	23	359	R 125	673	1,632	340	6,054	1,140	291	2,386	R 53	12,301	
November	105	29	320	R 127	656	1,588	378	6,103	1,062	348	2,265	R 57	12,237	
December	111	39	354	R 129	714	1,711	615	6,572	1,143	401	2,378	R 57	13,459	
Total	1,323	469	4,051	R 1,527	8,270	20,103	5,610	77,409	13,740	3,248	27,835	R 840	153,925	
2005 January	117	57	353	R 137	737	1,672	626	5,832	1,105	339	2,413	R 80	12,489	
February	112	38	313	R 123	656	1,556	441	5,434	961	265	2,196	R 58	11,279	
March	111	31	353	R 136	702	1,686	437	5,848	1,073	295	2,350	R 65	12,132	
April	90	23	344	R 124	649	1,573	438	5,496	1,043	275	2,283	R 62	11,512	
May	92	22	343	R 146	686	1,527	372	5,811	1,147	262	2,301	R 65	11,853	
June	119	28	387	R 149	763	1,626	393	6,454	1,134	296	2,299	R 65	12,662	
July	127	32	443	R 148	823	1,773	512	7,140	1,142	291	2,427	R 70	13,821	
August	123	31	458	R 142	821	1,739	471	7,230	1,144	222	2,414	R 74	13,862	
September	112	29	368	R 140	718	1,647	394	5,711	1,057	218	2,331	R 64	11,819	
October	101	26	320	R 129	644	1,630	418	4,731	825	221	2,375	R 60	10,553	
November	106	22	292	R 136	627	1,626	397	5,028	784	222	2,330	R 62	10,797	
December	117	37	303	R 138	665	1,735	479	5,663	941	289	2,379	R 63	11,962	
Total	1,329	375	4,279	R 1,650	8,492	19,791	5,380	70,380	12,356	3,195	28,098	R 789	144,739	
2006 January	119	20	281	R 140	638	1,660	401	5,496	966	346	2,519	R 62	11,920	
February	112	22	280	R 131	620	1,512	350	5,107	946	286	2,193	R 53	10,855	
March	100	20	314	R 128	631	1,683	333	5,325	1,059	226	2,325	R 53	11,562	
April	84	17	299	R 139	618	1,600	312	5,084	1,006	218	2,278	R 55	11,037	
May	96	12	369	R 156	720	1,633	320	6,022	1,055	218	2,267	R 62	12,102	
June	113	11	403	R 149	759	1,699	322	6,211	955	204	2,294	R 61	12,187	
July	124	15	486	R 143	840	1,784	349	7,178	1,063	235	2,513	R 65	13,691	
August	128	15	480	R 142	832	1,796	390	7,189	1,047	182	2,499	R 61	13,627	
September	99	8	377	R 150	709	1,626	333	5,971	948	201	2,382	R 58	12,008	
October	95	7	382	R 136	689	1,686	284	6,087	1,011	267	2,360	R 61	12,322	
November	109	10	323	R 138	655	1,574	326	5,359	883	344	2,324	R 59	11,395	
December	111	16	333	142	679	1,640	381	5,863	876	266	2,470	62	12,069	
Total	1,290	173	4,326	1,693	8,388	19,894	4,100	70,894	11,815	2,994	28,424	713	144,774	

^a Commercial combined-heat-and-power (CHP) and commercial electricity-only plants.

^b Industrial combined-heat-and-power (CHP) and industrial electricity-only plants.

^c Anthracite, bituminous coal, subbituminous coal, lignite, waste coal, and coal synfuel.

^d Distillate fuel oil, residual fuel oil, petroleum coke, jet fuel, kerosene, other petroleum, and waste oil.

^e Natural gas, plus a small amount of supplemental gaseous fuels that cannot be identified separately.

^f Municipal solid waste from biogenic sources, landfill gas, sludge waste, agricultural byproducts, and other biomass. Through 2000, also includes non-renewable waste (municipal solid waste from non-biogenic sources, and tire-derived fuels).

^g Includes a small amount of other gases, wood, and other, which are not separately displayed.

^h Blast furnace gas, propane gas, and other manufactured and waste gases derived from fossil fuels.

ⁱ Conventional hydroelectric power.

^j Wood and wood-derived fuels.

^k Includes batteries, chemicals, hydrogen, pitch, purchased steam, sulfur, miscellaneous technologies, and, beginning in 2001, non-renewable waste (municipal solid waste from non-biogenic sources, and tire-derived fuels).

R=Revised.

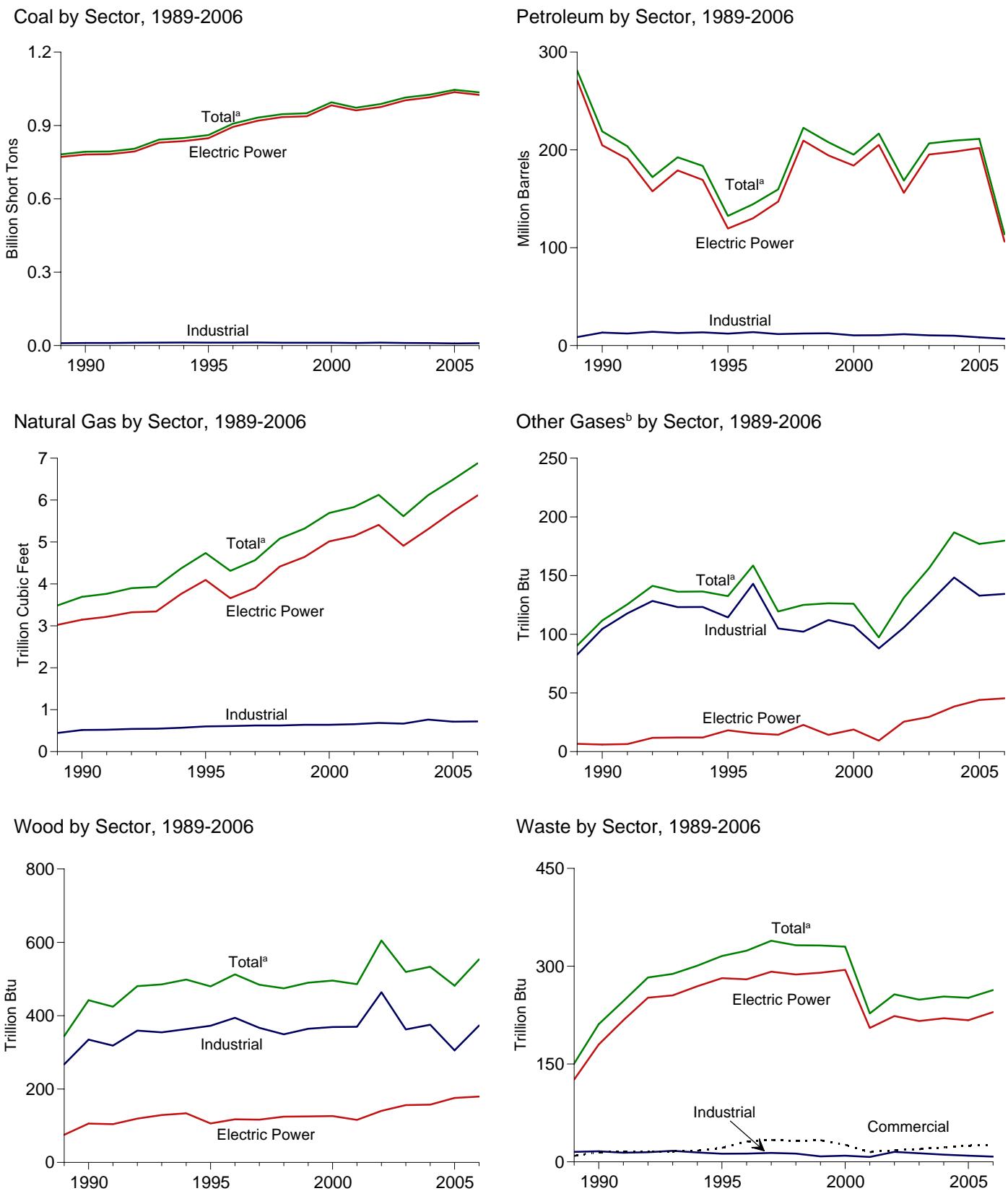
Notes: • See Note, "Classification of Power Plants Into Energy-Use Sectors," at end of section. • Totals may not equal sum of components due to independent rounding. • Geographic coverage is the 50 states and the District of Columbia.

Web Page: For annual data not displayed between 1990 and 1995, see <http://www.eia.doe.gov/emeu/mer/elect.html>.

Sources: • **1989-1997:** Energy Information Administration (EIA), Form EIA-867, "Annual Nonutility Power Producer Report." • **1998-2000:** EIA, Form EIA-860B, "Annual Electric Generator Report—Nonutility." • **2001-2003:** EIA, Form EIA-906, "Power Plant Report." • **2004 forward:** EIA, Form EIA-906, "Power Plant Report," and Form EIA-920, "Combined Heat and Power Plant Report."

Beginning with 2001 data, non-renewable waste (municipal solid waste from non-biogenic sources, and tire-derived fuels) is removed from "Biomass Waste," but is still included in "Total."

Figure 7.3 Consumption of Selected Combustible Fuels for Electricity Generation



^aIncludes commercial sector.

^bBlast furnace gas, propane gas, and other manufactured and waste gases derived from fossil fuels.

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

Web Page: <http://www.eia.doe.gov/emeu/mer/elect.html>.

Sources: Tables 7.3a, 7.3b, and 7.3c.

Table 7.3a Consumption of Combustible Fuels for Electricity Generation: Total (All Sectors)
 (Sum of Tables 7.3b and 7.3c)

	Coal ^a	Petroleum					Natural Gas ^f	Other Gases ^g	Biomass		Other ⁱ
		Distillate Fuel Oil ^b	Residual Fuel Oil ^c	Other Liquids ^d	Petroleum Coke ^e	Total ^e			Wood ^h	Waste ⁱ	
	Thousand Short Tons	Thousand Barrels			Thousand Short Tons	Thousand Barrels	Billion Cubic Feet	Trillion Btu			
1973 Total	389,212	47,058	513,190	NA	507	562,781	3,660	NA	1	2	NA
1975 Total	405,962	38,907	467,221	NA	70	506,479	3,158	NA	(s)	2	NA
1980 Total	569,274	29,051	391,163	NA	179	421,110	3,682	NA	3	2	NA
1985 Total	693,841	14,635	158,779	NA	231	174,571	3,044	NA	8	7	NA
1990 Total ^k	792,457	18,143	190,849	437	1,914	218,997	3,692	112	442	211	36
1995 Total	860,594	19,615	95,507	680	3,355	132,578	4,738	133	480	316	42
1996 Total	907,209	20,252	106,055	1,712	3,322	144,626	4,312	159	513	324	37
1997 Total	931,949	20,309	118,741	237	4,086	159,715	4,565	119	484	339	36
1998 Total	946,295	25,062	172,728	549	4,860	222,640	5,081	125	475	332	36
1999 Total	949,802	25,951	158,187	974	4,552	207,871	5,322	126	490	332	41
2000 Total	994,933	31,675	143,381	1,450	3,744	195,228	5,691	126	496	330	46
2001 Total	972,691	31,150	165,312	855	3,871	216,672	5,832	97	486	R 228	R 160
2002 Total	987,583	23,286	109,235	1,894	6,836	168,597	6,126	131	605	R 257	R 191
2003 Total	1,014,058	29,672	142,518	2,947	6,303	206,653	5,616	156	519	R 249	R 193
2004											
January	92,605	4,513	17,496	1,145	745	26,881	421	16	48	R 21	R 14
February	83,213	1,527	11,152	257	637	16,121	432	16	44	R 20	R 14
March	78,992	1,393	11,777	303	643	16,685	430	17	46	R 21	R 15
April	73,018	1,243	10,977	253	640	15,673	438	15	43	R 21	R 15
May	81,209	1,756	12,548	262	662	17,876	538	17	40	R 22	R 15
June	86,585	1,639	13,629	230	627	18,634	559	16	43	R 21	R 15
July	94,273	1,520	15,685	280	662	20,794	683	15	48	R 22	R 16
August	92,855	1,430	14,034	210	722	19,284	669	17	44	R 22	R 15
September	86,106	1,648	10,139	209	613	15,063	583	15	42	R 20	R 14
October	82,163	1,131	8,587	224	660	13,240	493	15	44	R 20	R 14
November	82,671	993	7,654	233	601	11,885	428	14	44	R 21	R 14
December	92,328	1,878	11,495	354	729	17,370	443	15	47	R 21	R 15
Total	1,026,018	20,669	145,171	3,959	7,942	209,508	6,117	187	534	R 254	R 176
2005											
January	92,455	3,227	13,679	722	726	21,258	437	15	42	R 21	R 13
February	80,977	962	8,164	153	664	12,600	378	16	40	R 18	R 12
March	84,319	1,097	9,396	167	704	14,178	438	19	40	R 21	R 13
April	74,179	1,116	7,482	211	646	12,040	440	14	35	R 20	R 13
May	79,933	1,216	6,724	146	720	11,688	475	14	39	R 22	R 14
June	90,200	1,510	13,198	170	765	18,703	652	15	41	R 22	R 13
July	97,040	2,297	16,077	345	758	22,509	843	15	44	R 22	R 15
August	98,043	2,553	18,200	403	794	25,127	857	15	42	R 22	R 15
September	89,217	1,952	15,510	236	695	21,174	626	14	41	R 21	R 13
October	84,716	1,522	12,364	198	695	17,560	474	13	39	R 20	R 13
November	82,220	1,125	7,526	164	634	11,983	415	13	38	R 21	R 13
December	92,577	2,585	15,913	389	710	22,436	452	14	41	R 22	R 14
Total	1,045,878	21,163	144,234	3,303	8,511	211,256	6,487	177	482	R 252	R 161
2006											
January	88,015	1,231	5,768	171	727	10,802	360	15	47	R 23	R 14
February	81,909	998	4,509	134	640	8,842	390	14	41	R 21	R 13
March	83,364	795	3,079	181	614	7,125	456	15	45	R 22	R 15
April	73,240	1,208	3,696	125	622	8,141	469	15	39	R 21	R 14
May	81,147	1,095	3,575	186	581	7,762	560	16	40	R 22	R 15
June	87,963	1,239	5,460	187	647	10,120	689	15	42	R 22	R 14
July	97,793	1,510	7,093	226	708	12,370	936	15	45	R 23	R 15
August	98,917	1,617	9,258	264	668	14,479	910	16	47	R 23	R 15
September	85,112	799	4,237	177	629	8,358	608	15	53	R 22	R 15
October	84,580	987	4,679	146	673	9,177	587	15	53	R 21	R 15
November	83,054	1,005	4,563	139	551	8,462	448	14	49	R 22	R 15
December	90,375	1,059	4,111	127	574	8,166	467	14	52	22	16
Total	1,035,469	13,543	60,028	2,063	7,634	113,806	6,878	180	554	263	178

^a Anthracite, bituminous coal, subbituminous coal, lignite, waste coal, and coal synfuel.

^b Fuel oil nos. 1, 2, and 4. For 1973-1979, data are for gas turbine and internal combustion plant use of petroleum. For 1980-2000, electric utility data also include small amounts of kerosene and jet fuel.

^c Fuel oil nos. 5 and 6. For 1973-1979, data are for steam plant use of petroleum. For 1980-2000, electric utility data also include a small amount of fuel oil no. 4.

^d Jet fuel, kerosene, other petroleum liquids, and waste oil.

^e Petroleum coke is converted from short tons to barrels by multiplying by 5.

^f Natural gas, plus a small amount of supplemental gaseous fuels that cannot be identified separately.

^g Blast furnace gas, propane gas, and other manufactured and waste gases derived from fossil fuels.

^h Wood and wood-derived fuels.

ⁱ Municipal solid waste from biogenic sources, landfill gas, sludge waste, agricultural byproducts, and other biomass. Through 2000, also includes

non-renewable waste (municipal solid waste from non-biogenic sources, and tire-derived fuels).

^j Batteries, chemicals, hydrogen, pitch, purchased steam, sulfur, miscellaneous technologies, and, beginning in 2001, non-renewable waste (municipal solid waste from non-biogenic sources, and tire-derived fuels).

^k Through 1988, data are for electric utilities only. Beginning in 1989, data are for electric utilities, independent power producers, commercial plants, and industrial plants.

R=Revised. NA=Not available. (s)=Less than 0.5 trillion Btu.

Notes: • Data are for fuels consumed to produce electricity. Data also include fuels consumed to produce useful thermal output at a small number of electric utility combined-heat-and-power (CHP) plants. • Totals may not equal sum of components due to independent rounding. • Geographic coverage is the 50 States and the District of Columbia.

Web Page: For annual data not displayed between 1973 and 1995, see <http://www.eia.doe.gov/emeu/mer/elect.html>.

Sources: See sources for Tables 7.3b and 7.3c.

Beginning with 2001 data, non-renewable waste (municipal solid waste from non-biogenic sources, and tire-derived fuels) is removed from "Biomass Waste" and included in "Other."

**Table 7.3b Consumption of Combustible Fuels for Electricity Generation:
Electric Power Sector** (Subset of Table 7.3a)

	Coal ^a	Petroleum					Natural Gas ^f	Other Gases ^g	Biomass		Other ⁱ
		Distillate Fuel Oil ^b	Residual Fuel Oil ^c	Other Liquids ^d	Petroleum Coke ^e	Total ^e			Wood ^h	Waste ⁱ	
		Thousand Short Tons	Thousand Barrels			Thousand Short Tons	Thousand Barrels	Billion Cubic Feet	Trillion Btu		
1973 Total	389,212	47,058	513,190	NA	507	562,781	3,660	NA	1	2	NA
1975 Total	405,962	38,907	467,221	NA	70	506,479	3,158	NA	(s)	2	NA
1980 Total	569,274	29,051	391,163	NA	179	421,110	3,682	NA	3	2	NA
1985 Total	693,841	14,635	158,779	NA	231	174,571	3,044	NA	8	7	NA
1990 Total ^k	781,301	16,394	183,285	25	1,008	204,745	3,147	6	106	180	(s)
1995 Total	847,854	18,066	88,895	441	2,452	119,663	4,094	18	106	282	2
1996 Total	894,400	18,472	98,795	567	2,467	130,168	3,660	16	117	280	2
1997 Total	919,009	18,646	112,423	130	3,201	147,202	3,903	14	117	292	1
1998 Total	934,126	23,166	165,875	411	3,999	209,447	4,416	23	125	287	2
1999 Total	937,888	23,875	151,921	514	3,607	194,345	4,644	14	125	290	1
2000 Total	982,713	29,722	138,047	403	3,155	183,946	5,014	19	126	294	1
2001 Total	961,523	29,056	159,150	374	3,308	205,119	5,142	9	116	R 205	R 109
2002 Total	975,251	21,810	104,577	1,243	5,705	156,154	5,408	25	141	R 224	R 137
2003 Total	1,003,036	27,441	137,361	1,937	5,719	195,336	4,909	30	156	R 216	R 136
2004											
January	91,604	4,094	16,758	1,018	684	25,291	349	3	14	R 18	R 11
February	82,297	1,383	10,667	149	588	15,139	361	3	13	R 17	R 11
March	78,052	1,253	11,323	199	593	15,739	363	3	13	R 19	R 11
April	72,174	1,082	10,553	143	590	14,726	376	3	11	R 18	R 11
May	80,337	1,635	12,117	154	623	17,021	469	3	12	R 19	R 12
June	85,678	1,535	13,233	126	587	17,826	494	3	12	R 18	R 12
July	93,282	1,394	15,246	144	618	19,874	611	3	15	R 19	R 12
August	91,919	1,314	13,621	121	680	18,456	598	3	14	R 19	R 12
September	85,266	1,539	9,774	118	579	14,326	517	3	13	R 18	R 11
October	81,287	1,032	8,263	125	621	12,523	429	3	13	R 18	R 11
November	81,815	909	7,267	145	564	11,141	365	3	13	R 18	R 11
December	91,369	1,758	10,983	261	631	16,158	374	3	15	R 19	R 12
Total	1,015,079	18,927	139,806	2,702	7,357	198,220	5,306	38	157	R 220	R 136
2005											
January	91,643	2,891	13,061	681	687	20,066	373	3	15	R 18	R 10
February	80,191	864	7,656	106	635	11,801	319	5	14	R 16	R 9
March	83,479	1,009	8,981	125	665	13,442	375	7	15	R 18	R 10
April	73,408	1,024	7,143	139	608	11,348	379	3	12	R 17	R 10
May	79,193	1,100	6,456	133	688	11,129	412	3	13	R 19	R 10
June	89,392	1,411	12,829	123	728	18,001	582	3	14	R 19	R 10
July	96,165	2,155	15,725	246	716	21,708	764	3	16	R 19	R 11
August	97,181	2,438	17,822	286	756	24,328	779	3	17	R 19	R 11
September	88,398	1,856	15,132	192	657	20,466	565	3	15	R 18	R 10
October	83,920	1,404	11,956	149	658	16,798	423	3	14	R 17	R 10
November	81,429	1,020	7,183	115	594	11,288	362	3	14	R 18	R 10
December	91,741	2,415	15,432	338	673	21,552	392	3	16	R 19	R 10
Total	1,036,140	19,587	139,376	2,634	8,066	201,926	5,725	44	176	R 217	R 120
2006											
January	87,167	1,166	5,387	116	682	10,078	304	4	16	R 20	R 10
February	81,130	925	4,184	90	602	8,210	336	4	15	R 18	R 9
March	82,500	728	2,787	138	574	6,521	398	4	16	R 19	R 10
April	72,427	1,137	3,456	79	584	7,592	414	4	12	R 18	R 10
May	80,356	1,033	3,369	104	545	7,229	496	4	14	R 20	R 10
June	87,132	1,176	5,264	113	608	9,594	621	4	15	R 19	R 10
July	96,880	1,433	6,871	136	669	11,787	857	3	16	R 20	R 11
August	97,999	1,547	9,020	135	630	13,854	831	5	16	R 20	R 11
September	84,164	758	3,933	84	582	7,683	541	4	15	R 19	R 10
October	83,592	939	4,393	98	630	8,578	519	4	15	R 18	R 10
November	82,213	942	4,238	91	513	7,835	389	4	15	R 19	R 10
December	89,558	987	3,693	81	529	7,408	403	3	16	19	10
Total	1,025,119	12,773	56,596	1,265	7,147	106,369	6,110	45	180	230	122

^a Anthracite, bituminous coal, subbituminous coal, lignite, waste coal, and coal synfuel.

^b Fuel oil nos. 1, 2, and 4. For 1973-1979, data are for gas turbine and internal combustion plant use of petroleum. For 1980-2000, electric utility data also include small amounts of kerosene and jet fuel.

^c Fuel oil nos. 5 and 6. For 1973-1979, data are for steam plant use of petroleum. For 1980-2000, electric utility data also include a small amount of fuel oil no. 4.

^d Jet fuel, kerosene, other petroleum liquids, and waste oil.

^e Petroleum coke is converted from short tons to barrels by multiplying by 5.

^f Natural gas, plus a small amount of supplemental gaseous fuels that cannot be identified separately.

^g Blast furnace gas, propane gas, and other manufactured and waste gases derived from fossil fuels.

^h Wood and wood-derived fuels.

ⁱ Municipal solid waste from biogenic sources, landfill gas, sludge waste, agricultural byproducts, and other biomass. Through 2000, also includes non-renewable waste (municipal solid waste from non-biogenic sources, and tire-derived fuels).

^j Batteries, chemicals, hydrogen, pitch, purchased steam, sulfur, miscellaneous technologies, and, beginning in 2001, non-renewable waste (municipal solid waste from non-biogenic sources, and tire-derived fuels).

^k Through 1988, data are for electric utilities only. Beginning in 1989, data are for electric utilities and independent power producers.

R=Revised. NA=Not available. (s)=Less than 0.5 trillion Btu.

Web Page: For annual data not displayed between 1973 and 1995, see <http://www.eia.doe.gov/emeu/mer/elect.html>.

Notes and Sources: See end of section.

Beginning with 2001 data, non-renewable waste (municipal solid waste from non-biogenic sources, and tire-derived fuels) is removed from "Biomass Waste" and included in "Other."

Table 7.3c Consumption of Selected Combustible Fuels for Electricity Generation: Commercial and Industrial Sectors (Subset of Table 7.3a)

	Commercial Sector ^a				Industrial Sector ^b							
	Coal ^c	Petroleum ^d	Natural Gas ^e	Biomass	Coal ^c	Petroleum ^d	Natural Gas ^e	Other Gases ^g	Biomass	Wood ^h	Waste ^f	
				Waste ^f					Trillion Btu			
	Thousand Short Tons	Thousand Barrels	Billion Cubic Feet	Trillion Btu	Thousand Short Tons	Thousand Barrels	Billion Cubic Feet		Trillion Btu			
1989 Total	414	1,165	18	9	9,707	8,688	444	83	267	15	37	
1990 Total	417	953	28	15	10,740	13,299	517	104	335	16	36	
1995 Total	569	649	43	21	12,171	12,265	601	114	373	13	40	
1996 Total	656	645	42	31	12,153	13,813	610	143	394	13	35	
1997 Total	630	790	39	34	12,311	11,723	623	105	367	14	36	
1998 Total	440	802	41	32	11,728	12,392	625	102	349	13	35	
1999 Total	481	931	39	33	11,432	12,595	639	112	364	8	39	
2000 Total	514	823	37	26	11,706	10,459	640	107	369	10	45	
2001 Total	532	1,023	36	R 15	10,636	10,530	654	88	370	R 7	R 44	
2002 Total	477	834	33	R 18	11,855	11,608	685	106	464	R 15	R 43	
2003 Total	582	894	38	R 19	10,440	10,424	668	127	362	R 13	R 46	
2004												
January	59	178	4	R 2	943	1,412	68	13	34	1	2	
February	54	109	4	R 2	862	874	67	12	31	R 1	2	
March	48	106	4	R 2	892	840	64	13	32	1	2	
April	38	106	3	R 2	806	841	59	12	32	1	2	
May	46	92	4	R 2	825	763	65	13	29	1	2	
June	52	87	4	R 2	854	721	62	13	31	1	2	
July	55	104	4	R 2	937	817	68	12	33	1	2	
August	56	101	4	R 2	879	727	67	14	30	1	2	
September	49	80	4	R 2	791	657	63	12	29	1	2	
October	43	59	4	R 2	832	659	60	12	31	1	2	
November	52	74	4	R 2	805	670	60	11	31	1	2	
December	50	93	4	R 2	910	1,119	65	11	32	1	2	
Total	602	1,188	46	R 22	10,337	10,100	765	148	376	R 11	R 27	
2005												
January	69	191	4	R 2	744	1,001	60	12	27	1	2	
February	64	87	3	R 2	722	712	56	11	26	1	2	
March	64	76	4	R 2	776	660	59	12	25	1	2	
April	55	56	4	R 2	716	635	57	11	23	1	2	
May	57	55	4	R 2	682	505	59	12	25	1	2	
June	70	66	4	R 2	738	636	66	12	26	1	R 2	
July	75	68	5	R 2	801	734	74	12	27	1	R 3	
August	71	63	5	R 2	792	737	73	11	25	1	3	
September	61	63	4	R 2	758	644	57	11	26	1	2	
October	55	65	4	R 2	741	697	48	10	25	1	2	
November	60	57	3	R 2	731	638	49	9	24	1	2	
December	68	92	3	R 2	768	793	56	11	25	1	2	
Total	770	939	48	R 25	8,969	8,392	714	133	306	R 9	R 28	
2006												
January	73	45	3	R 2	775	680	53	11	31	1	3	
February	66	52	3	R 2	713	580	50	11	26	1	3	
March	63	47	3	R 2	801	558	55	11	29	1	4	
April	51	40	3	R 2	762	510	52	11	26	1	3	
May	56	28	4	R 2	735	504	60	12	26	1	3	
June	65	28	4	R 2	766	499	64	11	27	1	2	
July	70	33	5	R 2	844	550	73	12	29	1	3	
August	71	37	5	R 2	847	589	73	11	30	1	3	
September	60	18	4	R 2	888	656	62	12	38	1	4	
October	58	17	4	R 2	929	582	64	12	39	1	4	
November	65	22	4	R 2	777	606	55	11	35	1	4	
December	67	48	4	2	749	710	60	10	37	1	4	
Total	765	415	48	26	9,585	7,022	720	134	373	8	42	

^a Commercial combined-heat-and-power (CHP) and commercial electricity-only plants.

^b Industrial combined-heat-and-power (CHP) and industrial electricity-only plants.

^c Anthracite, bituminous coal, subbituminous coal, lignite, waste coal, and coal synfuel.

^d Distillate fuel oil, residual fuel oil, petroleum coke, jet fuel, kerosene, other petroleum, and waste oil.

^e Natural gas, plus a small amount of supplemental gaseous fuels that cannot be identified separately.

^f Municipal solid waste from biogenic sources, landfill gas, sludge waste, agricultural byproducts, and other biomass. Through 2000, also includes non-renewable waste (municipal solid waste from non-biogenic sources, and tire-derived fuels).

^g Blast furnace gas, propane gas, and other manufactured and waste gases derived from fossil fuels.

^h Wood and wood-derived fuels.

ⁱ Batteries, chemicals, hydrogen, pitch, purchased steam, sulfur, miscellaneous technologies, and, beginning in 2001, non-renewable waste (municipal solid waste from non-biogenic sources, and tire-derived fuels).

R=Revised.

Notes: • Data are for fuels consumed to produce electricity. • See Note, "Classification of Power Plants Into Energy-Use Sectors," at end of section.

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

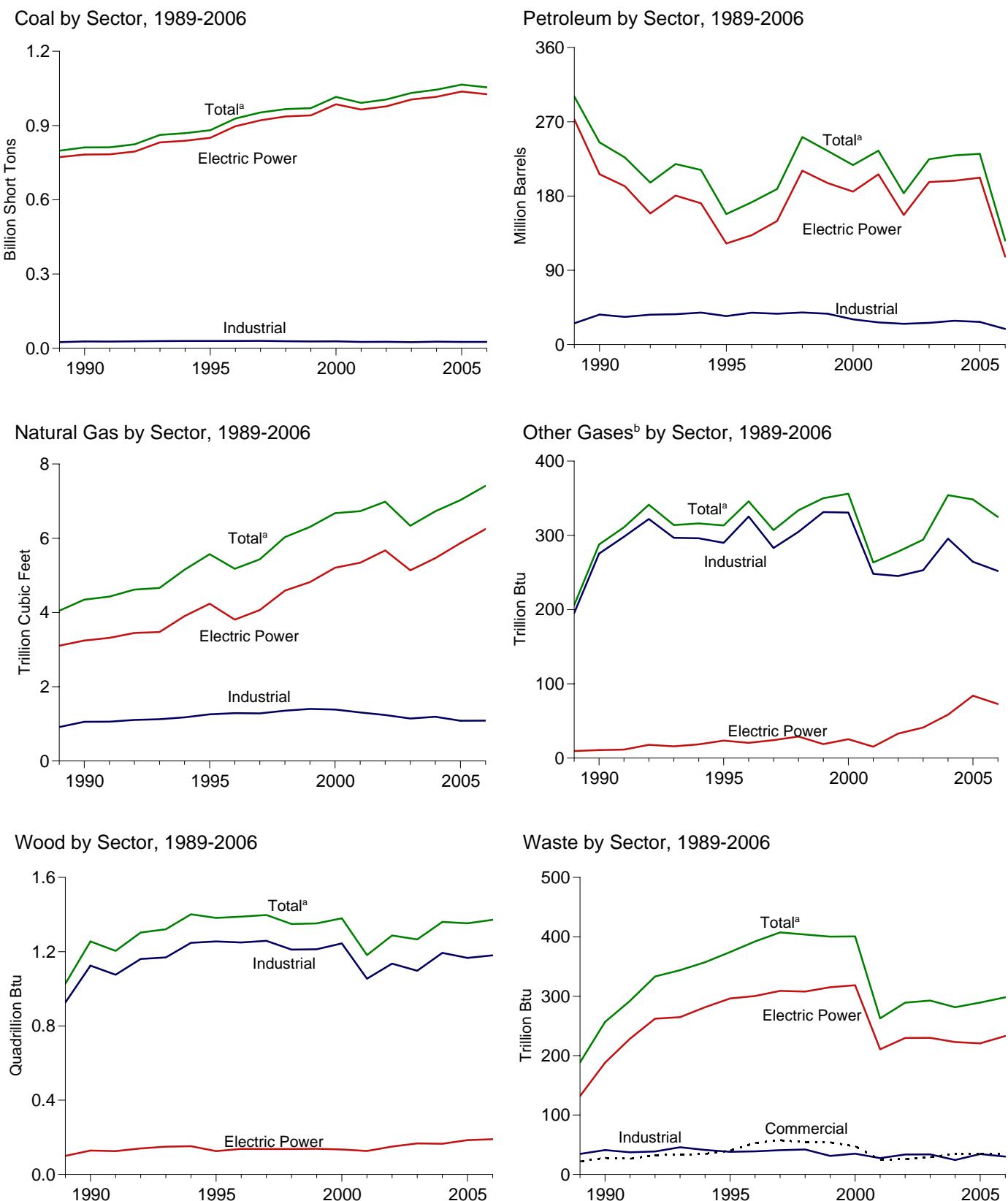
• Geographic coverage is the 50 States and the District of Columbia.

Web Page: For annual data not displayed between 1990 and 1995, see <http://www.eia.doe.gov/emeu/mer/elect.html>.

Sources: • **1989-1997:** Energy Information Administration (EIA), Form EIA-867, "Annual Nonutility Power Producer Report." • **1998-2000:** EIA, Form EIA-860B, "Annual Electric Generator Report—Nonutility." • **2001-2003:** EIA, Form EIA-906, "Power Plant Report." • **2004 forward:** EIA, Form EIA-906, "Power Plant Report," and Form EIA-920, "Combined Heat and Power Plant Report."

Beginning with 2001 data, non-renewable waste (municipal solid waste from non-biogenic sources, and tire-derived fuels) is removed from "Biomass Waste" and included in "Other."

Figure 7.4 Consumption of Selected Combustible Fuels for Electricity Generation and Useful Thermal Output



^aIncludes commercial sector.

^bBlast furnace gas, propane gas, and other manufactured and waste gases derived from fossil fuels.

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

Web Page: <http://www.eia.doe.gov/emeu/mer/elect.html>.

Sources: Tables 7.4a, 7.4b, and 7.4c.

Table 7.4a Consumption of Combustible Fuels for Electricity Generation and Useful Thermal Output: Total (All Sectors) (Sum of Tables 7.4b and 7.4c)

	Coal ^a	Petroleum					Natural Gas ^f	Other Gases ^g	Biomass		Other ⁱ
		Distillate Fuel Oil ^b	Residual Fuel Oil ^c	Other Liquids ^d	Petroleum Coke ^e	Total ^e			Wood ^h	Waste ⁱ	
	Thousand Short Tons	Thousand Barrels			Thousand Short Tons	Thousand Barrels	Billion Cubic Feet	Trillion Btu			
1989 Total	798,181	29,143	266,211	656	915	300,583	4,049	206	1,028	189	88
1990 Total	811,538	20,194	209,314	1,332	2,832	244,998	4,346	288	1,256	257	86
1995 Total	881,012	21,697	112,168	1,322	4,590	158,140	5,572	313	1,382	374	97
1996 Total	928,015	22,444	124,607	2,468	4,596	172,499	5,178	346	1,389	392	91
1997 Total	952,955	22,893	134,623	526	6,095	188,517	5,433	307	1,397	407	103
1998 Total	966,615	30,006	189,267	1,230	6,196	251,486	6,030	334	1,349	404	95
1999 Total	970,175	30,616	172,319	1,812	5,989	234,694	6,305	350	1,352	400	101
2000 Total	1,015,398	34,572	156,673	2,904	4,669	217,494	6,677	356	1,380	401	109
2001 Total	991,635	33,724	177,137	1,418	4,532	234,940	6,731	263	1,182	R 263	R 229
2002 Total	1,005,144	24,749	118,637	3,257	7,353	183,409	6,986	278	1,287	R 289	R 252
2003 Total	1,031,778	31,825	152,859	4,576	7,067	224,593	6,337	294	1,266	R 293	R 262
2004 January	94,379	4,941	19,038	1,374	801	29,358	469	30	120	R 23	R 18
February	84,798	1,745	12,261	372	677	17,761	477	29	108	R 23	R 18
March	80,507	1,564	12,787	396	680	18,149	477	32	111	R 24	R 19
April	74,479	1,412	11,860	281	684	16,971	488	30	114	R 23	R 19
May	82,752	1,960	13,378	288	716	19,208	592	31	105	R 24	R 19
June	88,168	1,878	14,561	247	682	20,095	613	30	109	R 24	R 19
July	95,905	1,770	16,618	306	727	22,330	741	29	119	R 24	R 20
August	94,414	1,591	14,926	232	779	20,646	724	30	115	R 24	R 20
September	87,574	1,849	10,899	231	664	16,297	634	30	109	R 23	R 18
October	83,665	1,353	9,309	292	717	14,540	541	28	115	R 23	R 18
November	84,184	1,246	9,187	306	655	14,015	475	27	111	R 23	R 19
December	93,974	2,211	12,652	440	938	19,995	495	28	123	R 24	R 19
Total	1,044,798	23,520	157,478	4,764	8,721	229,364	6,727	354	1,360	R 281	R 226
2005 January	94,232	3,745	14,991	846	779	23,479	483	30	119	R 24	R 17
February	82,588	1,116	9,131	190	705	13,963	419	33	116	R 21	R 16
March	85,995	1,278	10,485	221	754	15,754	482	37	114	R 24	R 18
April	75,661	1,290	8,424	308	692	13,484	483	28	107	R 23	R 18
May	81,432	1,386	7,479	211	761	12,881	517	30	110	R 25	R 18
June	91,774	1,689	14,146	238	818	20,162	700	28	109	R 25	R 18
July	98,698	2,653	17,089	449	812	24,249	894	29	116	R 26	R 19
August	99,699	2,959	19,279	522	849	27,007	909	28	116	R 25	R 20
September	90,781	2,290	16,520	285	745	22,818	670	28	110	R 24	R 17
October	86,285	1,730	13,720	269	743	19,436	514	25	112	R 23	R 16
November	83,803	1,334	8,450	243	684	13,444	460	24	109	R 24	R 17
December	94,332	2,976	17,201	487	770	24,515	497	27	115	R 25	R 18
Total	1,065,281	24,446	156,915	4,270	9,113	231,193	7,028	348	1,353	R 289	R 213
2006 January	89,733	1,328	6,751	258	778	12,229	400	27	125	R 26	R 19
February	83,480	1,090	5,326	193	692	10,071	429	25	109	R 23	R 17
March	84,993	876	3,817	232	664	8,247	499	28	114	R 25	R 20
April	74,673	1,284	4,331	157	674	9,143	511	28	107	R 24	R 18
May	82,648	1,169	4,146	235	632	8,710	606	29	110	R 26	R 19
June	89,521	1,302	5,966	237	701	11,009	749	27	111	R 25	R 19
July	99,404	1,576	7,651	274	760	13,301	989	29	119	R 26	R 20
August	100,545	1,686	9,859	339	720	15,484	963	29	118	R 26	R 19
September	86,512	853	4,698	214	670	9,116	649	27	113	R 25	R 19
October	86,009	1,040	5,137	162	708	9,882	629	27	115	R 24	R 19
November	84,591	1,079	5,160	174	599	9,407	486	25	113	R 25	R 19
December	92,060	1,138	5,029	171	625	9,465	506	24	118	25	20
Total	1,054,168	14,421	67,871	2,646	8,225	126,066	7,414	325	1,372	298	226

^a Anthracite, bituminous coal, subbituminous coal, lignite, waste coal, and coal synfuel.

^b Fuel oil nos. 1, 2, and 4. Through 2000, electric utility data also include small amounts of kerosene and jet fuel.

^c Fuel oil nos. 5 and 6. Through 2000, electric utility data also include a small amount of fuel oil no. 4.

^d Jet fuel, kerosene, other petroleum liquids, and waste oil.

^e Petroleum coke is converted from short tons to barrels by multiplying by 5.

^f Natural gas, plus a small amount of supplemental gaseous fuels that cannot be identified separately.

^g Blast furnace gas, propane gas, and other manufactured and waste gases derived from fossil fuels.

^h Wood and wood-derived fuels.

ⁱ Municipal solid waste from biogenic sources, landfill gas, sludge waste,

agricultural byproducts, and other biomass. Through 2000, also includes non-renewable waste (municipal solid waste from non-biogenic sources, and tire-derived fuels).

^j Batteries, chemicals, hydrogen, pitch, purchased steam, sulfur, miscellaneous technologies, and, beginning in 2001, non-renewable waste (municipal solid waste from non-biogenic sources, and tire-derived fuels).

R=Revised.

Notes: • Data are for fuels consumed to produce electricity and useful thermal output. • Totals may not equal sum of components due to independent rounding.

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

Web Page: For annual data not displayed between 1990 and 1995, see <http://www.eia.doe.gov/emeu/mer/elect.html>.

Sources: See sources for Tables 7.4b and 7.4c.

Beginning with 2001 data, non-renewable waste (municipal solid waste from non-biogenic sources, and tire-derived fuels) is removed from "Biomass Waste" and included in "Other."

Table 7.4b Consumption of Combustible Fuels for Electricity Generation and Useful Thermal Output: Electric Power Sector (Subset of Table 7.4a)

	Coal ^a	Petroleum					Natural Gas ^f	Other Gases ^g	Biomass		Other ⁱ
		Distillate Fuel Oil ^b	Residual Fuel Oil ^c	Other Liquids ^d	Petroleum Coke ^e	Total ^e			Wood ^h	Waste ⁱ	
		Thousand Short Tons	Thousand Barrels			Thousand Short Tons	Thousand Barrels	Billion Cubic Feet	Trillion Btu		
1989 Total	772,190	26,156	244,179	10	517	272,931	3,105	9	100	132	3
1990 Total	782,567	16,567	184,915	26	1,008	206,550	3,245	11	129	188	(s)
1995 Total	850,230	18,553	90,023	499	2,674	122,447	4,237	24	125	296	2
1996 Total	896,921	18,780	99,951	653	2,642	132,593	3,807	20	138	300	2
1997 Total	921,364	18,989	113,669	152	3,372	149,668	4,065	24	137	309	1
1998 Total	936,619	23,300	166,528	431	4,102	210,769	4,588	29	137	308	2
1999 Total	940,922	24,058	152,493	544	3,735	195,769	4,820	19	138	315	1
2000 Total	985,821	30,016	138,513	454	3,275	185,358	5,206	25	134	318	1
2001 Total	964,433	29,274	159,504	377	3,427	206,291	5,342	15	126	R 211	R 113
2002 Total	977,507	21,876	104,773	1,267	5,816	156,996	5,672	33	150	R 230	R 143
2003 Total	1,005,116	27,632	138,279	2,026	5,799	196,932	5,135	41	167	R 230	R 140
2004 January	91,712	4,159	16,759	1,023	685	25,364	361	4	15	R 18	R 11
February	82,401	1,412	10,668	149	588	15,171	373	5	14	R 18	R 11
March	78,150	1,264	11,324	199	593	15,754	375	5	14	R 19	R 11
April	72,258	1,089	10,554	144	590	14,737	389	5	12	R 18	R 11
May	80,454	1,641	12,118	155	623	17,030	485	5	12	R 19	R 12
June	85,787	1,541	13,234	126	587	17,836	508	5	12	R 19	R 12
July	93,381	1,400	15,247	144	618	19,883	626	5	16	R 19	R 13
August	92,006	1,320	13,622	121	680	18,465	613	5	15	R 19	R 12
September	85,348	1,545	9,775	119	579	14,335	529	5	14	R 18	R 11
October	81,380	1,038	8,263	125	632	12,587	440	5	13	R 18	R 11
November	81,904	915	7,267	145	565	11,150	376	5	14	R 18	R 11
December	91,487	1,782	10,984	263	631	16,186	387	5	16	R 19	R 12
Total	1,016,268	19,107	139,816	2,713	7,372	198,498	5,464	59	165	R 223	R 138
2005 January	91,789	2,919	13,063	702	687	20,119	385	6	16	R 18	R 10
February	80,305	866	7,659	108	635	11,809	331	12	15	R 16	R 9
March	83,601	1,012	8,983	126	667	13,454	386	13	16	R 18	R 10
April	73,503	1,028	7,147	148	609	11,369	390	6	13	R 17	R 10
May	79,306	1,104	6,460	139	688	11,143	423	6	14	R 19	R 10
June	89,498	1,414	12,834	125	730	18,021	594	5	15	R 19	R 11
July	96,272	2,161	15,728	248	716	21,719	777	6	17	R 20	R 11
August	97,284	2,443	17,823	287	757	24,338	791	5	17	R 19	R 11
September	88,498	1,870	15,135	193	658	20,486	578	7	16	R 18	R 10
October	84,032	1,409	11,956	150	658	16,804	435	6	15	R 17	R 10
November	81,531	1,025	7,185	117	594	11,297	373	6	15	R 19	R 10
December	91,867	2,424	15,435	342	685	21,625	406	7	16	R 19	R 11
Total	1,037,485	19,675	139,409	2,685	8,083	202,184	5,869	84	185	R 221	R 123
2006 January	87,287	1,168	5,391	117	682	10,086	316	6	17	R 20	R 10
February	81,241	928	4,186	91	602	8,217	347	6	16	R 18	R 10
March	82,618	730	2,790	153	574	6,541	410	6	17	R 19	R 10
April	72,531	1,140	3,457	82	584	7,598	425	6	13	R 18	R 10
May	80,457	1,036	3,370	105	545	7,233	508	7	14	R 20	R 11
June	87,246	1,179	5,265	113	608	9,599	632	6	16	R 19	R 11
July	96,979	1,436	6,884	136	669	11,802	870	6	17	R 20	R 11
August	98,109	1,550	9,022	135	631	13,863	844	7	17	R 20	R 11
September	84,270	761	3,934	84	582	7,687	552	6	16	R 19	R 10
October	83,706	941	4,393	98	630	8,580	530	6	15	R 19	R 10
November	82,326	946	4,239	92	513	7,841	399	6	15	R 19	R 10
December	89,684	991	3,695	81	529	7,414	413	6	17	20	11
Total	1,026,454	12,805	56,624	1,287	7,149	106,462	6,247	73	190	233	126

^a Anthracite, bituminous coal, subbituminous coal, lignite, waste coal, and coal synfuel.

^b Fuel oil nos. 1, 2, and 4. Through 2000, electric utility data also include small amounts of kerosene and jet fuel.

^c Fuel oil nos. 5 and 6. Through 2000, electric utility data also include a small amount of fuel oil no. 4.

^d Jet fuel, kerosene, other petroleum liquids, and waste oil.

^e Petroleum coke is converted from short tons to barrels by multiplying by 5.

^f Natural gas, plus a small amount of supplemental gaseous fuels that cannot be identified separately.

^g Blast furnace gas, propane gas, and other manufactured and waste gases derived from fossil fuels.

^h Wood and wood-derived fuels.

ⁱ Municipal solid waste from biogenic sources, landfill gas, sludge waste, agricultural byproducts, and other biomass. Through 2000, also includes non-renewable waste (municipal solid waste from non-biogenic sources, and tire-derived fuels).

^j Batteries, chemicals, hydrogen, pitch, purchased steam, sulfur, miscellaneous

technologies, and, beginning in 2001, non-renewable waste (municipal solid waste from non-biogenic sources, and tire-derived fuels).

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

Notes: • Data are for fuels consumed to produce electricity and useful thermal output.

• The electric power sector comprises electricity-only and combined-heat-and-power (CHP) plants within the NAICS 22 category whose primary business is to sell electricity, or electricity and heat, to the public.

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

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

Web Page: For annual data not displayed between 1990 and 1995, see <http://www.eia.doe.gov/emeu/mer/elect.htm>.

Sources: • **1989-1997:** Energy Information Administration (EIA), Form EIA-759, "Monthly Power Plant Report," and Form EIA-867, "Annual Nonutility Power Producer Report." • **1998-2000:** EIA, Form EIA-759, "Monthly Power Plant Report," and Form EIA-860B, "Annual Electric Generator Report—Nonutility."

• **2001-2003:** Form EIA-906, "Power Plant Report." • **2004 forward:** EIA, Form EIA-906, "Power Plant Report," and Form EIA-920, "Combined Heat and Power Plant Report."

Beginning with 2001 data, non-renewable waste (municipal solid waste from non-biogenic sources, and tire-derived fuels) is removed from "Biomass Waste" and included in "Other."

Table 7.4c Consumption of Selected Combustible Fuels for Electricity Generation and Useful Thermal Output: Commercial and Industrial Sectors (Subset of Table 7.4a)

	Commercial Sector ^a				Industrial Sector ^b						
	Coal ^c	Petroleum ^d	Natural Gas ^e	Biomass	Coal ^c	Petroleum ^d	Natural Gas ^e	Other Gases ^g	Biomass		
				Waste ^f					Wood ^h	Waste ^f	
	Thousand Short Tons	Thousand Barrels	Billion Cubic Feet	Trillion Btu	Thousand Short Tons	Thousand Barrels	Billion Cubic Feet		Trillion Btu		
1989 Total	1,125	1,967	30	22	24,867	25,685	914	195	926	35	85
1990 Total	1,191	2,056	46	28	27,781	36,392	1,055	275	1,125	41	86
1995 Total	1,419	1,245	78	40	29,363	34,448	1,258	290	1,255	38	95
1996 Total	1,660	1,246	82	53	29,434	38,661	1,289	325	1,249	39	89
1997 Total	1,738	1,584	87	58	29,853	37,265	1,282	283	1,259	41	102
1998 Total	1,443	1,807	87	54	28,553	38,910	1,355	305	1,211	42	93
1999 Total	1,490	1,613	84	54	27,763	37,312	1,401	331	1,213	31	99
2000 Total	1,547	1,615	85	47	28,031	30,520	1,386	331	1,244	35	108
2001 Total	1,448	1,832	79	R 25	25,755	26,817	1,310	248	1,054	R 27	R 101
2002 Total	1,405	1,250	74	R 26	26,232	25,163	1,240	245	1,136	R 34	R 92
2003 Total	1,816	1,449	58	R 29	24,846	26,212	1,144	253	1,097	R 34	R 103
2004											
January	202	341	6	R 3	2,465	3,653	101	26	105	R 2	R 6
February	184	218	6	R 3	2,213	2,372	98	24	95	R 2	R 6
March	181	187	6	R 3	2,177	2,208	96	27	97	R 2	R 6
April	141	156	5	R 3	2,080	2,078	93	26	102	R 2	R 6
May	152	143	6	R 3	2,147	2,034	101	26	93	R 2	R 6
June	152	129	6	R 3	2,229	2,130	99	25	97	R 2	R 6
July	154	150	7	R 3	2,370	2,297	108	23	103	R 2	R 6
August	154	149	7	R 3	2,253	2,031	105	26	100	R 2	R 5
September	142	124	6	R 3	2,084	1,838	98	25	95	R 2	R 5
October	131	110	6	R 3	2,153	1,842	95	24	102	R 2	R 5
November	158	131	6	R 3	2,122	2,734	93	22	97	R 2	R 6
December	165	169	6	R 3	2,321	3,640	102	22	108	R 2	R 5
Total	1,917	2,009	72	R 34	26,613	28,857	1,191	296	1,193	R 24	R 67
2005											
January	192	308	6	R 3	2,252	3,053	92	24	103	R 3	R 6
February	168	158	5	R 3	2,114	1,996	84	21	100	R 3	R 5
March	173	131	6	R 3	2,222	2,169	90	24	98	R 3	R 6
April	135	83	6	R 3	2,023	2,032	87	23	94	R 3	R 6
May	136	71	5	R 3	1,990	1,667	89	24	96	R 3	R 6
June	158	117	6	R 3	2,118	2,024	100	23	94	R 3	R 6
July	166	125	7	R 3	2,260	2,406	110	23	99	R 3	R 6
August	161	126	7	R 3	2,254	2,543	110	23	99	R 3	R 7
September	148	113	6	R 3	2,135	2,219	87	22	94	R 3	R 6
October	138	115	5	R 3	2,115	2,516	74	20	97	3	R 5
November	157	97	12	R 3	2,116	2,049	75	19	94	R 3	R 5
December	190	185	5	R 3	2,275	2,705	85	20	98	R 3	R 6
Total	1,922	1,630	75	R 34	25,875	27,380	1,084	264	1,166	R 34	R 70
2006											
January	190	99	4	R 3	2,256	2,044	79	20	108	R 3	R 6
February	172	109	5	R 3	2,067	1,745	77	20	93	R 2	R 6
March	173	84	5	R 3	2,201	1,623	84	22	97	R 2	R 7
April	134	54	5	R 3	2,008	1,491	81	21	94	R 2	R 6
May	139	34	6	R 3	2,051	1,443	92	22	95	R 3	R 7
June	149	40	21	R 3	2,126	1,371	97	21	95	R 3	R 6
July	166	53	7	R 3	2,259	1,446	112	23	102	R 3	R 7
August	166	62	7	R 3	2,269	1,559	112	22	101	R 3	R 7
September	140	31	6	R 3	2,103	1,398	91	21	97	R 2	R 7
October	139	29	6	R 3	2,163	1,272	93	22	100	R 2	R 7
November	163	42	5	R 3	2,103	1,525	82	19	97	R 2	R 7
December	186	72	5	R 3	2,190	1,979	87	18	102	3	7
Total	1,917	708	81	R 35	25,796	18,896	1,087	252	1,181	30	80

^a Commercial combined-heat-and-power (CHP) and commercial electricity-only plants.

^b Industrial combined-heat-and-power (CHP) and industrial electricity-only plants.

^c Anthracite, bituminous coal, subbituminous coal, lignite, waste coal, and coal synfuel.

^d Distillate fuel oil, residual fuel oil, petroleum coke, jet fuel, kerosene, other petroleum, and waste oil.

^e Natural gas, plus a small amount of supplemental gaseous fuels that cannot be identified separately.

^f Municipal solid waste from biogenic sources, landfill gas, sludge waste, agricultural byproducts, and other biomass. Through 2000, also includes non-renewable waste (municipal solid waste from non-biogenic sources, and tire-derived fuels).

^g Blast furnace gas, propane gas, and other manufactured and waste gases derived from fossil fuels.

^h Wood and wood-derived fuels.

ⁱ Batteries, chemicals, hydrogen, pitch, purchased steam, sulfur, miscellaneous technologies, and, beginning in 2001, non-renewable waste (municipal solid waste from non-biogenic sources, and tire-derived fuels).

R-Revised.

Notes: • Data are for fuels consumed to produce electricity and useful thermal output. • See Note, "Classification of Power Plants Into Energy-Use Sectors," at end of section. • Totals may not equal sum of components due to independent rounding. • Geographic coverage is the 50 States and the District of Columbia.

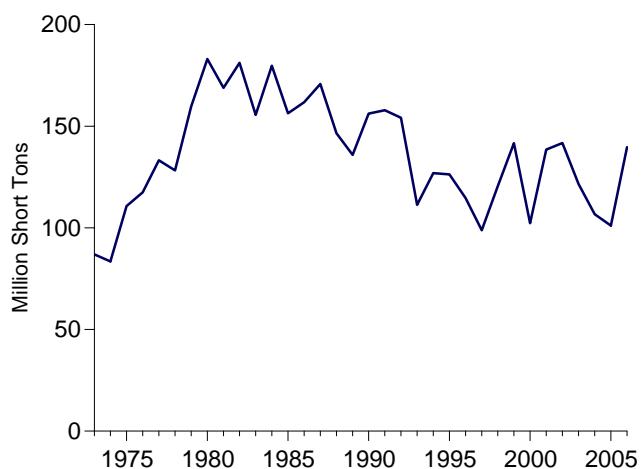
Web Page: For annual data not displayed between 1990 and 1995, see <http://www.eia.doe.gov/emeu/mer/elect.html>.

Sources: • **1989-1997:** Energy Information Administration (EIA), Form EIA-867, "Annual Nonutility Power Producer Report." • **1998-2000:** EIA, Form EIA-860B, "Annual Electric Generator Report—Nonutility." • **2001-2003:** EIA, Form EIA-906, "Power Plant Report." • **2004 forward:** EIA, Form EIA-906, "Power Plant Report," and Form EIA-920, "Combined Heat and Power Plant Report."

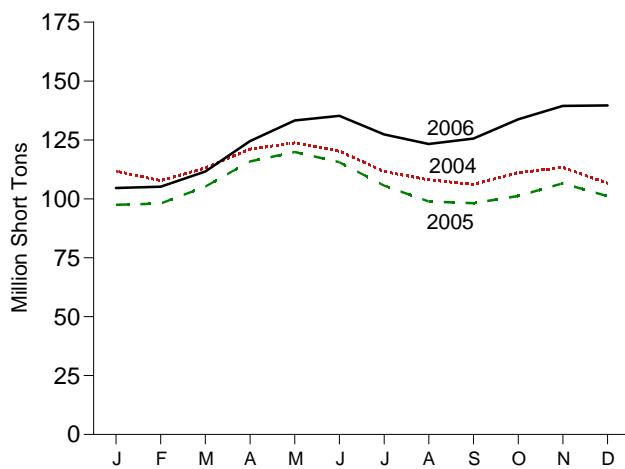
Beginning with 2001 data, non-renewable waste (municipal solid waste from non-biogenic sources, and tire-derived fuels) is removed from "Biomass Waste" and included in "Other."

Figure 7.5 Stocks of Coal and Petroleum: Electric Power Sector

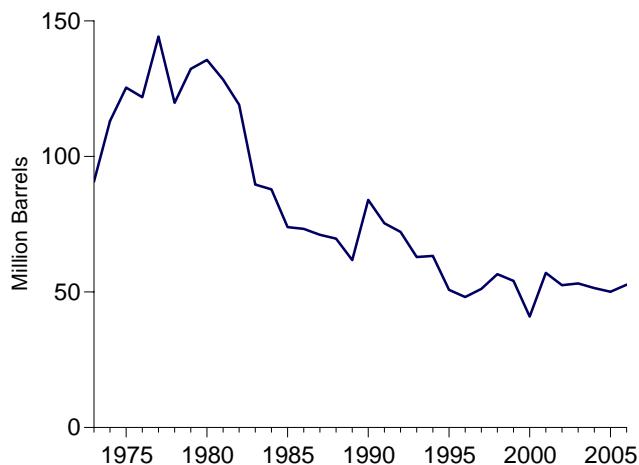
Coal, 1973-2006



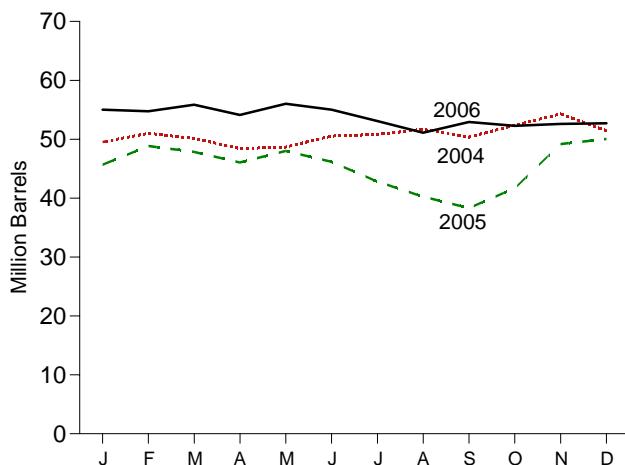
Coal, Monthly



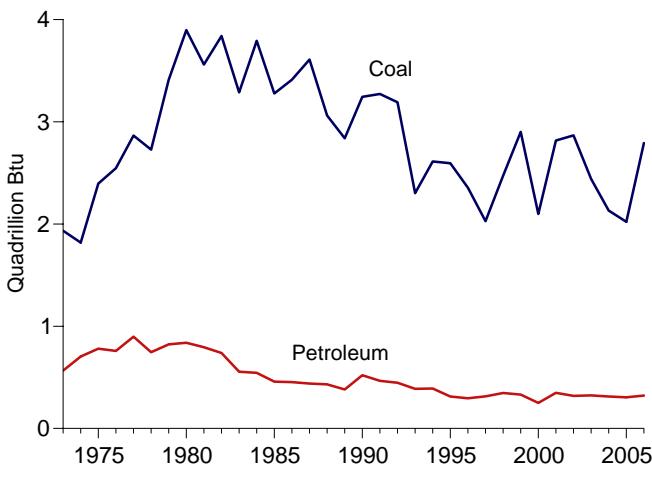
Total Petroleum, 1973-2006



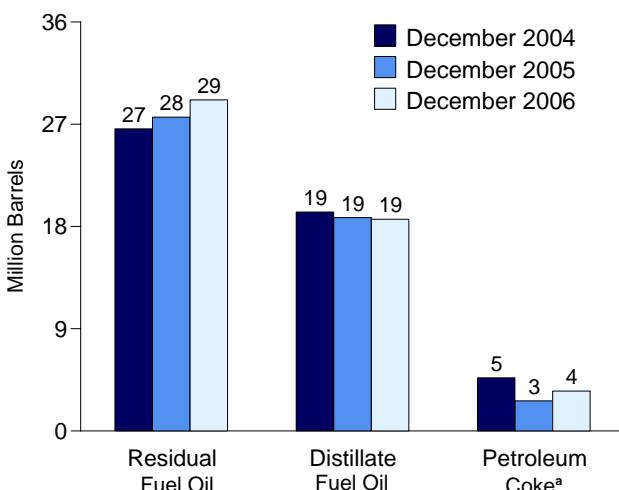
Total Petroleum, Monthly



Coal and Petroleum Stocks, 1973-2006



Petroleum by Type, End of Month



^aConverted from short tons to barrels by multiplying by five.
Note: Because vertical scales differ, graphs should not be compared.

Web Page: <http://www.eia.doe.gov/emeu/mer/elect.html>.
Source: Tables 7.5, A1, and A5 (column 6).

Table 7.5 Stocks of Coal and Petroleum: Electric Power Sector

	Coal ^a	Petroleum				
		Distillate Fuel Oil ^b	Residual Fuel Oil ^c	Other Liquids ^d	Petroleum Coke ^e	Total ^e
	Thousand Short Tons	Thousand Barrels			Thousand Short Tons	Thousand Barrels
1973 Year	86,967	10,095	79,121	NA	312	90,776
1975 Year	110,724	16,432	108,825	NA	31	125,413
1980 Year	183,010	30,023	105,351	NA	52	135,635
1985 Year	156,376	16,386	57,304	NA	49	73,933
1990 Year	156,166	16,471	67,030	NA	94	83,970
1995 Year	126,304	15,392	35,102	NA	65	50,821
1996 Year	114,623	15,216	32,473	NA	91	48,146
1997 Year	98,826	15,456	33,336	NA	469	51,138
1998 Year	120,501	16,343	37,451	NA	559	56,591
1999 Year ^f	141,604	17,995	34,256	NA	372	54,109
2000 Year	102,296	15,127	24,748	NA	211	40,932
2001 Year	138,496	20,486	34,594	NA	390	57,031
2002 Year	141,714	17,413	25,723	800	1,711	52,490
2003 Year	121,567	19,153	25,820	779	1,484	53,170
2004 January	111,758	18,575	23,961	568	1,287	49,539
February	107,709	18,724	25,561	531	1,236	50,994
March	113,131	18,552	24,626	662	1,256	50,118
April	121,104	18,348	24,289	658	1,027	48,428
May	123,739	18,206	24,900	662	981	48,671
June	120,263	18,369	25,960	736	1,097	50,551
July	111,625	18,756	25,907	764	1,075	50,802
August	108,062	18,676	26,593	758	1,129	51,675
September	106,209	18,514	25,547	718	1,119	50,372
October	111,148	18,657	27,629	753	1,063	52,353
November	113,299	19,378	29,168	816	982	54,273
December	106,669	19,275	26,596	879	937	51,434
2005 January	97,514	17,109	23,950	790	765	45,675
February	98,059	17,597	26,392	890	796	48,860
March	105,226	17,358	26,111	924	690	47,844
April	115,919	17,143	24,578	920	685	46,067
May	119,902	17,085	26,855	920	633	48,024
June	115,524	17,311	24,330	921	723	46,176
July	105,631	16,876	21,277	885	757	42,824
August	98,879	17,204	19,252	867	583	40,238
September	98,192	17,021	17,611	936	550	38,316
October	101,218	17,402	20,173	1,041	612	41,677
November	106,573	18,457	26,655	1,057	602	49,180
December	101,137	18,778	27,624	1,012	530	50,062
2006 January	104,582	19,063	32,074	1,058	565	55,021
February	105,125	18,956	31,661	1,075	613	54,758
March	111,579	18,990	32,373	1,087	684	55,870
April	124,499	18,804	31,041	1,101	635	54,120
May	133,266	18,801	32,788	1,094	671	56,035
June	135,234	18,842	31,829	1,081	651	55,009
July	127,361	18,687	30,311	1,081	601	53,085
August	123,285	18,731	28,319	1,082	593	51,099
September	125,572	18,659	29,782	1,298	639	52,932
October	133,772	18,491	28,702	1,333	749	52,272
November	139,476	18,626	28,623	1,342	800	52,593
December	139,679	18,636	29,145	1,408	704	52,707

^a Anthracite, bituminous coal, subbituminous coal, and lignite.

^b Fuel oil nos. 1, 2 and 4. For 1973-1979, data are for gas turbine and internal combustion plant stocks of petroleum. For 1980-2000, electric utility data also include small amounts of kerosene and jet fuel.

^c Fuel oil nos. 5 and 6. For 1973-1979, data are for steam plant stocks of petroleum. For 1980-2000, electric utility data also include a small amount of fuel oil no. 4.

^d Jet fuel and kerosene. Through 2003, data also include a small amount of waste oil.

^e Petroleum coke is converted from short tons to barrels by multiplying by 5.

^f Through 1998, data are for electric utilities only. Beginning in 1999, data are for electric utilities and independent power producers.

NA=Not available.

Notes: • The electric power sector comprises electricity-only and combined-heat-and-power (CHP) plants within the NAICS 22 category whose primary business is to sell electricity, or electricity and heat, to the public.

• Stocks are at end of period. • Totals may not equal sum of components due to independent rounding. • Geographic coverage is the 50 States and the District of Columbia.

Web Page: For annual data not displayed between 1973 and 1995, see <http://www.eia.doe.gov/emeu/mer/elect.html>.

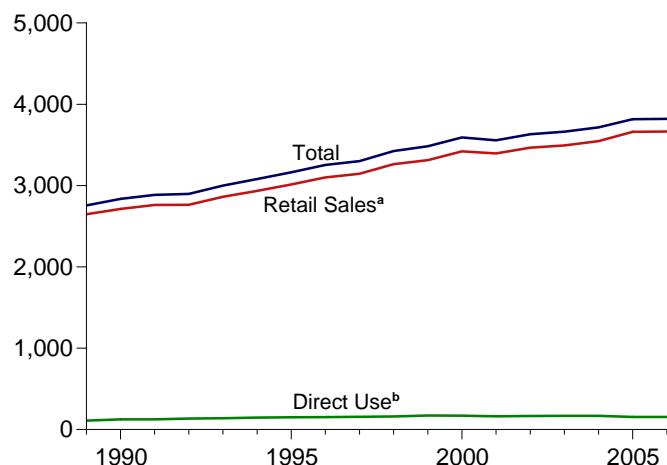
Sources: • **1973-September 1977:** Federal Power Commission, Form FPC-4, "Monthly Power Plant Report." • **October 1977-1981:** Federal Energy Regulatory Commission, Form FPC-4, "Monthly Power Plant Report."

• **1982-1988:** Energy Information Administration (EIA), Form EIA-759, "Monthly Power Plant Report." • **1989-1997:** EIA, Form EIA-759, "Monthly Power Plant Report," and Form EIA-867, "Annual Nonutility Power Producer Report."

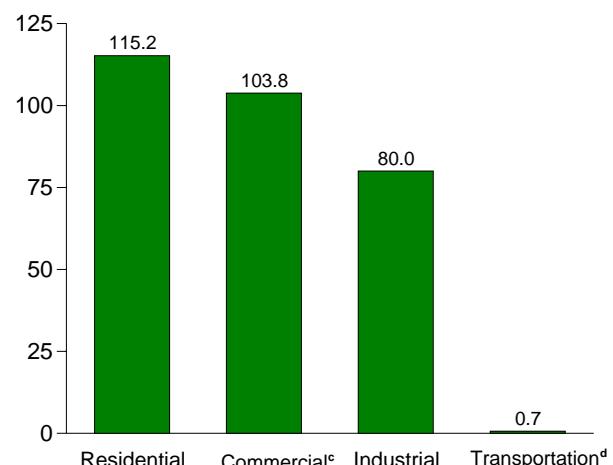
• **1998-2000:** EIA, Form EIA-759, "Monthly Power Plant Report," and Form EIA-860B, "Annual Electric Generator Report—Nonutility." • **2001-2003:** Form EIA-906, "Power Plant Report." • **2004 forward:** EIA, Form EIA-906, "Power Plant Report," and Form EIA-920, "Combined Heat and Power Plant Report."

Figure 7.6 Electricity End Use
(Billion Kilowatthours)

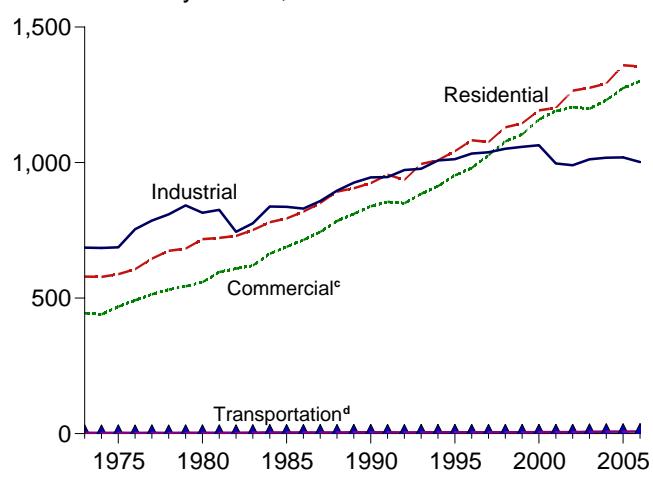
Electricity End Use Overview, 1989-2006



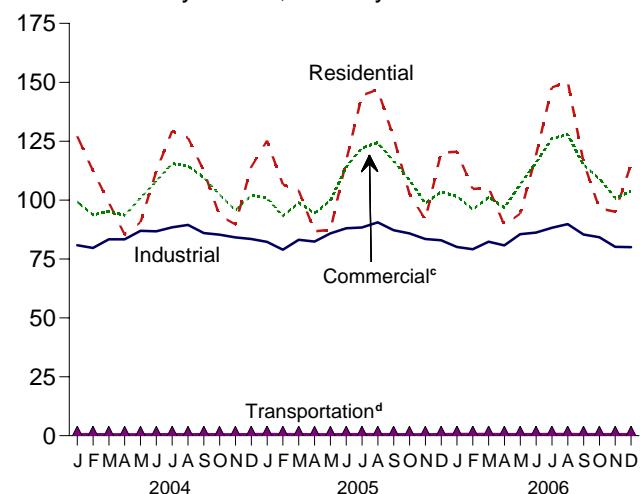
Retail Sales^a by Sector, December 2006



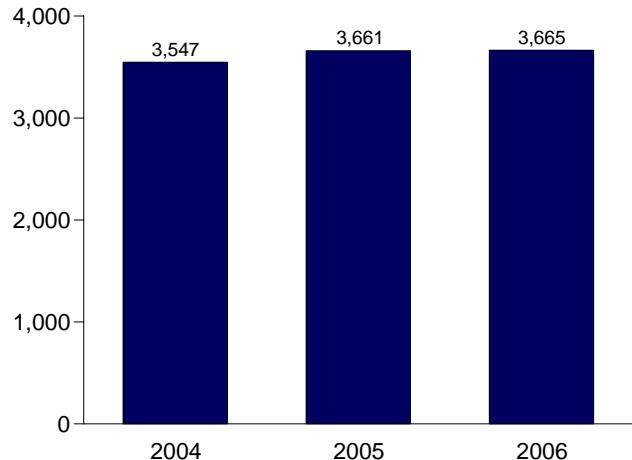
Retail Sales^a by Sector, 1973-2006



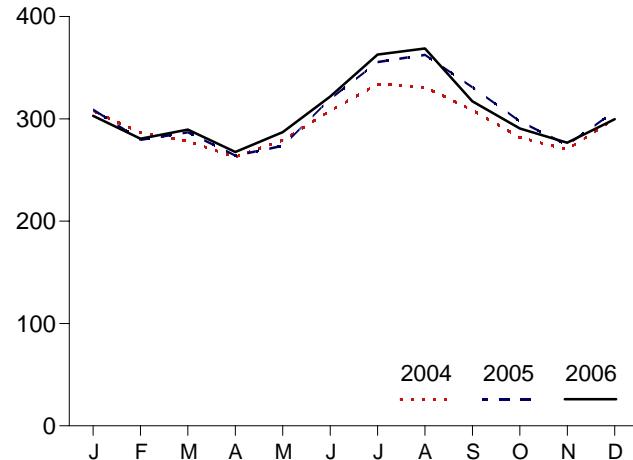
Retail Sales^a by Sector, Monthly



Retail Sales^a Total, January-December



Retail Sales^a Total, Monthly



^aElectricity retail sales to ultimate customers reported by electric utilities and other energy service providers.

^bSee "Direct Use" in Glossary.

^cCommercial sector, including public street and highway lighting, inter-departmental sales, and other sales to public authorities.

^dTransportation sector, including sales to railroads and railways.

Note: Because vertical scales differ, graphs should not be compared.
Web Page: <http://www.eia.doe.gov/emeu/mer/elect.html>.

Source: Table 7.6.

Table 7.6 Electricity End Use
(Million Kilowatthours)

	Retail Sales ^a					Direct Use ^f	Total End Use ^g	Discontinued Retail Sales Series	
	Residential	Commercial ^b	Industrial ^c	Transportation ^d	Total Retail Sales ^e			Commercial (Old) ^h	Other (Old) ⁱ
1973 Total	579,231	E 444,505	686,085	E 3,087	1,712,909	NA	1,712,909	388,266	59,326
1975 Total	588,140	E 468,296	687,680	E 2,974	1,747,091	NA	1,747,091	403,049	68,222
1980 Total	717,495	558,643	815,067	3,244	2,094,449	NA	2,094,449	488,155	73,732
1985 Total	793,934	689,121	836,772	4,147	2,323,974	NA	2,323,974	605,989	87,279
1990 Total	924,019	838,263	945,522	4,751	2,712,555	124,529	2,837,084	751,027	91,988
1995 Total	1,042,501	953,117	1,012,693	4,975	3,013,287	150,677	3,163,963	862,685	95,407
1996 Total	1,082,512	980,061	1,033,631	4,923	3,101,127	152,638	3,253,765	887,445	97,539
1997 Total	1,075,880	1,026,626	1,038,197	4,907	3,145,610	156,239	3,301,849	928,633	102,901
1998 Total	1,130,109	1,077,957	1,051,203	4,962	3,264,231	160,866	3,425,097	979,401	103,518
1999 Total	1,144,923	1,103,821	1,058,217	5,126	3,312,087	171,629	3,483,716	1,001,996	106,952
2000 Total	1,192,446	1,159,347	1,064,239	5,382	3,421,414	170,943	3,592,357	1,055,232	109,496
2001 Total	1,201,607	1,190,518	996,609	5,724	3,394,458	162,649	3,557,107	1,083,069	113,174
2002 Total	1,265,180	1,204,531	990,238	5,517	3,465,466	166,184	3,631,650	1,104,497	105,552
2003 Total	1,275,824	1,198,728	1,012,373	6,810	3,493,734	168,295	3,662,029	—	—
2004 January	127,121	99,281	80,823	631	307,856	E 14,800	322,657	—	—
February	112,464	93,677	79,668	624	286,433	E 13,505	299,938	—	—
March	98,947	95,331	83,328	576	278,182	E 13,819	292,001	—	—
April	85,377	93,532	83,369	573	262,851	E 13,458	276,309	—	—
May	90,598	100,879	86,988	570	279,036	E 13,985	293,021	—	—
June	112,335	108,122	86,732	583	307,772	E 14,079	321,851	—	—
July	129,305	115,495	88,479	627	333,907	E 14,957	348,864	—	—
August	126,423	114,452	89,440	610	330,927	E 14,469	345,396	—	—
September	112,338	109,595	86,019	614	308,566	E 13,807	322,373	—	—
October	93,466	102,326	85,346	599	281,737	E 13,476	295,213	—	—
November	89,650	95,753	84,191	570	270,163	E 13,392	283,555	—	—
December	113,956	101,980	83,467	647	300,050	E 14,721	314,771	—	—
Total	1,291,982	1,230,425	1,017,850	7,224	3,547,479	168,470	3,715,949	—	—
2005 January	125,288	100,862	82,242	687	309,079	E 13,353	322,431	—	—
February	106,667	93,257	78,935	655	279,514	E 12,049	291,563	—	—
March	104,065	98,924	83,185	618	286,791	E 12,957	299,748	—	—
April	86,749	94,439	82,389	590	264,168	E 12,277	276,445	—	—
May	87,384	99,702	85,852	562	273,500	E 12,659	286,159	—	—
June	116,627	114,101	88,033	620	319,381	E 13,554	332,935	—	—
July	144,476	122,037	88,386	615	355,514	E 14,785	370,299	—	—
August	146,905	124,436	90,536	667	362,544	E 14,824	377,367	—	—
September	126,516	116,517	87,256	635	330,923	E 12,657	343,580	—	—
October	102,686	108,474	85,856	610	297,626	E 11,305	308,931	—	—
November	91,687	98,799	83,512	587	274,585	E 11,534	286,119	—	—
December	120,177	103,531	82,974	660	307,343	E 12,748	320,091	—	—
Total	1,359,227	1,275,079	1,019,156	7,506	3,660,969	154,700	3,815,669	—	—
2006 January	120,527	101,590	80,072	724	302,913	E 12,678	315,591	—	—
February	104,731	96,009	79,136	687	280,563	E 11,586	292,149	—	—
March	105,197	101,274	82,354	704	289,529	E 12,310	301,839	—	—
April	89,500	96,734	80,751	641	267,626	E 11,767	279,392	—	—
May	94,213	106,684	85,547	630	287,075	E 12,944	300,019	—	—
June	118,972	115,886	86,188	671	321,717	E 13,070	334,787	—	—
July	147,807	126,074	88,256	693	362,830	E 14,669	377,500	—	—
August	150,384	127,839	89,824	698	368,744	E 14,597	383,341	—	—
September	116,103	114,931	85,424	677	317,135	E 12,838	329,973	—	—
October	96,520	109,195	84,214	659	290,589	E 13,136	303,725	—	—
November	95,052	100,859	80,161	627	276,699	E 12,165	288,864	—	—
December	115,225	103,776	80,002	674	299,678	E 12,870	312,548	—	—
Total	1,354,232	1,300,851	1,001,929	8,086	3,665,099	E 154,630	3,819,729	—	—

^a Electricity retail sales to ultimate customers reported by electric utilities and, beginning in 1996, other energy service providers.

^b Commercial sector, including public street and highway lighting, interdepartmental sales, and other sales to public authorities.

^c Industrial sector. Through 2002, excludes agriculture and irrigation; beginning in 2003, includes agriculture and irrigation.

^d Transportation sector, including sales to railroads and railways.

^e The sum of "Residential," "Commercial," "Industrial," and "Transportation."

^f Use of electricity that is 1) self-generated, 2) produced by either the same entity that consumes the power or an affiliate, and 3) used in direct support of a service or industrial process located within the same facility or group of facilities that house the generating equipment. Direct use is exclusive of station use.

^g The sum of "Total Retail Sales" and "Direct Use."

^h "Commercial (Old)" is a discontinued series—data are for the commercial sector, excluding public street and highway lighting, interdepartmental sales, and other sales to public authorities.

ⁱ "Other (Old)" is a discontinued series—data are for public street and highway lighting, interdepartmental sales, other sales to public authorities, agriculture and irrigation, and transportation including railroads and railways.

E=Estimate. NA=Not available. —=Not applicable.

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

Web Page: For annual data not displayed between 1973 and 1995, see <http://www.eia.doe.gov/emeu/mer/elect.html>.

Sources: See end of section.

Electricity

Note. Classification of Power Plants Into Energy-Use Sectors

The Energy Information Administration (EIA) classifies power plants (both electricity-only and combined-heat-and-power plants) into energy-use sectors based on the North American Industry Classification System (NAICS), which replaced the Standard Industrial Classification (SIC) system in 1997. Plants with a NAICS code of 22 are assigned to the Electric Power Sector. Those with NAICS codes beginning with 11 (agriculture, forestry, fishing, and hunting); 21 (mining, including oil and gas extraction); 23 (construction); 31-33 (manufacturing); 2212 (natural gas distribution); and 22131 (water supply and irrigation systems) are assigned to the Industrial Sector. Those with all other codes are assigned to the Commercial Sector. Form EIA-860, "Annual Electric Generator Report," asks respondents to indicate the primary purpose of the facility by assigning a NAICS code from the list at:

[http://www.eia.doe.gov/cneaf/electricity/forms/eia860/eia860.doc.](http://www.eia.doe.gov/cneaf/electricity/forms/eia860/eia860.doc)

Table 7.1 Sources:

Net Generation, Electric Power Sector: Table 7.2b.

Net Generation, Commercial Sector: Table 7.2c.

Net Generation, Industrial Sector:

1973–September 1977: Federal Power Commission (FPC), Form FPC-4, "Monthly Power Plant Report," for plants with generating capacity exceeding 10 megawatts, and FPC, Form FPC-12C, "Industrial Electric Generating Capacity," for all other plants.

October 1977–1978: Federal Energy Regulatory Commission (FERC), Form FPC-4, "Monthly Power Plant Report," for plants with generating capacity exceeding 10 megawatts, and FERC, Form FPC-12C, "Industrial Electric Generating Capacity," for all other plants.

1979: FERC, Form FPC-4, "Monthly Power Plant Report," for plants with generating capacity exceeding 10 megawatts, and EIA estimates for all other plants.

1980–1988: Estimated by EIA as the average generation over the 6-year period of 1974–1979.

1989 forward: Table 7.2c.

Imports and Exports, Electricity Trade With Canada and Mexico, 1973–1989:

1973–September 1977: Unpublished Federal Power Commission data.

October 1977–1980: Unpublished Economic Regulatory Administration (ERA) data.

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

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

1984–1986: DOE, ERA, *Electricity Transactions Across International Borders*.

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

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

Imports and Exports, Electricity Trade with Canada, 1990 Forward:

National Energy Board of Canada, data for total sales (firm and interruptible; which exclude non-revenue, inadvertent, and service) from Canada to the United States, and data for total purchases (which exclude non-revenue, inadvertent, and service) by Canada from the United States.

Imports and Exports, Electricity Trade with Mexico, 1990 Forward:

DOE, Fossil Energy, Office of Fuels Programs, Form FE-781R, "Annual Report of International Electrical Export/Import Data." For 2001 forward, data from the California Independent System Operator were used in combination with the Form FE-781R values to estimate electricity trade with Mexico.

T&D Losses and Unaccounted for: Calculated as the sum of total net generation and imports minus end use and exports.

End Use: Table 7.6.

Table 7.2b Sources:

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."

1982–1988: Energy Information Administration (EIA), Form EIA-759, "Monthly Power Plant Report."

1989–1997: EIA, Form EIA-759, "Monthly Power Plant Report," and Form EIA-867, "Annual Nonutility Power Producer Report."

1998–2000: EIA, Form EIA-759, "Monthly Power Plant Report," and Form EIA-860B, "Annual Electric Generator Report—Nonutility."

2001–2003: EIA, Form EIA-906, "Power Plant Report."

2004 forward: EIA, Form EIA-906, "Power Plant Report," and Form EIA-920, "Combined Heat and Power Plant Report."

Table 7.3b Notes:

- Data are for fuels consumed to produce electricity. Data also include fuels consumed to produce useful thermal output at a small number of electric utility combined-heat-and-power (CHP) plants.
- The electric power sector comprises electricity-only and combined-heat-and-power (CHP) plants within the NAICS 22 category whose primary business is to sell electricity, or electricity and heat, to the

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

Table 7.3b Sources:

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."
1982-1988: Energy Information Administration (EIA), Form EIA-759, "Monthly Power Plant Report."
1989-1997: EIA, Form EIA-759, "Monthly Power Plant Report," and Form EIA-867, "Annual Nonutility Power Producer Report."
1998-2000: EIA, Form EIA-759, "Monthly Power Plant Report," and Form EIA-860B, "Annual Electric Generator Report-Nonutility."
2001-2003: EIA, Form EIA-906, "Power Plant Report."
2004 forward: EIA, Form EIA-906, "Power Plant Report," and Form EIA-920, "Combined Heat and Power Plant Report."

Table 7.6 Sources:

Retail Sales: Residential and Industrial

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 FPC-5, "Monthly Statement of Electric Operating Revenue and Income."
March 1980-1982: FERC, Form FPC-5, "Electric Utility Company Monthly Statement."
1983: Energy Information Administration (EIA), Form EIA-826, "Electric Utility Company Monthly Statement."

1984-1991: EIA, Form EIA-861, "Annual Electric Utility Report."

1992 forward: EIA, *Electric Power Monthly*, March 2007, Table 5.1.

Retail Sales: Commercial

1973-2002: Estimated by EIA as the sum of "Commercial (Old)" and the non-transportation portion of "Other (Old)." See estimation methodology at http://www.eia.doe.gov/emeu/states/sep_use/notes/use_elec.pdf.
2003 forward: EIA, *Electric Power Monthly*, March 2007, Table 5.1

Retail Sales: Transportation

1973-2002: Estimated by EIA as the transportation portion of "Other (Old)." See estimation methodology at http://www.eia.doe.gov/emeu/states/sep_use/notes/use_elec.pdf.
2003 forward: EIA, *Electric Power Monthly*, March 2007, Table 5.1.

Direct Use, Annual:

1989-1993: EIA, Form EIA-867, "Annual Nonutility Power Producer Report."
1994-2005: EIA, *Electric Power Annual 2005*, October 2006, Table 7.2.

Direct Use, Monthly: Annual shares are calculated as annual direct use divided by annual commercial and industrial net generation (on Table 7.1). Then monthly direct use estimates are calculated as the annual share multiplied by the monthly commercial and industrial net generation values. For 2006, the 2005 annual share is used.

Discontinued Retail Sales Series:

Commercial (Old) and Other (Old)

1973-2002: See sources for "Residential" and "Industrial."

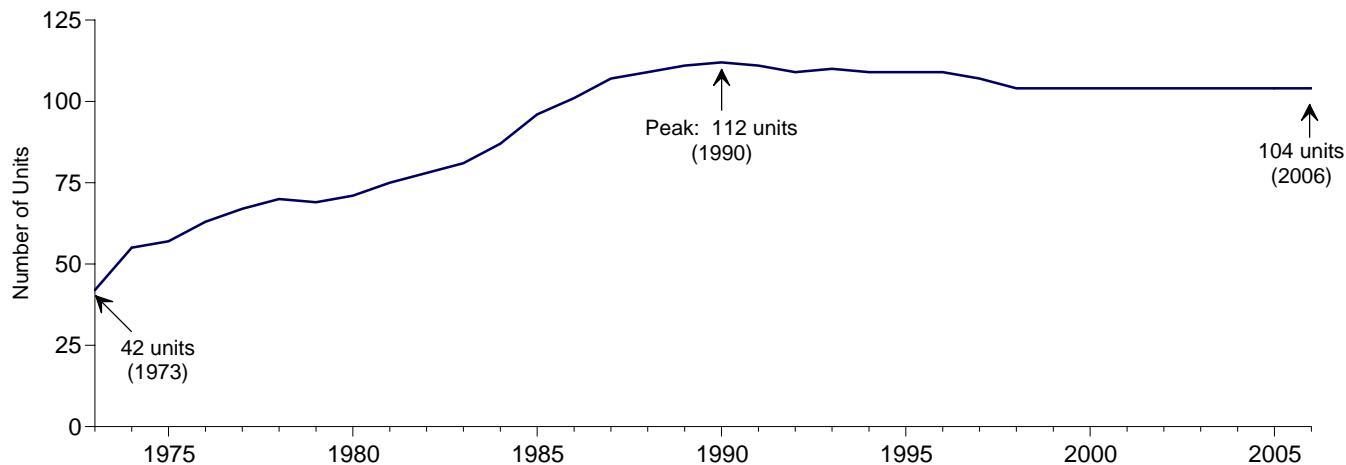
Nuclear Energy



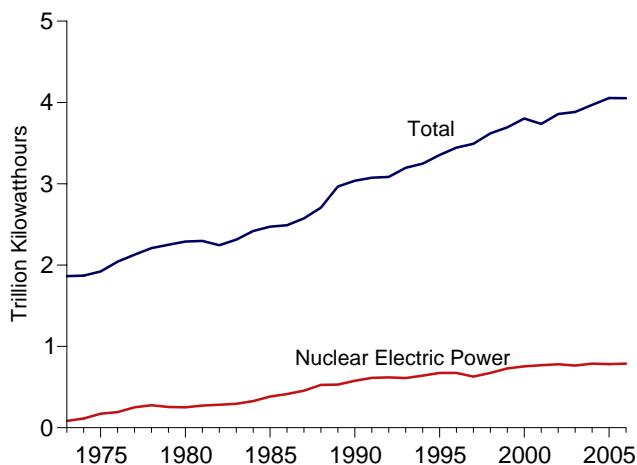
Site of Shippingport atomic power station, the first commercial nuclear power plant in the United States (rectangular reactor building and foreground); background, Beaver Valley 1 and 2 nuclear power plants and Bruce Mansfield coal-fired power plant (southwestern Pennsylvania). Source: U.S. Department of Energy.

Figure 8.1 Nuclear Energy Overview

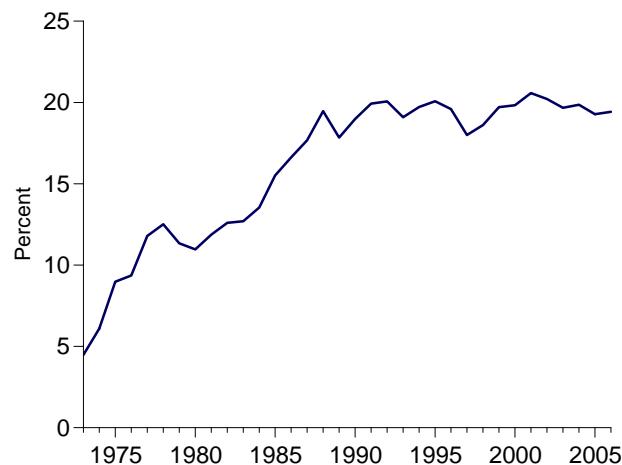
Operable Units, End of Year, 1973-2006



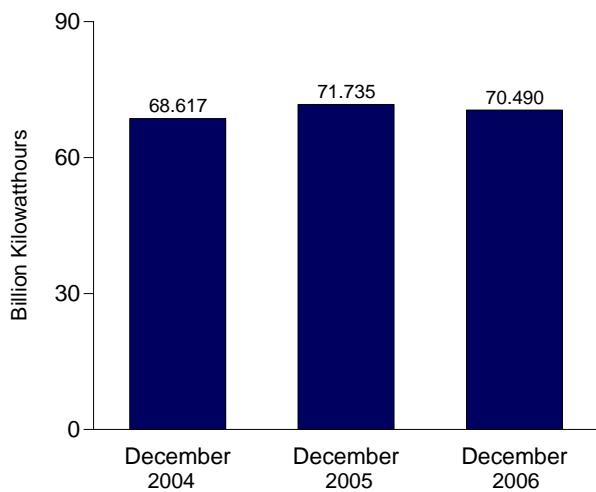
Electricity Net Generation, 1973-2006



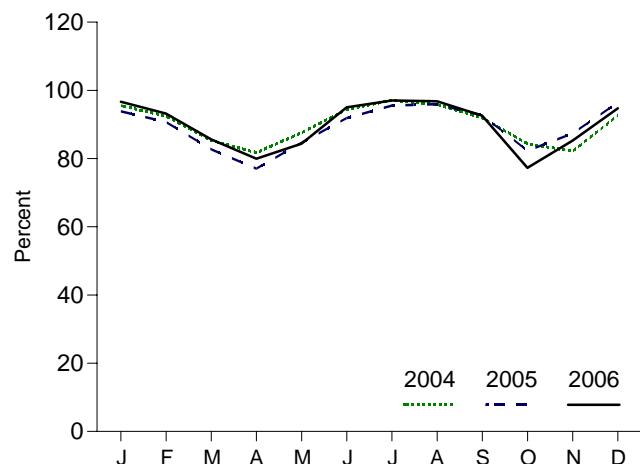
Nuclear Share of Electricity Net Generation, 1973-2006



Nuclear Electricity Net Generation



Capacity Factor, Monthly



Web Page: <http://www.eia.doe.gov/emeu/mer/nuclear.html>.
Sources: Table 7.1 and 8.1.

Table 8.1 Nuclear Energy Overview

	Total Operable Units ^{a,b}	Net Summer Capacity of Operable Units ^{b,c}	Nuclear Electricity Net Generation	Nuclear Share of Electricity Net Generation	Capacity Factor ^d
	Number	Million Kilowatts	Million Kilowatthours	Percent	
1973 Total	42	22,683	83,479	4.5	53.5
1975 Total	57	37,267	172,505	9.0	55.9
1980 Total	71	51,810	251,116	11.0	56.3
1985 Total	96	79,397	383,691	15.5	58.0
1990 Total	112	99,624	576,862	19.0	66.0
1995 Total	109	99,515	673,402	20.1	77.4
1996 Total	109	100,784	674,729	19.6	76.2
1997 Total	107	99,716	628,644	18.0	71.1
1998 Total	104	97,070	673,702	18.6	78.2
1999 Total	104	97,411	728,254	19.7	85.3
2000 Total	104	97,860	753,893	19.8	88.1
2001 Total	104	98,159	768,826	20.6	89.4
2002 Total	104	98,657	780,064	20.2	90.3
2003 Total	104	99,209	763,733	19.7	87.9
2004 January	104	99,628	70,806	20.4	95.5
February	104	99,628	64,102	20.4	92.4
March	104	99,628	63,285	20.5	85.4
April	104	99,628	58,620	20.2	81.7
May	104	99,628	64,917	19.8	87.6
June	104	99,628	67,734	19.6	94.4
July	104	99,628	71,975	19.1	97.1
August	104	99,628	71,068	19.3	95.9
September	104	99,628	65,932	19.6	91.9
October	104	99,628	62,530	20.0	84.4
November	104	99,628	58,941	19.5	82.2
December	104	99,628	68,617	20.1	92.6
Total	104	99,628	788,528	19.9	90.1
2005 January	104	99,988	69,828	20.4	93.9
February	104	99,988	60,947	20.4	90.7
March	104	99,988	61,539	19.4	82.7
April	104	99,988	55,484	19.2	77.1
May	104	99,988	62,970	20.0	84.6
June	104	99,988	66,144	18.2	91.9
July	104	99,988	71,070	17.7	95.5
August	104	99,988	71,382	17.6	96.0
September	104	99,988	66,739	19.1	92.7
October	104	99,988	61,236	19.4	82.3
November	104	99,988	62,913	20.6	87.4
December	104	99,988	71,735	20.6	96.4
Total	104	99,988	781,986	19.3	89.3
2006 January	104	99,988	71,912	22.0	96.7
February	104	99,988	62,616	20.4	93.2
March	104	99,988	63,721	20.1	85.7
April	104	99,988	57,567	19.4	80.0
May	104	99,988	62,776	19.1	84.4
June	104	99,988	68,391	18.8	95.0
July	104	99,988	72,186	17.6	97.0
August	104	99,988	72,016	17.7	96.8
September	104	99,988	66,642	20.1	92.6
October	104	99,988	57,509	17.9	77.3
November	104	99,988	61,392	19.9	85.3
December	104	99,988	70,490	21.0	94.8
Total	104	99,988	787,219	19.4	89.9

^a Total of nuclear generating units holding full-power licenses, or equivalent permission to operate, at the end of the period—see Note 1 at end of section. Although Browns Ferry 1 was shut down in 1985, the unit has remained fully licensed and thus has continued to be counted as operable during the shutdown; in May 2002, the Tennessee Valley Authority announced its intenton to have the unit resume operation in 2007—see Note 1(a) at end of section. For additional information on nuclear generating units, see *Annual Energy Review 2005*, July 2006, Table 9.1.

^b At end of period.

^c For the definition of "Net Summer Capacity," see Note 2(a) at end of section.

^d For an explanation of the method of calculating the capacity factor, see Note 2 at end of section.

Notes: • See Note 1 at end of section for discussion of reactor unit coverage. • Nuclear electricity net generation totals may not equal sum of components due to independent rounding. • Geographic coverage is the 50 States and the District of Columbia.

Web Page: For annual data not displayed between 1973 and 1995, see <http://www.eia.doe.gov/emeu/mer/nuclear.html>.

Sources: See end of section.

Nuclear Energy

Note 1. A reactor is generally defined as operable while it possessed a full-power license from the Nuclear Regulatory Commission or its predecessor the Atomic Energy Commission, or equivalent permission to operate, at the end of the year or month shown. The definition is liberal in that it does not exclude units retaining full-power licenses during long, non-routine shutdowns that for a time rendered them unable to generate electricity. Examples are:

- (a) In 1985 the five then-active Tennessee Valley Authority (TVA) units (Browns Ferry 1, 2, and 3 and Sequoyah 1 and 2) were shut down under a regulatory forced outage. Browns Ferry 1 remains shut down and has been defueled, while the other units were idle for several years, restarting in 1991, 1995, 1988, and 1988, respectively. All five units are counted as operable during the shutdowns. Browns Ferry 1 is the only one of the five TVA plants that has not returned to service. Because it is still fully licensed to operate, it continues to meet the definition of operable.
- (b) Shippingport was shut down from 1974 through 1976 for conversion to a light-water breeder reactor, but is counted as operable from 1957 until its retirement in 1982.
- (c) Calvert Cliffs 2 was shut down in 1989 and 1990 for replacement of pressurizer heater sleeves but is counted as operable during those years.

Exceptions to the definition are Shoreham and Three Mile Island 2. Shoreham was granted a full-power license in April 1989, but was shut down two months later and never restarted. In 1991, the license was changed to Possession Only. Although not operable at the end of the year, Shoreham is counted as operable during 1989. A major accident closed Three Mile Island 2 in 1979, and although the unit retained its full-power license for several years, it is considered permanently shut down since that year.

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

- (a) Net Summer Capacity—The steady hourly output that generating equipment is expected to supply to system load, exclusive of auxiliary power, as demonstrated by test at the time of summer peak demand. Auxiliary power of a typical nuclear power plant is about 5 percent of gross generation.
- (b) Net Design Capacity or Net Design Electrical Rating (DER)—The nominal net electrical output of a unit, specified by the utility and used for plant design.

The monthly capacity factors are computed as the actual monthly generation divided by the maximum possible generation for that month. The maximum possible generation is the number of hours in the month multiplied by the net summer capacity 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.

Table 8.1 Sources

Total Operable Units and Net Summer Capacity of Operable Units:

1973-1982: Compiled from various sources, primarily DOE, Office of Nuclear Reactor Programs, "U.S. Central Station Nuclear Electric Generating Units: Significant Milestones." 1983 forward: Energy Information Administration (EIA), Form EIA-860, "Annual Electric Generator Report," and monthly updates as appropriate. For a list of currently operable units, see:

http://www.eia.doe.gov/cneaf/nuclear/page/nuc_reactors/operational.xls.

Nuclear Electricity Net Generation and Nuclear Share of Electricity Net Generation:

See Table 7.2a for actual data.

Capacity Factor: EIA, Office of Coal, Nuclear, Electric and Alternate Fuels for actual data.

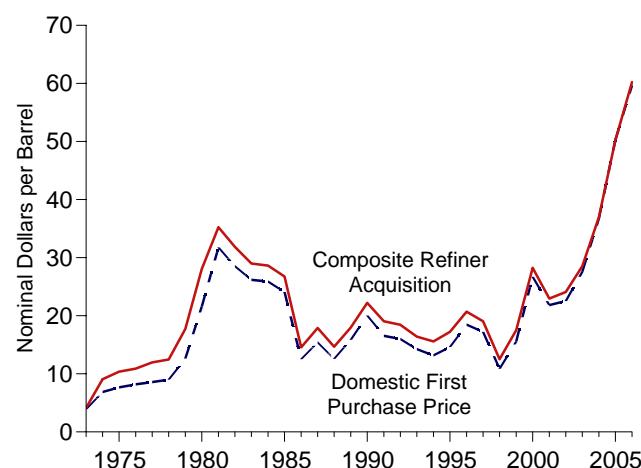
9

Energy Prices

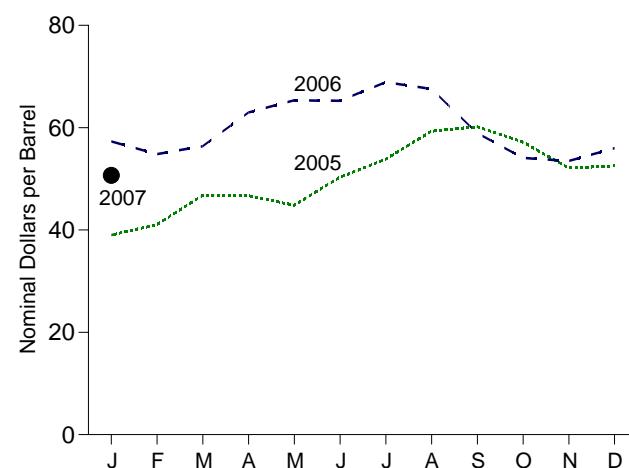


Figure 9.1 Petroleum Prices

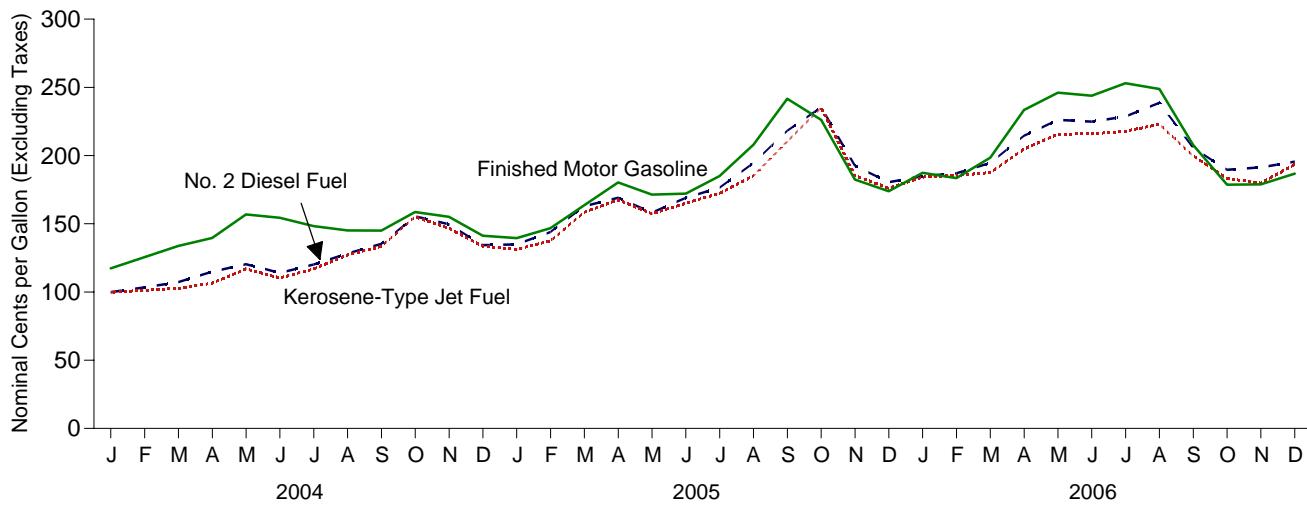
Crude Oil Prices, 1973-2006



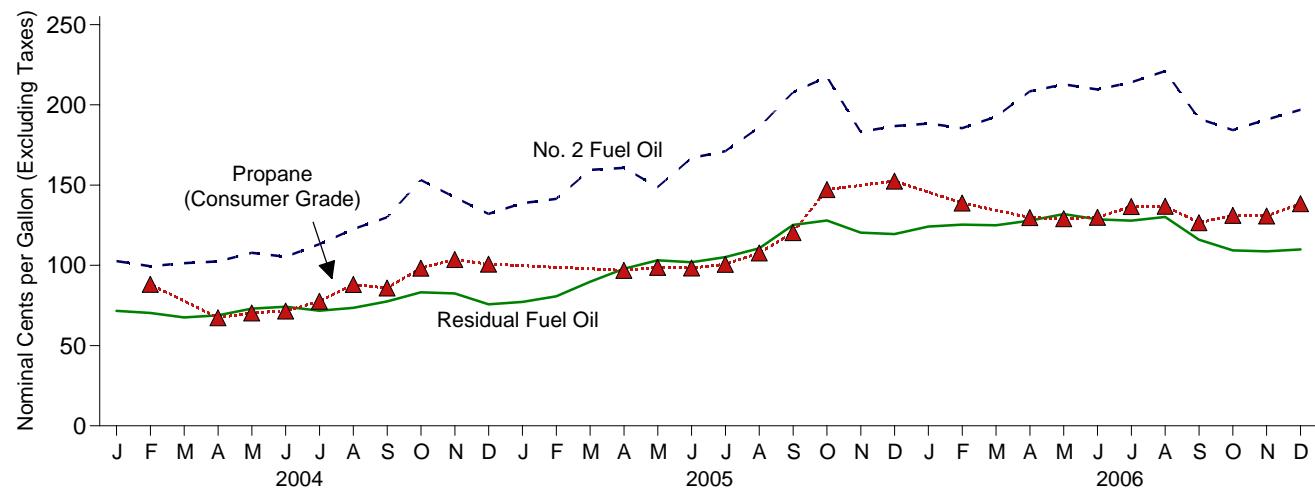
Composite Refiner Acquisition Cost, Monthly



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



Notes: • See "Nominal Price" in Glossary. • Because vertical scales differ, graphs should not be compared.

Web Page: <http://www.eia.doe.gov/emeu/mer/prices.html>.

Sources: Tables 9.1, 9.5, and 9.7.

Table 9.1 Crude Oil Price Summary
(Nominal Dollars per Barrel)

	Domestic First Purchase Price ^b	F.O.B. Cost of Imports ^c	Landed Cost of Imports ^d	Refiner Acquisition Cost ^a		
				Domestic	Imported	Composite
1973 Average	3.89	5.21	6.41	E 4.17	E 4.08	E 4.15
1975 Average	7.67	11.18	12.70	8.39	13.93	10.38
1980 Average	21.59	32.37	33.67	24.23	33.89	28.07
1985 Average	24.09	25.84	26.67	26.66	26.99	26.75
1990 Average	20.03	20.37	21.13	22.59	21.76	22.22
1995 Average	14.62	15.69	16.78	17.33	17.14	17.23
1996 Average	18.46	19.32	20.31	20.77	20.64	20.71
1997 Average	17.23	16.94	18.11	19.61	18.53	19.04
1998 Average	10.87	10.76	11.84	13.18	12.04	12.52
1999 Average	15.56	16.47	17.23	17.90	17.26	17.51
2000 Average	26.72	26.27	27.53	29.11	27.70	28.26
2001 Average	21.84	20.46	21.82	24.33	22.00	22.95
2002 Average	22.51	22.63	23.91	24.65	23.71	24.10
2003 Average	27.56	25.86	27.69	29.82	27.71	28.53
2004 January	30.35	28.22	30.79	32.34	30.11	30.93
February	31.21	28.50	31.14	33.45	30.69	31.72
March	32.86	30.02	32.31	34.85	32.16	33.10
April	33.20	31.00	32.88	35.56	32.34	33.47
May	35.73	33.79	35.09	37.63	35.68	36.32
June	34.53	32.22	34.38	36.80	33.45	34.59
July	36.54	34.97	36.85	38.19	35.89	36.68
August	40.10	37.34	39.56	41.86	39.46	40.30
September	40.56	38.80	41.08	43.08	40.42	41.35
October	46.14	42.21	44.11	47.66	45.36	46.13
November	42.85	36.01	39.06	45.02	39.89	41.77
December	38.22	31.67	35.34	41.20	34.07	36.60
Average	36.77	33.75	36.07	38.97	35.90	36.98
2005 January	40.18	35.76	38.49	41.82	37.56	39.01
February	42.19	39.06	40.71	43.80	39.72	41.05
March	47.56	44.29	45.95	48.87	45.73	46.78
April	47.26	43.90	45.43	49.64	45.25	46.71
May	44.03	42.88	44.51	47.91	43.19	44.84
June	49.83	48.53	49.99	52.13	49.28	50.30
July	53.35	51.87	53.85	55.80	52.79	53.83
August	58.90	57.10	58.33	60.57	58.67	59.30
September	59.64	57.87	58.26	62.84	58.79	60.18
October	56.99	52.69	54.32	60.79	55.31	57.18
November	53.20	48.82	51.03	56.52	49.97	52.13
December	53.24	50.06	52.04	55.89	50.85	52.51
Average	50.28	47.60	49.29	52.94	48.86	50.24
2006 January	57.85	53.96	55.52	60.12	55.90	57.32
February	55.69	51.35	52.92	59.06	52.80	54.85
March	55.59	54.72	56.58	58.44	55.31	56.37
April	62.51	62.12	63.39	64.03	62.41	62.97
May	64.31	62.98	64.66	67.13	64.39	65.35
June	64.36	61.49	64.45	67.75	63.97	65.25
July	67.72	65.68	67.87	70.57	67.99	68.87
August	67.21	62.75	65.13	70.38	66.19	67.56
September	59.36	54.66	57.20	62.56	57.29	58.93
October	53.26	R 50.63	R 52.82	56.80	52.71	54.09
November	52.42	R 51.68	R 53.17	55.44	52.52	53.51
December	R 54.94	R 52.20	R 54.15	R 57.81	R 54.99	R 55.99
Average	59.68	57.10	59.18	62.63	59.01	60.23
2007 January	NA	NA	NA	E 53.23	E 48.20	E 50.69

^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. NA=Not available. E=Estimate.

Notes: • Values for Domestic First Purchase Price and Refiner Acquisition Cost for the current two months and for F.O.B. and Landed Costs of Imports for the current three months are preliminary. • F.O.B. and landed costs

through 1980 reflect the period of reporting; prices since then reflect the period of loading. • Annual averages are the averages of the monthly prices, weighted by volume. • Geographic coverage is the 50 States, the District of Columbia, Puerto Rico, the Virgin Islands, and all U.S. Territories and Possessions.

Web Page: For annual data not displayed between 1973 and 1995, see <http://www.eia.doe.gov/emeu/mer/prices.html>.

Sources: See end of section.

Table 9.2 F.O.B. Costs of Crude Oil Imports From Selected Countries
(Nominal Dollars per Barrel)

	Selected Countries							Persian Gulf Nations ^a	Total OPEC ^b	Total Non-OPEC
	Angola	Colombia	Mexico	Nigeria	Saudi Arabia	United Kingdom	Venezuela			
1973 Average ^c	W	W	(d)	7.81	3.25	(d)	5.39	3.68	5.43	4.80
1975 Average	10.97	(d)	11.44	11.82	10.87	(d)	11.04	10.88	11.34	10.62
1980 Average	33.45	W	31.06	35.93	28.17	34.36	24.81	28.92	32.21	32.85
1985 Average	26.30	(d)	25.33	28.04	22.04	27.64	23.64	23.31	25.67	25.96
1990 Average	20.23	20.75	19.26	22.46	20.36	23.43	19.55	18.54	20.40	20.32
1995 Average	16.58	16.73	15.64	17.40	W	16.94	13.86	W	15.36	16.02
1996 Average	20.71	21.33	19.14	21.27	19.28	19.43	17.73	19.22	18.94	19.65
1997 Average	18.81	18.85	16.72	19.43	15.16	18.59	15.33	15.24	16.26	17.51
1998 Average	12.11	12.56	10.49	12.97	8.87	12.52	9.31	9.09	10.20	11.21
1999 Average	17.46	17.20	15.89	17.32	17.65	19.14	14.33	17.15	15.90	16.84
2000 Average	27.90	29.04	25.39	28.70	24.62	27.21	24.45	24.72	25.56	26.77
2001 Average	23.25	24.25	18.89	24.85	18.98	23.30	18.01	18.89	19.73	21.04
2002 Average	24.09	24.64	21.60	25.38	23.92	24.50	20.13	23.38	22.18	22.93
2003 Average	28.22	28.89	24.83	29.40	25.03	28.76	23.81	25.17	25.36	26.21
2004										
January	W	33.14	26.86	31.19	W	W	25.94	28.29	27.91	28.47
February	30.06	W	26.24	32.03	W	W	26.70	28.05	28.70	28.33
March	W	33.17	28.26	33.79	W	33.72	28.15	29.77	30.06	29.99
April	32.42	34.47	29.46	34.28	W	W	31.23	29.89	31.56	30.48
May	W	36.46	32.45	38.11	W	W	33.18	32.49	34.43	33.27
June	36.57	35.10	30.33	35.63	32.91	W	30.92	32.31	32.46	32.05
July	37.82	39.28	32.56	39.80	35.17	(d)	32.46	34.90	35.28	34.68
August	42.75	W	34.24	43.18	W	41.89	33.93	37.70	37.57	37.15
September	41.03	41.80	35.27	44.82	38.41	W	38.72	39.05	40.57	37.44
October	47.64	45.74	40.38	49.15	W	W	39.55	37.35	41.33	42.87
November	40.43	W	33.09	43.14	W	W	32.23	34.05	35.50	36.43
December	36.01	W	29.49	40.22	W	W	30.11	30.64	32.52	31.10
Average	37.26	37.73	31.55	38.71	34.08	37.30	31.78	33.08	33.95	33.58
2005										
January	38.20	W	31.51	44.43	38.52	W	34.35	36.03	37.51	34.34
February	42.77	W	33.21	48.24	40.11	42.58	37.82	39.37	41.07	37.30
March	48.06	47.05	39.32	53.76	42.67	53.98	42.94	43.00	45.71	42.96
April	48.46	50.25	40.43	51.72	45.68	W	43.01	43.71	45.34	42.45
May	45.35	W	40.31	49.59	44.09	W	41.78	43.65	44.44	41.46
June	50.91	52.64	44.83	55.81	53.37	W	47.06	50.98	51.11	46.19
July	54.88	W	46.74	59.03	W	57.71	49.28	54.95	53.46	50.37
August	62.16	55.44	50.54	65.78	W	64.87	57.54	57.34	59.86	54.70
September	60.64	63.89	52.19	63.73	W	W	62.43	W	60.70	55.52
October	54.80	W	48.62	60.89	W	60.09	51.19	49.61	54.61	51.10
November	52.01	49.49	43.22	56.11	W	W	46.98	49.88	50.88	46.93
December	53.74	55.82	45.83	59.33	W	(d)	48.22	48.77	52.26	47.67
Average	52.48	51.89	43.00	55.95	47.96	54.48	46.39	47.21	49.60	45.79
2006										
January	59.28	60.78	50.22	63.73	W	W	52.56	52.91	56.15	52.34
February	57.55	53.07	48.33	60.20	W	W	50.87	53.80	54.41	49.19
March	60.07	54.10	50.16	64.05	W	63.13	56.29	56.15	58.37	51.87
April	W	62.26	57.12	71.85	W	W	62.93	61.29	65.03	59.80
May	66.95	66.17	55.57	70.83	65.36	68.98	61.70	63.60	65.34	60.83
June	67.10	63.43	55.17	69.96	65.87	69.34	60.87	63.99	64.69	59.10
July	70.81	69.24	60.24	75.63	W	W	64.60	61.76	67.59	64.23
August	68.94	65.45	59.97	72.67	55.45	(d)	60.48	56.65	62.75	62.76
September	56.89	55.49	52.01	62.74	53.27	W	52.02	52.13	55.93	53.59
October	54.00	52.38	47.62	58.62	R 52.11	W	48.97	R 50.66	R 52.71	R 48.85
November	57.67	56.16	R 48.13	R 60.94	R 51.94	W	R 48.54	R 52.00	R 53.46	R 50.27
December	58.10	53.99	50.19	62.81	W	W	49.12	W	52.77	51.76
Average	62.31	59.77	52.92	65.87	56.54	66.03	55.83	56.32	59.22	55.42

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

^b Current members are Algeria, Indonesia, Iran, Iraq, Kuwait, Libya, Nigeria, Qatar, Saudi Arabia, United Arab Emirates, and Venezuela. Ecuador is included in the data through 1992 and Gabon through 1995.

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

^d No data reported.

R=Revised. 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 two months are preliminary. • Prices

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

Web Page: For annual data not displayed between 1973 and 1995, see <http://www.eia.doe.gov/emeu/mer/prices.html>.

Sources: See end of section.

Table 9.3 Landed Costs of Crude Oil Imports From Selected Countries
(Nominal Dollars per Barrel)

	Selected Countries								Persian Gulf Nations ^a	Total OPEC ^b	Total Non-OPEC
	Angola	Canada	Colombia	Mexico	Nigeria	Saudi Arabia	United Kingdom	Venezuela			
1973 Average ^c	W	5.33	W	(^d)	9.08	5.37	(^d)	5.99	5.91	6.85	5.64
1975 Average	11.81	12.84	(^d)	12.61	12.70	12.50	(^d)	12.36	12.64	12.70	12.70
1980 Average	34.76	30.11	W	31.77	37.15	29.80	35.68	25.92	30.59	33.56	33.99
1985 Average	27.39	25.71	(^d)	25.63	28.96	24.72	28.36	24.43	25.50	26.86	26.53
1990 Average	21.51	20.48	22.34	19.64	23.33	21.82	22.65	20.31	20.55	21.23	20.98
1995 Average	17.66	16.65	17.45	16.19	18.25	16.84	17.91	14.81	16.78	16.61	16.95
1996 Average	21.86	19.94	22.02	19.64	21.95	20.49	20.88	18.59	20.45	20.14	20.47
1997 Average	20.24	17.63	19.71	17.30	20.64	17.52	20.64	16.35	17.44	17.73	18.45
1998 Average	13.37	11.62	13.26	11.04	14.14	11.16	13.55	10.16	11.18	11.46	12.22
1999 Average	18.37	17.54	18.09	16.12	17.63	17.48	18.26	15.58	17.37	16.94	17.51
2000 Average	29.57	26.69	29.68	26.03	30.04	26.58	29.26	26.05	26.77	27.29	27.80
2001 Average	25.13	20.72	25.88	19.37	26.55	20.98	25.32	19.81	20.73	21.52	22.17
2002 Average	25.43	22.98	25.28	22.09	26.45	24.77	26.35	21.93	24.13	23.83	23.97
2003 Average	30.14	26.76	30.55	25.48	31.07	27.50	30.62	25.70	27.54	27.70	27.68
2004											
January	34.03	29.37	34.85	27.98	33.67	31.86	32.89	28.79	31.51	31.23	30.36
February	34.44	30.21	35.99	27.10	35.09	31.98	33.30	28.98	31.70	31.86	30.35
March	35.00	30.95	35.34	28.92	36.06	33.11	36.41	30.00	32.89	32.92	31.61
April	35.29	31.20	35.30	29.82	36.68	33.36	35.11	32.39	33.20	33.69	31.97
May	37.90	32.70	37.78	32.88	39.33	34.89	38.14	34.16	34.68	35.70	34.47
June	38.44	33.05	36.19	30.89	38.05	36.14	36.50	32.29	35.43	35.21	33.57
July	40.03	35.00	38.49	32.84	41.00	38.68	40.93	33.78	38.32	37.85	35.71
August	44.92	38.28	42.30	34.66	44.74	42.20	42.51	36.03	41.14	40.65	38.39
September	43.84	39.07	43.03	35.63	46.53	42.52	43.49	40.28	42.30	42.83	39.36
October	48.47	42.93	47.35	41.09	51.85	42.87	49.65	41.92	42.15	44.21	44.02
November	44.16	39.46	42.52	33.78	47.64	39.12	47.41	34.76	37.95	39.15	38.97
December	40.48	31.86	39.39	30.31	43.88	37.46	39.80	33.00	36.65	37.18	33.67
Average	39.62	34.51	39.03	32.25	40.95	37.11	39.28	33.79	36.53	36.84	35.29
2005											
January	42.58	34.33	44.23	32.37	46.53	40.60	45.67	36.62	39.38	40.48	36.49
February	44.39	36.07	W	33.52	49.97	43.46	44.50	39.05	42.92	43.31	38.13
March	50.99	41.28	48.78	39.72	55.46	46.33	53.49	44.60	45.86	47.58	44.30
April	50.45	40.37	49.93	40.72	53.61	47.27	51.40	43.95	46.01	47.19	43.62
May	48.49	39.29	47.78	40.78	51.32	46.78	49.98	43.70	46.18	46.61	42.46
June	53.09	43.10	53.39	45.20	57.67	53.14	53.16	48.44	52.45	52.96	47.05
July	57.18	50.71	55.11	46.95	60.86	57.51	59.58	50.88	56.50	55.93	51.83
August	63.78	54.43	59.03	50.95	67.35	59.61	62.41	58.30	59.20	61.10	55.96
September	61.88	53.33	62.64	52.40	65.20	56.22	64.26	62.33	56.29	60.84	56.01
October	56.99	51.29	58.27	49.21	62.35	54.06	61.78	52.79	52.83	55.75	53.15
November	54.16	48.79	52.20	43.62	59.34	52.28	58.63	49.01	51.25	53.00	49.06
December	57.69	45.46	54.80	45.95	62.07	53.84	W	50.57	53.12	54.76	49.22
Average	54.31	44.73	53.42	43.47	57.55	50.31	55.28	47.87	49.68	51.36	47.31
2006											
January	61.35	47.47	61.95	51.31	65.91	56.25	67.33	53.93	55.74	58.12	53.21
February	61.48	43.12	55.99	49.48	63.03	56.26	63.01	52.91	55.17	56.70	49.55
March	62.44	46.62	55.89	51.05	67.04	58.87	65.21	57.70	57.97	60.37	52.73
April	70.71	56.62	64.06	58.02	73.72	62.92	71.35	63.81	62.49	65.76	60.97
May	68.62	63.51	68.80	56.32	72.93	65.12	71.29	62.63	64.28	66.10	63.17
June	68.64	61.16	66.06	56.00	72.70	66.49	71.12	62.65	65.81	67.16	62.08
July	72.89	64.71	70.94	61.26	77.43	65.48	74.59	66.19	65.60	69.18	66.52
August	71.47	63.77	66.67	60.78	74.89	62.21	W	62.15	62.18	65.45	64.81
September	60.38	55.23	57.25	52.78	65.21	56.29	W	53.94	55.80	57.86	56.59
October	R 57.25	R 47.83	55.50	48.34	60.90	R 53.91	R 59.70	50.73	R 53.43	R 54.95	R 50.89
November	R 59.49	R 47.85	56.06	R 48.91	R 62.90	R 53.81	R 58.67	R 50.75	R 53.43	R 55.14	R 51.44
December	60.68	50.95	56.38	51.02	64.79	55.71	58.69	51.30	54.99	55.83	52.80
Average	64.95	53.82	62.16	53.78	68.53	59.53	67.44	57.46	59.19	61.35	57.14

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

^b Current members are Algeria, Indonesia, Iran, Iraq, Kuwait, Libya, Nigeria, Qatar, Saudi Arabia, United Arab Emirates, and Venezuela. Ecuador is included in the data through 1992 and Gabon through 1995.

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

^d No data reported.

R=Revised. W=Value withheld to avoid disclosure of individual company data.

Notes: • See Note 3 at end of section. • Values for the current 2 months are preliminary. • Prices through 1980 reflect the period of reporting; prices since then reflect the period of loading. • Annual averages are averages of the monthly prices, including prices not published, weighted by volume.

• Cargoes that are purchased on a "netback" basis, or under similar

contractual arrangements whereby the actual purchase price is not established at the time the crude oil is acquired for importation into the United States, are not included in the published data until the actual prices have been determined and reported. • U.S. geographic coverage is the 50 States and the District of Columbia.

Web Page: For annual data not displayed between 1973 and 1995, see <http://www.eia.doe.gov/emeu/mer/prices.html>.

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." • **1978-2005:** EIA, *Petroleum Marketing Annual 2005*, Table 25. • **2006:** EIA, *Petroleum Marketing Monthly*, March 2007, Table 25.

Table 9.4 Motor Gasoline Retail Prices, U.S. City Average
 (Nominal Cents per Gallon, Including Taxes)

	Leaded Regular	Unleaded Regular	Unleaded Premium ^a	All Types ^b
1973 Average	38.8	NA	NA	NA
1975 Average	56.7	NA	NA	NA
1980 Average	119.1	124.5	NA	122.1
1985 Average	111.5	120.2	134.0	119.6
1990 Average	114.9	116.4	134.9	121.7
1995 Average	NA	114.7	133.6	120.5
1996 Average	NA	123.1	141.3	128.8
1997 Average	NA	123.4	141.6	129.1
1998 Average	NA	105.9	125.0	111.5
1999 Average	NA	116.5	135.7	122.1
2000 Average	NA	151.0	169.3	156.3
2001 Average	NA	146.1	165.7	153.1
2002 Average	NA	135.8	155.6	144.1
2003 Average	NA	159.1	177.7	163.8
2004 January	NA	159.2	177.9	163.5
February	NA	167.2	185.8	171.5
March	NA	176.6	194.9	180.9
April	NA	183.3	201.2	187.5
May	NA	200.9	218.6	205.0
June	NA	204.1	222.5	208.3
July	NA	193.9	213.0	198.2
August	NA	189.8	209.1	194.1
September	NA	189.1	208.2	193.4
October	NA	202.9	221.5	207.2
November	NA	201.0	220.3	205.3
December	NA	188.2	208.0	192.6
Average	NA	188.0	206.8	192.3
2005 January	NA	182.3	201.7	186.6
February	NA	191.8	210.5	196.0
March	NA	206.5	225.1	210.7
April	NA	228.3	246.8	232.5
May	NA	221.6	240.3	225.7
June	NA	217.6	236.5	221.8
July	NA	231.6	250.2	235.7
August	NA	250.6	270.1	254.8
September	NA	292.7	313.0	296.9
October	NA	278.5	300.1	283.0
November	NA	234.3	256.0	238.7
December	NA	218.6	239.3	223.0
Average	NA	229.5	249.1	233.8
2006 January	NA	231.5	252.1	235.9
February	NA	231.0	251.9	235.4
March	NA	240.1	260.3	244.4
April	NA	275.7	296.7	280.1
May	NA	294.7	316.9	299.3
June	NA	291.7	313.9	296.3
July	NA	299.9	321.9	304.6
August	NA	298.5	320.7	303.3
September	NA	258.9	281.9	263.7
October	NA	227.2	249.3	231.9
November	NA	224.1	245.9	228.7
December	NA	233.4	255.0	238.0
Average	NA	258.9	280.5	263.5
2007 January	NA	227.4	250.1	232.1
February	NA	228.5	250.9	233.3

^a The 1981 average (available in Web file) is based on September through December data only.

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

NA=Not available.

Notes: • See Note 5 at end of section. • See "Nominal Price" in Glossary. • 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. • Geographic coverage for

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

Web Page: For annual data not displayed between 1973 and 1995, see <http://www.eia.doe.gov/emeu/mer/prices.html>.

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

Table 9.5 Refiner Prices of Residual Fuel Oil
 (Nominal Cents per Gallon, Excluding Taxes)

	Residual Fuel Oil Sulfur Content Less Than or Equal to 1 Percent		Residual Fuel Oil Sulfur Content Greater Than 1 Percent		Average	
	Sales for Resale	Sales to End Users	Sales for Resale	Sales to End Users	Sales for Resale	Sales to End Users
1978 Average	29.3	31.4	24.5	27.5	26.3	29.8
1980 Average	60.8	67.5	47.9	52.3	52.8	60.7
1985 Average	61.0	64.4	56.0	58.2	57.7	61.0
1990 Average	47.2	50.5	37.2	40.0	41.3	44.4
1995 Average	38.3	43.6	33.8	37.7	36.3	39.2
1996 Average	45.6	52.6	38.9	43.3	42.0	45.5
1997 Average	41.5	48.8	36.6	40.3	38.7	42.3
1998 Average	29.9	35.4	26.9	28.7	28.0	30.5
1999 Average	38.2	40.5	32.9	36.2	35.4	37.4
2000 Average	62.7	70.8	51.2	56.6	56.6	60.2
2001 Average	52.3	64.2	42.8	49.2	47.6	53.1
2002 Average	54.6	64.0	50.8	54.4	53.0	56.9
2003 Average	72.8	80.4	58.8	65.1	66.1	69.8
2004 January	75.3	84.3	57.6	65.0	69.0	71.6
February	76.3	80.6	59.3	64.1	69.7	70.3
March	67.3	76.3	57.1	62.6	62.8	67.5
April	69.7	75.7	58.5	64.8	64.6	68.8
May	77.8	80.7	63.2	69.9	69.5	73.0
June	77.0	80.5	63.0	71.6	70.1	74.2
July	73.7	78.2	60.6	69.3	66.8	71.7
August	77.4	81.8	61.1	70.1	68.4	73.5
September	76.5	90.3	61.8	70.7	67.9	77.5
October	89.2	91.5	69.5	81.0	78.6	83.2
November	88.6	96.6	59.2	75.2	71.2	82.5
December	77.6	87.2	54.4	66.7	62.6	75.7
Average	76.4	83.5	60.1	69.2	68.1	73.9
2005 January	81.8	86.9	NA	70.9	72.1	77.2
February	87.9	90.8	NA	75.3	72.2	80.7
March	96.5	98.0	NA	82.8	82.9	89.8
April	103.4	106.6	80.1	93.3	89.6	97.8
May	95.0	112.2	86.6	98.4	89.1	103.1
June	100.3	111.8	84.4	96.2	90.5	101.9
July	113.8	116.8	87.8	97.3	101.1	105.1
August	133.1	129.2	90.7	100.0	115.1	110.6
September	140.2	138.4	103.6	115.8	121.9	125.2
October	139.6	142.7	108.8	119.8	124.7	127.9
November	126.5	134.3	99.3	111.7	111.4	120.4
December	129.3	134.6	105.7	109.6	119.6	119.5
Average	111.5	116.8	84.2	97.4	97.1	104.8
2006 January	125.8	134.6	108.8	117.8	118.5	124.2
February	122.2	137.8	114.6	119.5	119.5	125.4
March	121.8	136.0	115.8	119.1	119.3	125.0
April	120.2	139.7	114.9	123.6	117.7	127.8
May	125.9	143.5	120.4	128.0	123.9	131.9
June	125.3	148.1	113.6	123.2	116.9	128.6
July	128.4	145.1	115.7	123.3	119.5	127.8
August	130.9	145.1	119.3	125.3	124.8	130.1
September	111.8	132.4	104.1	111.8	107.2	116.0
October	107.7	120.1	98.5	105.9	102.5	109.3
November	R 115.9	R 117.6	R 95.9	R 105.3	102.5	R 108.7
December	113.3	119.9	96.2	105.3	104.3	109.9
Average	120.2	134.2	107.9	117.2	113.4	121.8

R=Revised. NA=Not available.

Notes: • Sales for resale are those made to purchasers other than ultimate consumers. Sales to end users are those made directly to ultimate consumers, including bulk consumers (such as agriculture, industry, and electric utilities) and commercial consumers. • Values for the current month are preliminary. • Prices prior to 1983 are Energy Information Administration (EIA) estimates. See Note 6 at end of section. • See "Nominal Price" in

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

Web Page: For annual data not displayed between 1978 and 1995, see <http://www.eia.doe.gov/emeu/mer/prices.html>.

Sources: • **1978-2005:** EIA, *Petroleum Marketing Annual 2005*, Table 19.
 • **2006:** EIA, *Petroleum Marketing Monthly*, March 2007, Table 19.

Table 9.6 Refiner Prices of Petroleum Products for Resale
 (Nominal Cents per Gallon, Excluding Taxes)

	Finished Motor Gasoline ^a	Finished Aviation Gasoline	Kerosene-Type Jet Fuel	Kerosene	No. 2 Fuel Oil	No. 2 Diesel Fuel	Propane (Consumer Grade)
1978 Average	43.4	53.7	38.6	40.4	36.9	36.5	23.7
1980 Average	94.1	112.8	86.8	86.4	80.3	80.1	41.5
1985 Average	83.5	113.0	79.4	87.4	77.6	77.2	39.8
1990 Average	78.6	106.3	77.3	83.9	69.7	69.4	38.6
1995 Average	62.6	97.5	53.9	58.0	51.1	53.8	34.4
1996 Average	71.3	105.5	64.6	71.4	63.9	65.9	46.1
1997 Average	70.0	106.5	61.3	65.3	59.0	60.6	41.6
1998 Average	52.6	91.2	45.0	46.5	42.2	44.4	28.8
1999 Average	64.5	100.7	53.3	55.0	49.3	54.6	34.2
2000 Average	96.3	133.0	88.0	96.9	88.6	89.8	59.5
2001 Average	88.6	125.6	76.3	82.1	75.6	78.4	54.0
2002 Average	82.8	114.6	71.6	75.2	69.4	72.4	43.1
2003 Average	100.2	128.8	87.1	95.5	88.1	88.3	60.7
2004 January	105.0	135.3	99.7	111.6	97.0	96.2	71.7
February	112.7	143.6	100.1	114.6	93.0	96.8	70.1
March	119.9	148.9	101.4	104.3	93.6	101.0	61.9
April	125.4	155.7	103.3	104.3	95.4	107.6	60.4
May	143.6	174.5	114.9	119.4	103.0	112.1	65.5
June	133.6	172.0	108.5	108.2	101.9	107.1	66.1
July	134.1	169.9	115.6	119.3	109.5	115.4	72.2
August	131.0	168.4	126.9	128.4	118.8	124.4	83.0
September	132.8	165.8	132.6	140.9	127.0	133.0	80.4
October	145.9	174.9	155.1	164.4	147.9	153.0	88.6
November	138.3	169.0	145.2	149.2	139.4	142.2	88.3
December	119.4	155.5	132.8	139.3	129.9	127.2	83.5
Average	128.8	162.7	120.8	127.1	112.5	118.7	75.1
2005 January	128.2	160.4	131.7	145.2	131.4	130.6	NA
February	134.2	171.4	138.3	145.4	134.4	139.1	NA
March	153.0	189.3	158.2	164.5	153.5	158.8	NA
April	164.4	204.1	165.5	164.5	155.9	163.8	86.0
May	154.1	195.2	155.8	153.8	144.4	152.2	82.0
June	160.7	197.0	165.0	171.0	159.1	167.0	83.0
July	171.4	210.2	171.2	176.5	164.7	171.5	86.0
August	195.5	230.4	184.7	194.3	178.4	189.8	93.2
September	220.6	264.7	206.9	221.3	199.3	212.7	108.2
October	197.0	245.1	233.5	227.1	207.1	232.3	111.6
November	160.1	199.3	181.4	196.5	175.2	182.6	103.3
December	160.8	200.4	173.8	195.0	172.4	175.5	106.8
Average	167.0	207.6	172.3	175.7	162.3	173.7	93.3
2006 January	174.9	218.7	182.4	191.6	175.6	181.0	104.3
February	166.0	209.6	182.5	184.7	171.1	180.6	97.4
March	187.0	228.2	186.2	197.9	179.1	190.1	96.6
April	219.6	265.4	203.2	218.2	197.2	212.2	102.2
May	226.3	274.3	213.2	NA	201.3	218.7	103.2
June	227.9	274.6	213.3	219.4	198.4	218.7	106.1
July	239.5	287.3	217.4	225.8	200.6	225.0	110.8
August	226.1	284.1	221.4	229.3	206.1	234.3	111.3
September	180.1	231.9	194.7	203.7	179.7	191.3	103.2
October	164.1	212.0	181.5	194.0	172.2	182.7	100.3
November	R 166.7	R 213.9	R 177.8	R 194.4	R 169.9	R 186.8	R 101.3
December	172.8	217.2	190.6	200.7	175.4	188.6	103.3
Average	196.8	249.0	196.4	200.8	183.5	201.3	103.1

^a See Note 5 at end of section.

NA=Not available. R=Revised.

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

1983 are Energy Information Administration (EIA) estimates. See Note 6 at end of section. • See "Nominal Price" in Glossary. • Geographic coverage is the 50 States and the District of Columbia.

Web Page: For annual data not displayed between 1978 and 1995, see <http://www.eia.doe.gov/emeu/mer/prices.html>.

Sources: • **1978-2005:** EIA, *Petroleum Marketing Annual 2005*, Table 4.
 • **2006:** EIA, *Petroleum Marketing Monthly*, March 2007, Table 4.

Table 9.7 Refiner Prices of Petroleum Products to End Users

(Nominal Cents per Gallon, Excluding Taxes)

	Finished Motor Gasoline ^a	Finished Aviation Gasoline	Kerosene-Type Jet Fuel	Kerosene	No. 2 Fuel Oil	No. 2 Diesel Fuel	Propane (Consumer Grade)
1978 Average	48.4	51.6	38.7	42.1	40.0	37.7	33.5
1980 Average	103.5	108.4	86.8	90.2	78.8	81.8	48.2
1985 Average	91.2	120.1	79.6	103.0	84.9	78.9	71.7
1990 Average	88.3	112.0	76.6	92.3	73.4	72.5	74.5
1995 Average	76.5	100.5	54.0	58.9	56.2	56.0	49.2
1996 Average	84.7	111.6	65.1	74.0	67.3	68.1	60.5
1997 Average	83.9	112.8	61.3	74.5	63.6	64.2	55.2
1998 Average	67.3	97.5	45.2	50.1	48.2	49.4	40.5
1999 Average	78.1	105.9	54.3	60.5	55.8	58.4	45.8
2000 Average	110.6	130.6	89.9	112.3	92.7	93.5	60.3
2001 Average	103.2	132.3	77.5	104.5	82.9	84.2	50.6
2002 Average	94.7	128.8	72.1	99.0	73.7	76.2	41.9
2003 Average	115.6	149.3	87.2	122.4	93.3	94.4	57.7
2004 January	117.3	W	99.9	119.9	102.6	99.9	NA
February	125.6	W	101.3	93.7	99.4	103.4	88.2
March	133.8	W	102.7	NA	101.3	107.3	NA
April	139.6	177.4	106.6	139.8	102.4	114.9	67.3
May	156.9	194.4	116.9	111.7	107.8	120.4	70.3
June	154.4	192.3	110.3	105.2	105.3	114.0	71.5
July	148.3	185.4	116.9	W	113.2	120.2	77.6
August	145.1	184.9	127.2	125.8	122.6	128.3	88.1
September	145.0	187.8	133.4	W	129.9	135.3	85.9
October	158.6	195.5	155.1	169.5	153.2	155.5	98.2
November	155.1	187.0	146.6	154.3	142.4	149.6	103.6
December	141.3	176.7	133.5	145.2	132.0	134.4	100.7
Average	143.5	181.9	120.7	116.0	117.3	124.3	83.9
2005 January	139.5	173.8	131.3	174.7	138.7	134.9	NA
February	146.8	186.7	137.5	169.9	141.4	144.0	NA
March	163.7	201.5	158.5	187.3	159.4	163.0	NA
April	180.3	221.7	167.6	180.4	160.7	169.1	96.8
May	171.4	212.1	157.3	172.7	148.8	158.1	98.7
June	172.1	211.6	165.1	176.7	166.9	169.0	98.3
July	185.0	223.0	172.4	178.1	171.1	176.5	100.6
August	208.0	238.6	185.3	203.2	186.1	194.6	107.7
September	241.7	280.8	210.3	231.2	207.8	218.2	120.4
October	226.2	270.8	235.2	226.2	217.5	235.4	147.2
November	182.4	218.6	185.3	210.1	183.2	192.5	NA
December	173.9	219.3	176.1	NA	186.8	180.6	152.5
Average	182.9	223.1	173.5	195.7	170.5	178.6	108.9
2006 January	187.3	239.1	184.2	224.9	188.4	184.9	NA
February	183.5	232.4	185.5	218.8	185.5	187.0	138.8
March	198.5	247.3	187.5	236.3	192.6	194.6	NA
April	233.4	286.9	204.8	251.6	208.4	214.6	129.7
May	246.1	301.3	215.7	255.2	212.8	226.2	129.0
June	243.9	305.7	215.9	246.9	209.6	224.9	129.9
July	253.0	310.3	217.8	NA	214.1	228.6	136.6
August	248.8	305.8	222.9	NA	221.1	238.7	136.8
September	207.8	253.2	199.8	251.3	191.3	205.6	126.6
October	178.7	238.5	183.2	248.2	184.3	189.6	131.1
November	R 178.9	R 235.3	R 179.9	R 241.3	R 190.9	R 191.3	R 130.7
December	186.8	234.9	193.5	NA	196.9	195.6	138.4
Average	213.0	268.2	199.8	223.8	197.2	207.5	135.6

^a See Note 5 at end of section.

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

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

prior to 1983 are Energy Information Administration (EIA) estimates. See Note 6 at end of section. • See "Nominal Price" in Glossary. • Geographic coverage is the 50 States and the District of Columbia.

Web Page: For annual data not displayed between 1978 and 1995, see <http://www.eia.doe.gov/emeu/mer/prices.html>.Sources: • **1978-2005:** EIA, *Petroleum Marketing Annual 2005*, Table 2. • **2006:** EIA, *Petroleum Marketing Monthly*, March 2007, Table 2.

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

(Nominal Cents per Gallon, Excluding Taxes)

	Maine	New Hampshire	Vermont	Massachusetts	Rhode Island	Connecticut	New York	New Jersey	Pennsylvania
1978 Average	48.6	50.3	50.8	48.8	50.7	50.1	50.1	49.6	48.8
1980 Average	96.3	100.4	101.5	97.8	101.1	98.3	98.2	97.9	96.4
1985 Average	99.7	102.4	107.7	107.0	106.7	108.0	111.3	105.9	102.3
1990 Average	98.9	102.8	107.0	108.4	108.6	109.8	112.5	108.7	102.6
1995 Average	78.7	77.9	85.3	84.4	87.4	86.4	95.5	88.8	82.6
1996 Average	97.2	94.0	96.9	97.6	98.6	98.6	106.3	102.4	95.3
1997 Average	94.2	94.2	98.7	96.0	98.9	96.3	106.5	103.3	95.0
1998 Average	78.8	78.8	87.3	81.8	86.8	83.1	94.8	89.2	81.4
1999 Average	81.3	77.0	85.4	83.6	85.8	85.2	96.9	91.3	81.5
2000 Average	129.7	128.1	125.5	127.3	125.9	129.1	144.2	140.4	122.4
2001 Average	121.7	125.6	126.1	122.1	123.6	123.9	136.3	131.4	115.9
2002 Average	112.9	111.9	117.2	114.1	112.4	111.8	121.8	122.0	106.4
2003 Average	131.4	131.2	130.9	138.6	134.4	135.5	143.6	148.9	130.4
2004 January	135.4	136.3	135.6	143.2	143.3	141.2	148.9	154.2	137.4
February	138.4	138.9	137.3	144.8	141.9	142.0	150.8	158.1	140.2
March	137.3	135.1	137.9	143.4	137.2	140.3	147.2	154.8	137.4
April	137.2	133.6	138.9	142.5	137.5	139.6	147.0	151.8	136.3
May	138.4	133.7	138.8	146.1	141.2	141.9	149.0	153.4	137.0
June	141.6	135.8	144.0	144.9	137.8	143.5	148.3	151.9	135.0
July	145.0	140.3	150.6	150.9	140.2	148.0	152.2	152.1	133.3
August	153.2	147.6	154.9	156.4	148.3	153.0	155.8	158.6	141.6
September	162.0	154.3	159.9	165.6	155.7	163.0	163.0	164.4	152.1
October	178.7	174.9	176.7	182.7	177.6	178.3	184.8	191.8	171.1
November	178.1	176.2	174.1	183.1	176.4	180.8	189.3	196.2	174.0
December	176.2	177.3	172.2	180.7	175.6	178.3	186.0	193.6	171.0
Average	151.1	149.7	150.5	155.9	151.1	151.8	162.7	166.2	148.9
2005 January	174.8	175.2	172.9	182.3	175.8	179.0	187.9	194.7	174.1
February	180.2	178.8	174.3	186.3	177.3	181.0	190.6	197.9	177.0
March	186.5	185.3	183.5	196.2	185.4	188.2	200.5	209.2	185.7
April	191.4	188.0	186.4	201.6	186.3	191.1	202.1	210.2	187.5
May	186.2	182.2	183.2	196.0	187.3	191.8	199.9	203.3	182.9
June	199.9	192.3	196.8	202.8	193.2	196.9	208.6	206.9	191.4
July	209.5	201.9	210.2	212.9	NA	204.3	210.6	214.6	196.2
August	218.4	212.7	220.3	223.2	219.3	221.9	220.7	225.6	210.7
September	235.8	234.8	235.5	237.1	237.6	237.6	246.9	252.7	237.0
October	234.2	233.8	235.7	241.3	239.6	237.6	243.6	254.7	232.6
November	223.5	222.2	227.8	231.5	230.9	228.5	239.6	242.1	222.7
December	222.0	221.3	228.3	231.1	232.7	228.7	240.8	242.6	225.0
Average	198.6	197.2	198.7	206.4	200.0	201.2	210.5	216.6	197.4
2006 January	224.7	220.5	229.7	234.8	234.5	229.4	242.6	245.3	226.6
February	223.8	218.9	227.7	230.7	231.4	228.9	240.5	242.6	223.4
March	226.1	219.7	229.8	234.4	236.6	234.0	243.3	246.7	227.0
April	233.0	227.5	236.9	245.6	244.3	237.9	250.8	255.2	233.4
May	236.4	234.2	240.7	251.3	248.7	241.7	258.0	258.7	236.7
June	243.5	237.9	248.0	248.8	246.5	244.4	254.1	257.9	238.7
July	243.7	240.2	255.4	245.9	246.4	244.2	256.7	256.1	234.8
August	243.0	243.0	259.9	247.8	246.2	248.5	258.6	262.0	239.6
September	234.4	237.0	253.4	235.4	232.7	243.4	247.2	248.4	227.3
October	226.2	228.6	250.9	227.4	227.9	235.5	240.6	236.7	222.0
November	R 227.5	R 229.0	R 251.5	R 228.8	R 231.2	R 239.0	241.3	R 239.2	226.8
December	233.5	232.5	254.9	232.7	233.9	240.2	244.4	246.7	229.6
Average	229.4	226.7	240.2	235.4	236.0	235.5	245.1	246.2	228.2

R=Revised. NA=Not available.

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

Web Page: For annual data not displayed between 1978 and 1995, see <http://www.eia.doe.gov/emeu/mer/prices.html>.

Sources: • **1978-2005:** EIA, *Petroleum Marketing Annual 2005*, Table 18. • **2006:** EIA, *Petroleum Marketing Monthly*, March 2007, Table 18.

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

(Nominal Cents per Gallon, Excluding Taxes)

	Delaware	District of Columbia	Maryland	Virginia	West Virginia	Ohio	Michigan	Indiana	Illinois	Wisconsin	Minnesota
1978 Average	47.8	50.7	49.2	49.1	46.2	47.4	47.9	48.5	46.5	44.7	47.8
1980 Average	95.4	102.6	97.9	98.5	92.2	91.9	97.8	99.6	95.8	91.5	99.9
1985 Average	104.6	114.3	108.8	106.3	98.0	99.7	102.1	99.1	97.5	98.3	101.9
1990 Average	105.8	107.8	111.9	110.6	99.1	98.1	100.9	99.3	96.1	94.2	101.4
1995 Average	87.0	101.0	93.6	84.4	81.5	80.8	86.0	81.6	78.5	81.2	80.1
1996 Average	98.4	117.8	106.3	95.2	96.0	92.1	97.7	91.2	89.3	89.9	90.9
1997 Average	98.4	117.4	105.7	94.8	96.2	91.3	94.2	86.5	87.0	93.3	89.9
1998 Average	85.8	102.2	90.2	85.6	81.8	76.7	80.4	74.8	73.5	80.1	73.8
1999 Average	88.4	101.1	90.7	87.0	78.9	82.0	88.3	79.3	71.6	84.7	77.4
2000 Average	127.0	W	135.1	126.9	125.1	122.0	NA	120.7	109.5	117.1	115.6
2001 Average	123.4	143.1	134.2	120.2	113.9	116.0	NA	113.3	112.1	118.0	112.2
2002 Average	116.4	W	120.1	105.7	105.4	105.8	110.9	102.5	97.5	107.3	105.1
2003 Average	143.3	W	145.5	131.1	130.4	128.4	132.1	120.2	119.8	126.9	121.8
2004											
January	147.3	NA	152.1	136.1	137.4	132.4	133.6	130.1	125.5	128.7	124.5
February	152.3	W	155.9	135.2	140.5	135.5	138.0	133.3	126.6	128.5	125.6
March	150.9	W	153.6	134.7	137.2	138.2	140.7	134.0	132.6	131.8	128.0
April	150.2	W	153.3	131.0	136.3	140.5	140.2	W	134.2	135.8	133.0
May	147.9	W	150.0	NA	140.3	137.0	141.3	W	136.2	139.0	134.9
June	140.2	W	145.3	126.8	NA	134.9	138.4	W	134.5	136.2	135.2
July	140.8	W	150.3	135.3	137.2	141.4	144.0	W	139.8	141.8	139.5
August	147.3	W	156.6	142.5	147.3	147.6	150.7	W	144.9	148.8	152.5
September	156.5	W	166.4	153.6	154.0	154.3	162.9	W	NA	157.3	160.1
October	179.3	W	185.0	177.6	176.7	179.3	180.4	183.6	177.1	174.1	176.1
November	187.2	W	190.7	180.8	182.9	170.9	180.9	181.6	175.1	175.4	175.8
December	185.9	W	188.8	178.1	174.5	165.1	173.9	171.2	169.1	168.8	164.4
Average	157.0	W	163.2	146.2	149.3	147.5	153.9	153.7	140.5	146.5	143.3
2005											
January	185.1	W	189.4	179.1	180.9	169.3	175.4	171.6	167.3	167.1	162.9
February	187.2	W	190.7	181.4	181.9	176.1	181.7	175.4	171.7	172.2	168.1
March	193.6	W	199.9	190.7	192.6	188.9	191.4	188.0	189.1	186.6	179.7
April	196.8	W	204.0	189.4	190.6	181.0	192.1	190.7	NA	186.9	182.9
May	191.7	W	195.5	182.3	185.5	175.5	191.2	179.8	183.4	185.7	180.2
June	198.4	W	199.7	188.1	188.4	187.7	197.3	190.0	183.4	190.4	187.7
July	207.0	W	207.4	195.1	196.7	193.9	201.6	200.9	195.2	198.4	194.4
August	216.9	W	222.6	216.7	210.8	212.1	216.9	217.0	207.8	215.1	216.1
September	246.3	W	248.9	247.3	237.5	241.5	247.6	241.9	235.9	239.3	239.5
October	246.9	W	250.8	252.6	243.4	255.0	NA	NA	263.6	NA	255.6
November	231.6	W	242.3	229.0	220.7	230.3	238.5	243.3	237.6	236.9	224.7
December	235.8	W	240.7	226.5	224.2	220.1	224.6	227.9	227.4	224.0	212.6
Average	207.5	W	212.7	204.4	204.3	200.9	205.3	201.7	202.1	199.3	198.7
2006											
January	238.0	W	242.2	233.7	226.8	220.0	222.9	222.2	221.5	218.8	210.8
February	234.3	W	241.8	230.5	224.4	220.1	224.3	221.6	221.2	218.7	211.9
March	238.3	W	241.7	231.4	226.6	226.5	229.1	228.6	227.1	224.4	219.3
April	242.6	W	247.4	234.0	233.5	237.5	242.0	238.0	237.3	236.8	230.3
May	244.2	W	248.5	237.5	233.5	241.2	249.3	246.5	246.8	246.3	241.5
June	245.2	W	249.5	232.8	230.7	242.4	249.7	249.5	250.3	246.3	250.8
July	241.2	W	254.3	233.2	236.0	245.1	258.9	256.9	251.2	257.8	264.6
August	241.2	W	254.9	233.5	241.8	251.6	265.6	264.9	262.8	268.1	275.7
September	231.4	W	243.3	219.9	220.5	225.3	232.8	227.4	231.4	232.4	232.7
October	227.8	W	235.5	212.9	216.1	219.2	228.1	227.5	227.6	228.7	221.7
November	233.2	W	240.4	222.1	235.4	232.9	229.6				
December	240.9	W	242.4	217.8	223.3	224.1	237.2	236.9	236.6	235.2	228.6
Average	237.3	W	243.1	227.2	226.1	226.3	232.5	231.8	231.5	230.0	226.7

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

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

• Prices prior to 1983 are Energy Information Administration (EIA) estimates.

See Note 6 at end of section. • See "Nominal Price" in Glossary.

Web Page: For annual data not displayed between 1978 and 1995, see <http://www.eia.doe.gov/emeu/mer/prices.html>.

Sources: • **1978-2005:** EIA, *Petroleum Marketing Annual 2005*, Table 18.

• **2006:** EIA, *Petroleum Marketing Monthly*, March 2007, Table 18.

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

(Nominal Cents per Gallon, Excluding Taxes)

	Idaho	Washington	Oregon	Alaska	U.S. Average
1978 Average	43.6	48.6	45.8	53.2	49.0
1980 Average	91.6	100.8	97.3	97.8	97.4
1985 Average	97.2	101.1	97.1	108.3	105.3
1990 Average	97.4	102.9	97.0	110.1	106.3
1995 Average	83.9	96.2	89.4	83.4	86.7
1996 Average	93.3	108.0	98.9	90.9	98.9
1997 Average	95.3	113.9	103.1	97.3	98.4
1998 Average	78.4	97.8	86.1	85.2	85.2
1999 Average	76.2	106.5	93.8	96.6	87.6
2000 Average	117.0	144.5	136.8	133.7	131.1
2001 Average	103.8	133.6	121.1	137.7	125.0
2002 Average	91.9	120.4	106.0	108.7	112.9
2003 Average	118.8	148.7	130.3	124.3	135.5
2004 January	122.7	147.7	129.0	129.7	141.9
February	124.1	157.8	140.3	130.8	143.9
March	134.2	166.3	145.0	136.8	141.8
April	144.4	179.3	159.3	143.5	141.8
May	163.5	192.4	176.4	156.9	142.8
June	149.1	185.3	165.7	156.9	140.8
July	142.7	181.1	173.9	162.8	143.2
August	155.3	179.9	164.2	160.6	150.0
September	164.1	187.0	176.4	161.1	159.7
October	189.3	209.1	192.1	182.1	180.7
November	188.4	206.2	180.3	181.3	182.8
December	157.5	189.0	163.5	170.0	179.2
Average	149.5	174.9	159.4	152.4	154.8
2005 January	149.0	192.5	168.4	168.3	180.8
February	188.7	223.4	196.1	176.7	184.6
March	204.6	243.6	211.0	192.4	194.0
April	205.5	248.0	220.6	204.3	196.7
May	185.7	230.2	201.6	201.3	191.6
June	193.8	221.6	200.1	199.9	198.8
July	211.5	NA	NA	202.5	204.2
August	249.9	261.8	NA	218.0	218.4
September	276.1	280.6	259.0	242.5	242.3
October	NA	283.0	NA	250.1	244.3
November	253.3	261.3	234.8	229.7	232.1
December	218.2	248.2	219.7	219.5	231.2
Average	212.3	238.5	214.6	206.1	205.2
2006 January	215.6	249.8	220.3	218.3	232.8
February	222.2	254.4	218.5	223.0	230.9
March	229.8	273.0	238.5	224.9	235.1
April	245.0	276.5	248.8	234.1	242.5
May	NA	298.7	273.0	260.6	247.3
June	266.7	291.2	NA	261.0	246.7
July	265.9	289.9	261.9	258.1	247.1
August	296.8	293.1	281.3	266.3	250.9
September	269.5	273.3	240.0	261.3	237.5
October	235.8	249.1	224.8	228.1	229.9
November	R 242.4	R 270.3	R 253.3	224.2	233.5
December	R 256.5	R 284.7	R 259.0	R 236.5	R 237.0
Average	239.3	268.5	240.7	239.7	236.2
2007 January	NA	NA	NA	NA	E 227.7

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

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

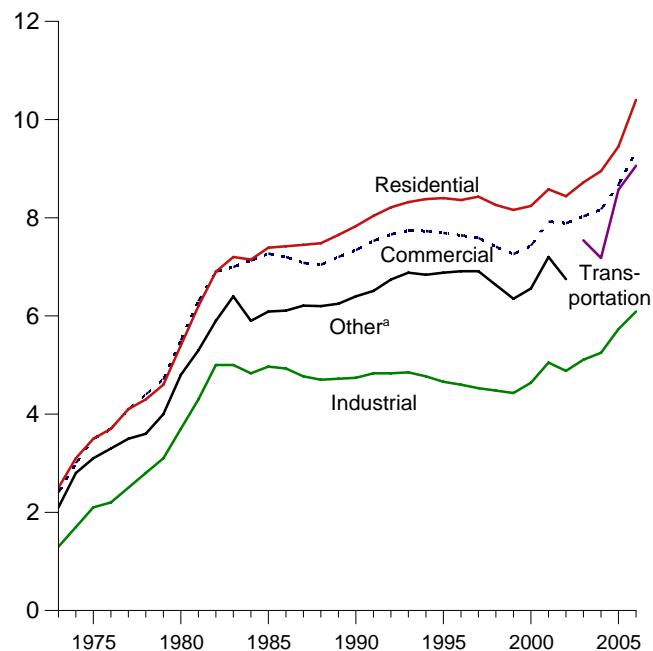
Web Page: For annual data not displayed between 1978 and 1995, see <http://www.eia.doe.gov/emeu/mer/prices.html>.

Sources: • **1978-2005:** EIA, *Petroleum Marketing Annual 2005*, Table 18.

• **2006:** EIA, *Petroleum Marketing Monthly*, March 2007, Table 18.

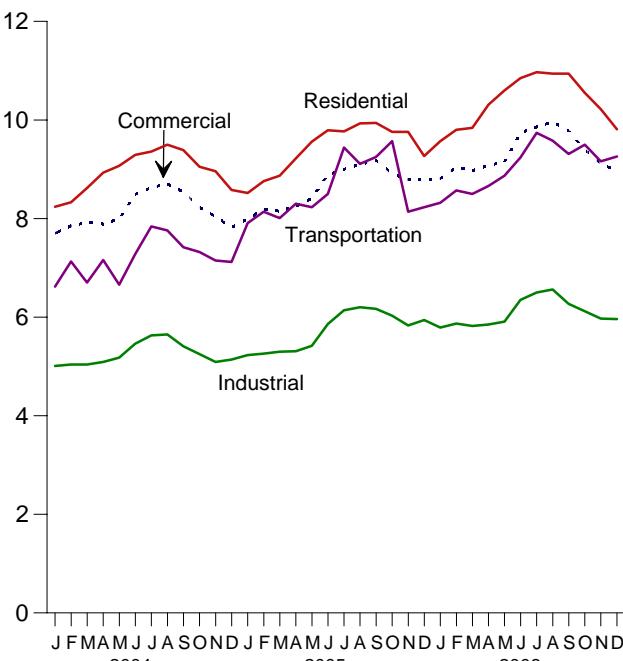
Figure 9.2 Average Retail Prices of Electricity
(Nominal Cents per Kilowatthour)

By Sector, 1973-2006



^aPublic street and highway lighting, interdepartmental sales, other sales to public authorities, agricultural and irrigation, and transportation including railroads and railways.

By Sector, Monthly



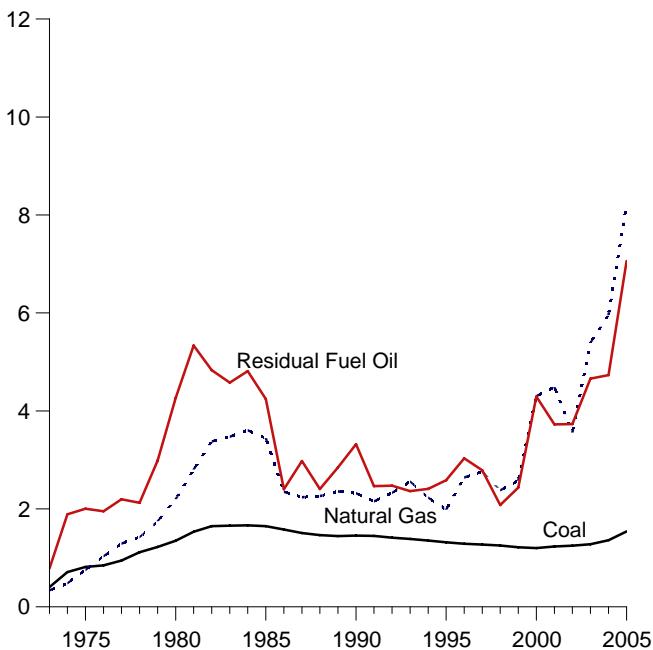
Notes: • Includes taxes. • See "Nominal Price" in Glossary.

Web Page: <http://www.eia.doe.gov/emeu/mer/prices.html>.

Source: Table 9.9.

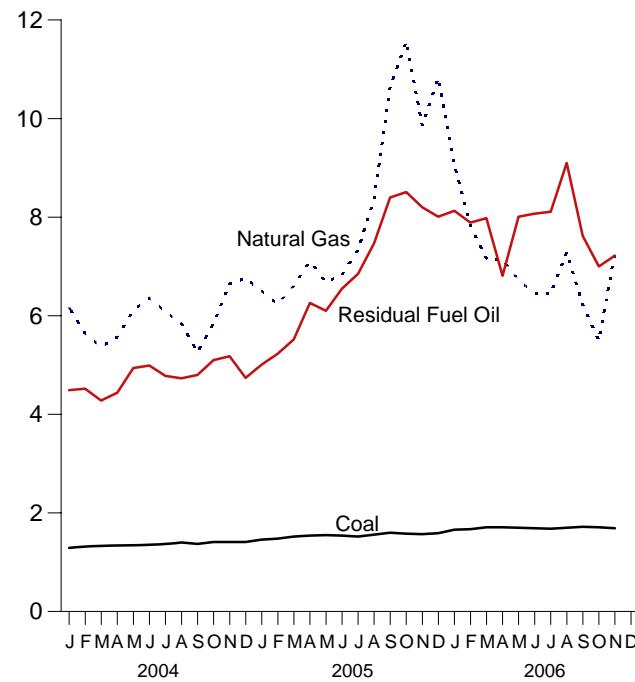
Figure 9.3 Cost of Fossil-Fuel Receipts at Electric Generating Plants
(Nominal Dollars per Million Btu, Including Taxes)

Costs, 1973-2005



Notes: • Because vertical scales differ, graphs should not be compared.
• See "Nominal Price" in glossary.

Costs, Monthly



Web Page: <http://www.eia.doe.gov/emeu/mer/prices.html>.

Source: Table 9.10.

Table 9.9 Average Retail Prices of Electricity
(Nominal Cents per Kilowatthour, Including Taxes)

	Residential	Commercial ^a	Industrial ^b	Transportation ^c	Other ^d	Total
1973 Average	2.5	2.4	1.3	NA	2.1	2.0
1975 Average	3.5	3.5	2.1	NA	3.1	2.9
1980 Average	5.4	5.5	3.7	NA	4.8	4.7
1985 Average	7.39	7.27	4.97	NA	6.09	6.44
1990 Average	7.83	7.34	4.74	NA	6.40	6.57
1995 Average	8.40	7.69	4.66	NA	6.88	6.89
1996 Average	8.36	7.64	4.60	NA	6.91	6.86
1997 Average	8.43	7.59	4.53	NA	6.91	6.85
1998 Average	8.26	7.41	4.48	NA	6.63	6.74
1999 Average	8.16	7.26	4.43	NA	6.35	6.64
2000 Average	8.24	7.43	4.64	NA	6.56	6.81
2001 Average	8.58	7.92	5.05	NA	7.20	7.29
2002 Average	8.44	7.89	4.88	NA	6.75	7.20
2003 Average	8.72	8.03	5.11	7.54	—	7.44
 2004						
January	8.24	7.70	5.01	6.62	—	7.22
February	8.33	7.85	5.04	7.13	—	7.25
March	8.62	7.92	5.04	6.70	—	7.30
April	8.93	7.89	5.09	7.16	—	7.34
May	9.07	7.99	5.18	6.66	—	7.46
June	9.29	8.49	5.46	7.28	—	7.93
July	9.36	8.63	5.63	7.84	—	8.11
August	9.50	8.70	5.65	7.76	—	8.18
September	9.39	8.54	5.41	7.42	—	7.97
October	9.05	8.23	5.25	7.32	—	7.60
November	8.96	8.04	5.09	7.15	—	7.42
December	8.58	7.82	5.14	7.12	—	7.36
Average	8.95	8.17	5.25	7.18	—	7.61
 2005						
January	8.52	7.99	5.23	7.91	—	7.47
February	8.76	8.19	5.26	8.14	—	7.58
March	8.87	8.15	5.30	8.01	—	7.59
April	9.22	8.25	5.31	8.30	—	7.65
May	9.56	8.41	5.42	8.23	—	7.84
June	9.79	8.89	5.86	8.50	—	8.38
July	9.77	9.00	6.14	9.44	—	8.60
August	9.93	9.10	6.20	9.11	—	8.71
September	9.94	9.18	6.17	9.25	—	8.68
October	9.76	8.91	6.03	9.57	—	8.37
November	9.76	8.79	5.83	8.14	—	8.21
December	9.27	8.79	5.94	8.23	—	8.21
Average	9.45	8.67	5.73	8.57	—	8.14
 2006						
January	9.57	8.81	5.79	8.32	—	8.32
February	9.80	9.04	5.87	8.57	—	8.43
March	9.84	8.97	5.82	8.50	—	8.39
April	10.31	9.08	5.85	8.66	—	8.52
May	10.60	9.15	5.91	8.87	—	8.66
June	10.85	9.74	6.35	9.24	—	9.24
July	10.97	9.86	6.50	9.74	—	9.49
August	10.94	9.96	6.56	9.58	—	9.53
September	10.94	9.78	6.27	9.31	—	9.26
October	10.55	9.40	6.12	9.50	—	8.83
November	10.22	9.11	5.97	9.16	—	8.58
December	9.81	8.97	5.96	9.26	—	8.49
Average	10.40	9.36	6.09	9.06	—	8.85

^a Commercial sector. For 1973-2002, prices exclude public street and highway lighting, interdepartmental sales, and other sales to public authorities.

^b Industrial sector. For 1973-2002, prices exclude agriculture and irrigation.

^c Transportation sector, including railroads and railways.

^d Public street and highway lighting, interdepartmental sales, other sales to public authorities, agriculture and irrigation, and transportation including railroads and railways.

NA=Not available. —=Not applicable.

Notes: • Beginning in 2003, the category "Other" has been replaced by "Transportation," and the categories "Commercial" and "Industrial" have been redefined. • Prices are calculated by dividing revenue by sales. Revenue may not correspond to sales for a particular month because of energy service provider billing and accounting procedures. That lack of correspondence could result in uncharacteristic increases or decreases in the monthly prices. • Prices include State and local taxes, energy or demand charges, customer service charges, environmental surcharges, franchise fees, fuel adjustments, and other miscellaneous charges applied to end-use customers during normal

billing operations. Prices do not include deferred charges, credits, or other adjustments, such as fuel or revenue from purchased power, from previous reporting periods. • See Note 7 at end of section for plant coverage, and for information on preliminary and final values. • See "Nominal Price" in Glossary. • Geographic coverage is the 50 States and the District of Columbia.

Web Page: For annual data not displayed between 1973 and 1995, see <http://www.eia.doe.gov/emeu/mer/prices.html>.

Sources: • **1973-September 1977:** Federal Power Commission, Form FPC-5, "Monthly Statement of Electric Operating Revenues and Income."

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

• **March 1980-1982:** FERC, Form FERC-5, "Electric Utility Company Monthly Statement." • **1983:** Energy Information Administration (EIA), Form EIA-826, "Electric Utility Company Monthly Statement."

• **1984-1991:** EIA, Form EIA-861, "Annual Electric Utility Report." • **1992 forward:** EIA, *Electric Power Monthly*, March 2007, Table 5.3.

Table 9.10 Cost of Fossil-Fuel Receipts at Electric Generating Plants
 (Nominal Dollars per Million Btu, Including Taxes)

	Coal	Petroleum				Natural Gas ^d	All Fossil Fuels ^e
		Residual Fuel Oil ^a	Distillate Fuel Oil ^b	Petroleum Coke	Total ^c		
1973 Average	0.41	0.79	NA	NA	0.80	0.34	0.48
1975 Average81	2.01	NA	NA	2.02	.75	1.04
1980 Average	1.35	4.27	NA	NA	4.35	2.20	1.93
1985 Average	1.65	4.24	NA	NA	4.32	3.44	2.09
1990 Average	1.45	3.32	5.38	.80	3.35	2.32	1.69
1995 Average	1.32	2.59	3.99	.65	2.57	1.98	1.45
1996 Average	1.29	3.03	4.87	.78	3.03	2.64	1.52
1997 Average	1.27	2.79	4.49	.91	2.73	2.76	1.52
1998 Average	1.25	2.08	3.30	.71	2.02	2.38	1.44
1999 Average	1.22	2.44	4.03	.65	2.36	2.57	1.44
2000 Average	1.20	4.29	6.65	.58	4.18	4.30	1.74
2001 Average	1.23	3.73	6.30	.78	3.69	4.49	1.73
2002 Average ^f	1.25	3.73	5.34	0.78	3.34	3.56	1.52
2003 Average	1.28	4.66	6.82	.72	4.33	5.39	2.28
2004 January	1.29	4.49	7.32	.76	4.41	6.17	2.38
February	1.32	4.52	7.13	.75	4.17	5.64	2.32
March	1.33	4.28	7.15	.81	3.77	5.37	2.20
April	1.34	4.44	7.37	.76	4.05	5.57	2.30
May	1.35	4.94	7.56	.77	4.41	6.11	2.53
June	1.35	4.99	7.67	.80	4.39	6.36	2.64
July	1.37	4.78	7.89	.87	4.39	6.08	2.76
August	1.40	4.73	8.70	.77	4.22	5.84	2.64
September	1.37	4.80	8.65	.83	4.17	5.26	2.40
October	1.41	5.10	9.56	.82	4.49	5.84	2.45
November	1.41	5.18	9.64	1.04	4.77	6.65	2.52
December	1.41	4.74	8.86	.99	4.22	6.76	2.57
Average	1.36	4.73	8.02	.83	4.29	5.96	2.48
2005 January	1.46	5.01	9.73	1.10	5.00	6.50	2.64
February	1.48	5.23	9.47	1.17	4.76	6.23	2.50
March	1.52	5.52	11.11	1.12	4.94	6.61	2.60
April	1.54	6.26	10.78	1.15	5.09	7.11	2.77
May	1.55	6.10	10.09	1.13	5.30	6.68	2.77
June	1.54	6.55	10.79	1.01	5.57	6.83	3.06
July	1.52	6.85	10.76	1.07	6.03	7.34	3.47
August	1.56	7.47	11.12	1.01	7.06	8.37	3.80
September	1.60	8.40	13.55	1.11	7.82	10.63	4.05
October	1.58	8.51	15.18	1.22	7.83	11.56	3.93
November	1.57	8.20	13.12	1.12	7.62	9.86	3.42
December	1.59	8.01	12.51	1.14	7.69	10.82	3.75
Average	1.54	7.06	11.72	1.11	6.44	8.21	3.26
2006 January	1.66	8.13	13.37	1.11	7.01	9.06	3.13
February	1.67	7.89	11.74	1.18	5.44	7.83	2.97
March	1.71	7.98	12.51	1.20	5.16	7.16	2.88
April	1.71	6.81	14.45	1.26	5.09	7.12	2.93
May	1.70	8.01	14.51	1.34	6.34	6.73	2.97
June	1.69	8.07	14.05	1.33	6.32	6.45	3.07
July	1.68	8.11	12.22	1.39	6.60	6.45	3.36
August	1.70	9.10	15.08	1.48	7.85	7.29	3.60
September	1.72	7.62	10.60	1.38	5.88	6.22	2.93
October	1.71	7.00	12.08	1.24	4.83	5.50	2.68
November	1.69	7.22	11.94	1.37	5.73	7.28	2.90
11-Month Average ...	1.69	8.02	12.98	1.29	6.26	6.89	3.05
2005 11-Month Average ...	1.54	6.94	11.60	1.11	6.29	8.02	3.21
2004 11-Month Average ...	1.36	4.73	7.95	.82	4.30	5.90	2.47

^a For 1973-2001, electric utility data are for heavy oil (fuel oil nos. 5 and 6, and small amounts of fuel oil no. 4).

^b For 1973-2001, electric utility data are for light oil (fuel oil nos. 1 and 2).

^c Distillate fuel oil, residual fuel oil, petroleum coke, jet fuel, kerosene, other petroleum, and waste oil. For 1973-1982, data do not include refined motor oil, bunker oil, and liquefied petroleum gases. For 1973-1989, data do not include petroleum coke.

^d Natural gas, plus a small amount of supplemental gaseous fuels that cannot be identified separately. For 1973-2000, data also include a small amount of blast furnace gas and other gases derived from fossil fuels.

^e Weighted average of costs shown under "Coal," "Petroleum," and "Natural Gas."

^f Through 2001, data are for electric utilities only. Beginning in 2002, data also include independent power producers, and electric generating plants in the commercial and industrial sectors. See Note 8 at end of section for plant coverage.

NA=Not available.

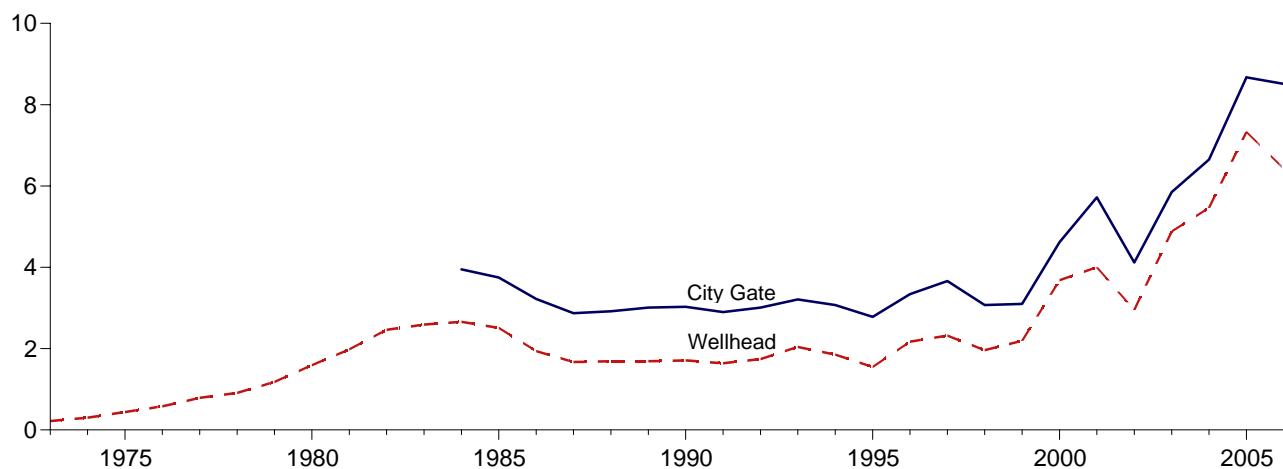
Notes: • Receipts are purchases of fuel. • Yearly costs are averages of monthly values, weighted by quantities in Btu. • Geographic coverage is the 50 States and the District of Columbia.

Web Page: For annual data not displayed between 1973 and 1995, see <http://www.eia.doe.gov/emeu/mer/prices.html>.

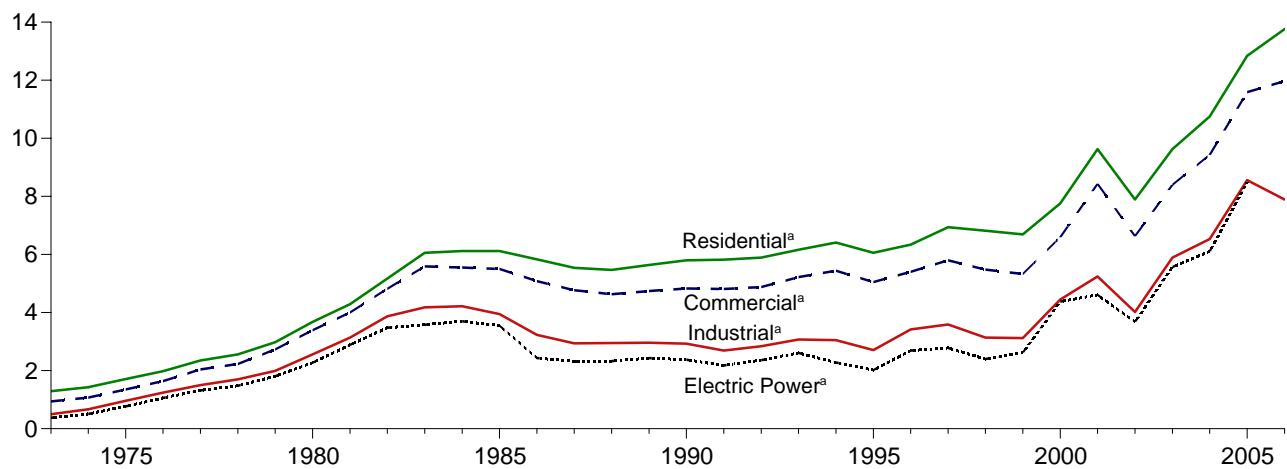
Sources: See end of section.

Figure 9.4 Natural Gas Prices
(Nominal Dollars per Thousand Cubic Feet)

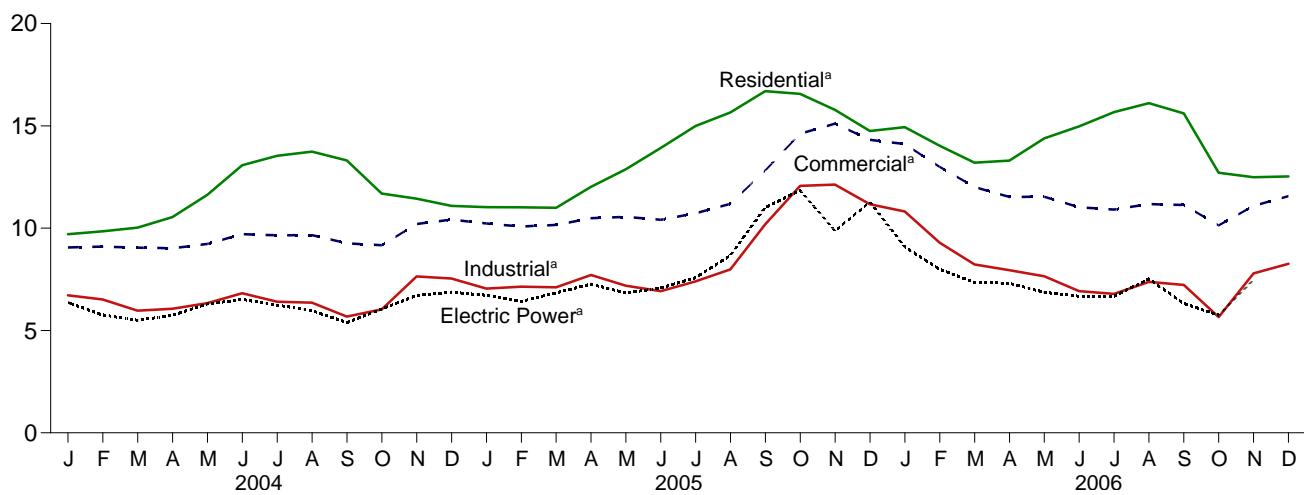
Selected Prices, 1973-2006



Consuming Sectors, 1973-2006



Consuming Sectors, Monthly



^aIncludes taxes.

Notes: • Because vertical scales differ, graphs should not be compared.
• See "Nominal Price" in glossary.

Web Page: <http://www.eia.doe.gov/emeu/mer/prices.html>.

Source: Table 9.11.

Table 9.11 Natural Gas Prices

(Nominal Dollars per Thousand Cubic Feet)

	Wellhead Price	City Gate Price	Consuming Sectors ^a							
			Residential		Commercial ^b		Industrial ^c		Electric Power ^d	
			Price ^e	Percentage of Sector ^f	Price ^e	Percentage of Sector ^f	Price ^e	Percentage of Sector ^f	Price ^e	Percentage of Sector ^f
1973 Average	0.22	NA	1.29	NA	0.94	NA	0.50	NA	0.38	92.1
1975 Average44	NA	1.71	NA	1.35	NA	.96	NA	.77	96.1
1980 Average	1.59	NA	3.68	NA	3.39	NA	2.56	NA	2.27	96.9
1985 Average	2.51	3.75	6.12	NA	5.50	NA	3.95	68.8	3.55	94.0
1990 Average	1.71	3.03	5.80	99.3	4.83	86.6	2.93	35.2	2.38	76.8
1995 Average	1.55	2.78	6.06	99.1	5.05	76.7	2.71	24.5	2.02	71.4
1996 Average	2.17	3.34	6.34	99.1	5.40	77.6	3.42	19.4	2.69	68.4
1997 Average	2.32	3.66	6.94	98.8	5.80	70.8	3.59	18.1	2.78	68.0
1998 Average	1.96	3.07	6.82	97.7	5.48	67.0	3.14	16.1	2.40	63.7
1999 Average	2.19	3.10	6.69	95.2	5.33	66.1	3.12	18.8	2.62	58.3
2000 Average	3.68	4.62	7.76	92.6	6.59	63.9	4.45	19.8	4.38	50.5
2001 Average	4.00	5.72	9.63	92.4	8.43	66.0	5.24	20.8	4.61	40.2
2002 Average	2.95	4.12	7.89	97.9	6.63	77.4	4.02	22.7	^d 3.68	83.9
2003 Average	4.88	5.85	9.63	97.6	8.40	78.2	5.89	22.1	5.57	91.2
2004										
January	5.21	6.41	9.71	NA	9.06	81.6	6.72	23.2	6.37	90.1
February	5.02	6.35	9.85	NA	9.10	81.7	6.52	23.6	5.76	88.7
March	5.12	6.23	10.03	NA	9.05	79.2	5.97	22.9	5.50	91.4
April	5.03	6.31	10.54	NA	9.02	77.7	6.06	23.4	5.74	92.5
May	5.40	6.48	11.63	NA	9.23	73.8	6.34	23.5	6.30	89.5
June	5.82	6.94	13.08	NA	9.71	72.2	6.82	25.0	6.52	89.4
July	5.62	6.68	13.54	NA	9.65	71.7	6.41	24.9	6.24	90.3
August	5.52	6.51	13.74	NA	9.66	71.0	6.36	24.1	5.97	89.8
September	5.06	6.06	13.31	NA	9.26	71.4	5.68	22.9	5.39	89.2
October	5.43	6.30	11.69	NA	9.17	73.3	6.03	22.6	6.05	90.4
November	6.21	7.50	11.44	NA	10.21	78.0	7.64	23.5	6.71	87.9
December	6.01	7.49	11.09	NA	10.42	80.3	7.54	24.5	6.88	88.0
Average	5.46	6.65	10.75	97.4	9.43	78.0	6.53	23.7	6.11	89.8
2005										
January	5.80	7.05	11.03	NA	10.23	85.2	7.05	24.7	6.72	93.0
February	5.74	7.09	11.02	NA	10.08	85.5	7.14	24.1	6.42	93.4
March	5.95	7.24	11.00	NA	10.16	85.0	7.11	24.4	6.84	92.8
April	6.58	7.79	12.02	NA	10.49	83.2	7.71	23.7	7.27	92.8
May	6.24	7.51	12.88	NA	10.55	80.1	7.19	24.0	6.83	93.5
June	6.09	7.30	13.92	NA	10.41	79.0	6.92	23.4	7.08	90.8
July	6.71	7.68	14.99	NA	10.73	76.6	7.40	24.2	7.58	89.9
August	6.48	8.20	15.66	NA	11.19	77.2	7.99	24.3	8.67	89.4
September	8.96	10.26	16.70	NA	12.82	75.8	10.19	23.0	11.01	90.2
October	10.35	12.16	16.56	NA	14.62	79.6	12.07	23.0	11.85	92.3
November	9.91	11.57	15.78	NA	15.11	81.8	12.13	23.2	9.87	93.9
December	9.08	10.77	14.75	NA	14.32	84.5	11.17	23.4	11.28	90.5
Average	7.33	8.67	12.84	98.2	11.59	82.7	8.56	23.8	8.48	91.5
2006										
January	^E 8.66	10.66	14.94	NA	14.11	83.0	10.82	22.4	9.09	95.1
February	^E 7.28	9.27	14.03	NA	13.00	83.3	9.29	22.3	7.99	96.2
March	^E 6.52	8.74	13.20	NA	12.01	83.0	8.23	22.4	7.35	93.4
April	^E 6.59	8.11	13.30	NA	11.53	79.5	7.95	22.1	7.31	96.5
May	^E 6.19	7.86	14.39	NA	11.54	76.4	22.3	6.87	94.0	
June	^E 5.80	7.22	14.98	NA	11.02	71.8	6.92	21.7	6.67	94.5
July	^E 5.82	7.13	15.67	NA	10.91	69.3	6.79	22.1	6.67	91.2
August	^E 6.51	7.97	16.11	NA	11.18	7.38	22.1	7.52	93.0	
September	^E 5.51	7.59	15.61	NA	11.14	7.23	20.6	6.32	93.7	
October	^E 5.03	6.38	12.71	NA	10.14	73.8	5.66	21.4	5.75	93.7
November	^E 6.43	8.39	12.49	NA	11.09	21.4	^R 94.5			
December	^E 6.65	8.66	12.53	NA	11.57	81.8	8.26	22.1	NA	NA
Average	^E 6.42	8.51	13.76	NA	11.97	^R 78.5	7.89	^R 21.9	NA	NA

^a See Note 9 at end of section.^b Commercial sector, including commercial combined-heat-and-power (CHP) and commercial electricity-only plants. See note at end of Section 7.^c Industrial sector, including industrial combined-heat-and-power (CHP) and industrial electricity-only plants. See note at end of Section 7.^d The electric power sector comprises electricity-only and combined-heat-and-power (CHP) plants within the NAICS 22 category whose primary business is to sell electricity, or electricity and heat, to the public. Through 2001, data are for electric utilities only; beginning in 2002, data also include independent power producers. See Note 8 at end of section for plant coverage.^e Includes taxes.^f The percentage of the sector's consumption in Table 4.4 for which price data

are available. For details on how the percentages are derived, see Table 9.11 Sources at end of section.

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

Notes: • Prices are for natural gas, plus a small amount of supplemental gaseous fuels that cannot be identified separately. • Prices are intended to include all taxes. See Note 9 at end of section. • Wellhead annual and year-to-date prices are simple averages of the monthly prices; all other annual and year-to-date prices are volume-weighted averages of the monthly prices. • Geographic coverage is the 50 States and the District of Columbia.

Web Page: For annual data not displayed between 1973 and 1995, see <http://www.eia.doe.gov/emeu/mer/prices.html>.

Sources: See end of section.

Energy Prices

Note 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."

Note 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.

Note 3. The landed cost of imported crude oil from selected countries does not represent the total cost of all imported crude. Prior to April 1975, imported crude costs to U.S. company-owned refineries in the Caribbean were not included in the landed cost, and costs of crude oil from countries that export only small amounts to the United States were also excluded. Beginning in April 1975, however, coverage was expanded to include U.S. company-owned refineries in the Caribbean. Landed costs do not include supplemental fees.

Note 4. Beginning with January 1981, refiner acquisition costs of crude oil are from data collected on Energy Information Administration (EIA) Form EIA-14, "Refiners' Monthly Cost Report." Those costs were previously published from data collected on Economic Regulatory Administration (ERA) Form ERA-49, "Domestic Crude Oil Entitlements Program Refiners Monthly Report." Form ERA-49 was discontinued with the decontrol of crude oil on January 28, 1981. Crude oil purchases and costs are defined for Form EIA-14 in accordance with conventions used for Form ERA-49. The respondents for the two forms are also essentially the same. However, due to possible different interpretations of the filing requirements and a different method for handling prior period adjustments, care must be taken when comparing the data collected on the two forms.

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

Crude oil costs and volumes reported on Form ERA-49 excluded unfinished oils but included the Strategic Petroleum Reserve (SPR). Crude oil costs and volumes reported on Federal Energy Administration (FEA) Form

FEA-P110-M-1, "Refiners' Monthly Cost Allocation Report," included unfinished oils but excluded SPR. Imported averages derived from Form ERA-49 exclude oil purchased for SPR, whereas the composite averages derived from Form ERA-49 include SPR. None of the prices derived from Form EIA-14 include either unfinished oils or SPR.

Note 5. Several different series of motor gasoline prices are published in this section. U.S. city average retail prices of motor gasoline are calculated monthly by the Bureau of Labor Statistics during the development of the Consumer Price Index (CPI). These prices include all Federal, State, and local taxes paid at the time of sale. From 1974-1977, prices were collected in 56 urban areas. From 1978 forward, prices were collected from a new sample of service stations in 85 urban areas selected to represent all urban consumers-about 80 percent of the total U.S. population. The service stations are selected initially, and on a replacement basis, in such a way that they represent the purchasing habits of the CPI population. Service stations in the current sample include those providing all types of service (i.e., full-, mini-, and self-serve).

Refiner prices of finished motor gasoline for resale and to end users are determined by the EIA in a monthly survey of refiners and gas plant operators (Form EIA-782A). The prices do not include any Federal, State, or local taxes paid at the time of sale. Estimates of prices prior to January 1983 are based on Form FEA-P302-M-1/EIA-460, "Petroleum Industry Monthly Report for Product Prices," and also exclude all Federal, State, or local taxes paid at the time of sale. Sales for resale are those made to purchasers who are other-than-ultimate consumers. Sales to end users are sales made directly to the consumer of the product, including bulk consumers (such as agriculture, industry, and utilities) and residential and commercial consumers.

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

made to end users. The end-user category continues to include retail sales through company-owned and operated outlets but also includes sales to the bulk consumers such as agriculture, industry, and electric utilities. Additional information may be found in "Estimated Historic Time Series for the EIA-782," a feature article by Paula Weir, printed in the December [3] *Petroleum Marketing Monthly*, published by EIA.

Note 7. Average annual retail prices of electricity have the following plant coverage: Through 1979, annual data are for Classes A and B privately owned electric utilities only. For 1980–1982, annual data are for selected Class A utilities whose electric operating revenues were \$100 million or more during the previous year. For 1983, annual data are for a selected sample of electric utilities. Beginning in 1984, data are for a census of electric utilities. Beginning in 1996, annual data also include energy service providers selling to retail customers.

Average monthly retail prices of electricity have the following plant coverage: Through 1985, monthly data are derived from selected privately owned electric utilities and, therefore, are not national averages. Beginning in 1986, monthly data are based on a sample of publicly and privately owned electric utilities. Beginning in 1996, monthly data also include energy service providers selling to retail customers.

Preliminary monthly data are from Form EIA-826, "Monthly Electric Sales and Revenue Report With State Distributions Report," which is a monthly collection of data from approximately 450 of the largest publicly and privately owned electric utilities as well as a census of energy service providers with retail sales in deregulated States; a model is then applied to the collected data to estimate for the entire universe of U.S. electric utilities. Preliminary annual data are the sum of the monthly revenues divided by the sum of the monthly sales. When final annual data become available each year from Form EIA-861, "Annual Electric Power Industry Report," their ratios to the preliminary Form EIA-826 values are used to derive adjusted final monthly values.

Note 8. Data for 1973–1982 cover all regulated 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 regulated electric generating plants at which the generator nameplate capacity of all steam-electric units combined totaled 50 megawatts or greater. Data for 1991–2001 cover all regulated electric generating plants at which the generator nameplate capacity of all steam-electric units and combined-cycle units together totaled 50 megawatts or greater. Data for 2002 forward cover the aforementioned regulated generating plants plus unregulated generating plants (independent power producers,

as well as combined-heat-and-power generating plants and electricity-only plants in the commercial and industrial sector) whose total facility fossil-fueled nameplate generating capacity is 50 or more megawatts, regardless of unit type.

Note 9. Natural gas prices are intended to include all taxes. Instructions on the data collection forms specifically direct that all Federal, State, and local taxes, surcharges, and/or adjustments billed to consumers are to be included. However, sales and other taxes itemized on more than 3,000 consumers' bills are sometimes excluded by the reporting utilities. Delivered-to-consumers prices for 1987 forward represent natural gas delivered and sold to residential, commercial, industrial, and electric power consumers. They do not include the price of natural gas delivered to industrial and commercial consumers on behalf of third parties. Volumes of natural gas delivered on behalf of third parties are included in the consumption data shown in Table 4.4. Additional information is available in the EIA *Natural Gas Monthly*, Appendix C.

Table 9.1 Sources

Domestic First Purchase Price

1973–1976: U.S. Department of the Interior (DOI), Bureau of Mines (BOM), *Minerals Yearbook*, "Crude Petroleum and Petroleum Products" chapter.

1977: Federal Energy Administration, based on Form FEA-P124, "Domestic Crude Oil Purchaser's Monthly Report."

1978–2006: Energy Information Administration (EIA), *Petroleum Marketing Annual*, Table 1.

2006 and 2007: EIA, *Petroleum Marketing Monthly*, March 2007, Table 1.

F.O.B. and Landed Cost of Imports

October 1973–September 1977: Federal Energy Administration, Form FEA-F701-M-0, "Transfer Pricing Report."

October–December 1977: EIA, Form FEA-F701-M-0, "Transfer Pricing Report."

1978–2006: EIA, *Petroleum Marketing Annual*, Table 1.

2006 and 2007: EIA, *Petroleum Marketing Monthly*, March 2007, 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."

1978–2006: EIA, *Petroleum Marketing Annual*, Table 1.

2006 and 2007: EIA, *Petroleum Marketing Monthly*, March 2007, Table 1.

Table 9.2 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."

1978–2005: EIA, *Petroleum Marketing Annual*, Table 24.

2006: EIA, *Petroleum Marketing Monthly*, March 2007, Table 24.

Table 9.10 Sources

1973–September 1977: Federal Power Commission, Form FPC-423, "Monthly Report of Cost and Quality of Fuels for Electric Utility Plants."

October 1977–December 1977: Federal Energy Regulatory Commission, Form FERC-423, "Monthly Report of Cost and Quality of Fuels for Electric Utility Plants."

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

1980–1989: EIA, *Electric Power Monthly*, May issues.

1990–2000: EIA, *Electric Power Monthly*, March 2003, Table 26.

2001 forward: EIA, *Electric Power Monthly*, March 2007, Table 4.1; Federal Energy Regulatory Commission, Form FERC-423, "Monthly Report of Cost and Quality of Fuels for Electric Utility Plants"; and EIA, Form EIA-423, "Monthly Cost and Quality of Fuels for Electric Plants Report."

Table 9.11 Sources

All Prices Except Electric Power:

1973–1999: Energy Information Administration (EIA), *Natural Gas Annual*, annual reports.

2000 forward: EIA, *Natural Gas Monthly*, February 2007, Table 4.

Electric Power Sector Price:

1973–1998: EIA, *Natural Gas Annual 2000*, Table 96.

1999–2002: EIA, *Natural Gas Monthly*, October 2004, Table 4.

2003 forward: Federal Energy Regulatory Commission, Form FERC-423, "Monthly Report of Cost and Quality of Fuels for Electric Utility Plants," and EIA, Form EIA-423 "Monthly Cost and Quality of Fuels for Electric Plants Report."

Percentage of Residential Sector:

1989–2001: EIA, *Natural Gas Annual (NGA)*, annual reports, Table 1. Calculated as the total amount of natural gas delivered to residential consumers minus the amount delivered for the account of others, and then divided by the total amount delivered to residential consumers.

2002 forward: EIA, *NGA*, annual reports, Table 23.

Percentage of Commercial and Industrial Sectors:

1989–1999: EIA, *Natural Gas Annual*, annual reports. Calculated as the total amount of natural gas delivered to commercial (or industrial) consumers minus the amount delivered for the account of others, and then divided by the total amount delivered to commercial (or industrial) consumers.

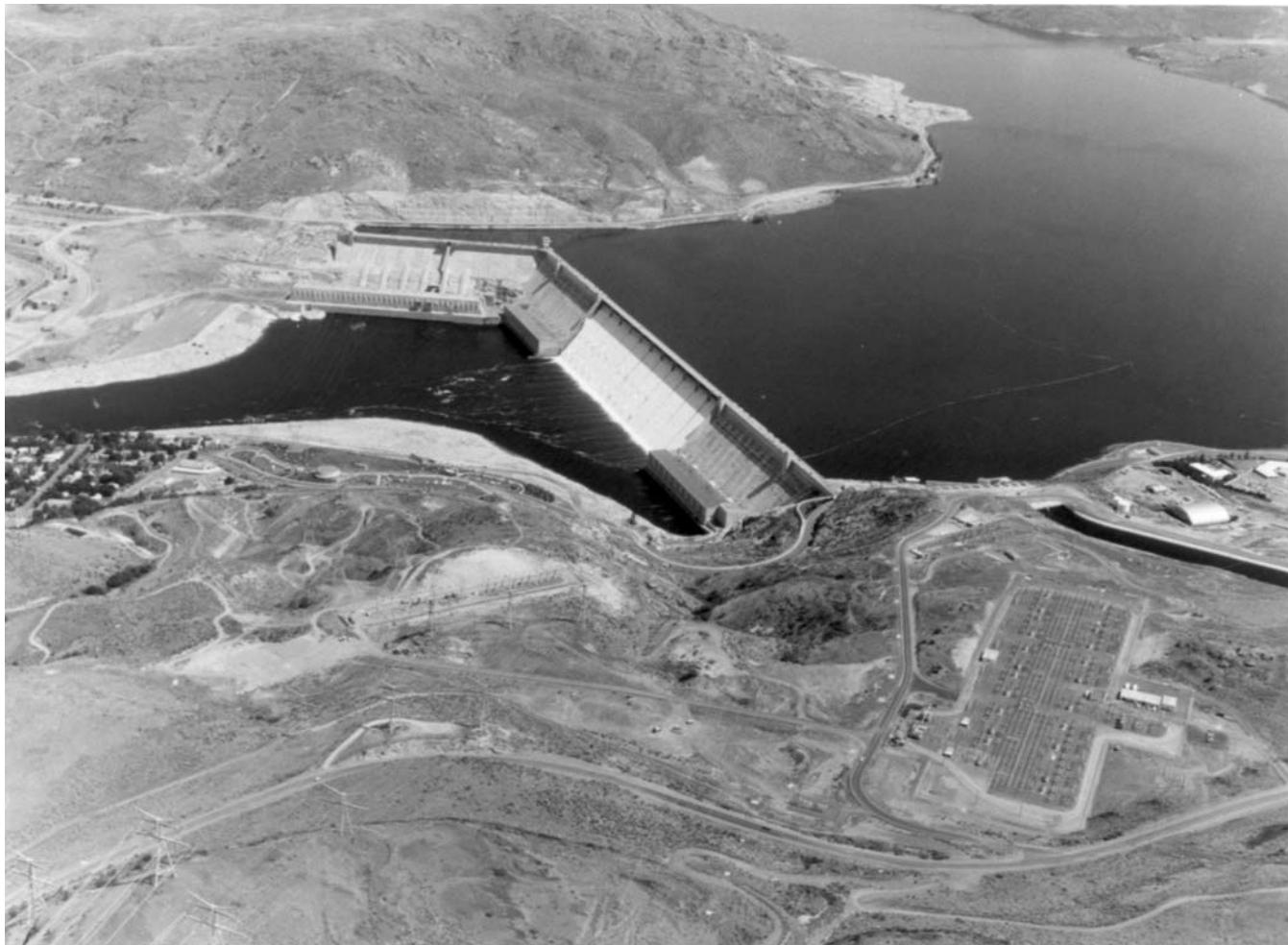
2000 forward: EIA, *Natural Gas Monthly*, February 2007, Table 4.

Percentage of Electric Power Sector:

1973–2001: Calculated by EIA as the quantity of natural gas receipts by electric utilities reported on Form FERC-423, "Monthly Report of Cost and Quantity of Fuels for Electric Utility Plants" (and predecessor forms) divided by the quantity of natural gas consumed by the electric power sector (for 1973–1988, see *Monthly Energy Review*, Table 7.3b; for 1989–2001, see *Monthly Energy Review*, Table 7.4b).

2002 forward: Calculated by EIA as the quantity of natural gas receipts by electric utilities and independent power producers reported on Form FERC-423, "Monthly Report of Cost and Quantity of Fuels for Electric Utility Plants," and EIA-423, "Monthly Cost and Quality of Fuels for Electric Plants Report," divided by the quantity of natural gas consumed by the electric power sector (see *Monthly Energy Review*, Table 7.4b).

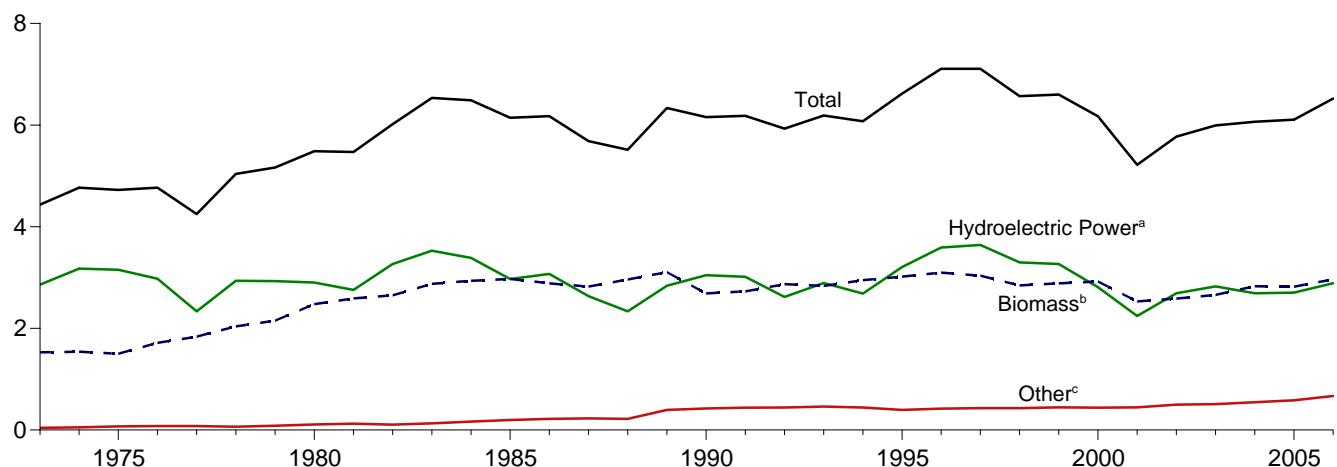
Renewable Energy



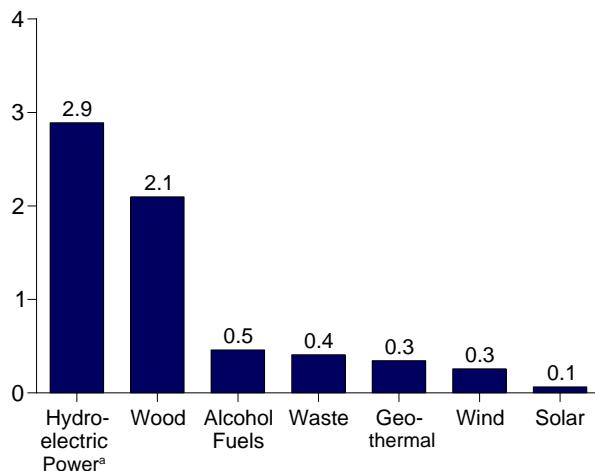
Grand Coulee Dam, Washington State. Source: U.S. Bureau of Reclamation.

Figure 10.1 Renewable Energy Consumption
(Quadrillion Btu)

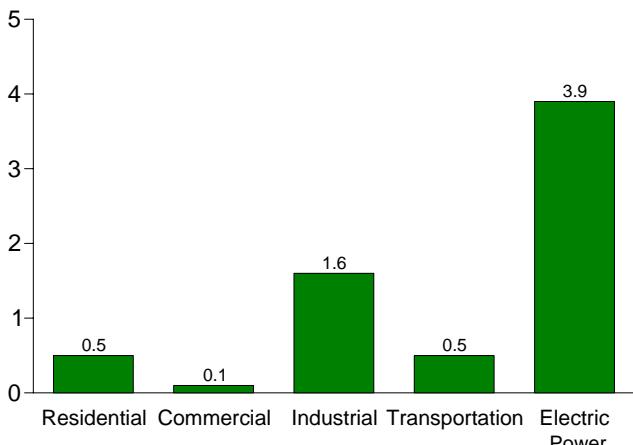
Total and Major Sources, 1973-2006



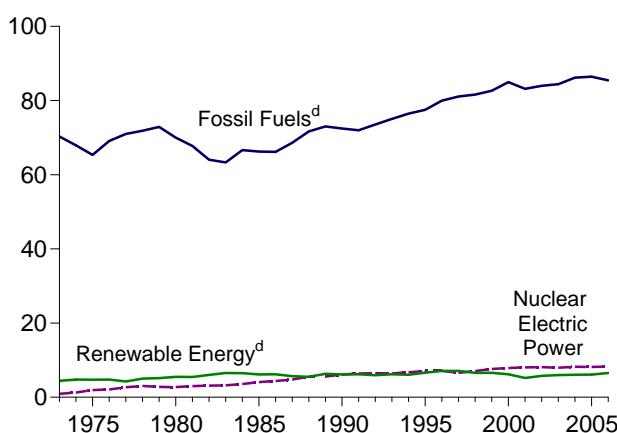
By Source, 2006



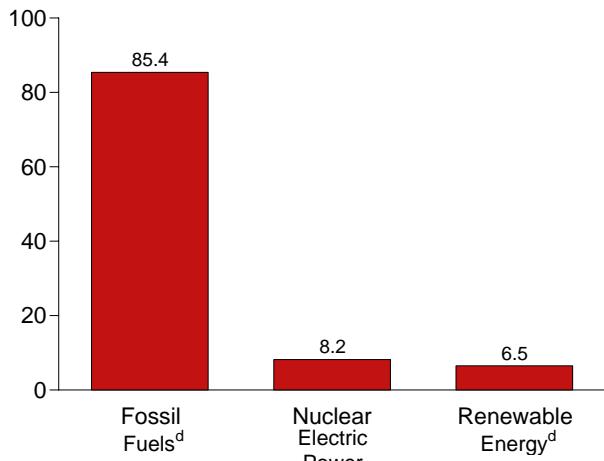
By Sector, 2006



Compared With Other Resources, 1973-2006



Compared With Other Resources, 2006



^aConventional hydroelectric power.

^bWood, waste, and alcohol fuels.

^cGeothermal, wind, and solar.

^dA small amount of alcohol (ethanol blended into motor gasoline) is both

fossil fuel (as petroleum) and renewable energy and is counted in both those subtotals but counted only once in total energy consumption.

Web Page: <http://www.eia.doe.gov/emeu/mer/renew.html>.

Sources: Tables 1.3 and 10.1-10.2c.

Table 10.1 Renewable Energy Consumption by Source
(Trillion Btu)

	Hydro-electric Power ^a	Biomass				Geo-thermal ^e	Solar ^f	Wind ^g	Total
		Wood ^b	Waste ^c	Alcohol Fuels ^d	Total				
1973 Total	2,861	1,527	2	NA	1,529	43	NA	NA	4,433
1975 Total	3,155	1,497	2	NA	1,499	70	NA	NA	4,723
1980 Total	2,900	2,474	2	NA	2,475	110	NA	NA	5,485
1985 Total	2,970	2,687	236	52	2,975	198	(s)	(s)	6,144
1990 Total	3,046	2,216	408	63	2,687	336	60	29	6,158
1995 Total	3,205	2,370	531	117	3,018	294	70	33	6,620
1996 Total	3,590	2,437	577	84	3,098	316	71	33	7,107
1997 Total	3,640	2,381	551	106	3,037	325	70	34	7,107
1998 Total	3,297	2,184	542	117	2,843	328	70	31	6,569
1999 Total	3,268	2,224	540	122	2,886	331	69	46	6,599
2000 Total	2,811	2,272	511	139	2,922	317	66	57	6,173
2001 Total	2,242	2,006	R 379	147	R 2,531	311	65	70	R 5,219
2002 Total	2,689	1,995	R 417	175	R 2,586	328	64	105	R 5,774
2003 Total	2,825	2,002	R 420	238	R 2,660	331	64	115	R 5,993
 2004 January	230	184	R 34	24	R 242	30	5	10	R 517
February	210	169	R 33	24	R 225	28	5	10	R 477
March	230	176	R 35	24	R 234	29	6	13	R 511
April	209	176	R 34	24	R 234	27	5	13	R 488
May	241	170	R 35	25	R 230	28	6	17	R 521
June	253	172	R 34	26	R 232	28	6	14	R 533
July	234	184	R 35	24	R 242	29	6	12	R 523
August	216	180	R 35	25	R 239	29	6	11	R 501
September	206	171	R 33	25	R 229	27	5	11	R 478
October	189	180	R 33	26	R 239	29	5	10	R 473
November	210	174	R 34	26	R 233	28	5	9	R 485
December	263	188	R 35	27	R 250	29	5	12	R 558
Total	2,690	2,121	R 408	299	R 2,828	341	65	142	R 6,066
 2005 January	243	181	R 34	27	R 242	29	5	11	R 530
February	216	171	R 30	24	R 225	25	5	10	R 480
March	229	176	R 34	26	R 235	28	5	16	R 514
April	231	167	R 32	25	R 223	28	5	17	R 504
May	273	172	R 34	27	R 233	29	6	17	R 558
June	268	168	R 34	29	R 231	29	6	18	R 552
July	260	178	R 35	29	R 242	30	6	14	R 551
August	216	178	R 34	31	R 243	29	6	11	R 505
September	174	170	R 33	28	R 231	28	5	15	R 453
October	180	174	R 32	31	R 237	29	5	14	R 466
November	194	168	R 33	31	R 233	28	5	16	R 476
December	221	177	R 34	33	R 244	29	5	18	R 518
Total	2,703	2,078	R 400	342	R 2,820	343	64	178	R 6,108
 2006 January	277	186	R 35	30	R 251	29	5	24	R 586
February	250	165	R 32	28	R 224	26	5	19	R 524
March	248	175	R 34	32	R 241	30	5	24	R 548
April	285	167	R 33	32	R 232	27	5	25	R 574
May	305	171	R 35	39	R 245	26	6	24	R 607
June	293	170	R 34	43	R 248	29	6	20	R 595
July	249	180	R 35	40	R 256	30	6	19	R 559
August	209	180	R 35	42	R 257	30	6	16	R 518
September	172	173	R 34	41	R 248	29	5	18	R 472
October	173	177	R 33	43	R 254	30	5	24	R 486
November	209	173	R 34	44	R 250	29	5	23	R 516
December	219	180	35	44	259	30	5	23	537
Total	2,889	2,097	409	459	2,965	346	64	258	6,523

^a Conventional hydroelectric power.

^b Wood and wood-derived fuels.

^c Municipal solid waste from biogenic sources, landfill gas, sludge waste, agricultural byproducts, and other biomass. Through 2000, also includes non-renewable waste (municipal solid waste from non-biogenic sources, and tire-derived fuels).

^d Ethanol blended into motor gasoline.

^e Geothermal electricity net generation, heat pump, and direct use energy.

^f Solar thermal and photovoltaic electricity net generation, and solar

thermal direct use energy.

^g Wind electricity net generation.

R=Revised. NA=Not available. (s)=Less than 0.5 trillion Btu.

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

Web Page: For annual data not displayed between 1973 and 1995, see <http://www.eia.doe.gov/emeu/mer/renew.html>.

Sources: Tables 10.2a, 10.2b, and 10.2c.

Beginning with 2001 data, non-renewable waste (municipal solid waste from non-biogenic sources, and tire-derived fuels) is removed from "Biomass Waste."

**Table 10.2a Estimated Renewable Energy Consumption:
Residential and Commercial Sectors
(Trillion Btu)**

	Residential Sector				Hydro-electric Power ^e	Commercial Sector ^a				Geo-thermal ^c	Total			
	Biomass	Geo-thermal ^c	Solar ^d	Total		Biomass								
	Wood ^b					Wood ^b	Waste ^f	Total						
1973 Total	354	NA	NA	354	NA	7	NA	7	NA	7				
1975 Total	425	NA	NA	425	NA	8	NA	8	NA	8				
1980 Total	850	NA	NA	850	NA	21	NA	21	NA	21				
1985 Total	1,010	NA	NA	1,010	NA	24	NA	24	NA	24				
1990 Total	580	6	56	641	1	66	28	94	3	98				
1995 Total	520	7	65	591	1	72	40	113	5	118				
1996 Total	540	7	65	612	1	76	53	129	5	135				
1997 Total	440	8	65	513	1	73	58	131	6	138				
1998 Total	380	8	65	452	1	64	54	118	7	127				
1999 Total	400	9	64	472	1	67	54	121	7	128				
2000 Total	430	9	61	500	1	71	47	119	8	127				
2001 Total	370	9	60	439	1	67	R 25	R 91	8	R 100				
2002 Total	380	10	59	449	(s)	69	R 26	R 95	9	R 103				
2003 Total	400	13	58	471	1	71	R 29	R 100	11	R 112				
2004														
January	35	1	5	41	(s)	6	R 3	R 9	1	R 10				
February	32	1	5	38	(s)	6	R 3	R 8	1	R 9				
March	35	1	5	41	(s)	6	R 3	R 9	1	R 10				
April	34	1	5	40	(s)	6	R 3	R 9	1	R 10				
May	35	1	5	41	(s)	6	R 3	R 9	1	R 10				
June	34	1	5	40	(s)	6	R 3	R 9	1	R 10				
July	35	1	5	41	(s)	6	R 3	R 9	1	R 10				
August	35	1	5	41	(s)	6	R 3	R 9	1	R 10				
September	34	1	5	40	(s)	6	R 3	R 9	1	R 10				
October	35	1	5	41	(s)	6	R 3	R 9	1	R 10				
November	34	1	5	40	(s)	6	R 3	R 9	1	R 10				
December	35	1	5	41	(s)	6	R 3	R 9	1	R 10				
Total	410	14	59	483	1	70	R 34	R 105	12	R 118				
2005														
January	36	1	5	42	(s)	6	R 3	R 9	1	R 10				
February	32	1	5	38	(s)	5	R 3	R 8	1	R 9				
March	36	1	5	42	(s)	6	R 3	R 9	1	R 10				
April	35	1	5	41	(s)	6	R 3	R 8	1	R 10				
May	36	1	5	42	(s)	6	R 3	R 9	1	R 10				
June	35	1	5	41	(s)	6	R 3	R 9	1	R 10				
July	36	1	5	42	(s)	6	R 3	R 9	1	R 10				
August	36	1	5	42	(s)	6	R 3	R 9	1	R 10				
September	35	1	5	41	(s)	6	R 3	R 9	1	R 10				
October	36	1	5	42	(s)	6	R 3	R 9	1	R 10				
November	35	1	5	41	(s)	6	R 3	R 9	1	R 10				
December	36	1	5	42	(s)	6	R 3	R 9	1	R 10				
Total	420	16	59	495	1	70	R 34	R 104	14	R 118				
2006														
January	36	1	5	42	(s)	6	R 3	R 9	1	R 10				
February	32	1	5	38	(s)	5	R 3	R 8	1	R 9				
March	36	1	5	42	(s)	6	R 3	R 9	1	R 10				
April	35	1	5	41	(s)	6	R 3	R 9	1	R 10				
May	36	1	5	42	(s)	6	R 3	R 9	1	R 10				
June	35	1	5	41	(s)	6	R 3	R 9	1	R 10				
July	36	1	5	42	(s)	6	R 3	R 9	1	R 10				
August	36	1	5	42	(s)	6	R 3	R 9	1	R 10				
September	35	1	5	41	(s)	6	R 3	R 9	1	R 10				
October	36	1	5	42	(s)	6	R 3	R 9	1	R 10				
November	35	1	5	41	(s)	6	R 3	R 9	1	R 10				
December	36	1	5	42	(s)	6	R 3	R 9	1	R 10				
Total	420	16	59	495	1	70	35	105	14	120				

^a Commercial sector fuel use, including that at commercial combined-heat-and-power (CHP) and commercial electricity-only plants. See note at end of Section 7.

^b Wood and wood-derived fuels.

^c Geothermal heat pump and direct use energy.

^d Solar thermal direct use energy and photovoltaic electricity generation.

Small amounts of commercial sector use are included in the residential sector.

^e Conventional hydroelectric power.

^f Municipal solid waste from biogenic sources, landfill gas, sludge waste,

agricultural byproducts, and other biomass. Through 2000, also includes non-renewable waste (municipal solid waste from non-biogenic sources, and tire-derived fuels).

R=Revised. NA=Not available. (s)=Less than 0.5 trillion Btu.

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

Web Page: For annual data not displayed between 1973 and 1995, see <http://www.eia.doe.gov/emeu/mer/renew.html>.

Sources: See end of section.

Beginning with 2001 data, non-renewable waste (municipal solid waste from non-biogenic sources, and tire-derived fuels) is removed from "Biomass Waste."

**Table 10.2b Estimated Renewable Energy Consumption:
Industrial and Transportation Sectors
(Trillion Btu)**

	Industrial Sector ^a						Transportation Sector	
	Hydro-electric Power ^b	Biomass			Geo-thermal ^e	Total		
		Wood ^c	Waste ^d	Total				
1973 Total	35	1,165	NA	1,165	NA	1,200	NA	
1975 Total	32	1,063	NA	1,063	NA	1,096	NA	
1980 Total	33	1,600	NA	1,600	NA	1,633	NA	
1985 Total	33	1,645	230	1,875	NA	1,908	52	
1990 Total	31	1,442	192	1,634	2	1,667	63	
1995 Total	55	1,652	195	1,847	3	1,905	117	
1996 Total	61	1,683	224	1,907	3	1,971	84	
1997 Total	58	1,731	184	1,915	3	1,976	106	
1998 Total	55	1,603	180	1,784	3	1,841	117	
1999 Total	49	1,620	171	1,791	4	1,843	122	
2000 Total	42	1,636	145	1,781	4	1,828	139	
2001 Total	33	1,443	R 143	R 1,586	5	R 1,623	147	
2002 Total	39	1,396	R 161	R 1,557	5	R 1,601	175	
2003 Total	43	1,363	R 161	R 1,524	3	R 1,571	238	
2004 January	3	129	R 13	142	(S)	R 145	24	
February	3	117	R 12	R 129	(S)	R 132	24	
March	3	121	R 13	R 134	(S)	R 137	24	
April	2	125	R 12	R 137	(S)	R 140	24	
May	2	117	R 13	R 130	(S)	R 132	25	
June	2	120	R 12	133	(S)	R 135	26	
July	2	127	R 13	140	(S)	R 142	24	
August	2	124	R 13	R 137	(S)	R 139	25	
September	3	118	R 12	R 130	(S)	R 134	25	
October	3	126	R 13	R 138	(S)	R 141	26	
November	3	121	R 12	R 133	(S)	R 137	26	
December	4	132	R 13	R 144	(S)	149	27	
Total	33	1,476	R 151	R 1,626	4	R 1,663	299	
2005 January	3	123	R 13	R 136	(S)	R 139	27	
February	3	118	R 11	R 130	(S)	R 133	24	
March	3	118	R 12	R 130	(S)	R 134	26	
April	3	114	R 12	R 126	(S)	R 129	25	
May	3	116	R 12	R 128	(S)	R 131	27	
June	3	113	R 12	R 125	(S)	R 128	29	
July	3	119	R 12	R 131	(S)	R 135	29	
August	2	119	R 12	R 131	(S)	R 134	31	
September	2	114	R 12	R 126	(S)	R 129	28	
October	2	117	R 12	R 129	(S)	R 132	31	
November	2	113	R 12	R 125	(S)	R 127	31	
December	3	119	R 12	R 131	(S)	R 134	33	
Total	32	1,403	R 145	R 1,548	4	R 1,584	342	
2006 January	3	128	R 12	R 140	(S)	R 144	30	
February	3	111	R 11	R 122	(S)	R 125	28	
March	2	117	R 12	R 129	(S)	R 132	32	
April	2	113	R 11	R 125	(S)	R 127	32	
May	2	115	R 12	R 127	(S)	R 130	39	
June	2	115	R 12	R 126	(S)	R 129	43	
July	2	122	R 12	R 134	(S)	R 137	40	
August	2	121	R 12	R 133	(S)	R 135	42	
September	2	117	R 12	R 128	(S)	R 130	41	
October	3	120	R 12	R 132	(S)	R 135	43	
November	3	117	R 12	R 128	(S)	R 132	44	
December	3	122	12	134	(S)	137	44	
Total	30	1,417	140	1,558	4	1,592	459	

^a Industrial sector fuel use, including that at industrial combined-heat-and-power (CHP) and industrial electricity-only plants. See note at end of Section 7.

^b Conventional hydroelectric power.

^c Wood and wood-derived fuels.

^d Municipal solid waste from biogenic sources, landfill gas, sludge waste, agricultural byproducts, and other biomass. Through 2000, also includes non-renewable waste (municipal solid waste from non-biogenic sources, and tire-derived fuels).

^e Geothermal heat pump and direct use energy.

^f Ethanol blended into motor gasoline.

R=Revised. NA=Not available. (S)=Less than 0.5 trillion Btu.

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

Web Page: For annual data not displayed between 1973 and 1995, see <http://www.eia.doe.gov/emeu/mer/renew.html>.

Sources: See end of section.

Beginning with 2001 data, non-renewable waste (municipal solid waste from non-biogenic sources, and tire-derived fuels) is removed from "Biomass Waste."

Table 10.2c Renewable Energy Consumption: Electric Power Sector
(Trillion Btu)

	Hydro-electric Power ^a	Biomass			Geo-thermal ^d	Solar ^e	Wind ^f	Total
		Wood ^b	Waste ^c	Total				
1973 Total	2,827	1	2	3	43	NA	NA	2,873
1975 Total	3,122	(s)	2	2	70	NA	NA	3,194
1980 Total	2,867	3	2	4	110	NA	NA	2,982
1985 Total	2,937	8	7	14	198	(s)	(s)	3,150
1990 Total ^g	3,014	129	188	317	326	4	29	3,689
1995 Total	3,149	125	296	422	280	5	33	3,889
1996 Total	3,528	138	300	438	300	5	33	4,305
1997 Total	3,581	137	309	446	309	5	34	4,375
1998 Total	3,241	137	308	444	311	5	31	4,032
1999 Total	3,218	138	315	453	312	5	46	4,034
2000 Total	2,768	134	318	453	296	5	57	3,579
2001 Total	2,209	126	R 211	R 337	289	6	70	R 2,910
2002 Total	2,650	150	R 230	R 380	305	6	105	R 3,445
2003 Total	2,781	167	R 230	R 397	303	5	115	R 3,601
2004								
January	227	15	R 18	R 33	27	(s)	10	R 297
February	207	14	R 18	R 31	26	(s)	10	R 274
March	227	14	R 19	R 33	26	1	13	R 299
April	207	12	R 18	R 30	24	1	13	R 275
May	239	12	R 19	R 31	25	1	17	R 313
June	251	12	R 19	R 31	26	1	14	R 323
July	232	16	R 19	R 35	27	1	12	R 306
August	214	15	R 19	R 34	26	1	11	R 286
September	203	14	R 18	R 32	25	1	11	R 271
October	186	13	R 18	R 32	27	(s)	10	R 255
November	206	14	R 18	R 32	25	(s)	9	R 273
December	259	16	R 19	R 35	26	(s)	12	R 331
Total	2,656	165	R 223	R 388	311	6	142	R 3,503
2005								
January	239	16	R 18	R 34	26	(s)	11	R 311
February	213	15	R 16	R 31	22	(s)	10	R 277
March	226	16	R 18	R 34	25	(s)	16	R 302
April	228	13	R 17	R 30	25	1	17	R 300
May	270	14	R 19	R 33	27	1	17	R 348
June	265	15	R 19	R 34	26	1	18	R 344
July	257	17	R 20	R 37	27	1	14	R 335
August	213	17	R 19	R 36	26	1	11	R 288
September	171	16	R 18	R 34	26	1	15	R 246
October	178	15	R 17	R 32	26	(s)	14	R 251
November	191	15	R 19	R 34	26	(s)	16	R 267
December	218	16	R 19	R 36	26	(s)	18	R 299
Total	2,670	185	R 221	R 406	309	6	178	R 3,568
2006								
January	273	17	R 20	R 37	26	(s)	24	R 361
February	247	16	R 18	R 34	24	(s)	19	R 324
March	245	17	R 19	R 36	27	(s)	24	R 332
April	283	13	R 18	R 32	24	1	25	R 364
May	303	14	R 20	R 34	23	1	24	R 386
June	291	16	R 19	R 35	26	1	20	R 373
July	247	17	R 20	R 37	27	1	19	R 330
August	207	17	R 20	R 37	28	1	16	R 288
September	170	16	R 19	R 35	26	1	18	R 250
October	171	15	R 19	R 34	27	(s)	24	R 256
November	206	15	R 19	R 35	26	(s)	23	R 290
December	217	17	20	36	28	(s)	23	303
Total	2,858	190	233	423	312	5	258	3,857

^a Conventional hydroelectric power.

^b Wood and wood-derived fuels.

^c Municipal solid waste from biogenic sources, landfill gas, sludge waste, agricultural byproducts, and other biomass. Through 2000, also includes non-renewable waste (municipal solid waste from non-biogenic sources, and tire-derived fuels).

^d Geothermal electricity net generation.

^e Solar thermal and photovoltaic electricity net generation.

^f Wind electricity net generation.

^g Through 1988, data are for consumption at electric utilities only. Beginning in 1989, data also include consumption at independent power producers.

R=Revised. NA=Not available. (s)=Less than 0.5 trillion Btu.

Notes: • The electric power sector comprises electricity-only and combined-heat-and-power (CHP) plants within the NAICS 22 category whose primary business is to sell electricity, or electricity and heat, to the public.

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

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

Web Page: For annual data not displayed between 1973 and 1995, see <http://www.eia.doe.gov/emeu/mer/renew.html>.

Sources: • **Wood and Waste:** 1973-1988—Table 7.3b. 1989 forward—Table 7.4b. • **Hydroelectric Power, Geothermal, Solar, and Wind:** Tables 7.2b and A6.

Beginning with 2001 data, non-renewable waste (municipal solid waste from non-biogenic sources, and tire-derived fuels) is removed from "Biomass Waste."

Renewable Energy

Table 10.2a Sources

Residential Sector, Wood

1973–1979: Energy Information Administration (EIA), *Estimates of U.S. Wood Energy Consumption from 1949 to 1981*, Table A2.

1980 forward: EIA, Form EIA-457, “Residential Energy Consumption Survey”; and EIA, Office of Coal, Nuclear, Electric and Alternate Fuels (CNEAF), estimates based on Form EIA-457 and regional heating degree-day data. Monthly estimates are created by dividing the annual estimates by the number of days in the year and then multiplying by the number of days in the month.

Residential Sector, Geothermal

Oregon Institute of Technology, Geoheat Center. Monthly estimates are created by dividing the annual estimates by the number of days in the year and then multiplying by the number of days in the month.

Residential Sector, Solar

EIA, CNEAF, estimates based on Form EIA-63A, “Annual Solar Thermal Collector Manufacturers Survey,” and Form EIA-63B, “Annual Photovoltaic Module/Cell Manufacturers Survey.” Monthly estimates are created by dividing the annual estimates by the number of days in the year and then multiplying by the number of days in the month.

Commercial Sector, Hydroelectric Power

EIA, *Monthly Energy Review (MER)*, Tables 7.2a–7.2c and A6. Calculated as total conventional hydroelectric power minus conventional hydroelectric power in the electric power and industrial sectors, multiplied by the fossil fueled-plants heat rate.

Commercial Sector, Wood

1973–1979: EIA, *Estimates of U.S. Wood Energy Consumption from 1949 to 1981*, Table A2.

1980–1983: EIA, *Estimates of U.S. Wood Energy Consumption 1980–1983*, Table ES1.

1984: EIA, CNEAF, estimate.

1985–1988: Values interpolated.

1989 forward: EIA, *MER*, Tables 7.4a–c; and EIA, CNEAF, estimates based on Form EIA-871, “Commercial Buildings Energy Consumption Survey.” Data for wood consumption at commercial combined-heat-and-power (CHP) plants are calculated as total wood consumption at electricity-only and CHP plants (*MER*, Table 7.4a) minus wood consumption in the electric power sector (*MER*, Table 7.4b) and at industrial CHP plants (*MER*, Table

7.4c). Annual estimates for wood consumption at other commercial plants are based on Form EIA-871; monthly estimates are created by dividing the annual estimates by the number of days in the year and then multiplying by the number of days in the month.

Commercial Sector, Waste

EIA, *MER*, Table 7.4c.

Commercial Sector, Geothermal

Oregon Institute of Technology, Geoheat Center. Monthly estimates are created by dividing the annual estimates by the number of days in the year and then multiplying by the number of days in the month.

Table 10.2b Sources

Industrial Sector, Hydroelectric Power

1973–1988: Energy Information Administration (EIA), *Monthly Energy Review (MER)*, Tables 7.1 and A6.

1989 forward: EIA, *MER*, Tables 7.2c and A6.

Industrial Sector, Wood

1973–1979: EIA, *Estimates of U.S. Wood Energy Consumption from 1949 to 1981*, Table A2.

1980–1983: EIA, *Estimates of U.S. Wood Energy Consumption 1980–1983*, Table ES1.

1984: EIA, *Estimates of U.S. Biofuels Consumption 1990*, Table 1.

1985 and 1986: Values interpolated.

1987: EIA, *Estimates of Biofuels Consumption in the United States During 1987*, Table 2.

1988: Value interpolated.

1989 forward: EIA, *MER*, Table 7.4c; and EIA, Office of Coal, Nuclear, Electric and Alternate Fuels (CNEAF), estimates based on Form EIA-846, “Manufacturing Energy Consumption Survey.” Data for wood consumption at industrial combined-heat-and-power (CHP) plants are from *MER*, Table 7.4c. Annual estimates for wood consumption at other industrial plants are based on Form EIA-846; monthly estimates are created by dividing the annual estimates by the number of days in the year and then multiplying by the number of days in the month.

Industrial Sector, Waste

1981: EIA, *Estimates of U.S. Biofuels Consumption 1990*, Table 8; and EIA, *MER*, Table 10.2c. Estimates are calculated as total waste consumption minus electric power sector waste consumption.

1982 and 1983: EIA, CNEAF, estimates for total waste consumption; and EIA, *MER*, Table 10.2c. Estimates are calculated as total waste consumption minus electric power sector waste consumption.

1984: EIA, *Estimates of U.S. Biofuels Consumption 1990*, Table 8; and EIA, *MER*, Table 10.2c. Estimates are calculated as total waste consumption minus electric power sector waste consumption.

1985 and 1986: Values interpolated.

1987: EIA, *Estimates of U.S. Biofuels Consumption 1990*, Table 8; and EIA, *MER*, Table 10.2c. Estimates are calculated as total waste consumption minus electric power sector waste consumption.

1988: Value interpolated.

1989 forward: EIA, *MER*, Table 7.4c; and EIA, CNEAF, estimates based on information presented in Government Advisory Associates, *Resource Recovery Yearbook and Methane Recovery Yearbook*, and information provided by the U.S. Environmental Protection Agency, Landfill Methane Outreach Program. Data for waste consumption at industrial CHP plants are from *MER*, Table 7.4c. Annual estimates for waste consumption at other industrial plants are based on the non-EIA sources listed above; monthly estimates are created by dividing the annual estimates by the number of days in the year and then multiplying by the number of days in the month.

Industrial Sector, Geothermal

Oregon Institute of Technology, Geoheat Center. Monthly estimates are created by dividing the annual estimates by the number of days in the year and then multiplying by the number of days in the month.

Transportation Sector, Alcohol Fuels

1981: EIA, *Estimates of U.S. Biofuels Consumption 1990*, Table 10.

1982 and 1983: EIA, CNEAF, estimates.

1984: EIA, *Estimates of U.S. Biofuels Consumption 1990*, Table 10.

1985 and 1986: Values interpolated.

1987: EIA, *Estimates of U.S. Biofuels Consumption 1990*, Table 10.

1988: Value interpolated.

1989: EIA, *Estimates of U.S. Biofuels Consumption 1990*, Table 10.

1990: EIA, *Estimates of U.S. Biomass Energy Consumption 1992*, Table D1.

1991: Value interpolated.

1992: EIA, *Estimates of U.S. Biomass Energy Consumption 1992*, Table D1.

1993–2004: EIA, *Petroleum Supply Annual (PSA)*, Tables 2 and 16; and EIA, *MER*, Table A1. Ten percent of oxygenated finished motor gasoline field production from *PSA*, Table 2, is added to fuel ethanol refinery input from *PSA*, Table 16. The sum is multiplied by the conversion factor of 3.539 million Btu per barrel for fuel ethanol from *MER*, Table A1.

2005: EIA, *PSA*, Tables 1 and 15; and EIA, *MER*, Table A1. Motor gasoline blending components adjustments and finished motor gasoline adjustments from *PSA*, Table 1, are added to fuel ethanol refinery and blender net inputs from *PSA*, Table 15. The sum is multiplied by the conversion factor of 3.539 million Btu per barrel for fuel ethanol from *MER*, Table A1.

2006 forward: EIA, *Petroleum Supply Monthly (PSM)*, Tables 1 and 27; and EIA, *MER*, Table A1. Motor gasoline blending components adjustments and finished motor gasoline adjustments from *PSM*, Table 1, are added to fuel ethanol refinery and blender net inputs from *PSM*, Table 27. The sum is multiplied by the conversion factor of 3.539 million Btu per barrel for fuel ethanol from *MER*, Table A1.

International Petroleum



Drilling rig, Gansu Province, People's Republic of China. Source: U.S. Department of Energy.

Table 11.1a World Crude Oil Production: OPEC Members
(Thousand Barrels per Day)

	Algeria	Indonesia	Iran	Iraq	Kuwait ^a	Libya	Nigeria	Qatar	Saudi Arabia ^a	United Arab Emirates	Venezuela	OPEC ^{b,c}
1973 Average	1,097	1,339	5,861	2,018	3,020	2,175	2,054	570	7,596	1,533	3,366	30,629
1975 Average	983	1,307	5,350	2,262	2,084	1,480	1,783	438	7,075	1,664	2,346	26,771
1980 Average	1,106	1,577	1,662	2,514	1,656	1,787	2,055	472	9,900	1,709	2,168	26,606
1985 Average	1,037	1,325	2,250	1,433	1,023	1,059	1,495	301	3,388	1,193	1,677	16,181
1990 Average	1,175	1,462	3,088	2,040	1,175	1,375	1,810	406	6,410	2,117	2,137	23,195
1995 Average	1,202	1,503	3,643	560	2,057	1,390	1,993	442	8,231	2,233	2,750	26,004
1999 Average	1,242	1,547	3,686	579	2,062	1,401	2,001	510	8,218	2,278	2,938	26,461
1997 Average	1,277	1,520	3,664	1,155	2,007	1,446	2,132	550	8,362	2,316	3,280	27,710
1998 Average	1,246	1,518	3,634	2,150	2,085	1,390	2,153	696	8,389	2,345	3,167	28,774
1999 Average	1,202	1,472	3,557	2,508	1,898	1,319	2,130	665	7,833	2,169	2,826	27,579
2000 Average	1,254	1,428	3,696	2,571	2,079	1,410	2,165	737	8,404	2,368	3,155	29,267
2001 Average	1,310	1,340	3,724	2,390	1,998	1,367	2,256	714	8,031	2,205	3,010	28,344
2002 Average	1,306	1,249	3,444	2,023	1,894	1,319	2,118	679	7,634	2,082	2,604	26,352
2003 Average	1,611	1,155	3,743	1,308	2,136	1,421	2,275	715	8,775	2,348	2,335	27,822
2004												
January	1,645	1,109	3,950	2,103	2,300	1,450	2,348	751	8,700	2,400	2,540	29,297
February	1,645	1,109	3,950	2,003	2,300	1,450	2,348	761	8,700	2,420	2,540	29,226
March	1,645	1,099	3,960	2,203	2,355	1,450	2,348	761	8,400	2,370	2,540	29,131
April	1,645	1,099	3,970	2,303	2,350	1,450	2,348	761	8,400	2,220	2,540	29,086
May	1,645	1,094	3,980	1,903	2,400	1,450	2,348	761	8,500	2,280	2,540	28,901
June	1,665	1,089	3,990	1,703	2,400	1,500	2,395	799	9,500	2,510	2,540	30,091
July	1,695	1,089	4,010	2,003	2,400	1,550	2,395	799	9,500	2,530	2,540	30,511
August	1,695	1,089	4,030	1,803	2,400	1,560	2,302	799	9,500	2,600	2,540	30,318
September	1,695	1,089	4,030	2,303	2,400	1,560	2,302	799	9,500	2,600	2,540	30,818
October	1,695	1,089	4,035	2,203	2,400	1,560	2,302	799	9,500	2,602	2,640	30,825
November	1,725	1,089	4,050	1,703	2,400	1,600	2,302	799	9,500	2,602	2,540	30,310
December	1,725	1,104	4,060	1,903	2,400	1,600	2,210	799	9,500	2,602	2,640	30,543
Average	1,677	1,096	4,001	2,011	2,376	1,515	2,329	783	9,101	2,478	2,557	29,924
2005												
January	1,750	1,093	4,060	1,903	2,450	1,600	2,430	835	9,500	2,502	2,640	30,763
February	1,755	1,083	4,080	1,903	2,500	1,600	2,480	835	9,500	2,502	2,640	30,878
March	1,775	1,076	4,080	1,903	2,500	1,620	2,580	835	9,500	2,552	2,640	31,061
April	1,775	1,060	4,090	1,903	2,500	1,625	2,640	835	9,600	2,602	2,540	31,170
May	1,775	1,072	4,100	1,903	2,500	1,630	2,690	835	9,600	2,402	2,540	31,047
June	1,805	1,064	4,210	1,903	2,500	1,635	2,695	835	9,600	2,402	2,540	31,189
July	1,805	1,068	4,220	2,003	2,500	1,635	2,695	835	9,600	2,502	2,540	31,403
August	1,825	1,068	4,230	1,903	2,500	1,650	2,590	835	9,600	2,552	2,540	31,293
September	1,825	1,056	4,190	2,053	2,600	1,650	2,635	835	9,600	2,602	2,540	31,586
October	1,825	1,052	4,150	1,803	2,600	1,650	2,695	835	9,500	2,602	2,540	31,252
November	1,825	1,055	4,150	1,703	2,600	1,650	2,695	835	9,500	2,602	2,540	31,155
December	1,825	1,055	4,100	1,653	2,600	1,650	2,695	835	9,500	2,602	2,540	31,055
Average	1,797	1,067	4,139	1,878	2,529	1,633	2,627	835	9,550	2,535	2,565	31,155
2006												
January	1,825	1,045	4,100	1,603	2,600	1,650	2,560	835	9,400	2,602	2,540	30,760
February	1,825	1,050	4,050	1,803	2,550	1,650	2,410	835	9,500	2,602	2,540	30,815
March	1,825	1,043	4,000	1,903	2,525	1,680	2,370	835	9,350	2,602	2,540	30,673
April	1,825	1,035	4,000	1,903	2,525	1,690	2,370	835	9,350	2,602	2,540	30,675
May	1,785	1,038	3,950	1,903	2,525	1,700	2,370	835	9,200	2,602	2,540	30,448
June	1,795	1,027	4,030	2,153	2,550	1,700	2,465	835	9,100	2,602	2,540	30,797
July	1,805	1,020	4,035	2,203	2,550	1,700	2,380	855	9,300	2,702	2,440	30,990
August	1,805	1,015	4,035	2,203	2,550	1,700	2,430	885	9,300	2,702	2,490	31,115
September	1,835	1,005	4,035	2,153	2,550	1,700	2,430	885	9,000	2,702	2,490	30,785
October	1,835	985	4,060	2,103	2,550	1,700	2,530	885	8,800	2,702	2,490	30,640
November	1,805	985	4,020	2,003	2,450	1,650	2,480	845	8,800	2,602	2,490	30,180
December	1,805	985	4,020	2,003	2,450	1,650	2,480	835	8,750	2,602	2,490	30,070
Average	1,814	1,019	4,028	1,996	2,535	1,681	2,440	850	9,152	2,636	2,511	30,662

^a Except for the period from August 1990 through May 1991, includes about one-half of the production in the Kuwait-Saudi Arabia Neutral Zone. Kuwaiti Neutral Zone output was discontinued following Iraq's invasion of Kuwait on August 2, 1990, but was resumed in June 1991. In December 2006, Neutral Zone production by both Kuwait and Saudi Arabia totaled about 540 thousand barrels per day.

^b Organization of Petroleum Exporting Countries.

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

respectively, are excluded from all OPEC totals.

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

Web Page: For annual data not displayed between 1973 and 1995, see <http://www.eia.doe.gov/emeu/mer/inter.html>.

Sources: See end of section.

Table 11.1b World Crude Oil Production: Persian Gulf Nations, Non-OPEC, and World

(Thousand Barrels per Day)

	Persian Gulf Nations ^b	Selected Non-OPEC ^a Producers									Total Non- OPEC ^a	World
		Canada	China	Egypt	Mexico	Norway	Former U.S.S.R.	Russia	United Kingdom	United States		
1973 Average	20,668	1,798	1,090	165	465	32	8,324	NA	2	9,208	25,050	55,679
1975 Average	18,934	1,430	1,490	235	705	189	9,523	NA	12	8,375	26,058	52,828
1980 Average	17,961	1,435	2,114	595	1,936	486	11,706	NA	1,622	8,597	32,952	59,558
1985 Average	9,630	1,471	2,505	887	2,745	773	11,585	NA	2,530	8,971	37,785	53,966
1990 Average	15,278	1,553	2,774	873	2,553	1,630	10,975	NA	1,820	7,355	37,297	60,492
1995 Average	17,208	1,805	2,990	920	2,618	2,766	—	5,995	2,489	6,560	36,329	62,333
1996 Average	17,367	1,837	3,131	922	2,855	3,091	—	5,850	2,568	6,465	37,236	63,698
1997 Average	18,095	1,922	3,200	856	3,023	3,142	—	5,920	2,518	6,452	37,979	65,689
1998 Average	19,337	1,981	3,198	834	3,070	3,011	—	5,854	2,616	6,252	38,141	66,916
1999 Average	18,667	1,907	3,195	852	2,906	3,019	—	6,079	2,684	5,881	38,270	65,848
2000 Average	19,892	1,977	3,249	748	3,012	3,222	—	6,479	2,275	5,822	39,102	68,369
2001 Average	19,098	2,029	3,300	698	3,127	3,226	—	6,917	2,282	5,801	39,639	67,984
2002 Average	17,794	2,171	3,390	631	3,177	3,131	—	7,408	2,292	5,746	40,615	66,967
2003 Average	19,063	2,306	3,409	618	3,371	3,042	—	8,132	2,093	5,681	41,412	69,235
2004												
January	20,241	2,414	3,440	610	3,417	3,121	—	8,457	2,021	5,570	42,267	71,564
February	20,171	2,470	3,474	607	3,360	3,158	—	8,503	1,897	5,556	42,301	71,527
March	20,086	2,440	3,393	590	3,368	3,066	—	8,562	2,026	5,607	42,370	71,502
April	20,041	2,363	3,435	580	3,439	3,044	—	8,639	1,966	5,527	42,359	71,445
May	19,861	2,384	3,420	591	3,394	3,009	—	8,708	1,800	5,548	42,235	71,136
June	20,939	2,430	3,460	585	3,436	3,048	—	8,883	1,926	5,398	42,642	72,733
July	21,279	2,410	3,486	595	3,363	3,059	—	8,924	1,876	5,458	42,573	73,084
August	21,169	2,370	3,500	596	3,354	2,616	—	9,013	1,648	5,333	41,840	72,159
September	21,669	2,407	3,574	605	3,431	2,720	—	9,042	1,578	5,062	41,958	72,777
October	21,576	2,369	3,544	604	3,451	2,963	—	9,006	1,701	5,156	42,448	73,274
November	21,091	2,435	3,533	599	3,364	2,941	—	8,995	1,825	5,396	42,613	72,924
December	21,301	2,295	3,566	571	3,222	2,720	—	8,916	1,880	5,413	42,007	72,550
Average	20,787	2,398	3,485	594	3,383	2,954	—	8,805	1,845	5,419	42,300	72,224
2005												
January	21,285	2,330	3,561	658	3,351	2,720	—	8,870	1,775	5,441	42,284	73,047
February	21,355	2,298	3,570	658	3,349	2,809	—	8,920	1,771	5,494	42,441	73,319
March	21,405	2,172	3,594	662	3,252	2,867	—	8,925	1,802	5,601	42,585	73,646
April	21,565	2,300	3,584	659	3,409	2,864	—	8,888	1,771	5,556	42,810	73,980
May	21,375	2,360	3,611	656	3,441	2,795	—	8,900	1,743	5,581	43,104	74,151
June	21,485	2,330	3,646	656	3,425	2,398	—	9,026	1,643	5,460	42,565	73,754
July	21,695	2,339	3,654	658	3,082	2,715	—	8,990	1,625	5,240	42,220	73,623
August	21,655	2,372	3,668	655	3,414	2,643	—	9,140	1,342	5,218	42,401	73,694
September	21,915	2,262	3,623	660	3,367	2,663	—	9,170	1,518	4,204	41,722	73,308
October	21,525	2,462	3,649	664	3,221	2,577	—	9,230	1,612	4,534	42,097	73,349
November	21,425	2,548	3,621	667	3,311	2,645	—	9,210	1,543	4,837	42,674	73,829
December	21,325	2,645	3,520	647	3,388	2,683	—	9,240	1,645	4,984	43,060	74,115
Average	21,501	2,369	3,609	658	3,334	2,698	—	9,043	1,649	5,178	42,498	73,653
2006												
January	21,175	2,595	3,670	654	3,372	2,657	—	9,030	1,707	E 5,047	R 42,833	R 73,593
February	21,375	2,504	3,662	657	3,311	2,620	—	9,040	1,639	E 5,048	R 42,681	R 73,496
March	21,250	2,411	3,710	651	3,350	2,610	—	9,150	1,597	E 5,016	R 42,612	R 73,285
April	21,250	2,531	3,680	663	3,370	2,407	—	9,170	1,590	E 5,067	R 42,658	R 73,333
May	21,050	2,341	3,712	655	3,329	2,535	—	9,190	1,500	E 5,100	R 42,665	R 73,113
June	21,305	2,336	3,700	607	3,287	2,365	—	9,260	1,392	E 5,219	R 42,255	R 73,052
July	21,680	2,512	3,716	620	3,232	2,571	—	9,240	1,453	E 5,171	R 42,953	R 73,943
August	21,710	2,543	3,670	630	3,252	2,430	—	9,330	1,198	E 5,155	R 42,616	R 73,731
September	21,360	2,601	3,659	640	3,258	2,338	—	9,350	1,350	E 5,188	R 42,870	R 73,655
October	21,135	2,602	3,658	660	3,173	2,380	—	9,450	1,455	E 5,195	R 42,982	R 73,622
November	20,805	2,658	3,682	615	3,163	2,466	—	9,320	1,511	E 5,149	R 43,121	R 73,301
December	20,695	2,660	3,710	619	2,978	2,508	—	9,400	1,486	E 5,275	43,227	73,297
Average	21,232	2,525	3,686	639	3,256	2,491	—	9,246	1,489	E 5,136	42,791	73,453

^a Organization of the Petroleum Exporting Countries.

^b The Persian Gulf Nations are Bahrain, Iran, Iraq, Kuwait, Qatar, Saudi Arabia, and the United Arab Emirates. Production from the Neutral Zone between Kuwait and Saudi Arabia is included in "Persian Gulf Nations."

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

Notes: • Crude oil includes lease condensate but excludes natural gas plant liquids. • Monthly data are often preliminary figures and may not

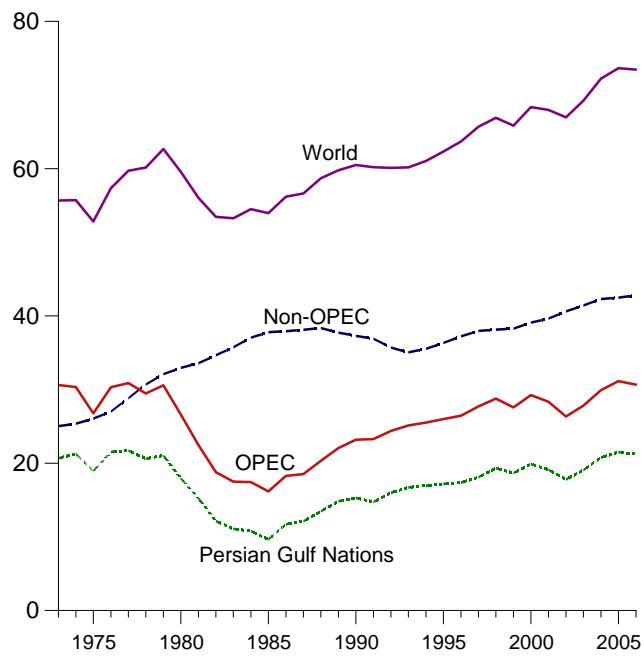
average to the annual totals because of rounding or because updates to the preliminary monthly data are not available. • Data for countries may not sum to World totals due to independent rounding. • U.S. geographic coverage is the 50 States and the District of Columbia.

Web Page: For annual data not displayed between 1973 and 1995, see <http://www.eia.doe.gov/emeu/mer/inter.html>.

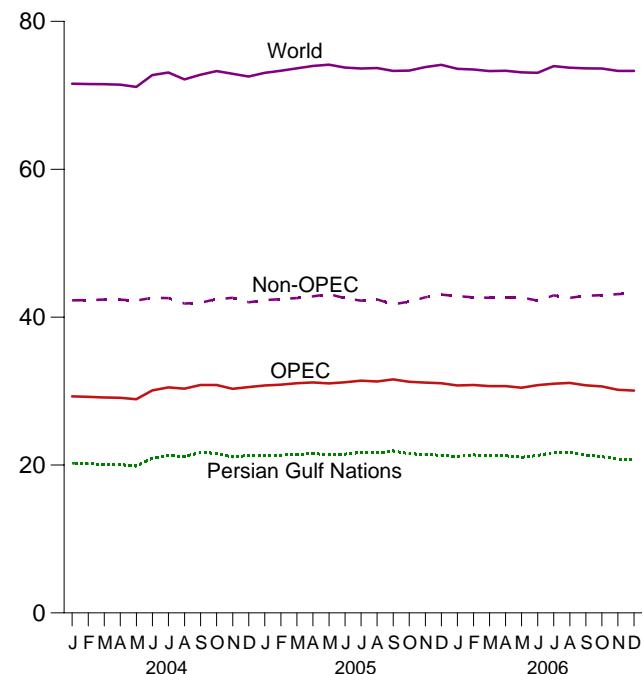
Sources: See end of section.

Figure 11.1a Crude Oil Production Overview
(Million Barrels per Day)

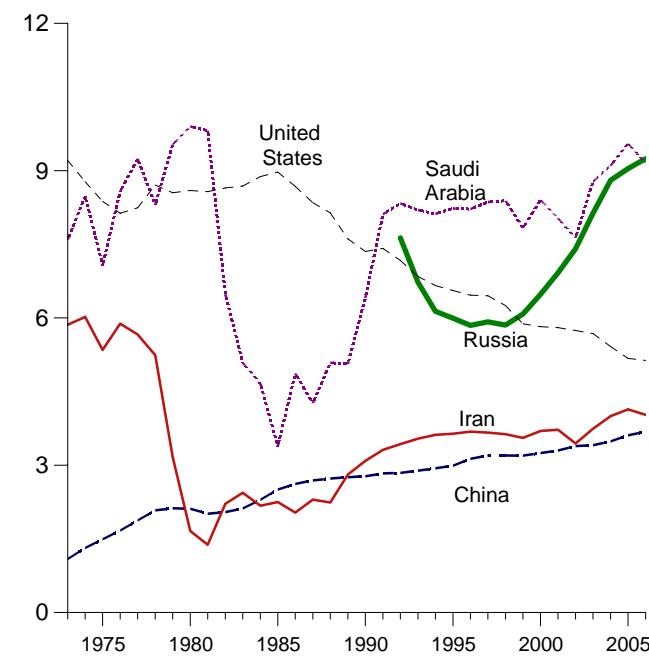
World Production, 1973-2006



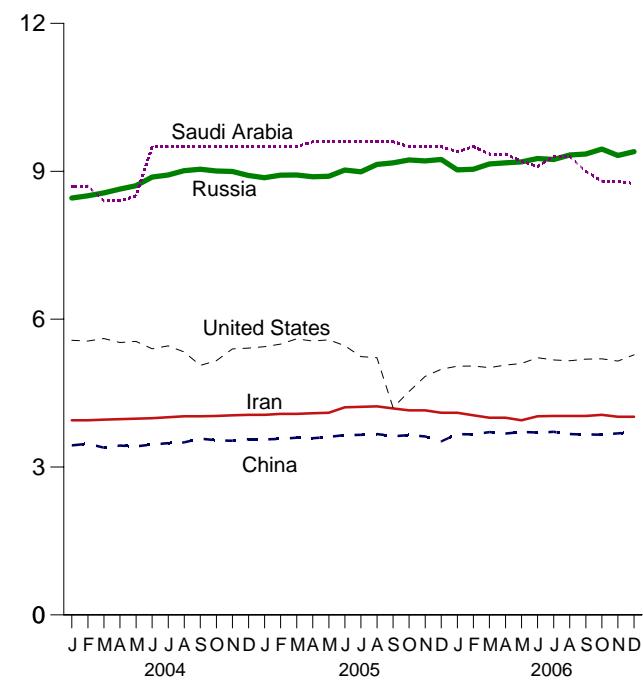
World Production, Monthly



Selected Producers, 1973-2006



Selected Producers, Monthly

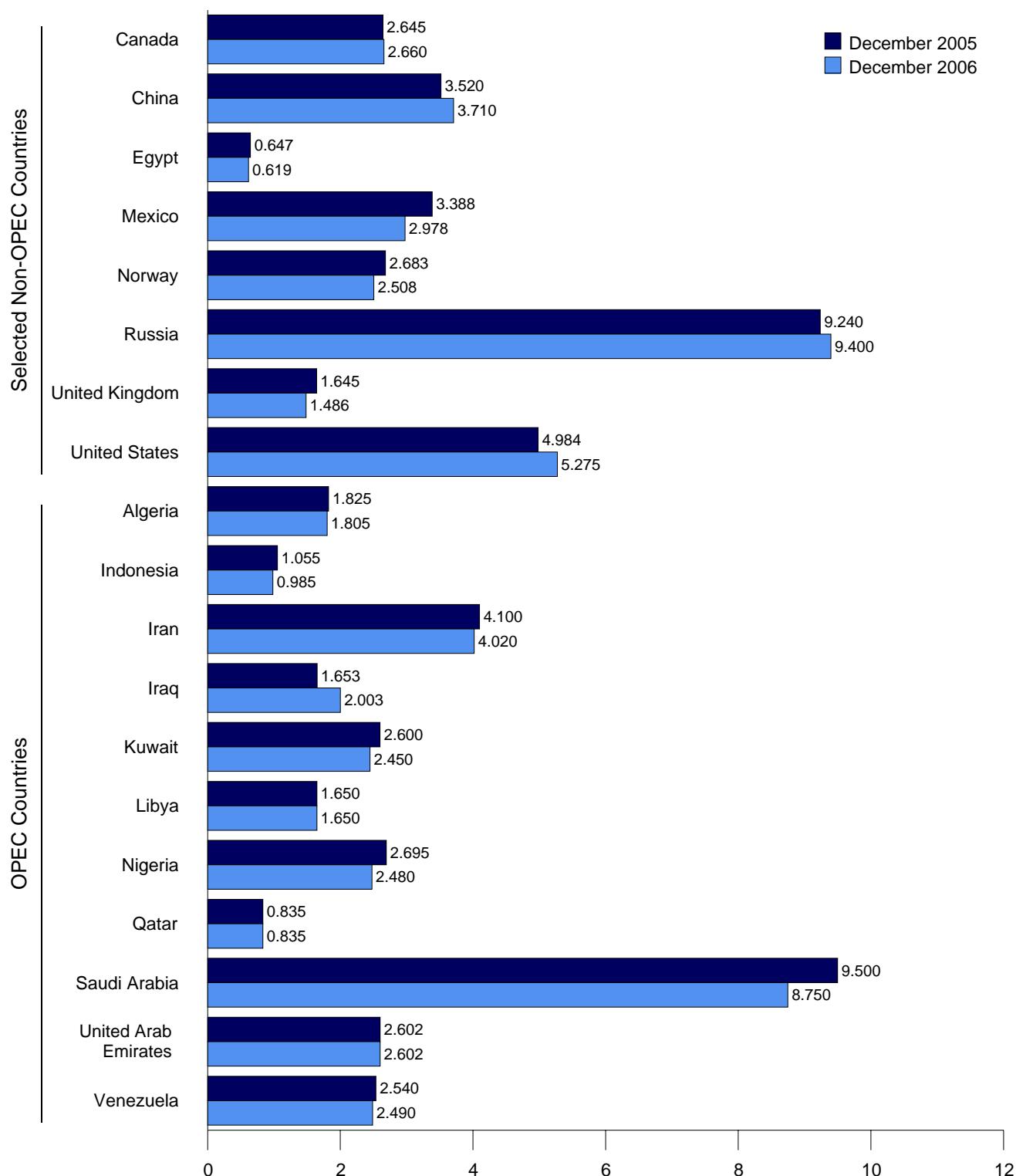


Notes:

- OPEC is the Organization of the Petroleum Exporting Countries.
- The Persian Gulf Nations are Bahrain, Iran, Iraq, Kuwait, Qatar, Saudi Arabia, and the United Arab Emirates. Production from the Neutral Zone between Kuwait and Saudi Arabia is included in "Persian Gulf Nations."

- Because vertical scales differ, graphs should not be compared.
- Web Page: <http://www.eia.doe.gov/emeu/mer/inter.html>.
- Sources: Tables 11.1a and 11.b.

Figure 11.1b Crude Oil Production by Selected Country
 (Million Barrels per Day)



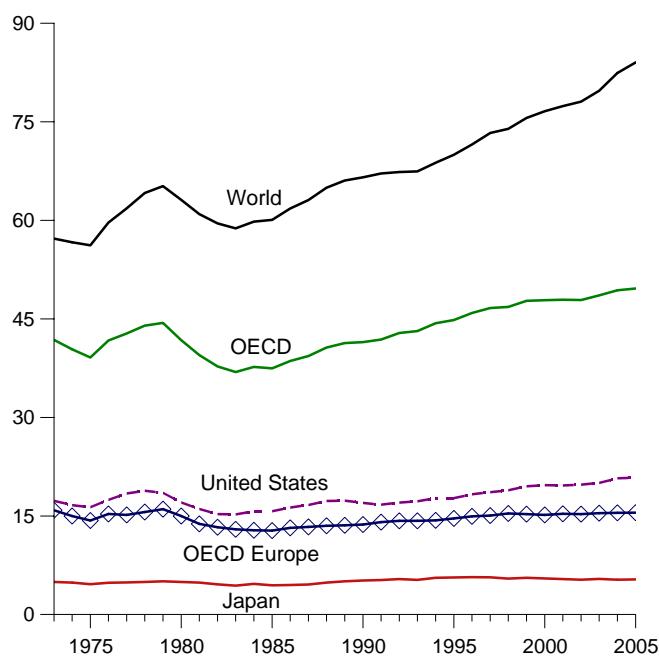
Note: OPEC is the Organization of the Petroleum Exporting Countries.

Web Page: <http://www.eia.doe.gov/emeu/mer/inter.html>.

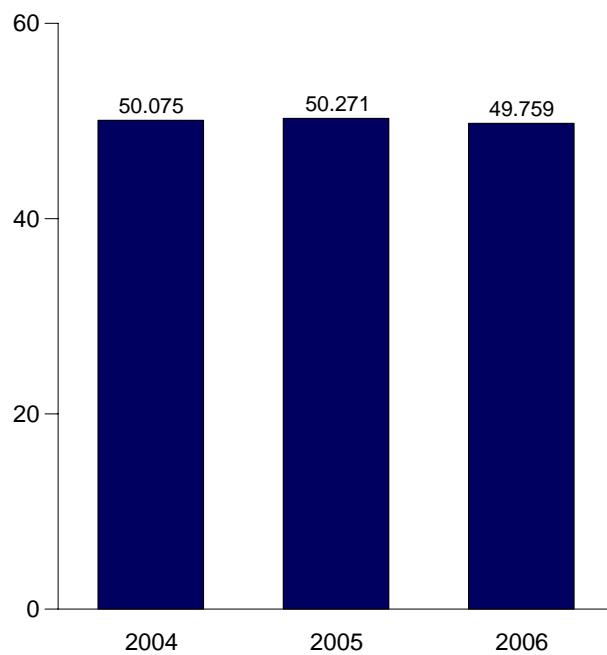
Sources: Tables 11.1a and 11.1b.

Figure 11.2 Petroleum Consumption in OECD Countries
(Million Barrels per Day)

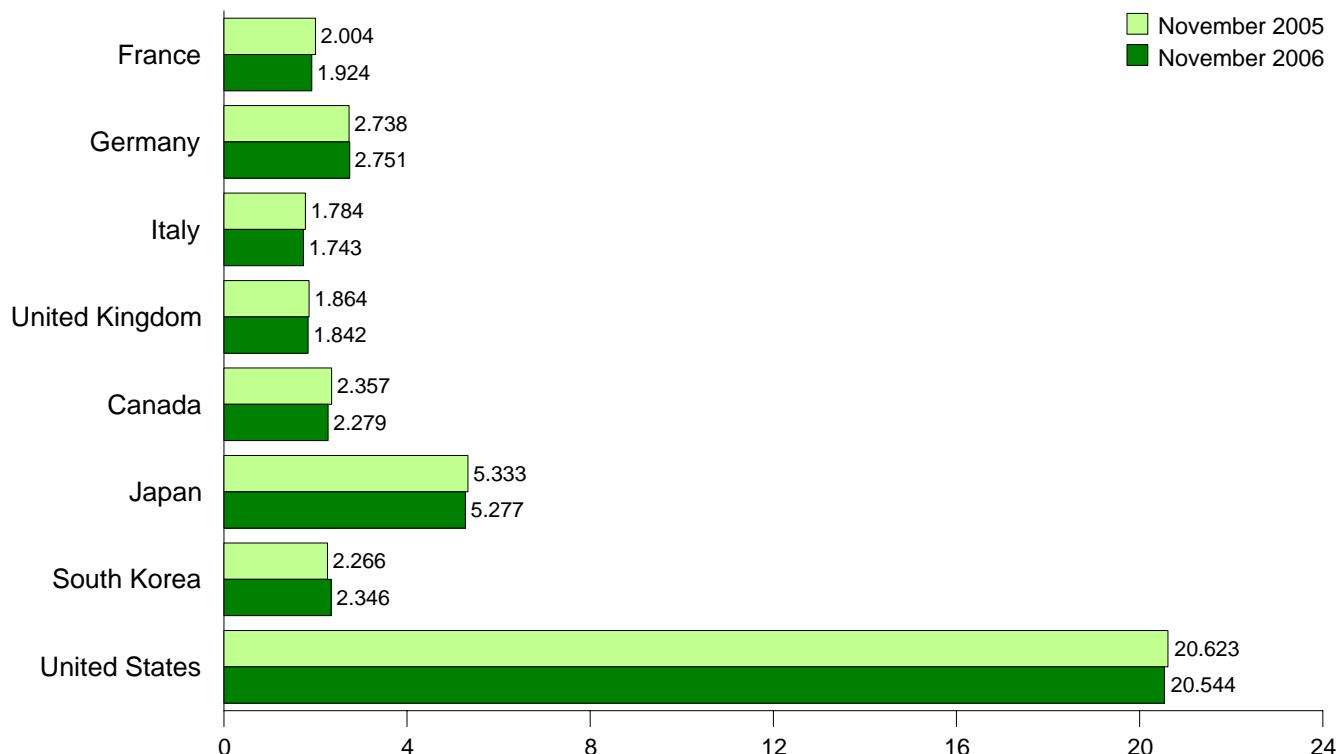
Overview, 1973-2005



OECD Total, November



By Selected OECD Country



Notes: • OECD is the Organization for Economic Cooperation and Development.
• Because vertical scales differ, graphs should not be compared.

Web Page: <http://www.eia.doe.gov/emeu/mer/inter.html>.
Source: Table 11.2.

Table 11.2 Petroleum Consumption in OECD Countries
(Thousand Barrels per Day)

	France	Germany ^a	Italy	United Kingdom	OECD Europe ^b	Canada	Japan	South Korea	United States	Other OECD ^c	OECD ^d	World
1973 Average	2,601	3,324	2,068	2,341	15,879	1,729	4,949	281	17,308	1,658	41,804	57,237
1975 Average	2,252	2,957	1,855	1,911	14,314	1,779	4,621	311	16,322	1,794	39,141	56,198
1980 Average	2,256	3,082	1,934	1,725	14,995	1,873	4,960	537	17,056	2,342	41,763	63,114
1985 Average	1,753	2,651	1,705	1,617	12,772	1,526	4,436	552	15,726	2,469	37,481	60,085
1990 Average	1,826	2,682	1,874	1,776	13,710	1,746	5,184	1,048	16,988	2,804	41,480	66,546
1995 Average	1,919	2,882	1,942	1,816	14,632	1,811	5,647	2,008	17,725	3,001	44,823	69,984
1996 Average	1,949	2,922	1,920	1,852	14,935	1,864	5,690	2,101	18,309	2,996	45,895	71,539
1997 Average	1,969	2,917	1,934	1,804	15,072	1,952	5,654	2,255	18,620	3,091	46,645	73,293
1998 Average	2,040	2,923	1,941	1,792	15,382	1,943	5,470	1,917	18,917	3,192	46,820	73,945
1999 Average	2,029	2,838	1,891	1,795	15,283	2,027	5,593	2,084	19,519	3,236	47,742	75,596
2000 Average	2,001	2,772	1,854	1,757	15,159	2,027	5,492	2,135	19,701	3,326	47,840	76,619
2001 Average	2,052	2,815	1,837	1,730	15,341	2,057	5,396	2,132	19,649	3,341	47,916	77,406
2002 Average	1,983	2,722	1,870	R 1,724	R 15,284	2,078	5,304	2,149	19,761	3,294	R 47,870	R 78,075
2003 Average	1,999	2,679	1,873	R 1,743	R 15,424	2,207	5,416	2,175	20,034	3,330	R 48,586	R 79,728
 2004 January	2,091	2,458	1,709	R 1,744	R 14,937	2,287	5,844	2,389	20,479	3,349	R 49,285	NA
February	2,126	2,675	1,810	R 1,732	R 15,615	2,340	6,035	2,261	20,872	3,455	R 50,578	NA
March	2,086	2,801	1,862	R 1,826	R 15,938	2,319	5,822	2,261	20,453	3,449	R 50,242	NA
April	2,063	2,662	1,741	R 1,837	R 15,506	2,197	5,046	2,055	20,545	3,324	R 48,673	NA
May	1,747	2,327	1,700	R 1,735	R 14,288	2,155	4,670	1,985	20,313	3,373	R 46,785	NA
June	1,977	2,627	1,839	R 1,802	R 15,338	2,287	4,731	2,047	20,780	3,422	R 48,605	NA
July	1,989	2,687	1,878	R 1,807	R 15,508	2,291	5,069	1,910	20,880	3,418	R 49,076	NA
August	1,829	2,652	1,658	R 1,759	R 14,856	2,318	5,228	2,044	21,028	3,303	R 48,777	NA
September	2,104	2,828	1,858	R 1,794	R 16,008	2,347	4,908	2,073	20,529	3,372	R 49,237	NA
October	2,020	2,655	1,840	R 1,793	R 15,696	2,289	5,086	2,150	20,861	3,264	R 49,345	NA
November	1,992	2,821	1,773	R 1,824	R 15,951	2,381	5,173	2,245	20,805	3,520	R 50,075	NA
December	2,068	2,802	1,861	R 1,744	R 16,001	2,413	5,930	2,441	21,229	3,564	R 51,578	NA
Average	2,007	2,665	1,794	R 1,783	R 15,467	2,302	5,295	2,155	20,731	3,401	R 49,350	R 82,435
 2005 January	1,975	2,445	1,673	1,827	15,054	2,386	5,797	2,443	20,694	3,393	49,767	NA
February	2,221	2,672	1,836	1,837	16,098	2,396	6,217	2,326	20,830	3,447	51,316	NA
March	2,130	2,515	1,816	1,843	15,745	2,297	5,997	2,438	21,009	3,468	50,954	NA
April	1,918	2,549	1,730	1,760	15,228	2,137	5,179	2,167	20,137	3,623	48,469	NA
May	1,882	2,585	1,652	1,780	14,925	2,266	4,594	1,958	20,606	3,434	47,783	NA
June	1,980	2,516	1,689	1,817	15,362	2,310	5,052	2,076	21,198	3,543	49,541	NA
July	1,944	2,588	1,738	1,792	15,115	2,257	4,987	1,914	20,939	3,338	48,550	NA
August	2,004	2,851	1,582	1,808	15,665	2,365	5,013	2,042	21,666	3,482	50,233	NA
September	2,059	2,817	1,735	1,871	15,918	R 2,228	5,077	2,066	20,142	3,471	R 48,902	NA
October	1,870	2,661	1,711	1,771	15,308	R 2,256	4,742	1,938	20,253	3,337	R 47,834	NA
November	2,004	2,738	1,784	1,864	16,006	2,357	5,333	2,266	20,623	3,686	50,271	NA
December	2,022	2,490	1,848	1,871	15,780	R 2,162	6,307	2,484	21,495	3,676	51,905	NA
Average	1,999	2,618	1,732	1,820	R 15,511	R 2,284	5,353	2,176	20,802	3,491	R 49,617	R 84,035
 2006 January	2,077	2,470	1,727	1,816	15,243	2,081	6,014	2,380	20,110	3,476	49,304	NA
February	2,132	2,585	1,972	1,848	15,983	2,222	6,154	2,269	20,316	3,472	50,415	NA
March	2,095	2,619	1,905	2,020	16,102	2,228	5,723	2,184	20,695	3,615	50,547	NA
April	1,891	2,456	1,572	1,732	14,488	2,055	5,123	1,989	20,182	3,414	47,251	NA
May	1,819	2,625	1,646	1,843	15,063	2,131	4,455	2,033	20,463	3,402	47,547	NA
June	1,948	2,581	1,667	1,848	15,548	2,240	4,778	2,060	20,875	3,507	49,009	NA
July	1,958	2,560	1,689	1,743	15,236	R 2,247	5,002	1,891	20,582	3,367	48,324	NA
August	1,875	2,692	1,556	1,756	15,227	R 2,337	4,850	2,086	21,322	3,502	R 49,324	NA
September	2,005	2,881	1,727	1,790	15,852	R 2,216	4,562	2,093	20,472	3,359	R 48,553	NA
October	2,055	2,803	1,667	1,759	R 15,813	R 2,219	4,799	2,044	20,757	3,378	R 49,010	NA
November	1,924	2,751	1,743	1,842	15,799	2,279	5,277	2,346	20,544	3,514	49,759	NA
11-Mo. Avg.	1,979	2,639	1,714	1,818	15,483	2,205	5,152	2,124	20,577	3,455	48,996	NA
 2005 11-Mo. Avg.	1,997	2,630	1,721	1,815	15,486	2,295	5,265	2,147	20,738	3,474	49,405	NA
2004 11-Mo. Avg.	2,001	2,653	1,788	1,787	15,417	2,291	5,236	2,129	20,685	3,386	49,144	NA

^a Data are for unified Germany, i.e., the former East Germany and West Germany.

^b "OECD Europe" consists of Austria, Belgium, Czech Republic (beginning in 1984), Denmark, Finland, France, Germany, Greece, Hungary, Iceland, Ireland, Italy, Luxembourg, the Netherlands, Norway, Poland, Portugal, Slovakia, (beginning in 1984) Spain, Sweden, Switzerland, Turkey, and the United Kingdom.

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

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

R=Revised. NA=Not available.

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

Web Page: For annual data not displayed between 1973 and 1995, see <http://www.eia.doe.gov/emeu/mer/inter.html>.

Sources: • **United States:** Table 3.1b. • **U.S. Territories:**

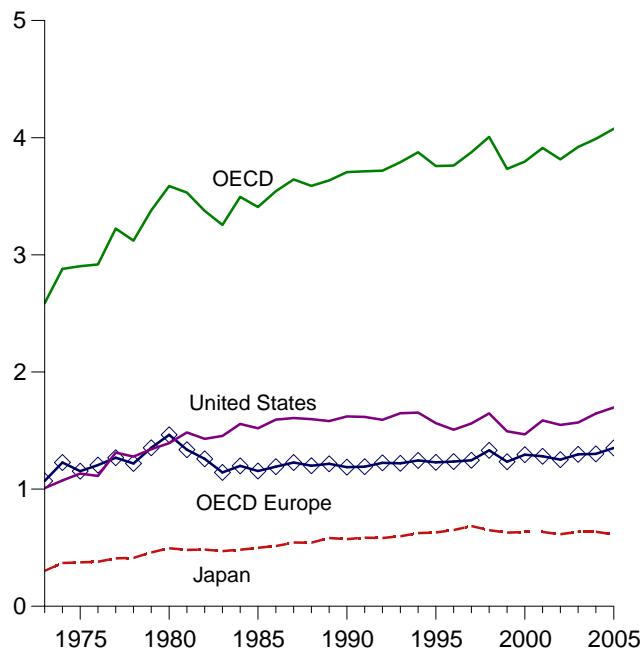
1983-2004—Energy Information Administration (EIA), International Energy Database.

• **East Germany, Former Czechoslovakia, Hungary, Mexico, Poland, South Korea, Non-OECD Countries, and World:** 1973-1979—EIA, International Energy Database. 1980-1983—EIA, International Energy Annual 2004, June 2006, Table 1.2. • **Non-OECD Countries:** 1984-2004—EIA, International Energy Annual 2004, June 2006, Table 1.2. **2005**—EIA, Short Term Energy Outlook, June 2006, Table 3 (adjusted to remove Slovakia).

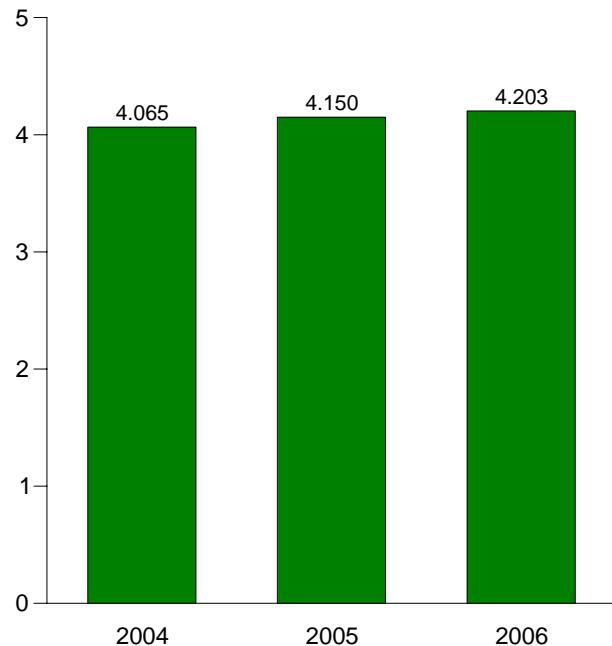
• **World: 1984-2004**—Sum of OECD and Non-OECD Countries. • **All Other Data: 1973-1981**—International Energy Agency (IEA), Quarterly Oil Statistics and Energy Balances in OECD Countries, various issues. **1982-1983**—IEA, Monthly Oil Data Service, February 13, 2007.

Figure 11.3 Petroleum Stocks in OECD Countries
(Billion Barrels)

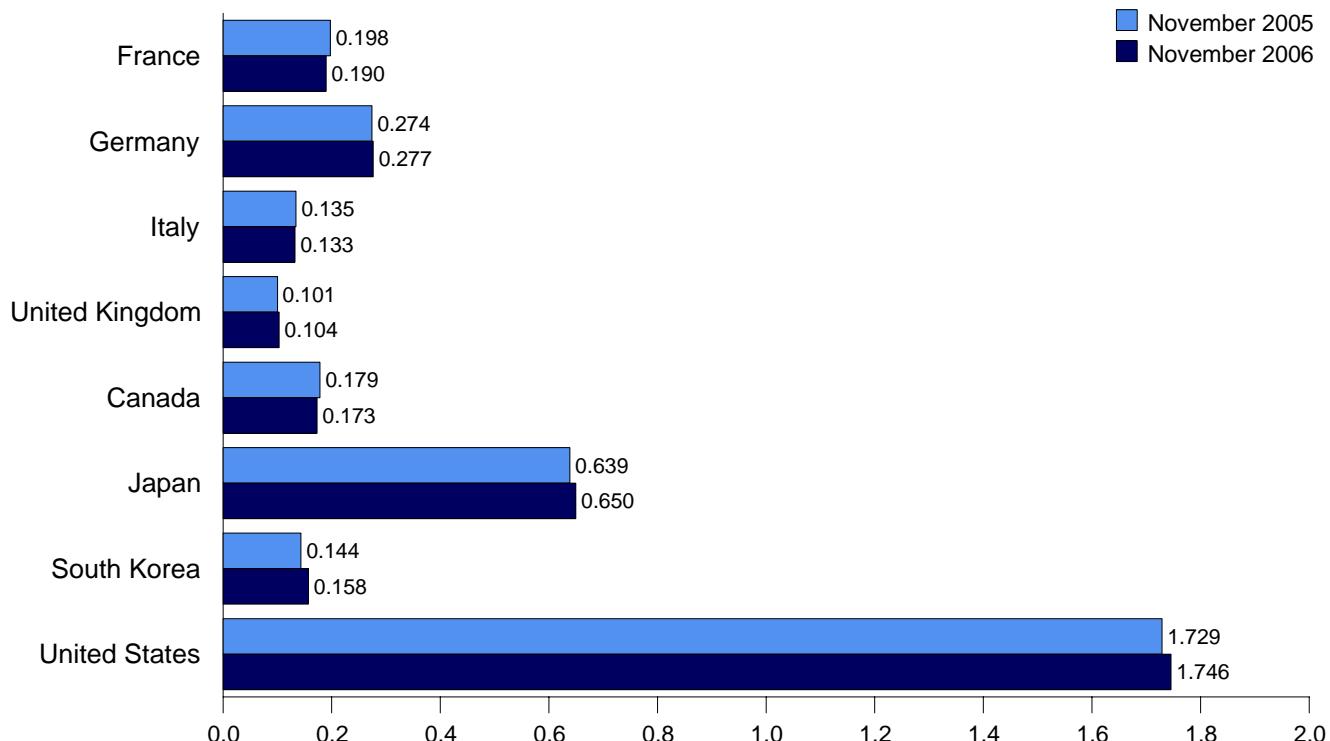
Overview, End of Year, 1973-2005



OECD Stocks, End of Month, November



By Selected OECD Country, End of Month



Note: OECD is the Organization for Economic Cooperation and Development.
Web Page: <http://www.eia.doe.gov/emeu/mer/inter.html>.
Source: Table 11.3.

Table 11.3 Petroleum Stocks in OECD Countries
(Million Barrels)

	France	Germany ^a	Italy	United Kingdom	OECD Europe ^b	Canada	Japan	South Korea	United States	Other OECD ^c	OECD ^d
1973 Year	201	181	152	156	1,070	140	303	NA	1,008	67	2,588
1975 Year	225	187	143	165	1,154	174	375	NA	1,133	67	2,903
1980 Year	243	319	170	168	1,464	164	495	NA	1,392	72	3,587
1985 Year	139	277	156	131	1,154	112	500	13	1,519	110	3,408
1990 Year	143	280	143	103	1,188	143	572	64	1,621	117	3,706
1995 Year	155	302	141	101	1,228	132	631	92	1,563	113	3,758
1996 Year	154	303	135	103	1,235	127	651	123	1,507	118	3,762
1997 Year	161	299	129	100	1,246	144	685	124	1,560	115	3,875
1998 Year	169	323	135	104	1,331	139	649	129	1,647	111	4,006
1999 Year	160	290	130	101	1,233	142	629	132	1,493	105	3,733
2000 Year	170	272	140	100	1,294	144	634	140	1,468	117	3,796
2001 Year	165	273	134	113	1,281	156	634	143	1,586	112	3,912
2002 Year	175	253	138	104	1,252	157	615	140	1,548	103	3,815
2003 Year	185	273	135	100	1,296	170	636	155	1,568	96	3,921
2004 January	183	277	132	103	1,314	168	631	143	1,556	98	3,910
February	178	275	132	102	1,291	169	625	151	1,557	100	3,892
March	176	270	136	99	1,291	165	614	143	1,571	97	3,881
April	181	268	134	102	1,284	167	612	148	1,580	107	3,898
May	186	272	131	100	1,296	165	625	146	1,610	102	3,945
June	184	267	135	102	1,299	163	622	153	1,631	99	3,967
July	184	269	133	107	1,302	166	630	154	1,646	99	3,998
August	185	271	137	95	1,319	165	627	150	1,654	99	4,015
September	189	264	139	101	1,312	171	632	152	1,642	99	4,007
October	188	270	131	100	1,314	167	642	148	1,637	105	4,013
November	192	267	137	104	1,318	165	656	163	1,656	106	4,065
December	186	267	136	101	1,302	160	635	149	1,645	99	3,990
2005 January	187	276	139	100	1,321	160	642	147	1,647	107	4,023
February	188	273	136	102	1,314	166	617	143	1,663	106	4,009
March	187	280	134	98	1,328	163	605	137	1,661	104	3,997
April	189	280	131	102	1,329	164	606	139	1,702	101	4,042
May	197	280	132	104	1,355	165	624	151	1,730	104	4,128
June	186	279	132	99	1,326	164	629	142	1,740	108	4,110
July	191	278	131	99	1,347	168	640	151	1,743	106	4,156
August	193	276	136	103	1,351	168	645	151	1,716	94	4,125
September	191	276	137	105	1,357	168	638	145	1,704	112	4,125
October	202	279	139	106	1,364	173	649	151	1,716	111	4,165
November	198	274	135	101	1,352	179	639	144	1,729	108	4,150
December	196	283	132	95	1,351	178	612	135	1,698	103	4,077
2006 January	197	287	128	102	1,378	179	604	138	1,717	103	4,119
February	192	283	135	104	1,378	178	600	142	1,724	103	4,126
March	196	280	132	97	1,356	170	620	137	1,692	102	4,077
April	196	282	132	102	1,360	169	618	144	1,701	107	4,100
May	194	280	130	105	1,367	169	634	152	1,724	106	4,153
June	189	281	126	99	1,354	170	627	155	1,730	108	4,143
July	192	281	131	99	1,375	173	631	158	1,745	112	4,194
August	198	279	133	98	1,377	R 179	641	159	1,764	106	R 4,226
September	188	279	134	97	1,373	R 179	649	160	1,786	109	R 4,257
October	188	278	130	103	1,368	R 178	654	156	1,767	110	R 4,233
November	190	277	133	104	1,367	173	650	158	1,746	109	4,203

^a Through December 1983, the data for Germany are for the former West Germany only. Beginning with January 1984, 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, and, for 1984 forward, Czech Republic, Hungary, Poland, and Slovakia.

^c "Other OECD" consists of Australia, New Zealand, and the U.S. Territories, and, for 1984 forward, Mexico.

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

R=Revised. NA=Not available.

Notes: • Stocks are at end of period. • Petroleum stocks include crude oil (including strategic reserves), unfinished oils, natural gas plant liquids, and refined

products. • In the United States in January 1975, 1981, and 1983, numerous respondents were added to bulk terminal and pipeline surveys, thereby affecting subsequent stocks reported. New-basis end-of-year U.S. stocks, in million barrels, would have been 1,121 in 1974, 1,425 in 1980, and 1,461 in 1982.

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

Web Page: For annual data not displayed between 1973 and 1995, see <http://www.eia.doe.gov/emeu/mer/inter.html>.

Sources: • **United States:** Table 3.1b. • **U.S. Territories:**

1983-2004—Energy Information Administration, International Energy Database.

• **All Other Data: 1973-1982**—International Energy Agency (IEA), *Quarterly Oil Statistics and Energy Balances*, various issues. **1983**—IEA, Monthly Oil and Gas Statistics Database. **1984 forward**—IEA, Monthly Oil Data Service, February 13, 2007.

International Petroleum

Tables 11.1a and 11.1b Sources

United States: See Table 3.1a.

All Other Countries: Annual Data

1973–1979: EIA, *International Energy Annual 1981*, Table 8.
1980–2004: EIA, EMEU, International Energy Database, February 2007.
2005 and 2006: Average of monthly data.

All Other Countries: Monthly Data

2004 forward: Energy Information Administration (EIA), *International Petroleum Monthly*, and Office of Energy Markets and End Use (EMEU), International Energy Database, February 2007.

World: Annual Data

1973–1979: EIA, *International Energy Annual 1981*, Table 8.
1980–2004: EIA, EMEU, International Energy Database, February 2007.
2005 and 2006: Average of monthly data.

World: Monthly Data

2004 forward: EIA, *International Petroleum Monthly*, sum of all countries' monthly data.

Appendix

Thermal Conversion Factors

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

The heat content rates (i.e., thermal conversion factors) provided in this section represent the gross (or higher or upper) energy content of the fuels. Gross heat content rates are applied in all Btu calculations for the *Monthly Energy Review* and are commonly used in energy calculations in the United States; net (or lower) heat content rates are typically used in European energy calculations. The difference between the two rates is the amount of energy that is consumed to vaporize water that is created during the combustion process. Generally, the difference ranges from 2 percent to 10 percent, depending on the specific fuel and its hydrogen content. Some fuels, such as unseasoned wood, can be more than 40 percent different in their gross

and net heat content rates. See "Heat Content" and "British Thermal Unit (Btu)" in the Glossary for more information.

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

In general, the annual thermal conversion factors presented in Tables A2 through A6 are computed from final annual data or from the best available data and labeled "preliminary." Often, the previous year's factor is used as a preliminary value until data become available to calculate the factor appropriate to the year. The source of each factor is described in the section entitled "Thermal Conversion Factor Source Documentation," which follows Table A6 in this appendix.

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

Petroleum Product	Heat Content	Petroleum Product	Heat Content
Asphalt	6.636	Natural Gasoline and Isopentane	4.620
Aviation Gasoline	5.048	Pentanes Plus	4.620
Butane	4.326	Petrochemical Feedstocks	
Butane-Propane Mixture ^a	4.130	Naphtha Less Than 401°F	5.248
Distillate Fuel Oil	5.825	Other Oils Equal to or Greater Than 401°F	5.825
Ethane	3.082	Still Gas	6.000
Ethane-Propane Mixture ^b	3.308	Petroleum Coke	6.024
Isobutane	3.974	Plant Condensate	5.418
Jet Fuel, Kerosene Type	5.670	Propane	3.836
Jet Fuel, Naphtha Type	5.355	Residual Fuel Oil	6.287
Kerosene	5.670	Road Oil	6.636
Lubricants	6.065	Special Naphthas	5.248
Motor Gasoline		Still Gas	6.000
Conventional ^c	5.253	Unfinished Oils	5.825
Reformulated ^c	5.150	Unfractionated Stream	5.418
Oxygenated ^c	5.150	Waxes	5.537
Fuel Ethanol ^d	3.539	Miscellaneous	5.796

^a 60 percent butane and 40 percent propane.

^b 70 percent ethane and 30 percent propane.

^c See Table A3 for motor gasoline annual weighted averages beginning in 1994.

^d Fuel ethanol, which is derived from agricultural feedstocks (primarily corn), is not a petroleum product but is blended into motor gasoline.

Web Page: http://www.eia.doe.gov/emeu/mer/append_a.html.

Sources: See "Thermal Conversion Factor Source Documentation," which follows Table A6.

Table A2. Approximate Heat Content of Petroleum Production, Imports, and Exports
 (Million Btu per Barrel)

	Production		Imports			Exports		
	Crude Oil	Natural Gas Plant Liquids	Crude Oil	Petroleum Products	Total	Crude Oil	Petroleum Products	Total
1973	5.800	4.049	5.817	5.983	5.897	5.800	5.752	5.752
1974	5.800	4.011	5.827	5.959	5.884	5.800	5.773	5.774
1975	5.800	3.984	5.821	5.935	5.858	5.800	5.747	5.748
1976	5.800	3.964	5.808	5.980	5.856	5.800	5.743	5.745
1977	5.800	3.941	5.810	5.908	5.834	5.800	5.796	5.797
1978	5.800	3.925	5.802	5.955	5.839	5.800	5.814	5.808
1979	5.800	3.955	5.810	5.811	5.810	5.800	5.864	5.832
1980	5.800	3.914	5.812	5.748	5.796	5.800	5.841	5.820
1981	5.800	3.930	5.818	5.659	5.775	5.800	5.837	5.821
1982	5.800	3.872	5.826	5.664	5.775	5.800	5.829	5.820
1983	5.800	3.839	5.825	5.677	5.774	5.800	5.800	5.800
1984	5.800	3.812	5.823	5.613	5.745	5.800	5.867	5.850
1985	5.800	3.815	5.832	5.572	5.736	5.800	5.819	5.814
1986	5.800	3.797	5.903	5.624	5.808	5.800	5.839	5.832
1987	5.800	3.804	5.901	5.599	5.820	5.800	5.860	5.858
1988	5.800	3.800	5.900	5.618	5.820	5.800	5.842	5.840
1989	5.800	3.826	5.906	5.641	5.833	5.800	5.869	5.857
1990	5.800	3.822	5.934	5.614	5.849	5.800	5.838	5.833
1991	5.800	3.807	5.948	5.636	5.873	5.800	5.827	5.823
1992	5.800	3.804	5.953	5.623	5.877	5.800	5.774	5.777
1993	5.800	3.801	5.954	5.620	5.883	5.800	5.777	5.779
1994	5.800	3.794	5.950	5.534	5.861	5.800	5.777	5.779
1995	5.800	3.796	5.938	5.483	5.855	5.800	5.740	5.746
1996	5.800	3.777	5.947	5.468	5.847	5.800	5.728	5.736
1997	5.800	3.762	5.954	5.469	5.862	5.800	5.726	5.734
1998	5.800	3.769	5.953	5.462	5.861	5.800	5.710	5.720
1999	5.800	3.744	5.942	5.421	5.840	5.800	5.684	5.699
2000	5.800	3.733	5.959	5.432	5.849	5.800	5.651	5.658
2001	5.800	3.735	5.976	5.443	5.862	5.800	5.751	5.752
2002	5.800	3.729	5.971	5.451	5.863	5.800	5.687	5.688
2003	5.800	3.739	5.970	5.438	5.857	5.800	5.739	5.740
2004	5.800	3.724	5.981	5.475	5.863	5.800	5.753	5.754
2005	5.800	3.724	5.977	5.474	5.845	5.800	5.741	5.743
2006 ^P	5.800	R 3.712	R 5.980	R 5.450	R 5.843	5.800	R 5.727	R 5.729

P=Preliminary. R=Revised.

Note: Crude oil includes lease condensate.

Web Page: http://www.eia.doe.gov/emeu/mer/append_a.html.

Sources: See "Thermal Conversion Factor Source Documentation," which follows Table A6.

Table A3. Approximate Heat Content of Petroleum Consumption
 (Million Btu per Barrel)

	Total Petroleum ^a						Liquefied Petroleum Gases	Motor Gasoline		
	End-Use Sectors				Electric Power Sector ^b	Total				
	Residential	Commercial	Industrial	Transportation						
1973	5.205	5.749	5.569	5.395	6.245	5.515	3.746	5.253		
1974	5.196	5.740	5.538	5.394	6.238	5.504	3.730	5.253		
1975	5.192	5.704	5.527	5.392	6.250	5.494	3.715	5.253		
1976	5.215	5.726	5.536	5.395	6.251	5.504	3.711	5.253		
1977	5.213	5.733	5.554	5.400	6.249	5.518	3.677	5.253		
1978	5.213	5.716	5.554	5.404	6.251	5.519	3.669	5.253		
1979	5.298	5.769	5.419	5.428	6.258	5.494	3.680	5.253		
1980	5.245	5.803	5.374	5.440	6.254	5.479	3.674	5.253		
1981	5.191	5.751	5.312	5.432	6.258	5.448	3.643	5.253		
1982	5.167	5.751	5.263	5.422	6.258	5.415	3.615	5.253		
1983	5.022	5.642	5.275	5.415	6.255	5.406	3.614	5.253		
1984	5.184	5.705	5.223	5.418	6.251	5.395	3.599	5.253		
1985	5.153	5.661	5.215	5.422	6.247	5.387	3.603	5.253		
1986	5.169	5.694	5.283	5.425	6.257	5.418	3.640	5.253		
1987	5.144	5.661	5.248	5.429	6.249	5.403	3.659	5.253		
1988	5.165	5.661	5.241	5.433	6.250	5.410	3.652	5.253		
1989	5.105	5.621	5.234	5.438	^b 6.240	5.410	3.683	5.253		
1990	5.027	5.621	5.270	5.442	6.244	5.411	3.625	5.253		
1991	4.968	5.599	5.186	5.440	6.246	5.384	3.614	5.253		
1992	5.004	5.589	5.185	5.442	6.238	5.378	3.624	5.253		
1993	4.975	5.580	5.196	5.436	6.230	5.379	3.606	5.253		
1994	4.983	5.592	5.166	5.424	6.213	5.361	3.635	^c 5.230		
1995	4.940	5.554	5.137	5.417	6.188	5.341	3.623	5.215		
1996	4.869	5.498	5.133	5.420	6.195	5.336	3.613	5.216		
1997	4.859	5.459	5.138	5.416	6.199	5.336	3.616	5.213		
1998	4.837	5.446	5.155	5.413	6.210	5.349	3.614	5.212		
1999	4.761	5.369	5.113	5.413	6.205	5.328	3.616	5.211		
2000	4.761	5.394	5.082	5.421	6.189	5.326	3.607	5.210		
2001	4.796	5.403	5.164	5.412	6.199	5.345	3.614	5.210		
2002	4.742	5.364	5.116	5.410	6.173	5.324	3.613	5.208		
2003	4.763	5.407	5.161	5.408	6.182	5.340	3.629	5.207		
2004	4.807	5.434	5.164	5.420	6.192	5.350	3.618	5.215		
2005	E4.844	E5.465	E5.193	E5.426	P6.189	5.365	3.620	5.218		
2006	E4.844	E5.465	E5.193	E5.426	E6.189	R P 5.352	R P 3.604	P5.218		

^a Petroleum products supplied, including natural gas plant liquids and crude oil burned directly as fuel.

^b Electricity-only and combined-heat-and-power (CHP) plants within the NAICS (North American Industry Classification System) 22 category whose primary business is to sell electricity, or electricity and heat, to the public. Through 1988, data are for electric utilities only; beginning in 1989, data are for electric utilities and independent power producers.

^c There is a discontinuity in this time series between 1993 and 1994; beginning in 1994, the single constant factor is replaced by a factor that is a quantity-weighted average of motor gasoline's major components. See Table A1.

R=Revised. P=Preliminary. E=Estimate.

Note: Weighted averages of the products included in each category are calculated by using heat content values shown in Table A1.

Web Page: http://www.eia.doe.gov/emeu/mer/append_a.html.

Sources: See "Thermal Conversion Factor Source Documentation," which follows Table A6.

Table A4. Approximate Heat Content of Natural Gas
(Btu per Cubic Foot)

	Production		Consumption ^a			Imports	Exports
	Marketed	Dry	End-Use Sectors	Electric Power Sector ^b	Total		
1973	1,093	1,021	1,020	1,024	1,021	1,026	1,023
1974	1,097	1,024	1,024	1,022	1,024	1,027	1,016
1975	1,095	1,021	1,020	1,026	1,021	1,026	1,014
1976	1,093	1,020	1,019	1,023	1,020	1,025	1,013
1977	1,093	1,021	1,019	1,029	1,021	1,026	1,013
1978	1,088	1,019	1,016	1,034	1,019	1,030	1,013
1979	1,092	1,021	1,018	1,035	1,021	1,037	1,013
1980	1,098	1,026	1,024	1,035	1,026	1,022	1,013
1981	1,103	1,027	1,025	1,035	1,027	1,014	1,011
1982	1,107	1,028	1,026	1,036	1,028	1,018	1,011
1983	1,115	1,031	1,031	1,030	1,031	1,024	1,010
1984	1,109	1,031	1,030	1,035	1,031	1,005	1,010
1985	1,112	1,032	1,031	1,038	1,032	1,002	1,011
1986	1,110	1,030	1,029	1,034	1,030	997	1,008
1987	1,112	1,031	1,031	1,032	1,031	999	1,011
1988	1,109	1,029	1,029	1,028	1,029	1,002	1,018
1989	1,107	1,031	1,031	1,028	1,031	1,004	1,019
1990	1,105	1,029	1,030	1,027	1,029	1,012	1,018
1991	1,108	1,030	1,031	1,025	1,030	1,014	1,022
1992	1,110	1,030	1,031	1,025	1,030	1,011	1,018
1993	1,106	1,027	1,028	1,025	1,027	1,020	1,016
1994	1,105	1,028	1,029	1,025	1,028	1,022	1,011
1995	1,106	1,026	1,027	1,021	1,026	1,021	1,011
1996	1,109	1,026	1,027	1,020	1,026	1,022	1,011
1997	1,107	1,026	1,027	1,020	1,026	1,023	1,011
1998	1,109	1,031	1,033	1,024	1,031	1,023	1,011
1999	1,107	1,027	1,028	1,022	1,027	1,022	1,006
2000	1,107	1,025	1,026	1,021	1,025	1,023	1,006
2001	1,105	1,028	1,029	1,026	1,028	1,023	1,010
2002	1,106	1,027	1,029	1,020	1,027	1,022	1,008
2003	1,106	1,031	1,033	1,025	1,031	1,025	1,009
2004	1,105	1,027	1,027	1,027	1,027	1,025	1,009
2005	1,104	1,029	1,029	1,028	1,029	1,025	1,009
2006 ^E	1,104	1,029	1,029	1,028	1,029	1,025	1,009

^a Consumption factors are for natural gas, plus a small amount of supplemental gaseous fuels that cannot be identified separately.

^b Electricity-only and combined-heat-and-power (CHP) plants within the NAICS (North American Industry Classification System) 22 category whose primary business is to sell electricity, or electricity and heat, to the public. Through 1988, data are for electric utilities only; beginning in 1989, data are for electric utilities and independent power producers.

E=Estimate.

Web Page: http://www.eia.doe.gov/emeu/mer/append_a.html.

Sources: See "Thermal Conversion Factor Source Documentation," which follows Table A6.

Table A5. Approximate Heat Content of Coal and Coal Coke
 (Million Btu per Short Ton)

	Coal								Coal Coke		
	Production ^a	Waste Coal Supplied ^b	Residential and Commercial Sectors	Consumption			Electric Power Sector ^{d,e}	Total	Imports	Exports	Imports and Exports
				Coke Plants	Other ^c	Industrial Sector					
1973	23.376	NA	22.831	26.780	22.586	22.246	23.057	25.000	26.596	24.800	
1974	23.072	NA	22.479	26.778	22.419	21.781	22.677	25.000	26.700	24.800	
1975	22.897	NA	22.261	26.782	22.436	21.642	22.506	25.000	26.562	24.800	
1976	22.855	NA	22.774	26.781	22.530	21.679	22.498	25.000	26.601	24.800	
1977	22.597	NA	22.919	26.787	22.322	21.508	22.265	25.000	26.548	24.800	
1978	22.248	NA	22.466	26.789	22.207	21.275	22.017	25.000	26.478	24.800	
1979	22.454	NA	22.242	26.788	22.452	21.364	22.100	25.000	26.548	24.800	
1980	22.415	NA	22.543	26.790	22.690	21.295	21.947	25.000	26.384	24.800	
1981	22.308	NA	22.474	26.794	22.585	21.085	21.713	25.000	26.160	24.800	
1982	22.239	NA	22.695	26.797	22.712	21.194	21.674	25.000	26.223	24.800	
1983	22.052	NA	22.775	26.798	22.691	21.133	21.576	25.000	26.291	24.800	
1984	22.010	NA	22.844	26.799	22.543	21.101	21.573	25.000	26.402	24.800	
1985	21.870	NA	22.646	26.798	22.020	20.959	21.366	25.000	26.307	24.800	
1986	21.913	NA	22.947	26.798	22.198	21.084	21.462	25.000	26.292	24.800	
1987	21.922	NA	23.404	26.799	22.381	21.136	21.517	25.000	26.291	24.800	
1988	21.823	NA	23.571	26.799	22.360	20.900	21.328	25.000	26.299	24.800	
1989	21.765	10.391	23.650	26.800	^b 22.347	20.898	21.307	25.000	26.160	24.800	
1990	21.822	9.303	23.137	26.799	22.457	20.779	21.197	25.000	26.202	24.800	
1991	21.681	10.758	23.114	26.799	22.460	20.730	21.120	25.000	26.188	24.800	
1992	21.682	10.396	23.105	26.799	22.250	20.709	21.068	25.000	26.161	24.800	
1993	21.418	10.638	22.994	26.800	22.123	20.677	21.010	25.000	26.335	24.800	
1994	21.394	11.097	23.112	26.800	22.068	20.589	20.929	25.000	26.329	24.800	
1995	21.326	11.722	23.118	26.800	21.950	20.543	20.880	25.000	26.180	24.800	
1996	21.322	12.147	23.011	26.800	22.105	20.547	20.870	25.000	26.174	24.800	
1997	21.296	12.158	22.494	26.800	22.172	20.518	20.830	25.000	26.251	24.800	
1998	21.418	12.639	21.620	27.426	23.164	20.516	20.881	25.000	26.800	24.800	
1999	21.070	12.552	23.880	27.426	22.489	20.490	20.818	25.000	26.081	24.800	
2000	21.072	12.360	25.020	27.426	22.433	20.511	20.828	25.000	26.117	24.800	
2001	20.772	12.169	24.909	27.426	22.622	20.337	20.671	25.000	25.998	24.800	
2002	20.673	12.165	22.962	27.426	22.562	20.238	20.541	25.000	26.062	24.800	
2003	20.499	12.929	22.242	27.425	22.468	20.082	20.387	25.000	25.972	24.800	
2004	20.424	13.148	22.324	27.426	22.473	19.980	20.290	25.000	26.108	24.800	
2005	20.347	12.898	22.342	26.279	22.178	19.988	20.245	25.000	25.494	24.800	
2006 ^E	20.347	12.898	22.342	26.279	22.178	19.988	20.245	25.000	25.494	24.800	

^a Beginning in 2001, includes a small amount of refuse recovery (coal recaptured from a refuse mine, and cleaned to reduce the concentration of noncombustible materials).

^b Waste coal (including fine coal, coal obtained from a refuse bank or slurry dam, anthracite culm, bituminous gob, and lignite waste) consumed by the electric power and industrial sectors. Beginning in 1989, waste coal supplied is counted as a supply-side item to balance the same amount of waste coal included in "Consumption."

^c Includes transportation. Excludes coal synfuel plants.

^d Electricity-only and combined-heat-and-power (CHP) plants within the NAICS (North American Industry Classification System) 22 category whose primary business is to sell electricity, or electricity and heat, to the public. Through 1988, data are for electric utilities only; beginning in 1989, data are for electric utilities and independent power producers.

^e Electric power sector factors are for anthracite, bituminous coal, subbituminous coal, lignite, waste coal, and, beginning in 1998, coal synfuel.

E=Estimate. NA=Not available.

Web Page: http://www.eia.doe.gov/emeu/mer/append_a.html.

Sources: See "Thermal Conversion Factor Source Documentation," which follows Table A6.

Table A6. Approximate Heat Rates for Electricity, and Heat Content of Electricity
(Btu per Kilowatthour)

	Approximate Heat Rates for Electricity Net Generation			Heat Content of Electricity ^e
	Fossil-Fueled Plants ^{a,b}	Nuclear Plants ^c	Geothermal Energy Plants ^d	
1973	10,389	10,903	21,674	3,412
1974	10,442	11,161	21,674	3,412
1975	10,406	11,013	21,611	3,412
1976	10,373	11,047	21,611	3,412
1977	10,435	10,769	21,611	3,412
1978	10,361	10,941	21,611	3,412
1979	10,353	10,879	21,545	3,412
1980	10,388	10,908	21,639	3,412
1981	10,453	11,030	21,639	3,412
1982	10,454	11,073	21,629	3,412
1983	10,520	10,905	21,290	3,412
1984	10,440	10,843	21,303	3,412
1985	10,447	10,622	21,263	3,412
1986	10,446	10,579	21,263	3,412
1987	10,419	10,442	21,263	3,412
1988	10,324	10,602	21,096	3,412
1989	10,432	10,583	21,096	3,412
1990	10,402	10,582	21,096	3,412
1991	10,436	10,484	20,997	3,412
1992	10,342	10,471	20,914	3,412
1993	10,309	10,504	20,914	3,412
1994	10,316	10,452	20,914	3,412
1995	10,312	10,507	20,914	3,412
1996	10,340	10,503	20,960	3,412
1997	10,213	10,494	20,960	3,412
1998	10,197	10,491	21,017	3,412
1999	10,226	10,450	21,017	3,412
2000	10,201	10,429	21,017	3,412
2001	10,333	10,448	21,017	3,412
2002	10,173	10,439	21,017	3,412
2003	10,241	10,421	21,017	3,412
2004	10,022	10,427	21,017	3,412
2005	9,999	10,435	21,017	3,412
2006	E 10,022	E 10,427	E 21,017	3,412

^a Through 2000, used as the thermal conversion factor for wood and waste electricity net generation at electric utilities. For all years, used as the thermal conversion factor for hydro, solar, and wind electricity net generation.

^b Through 2000, heat rates are for fossil-fueled steam-electric plants at electric utilities. Beginning in 2001, heat rates are for all fossil-fueled plants at electric utilities and independent power producers.

^c Used as the thermal conversion factor for nuclear electricity net generation.

^d Used as the thermal conversion factor for geothermal electricity net generation.

^e The value of 3,412 Btu per kilowatthour is a constant. It is used as the thermal conversion factor for electricity retail sales, and electricity imports and exports.

E=Estimate.

Web Page: http://www.eia.doe.gov/emeu/mer/append_a.html.

Sources: 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 thermal conversion factor of 5.048 million Btu per barrel as adopted by the Bureau of Mines from the Texas Eastern Transmission Corporation publication *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 Production**.

Crude Oil Imports. Calculated annually by EIA as the average of the thermal conversion factors for each type of crude oil imported weighted by the quantities 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 oil 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 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."

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 Values 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 calculation of 3.308 million Btu per barrel based on an assumed mixture of 70 percent ethane and 30 percent propane. See **Ethane** and **Propane**.

Fuel Ethanol (Blended Into Motor Gasoline). EIA adopted the thermal conversion factor of 3.539 million Btu per barrel published in "Oxygenate Flexibility for Future Fuels," a paper presented by William J. Piel of the ARCO Chemical Company at the National Conference on Reformulated Gasolines and Clean Air Act Implementation, Washington, D.C., October 1991.

Isobutane. EIA adopted the Bureau of Mines thermal conversion factor of 3.974 million Btu per barrel 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 for "Jet Fuel, Commercial" as published by the Texas Eastern Transmission Corporation in the report *Competition and Growth in American Energy Markets 1947-1985*, a 1968 release of historical and projected statistics.

Jet Fuel, Naphtha-Type. EIA adopted the Bureau of Mines thermal conversion factor of 5.355 million Btu per barrel for "Jet Fuel, Military" as published by the Texas Eastern Transmission Corporation in the report *Competition and Growth in American Energy Markets 1947-1985*, a 1968 release of historical and projected statistics.

Kerosene. EIA adopted the Bureau of Mines thermal conversion factor of 5.670 million Btu per barrel as reported in a Bureau of Mines internal memorandum, "Bureau of Mines Standard Average Heating Values of Various Fuels, Adopted January 3, 1950."

Liquefied Petroleum Gases Consumption. Calculated annually by EIA as the average of the thermal conversion factors for all liquefied petroleum gases consumed (see Table A1) weighted by the quantities consumed. The component products of liquefied petroleum gases are ethane (including ethylene), propane (including propylene), normal butane (including butylene), butane-propane mixtures, ethane-propane mixtures, and isobutane. For 1973-1980, quantities consumed are from EIA, Energy Data Reports, "Petroleum Statement, Annual," Table 1. For 1981 forward, quantities consumed are from EIA, *Petroleum Supply Annual*, Table 2.

Lubricants. EIA adopted the thermal conversion factor of 6.065 million Btu per barrel as estimated by the Bureau of Mines and first published in the *Petroleum Statement, Annual, 1956*.

Miscellaneous Products. EIA adopted the thermal conversion factor of 5.796 million Btu per barrel as estimated by

the Bureau of Mines and first published in the *Petroleum Statement, Annual, 1956*.

Motor Gasoline Consumption. 1973–1993: EIA adopted the Bureau of Mines thermal conversion factor of 5.253 million Btu per barrel for “Gasoline, Motor Fuel” as published by the Texas Eastern Transmission Corporation in Appendix V of *Competition and Growth in American Energy Markets 1947–1985*, a 1968 release of historical and projected statistics. 1994 forward: EIA calculated national annual quantity-weighted average conversion factors for conventional, reformulated, and oxygenated motor gasolines (see Table A3). The factor for conventional motor gasoline is 5.253 million Btu per barrel, as used for previous years. The factors for reformulated and oxygenated gasolines, both currently 5.150 million Btu per barrel, are based on data published in Environmental Protection Agency, Office of Mobile Sources, National Vehicle and Fuel Emissions Laboratory report EPA 420-F-95-003, “Fuel Economy Impact Analysis of Reformulated Gasoline.” See **Fuel Ethanol (Blended Into Motor Gasoline)**.

Natural Gas Plant Liquids Production. Calculated annually by EIA as the average of the thermal conversion factors for each natural gas plant liquid produced weighted by the quantities 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 or equal to that for natural gasoline. See **Natural Gasoline**.

Petrochemical Feedstocks, Naphtha less than 401° F. Assumed by EIA to be 5.248 million Btu per barrel, equal to the thermal conversion factor for special naphthas. See **Special Naphthas**.

Petrochemical Feedstocks, Other Oils equal to or greater than 401° F. 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 Values of Various Fuels, Adopted January 3, 1950.” The Bureau of Mines calculated this factor by dividing 30.120 million Btu per short ton, as given in the referenced Bureau of Mines internal memorandum, by 5.0 barrels per short ton, as given in the Bureau of Mines Form 6-1300-M and successor EIA forms.

Petroleum Consumption, Commercial Sector. Calculated annually by EIA as the average of the thermal conversion

factors for all petroleum products consumed by the commercial sector weighted by the estimated quantities consumed by the commercial sector. The quantities of petroleum products consumed by the commercial sector are estimated in the State Energy Data System—see documentation at

http://www.eia.doe.gov/emeu/states/sep_use/notes/use_petrol.pdf.

Petroleum Consumption, Electric Power Sector. Calculated annually by EIA as the average of the thermal conversion factors for all petroleum products consumed by the electric power sector weighted by the quantities consumed by the electric power sector. Data are from Form EIA-860, “Annual Electric Generator Report”; Form EIA-906, “Power Plant Report”; and predecessor forms.

Petroleum Consumption, Industrial Sector. Calculated annually by EIA as the average of the thermal conversion factors for all petroleum products consumed by the industrial sector weighted by the estimated quantities consumed by the industrial sector. The quantities of petroleum products consumed by the industrial sector are estimated in the State Energy Data System—see documentation at http://www.eia.doe.gov/emeu/states/sep_use/notes/use_petrol.pdf.

Petroleum Consumption, Residential Sector. Calculated annually by EIA as the average of the thermal conversion factors for all petroleum products consumed by the residential sector weighted by the estimated quantities consumed by the residential sector. The quantities of petroleum products consumed by the residential sector are estimated in the State Energy Data System—see documentation at http://www.eia.doe.gov/emeu/states/sep_use/notes/use_petrol.pdf.

Petroleum Consumption, Total. Calculated annually by EIA as the average of the thermal conversion factors for all petroleum products consumed weighted by the quantities consumed.

Petroleum Consumption, Transportation Sector. Calculated annually by EIA as the average of the thermal conversion factors for all petroleum products consumed by the transportation sector weighted by the estimated quantities consumed by the transportation sector. The quantities of petroleum products consumed by the transportation sector are estimated in the State Energy Data System—see documentation at http://www.eia.doe.gov/emeu/states/sep_use/notes/use_petrol.pdf.

Petroleum Products Exports. Calculated annually by EIA as the average of the thermal conversion factors for each petroleum product exported weighted by the quantities exported.

Petroleum Products Imports. Calculated annually by EIA as the average of the thermal conversion factors for each petroleum product imported weighted by the quantities imported.

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

Propane. EIA adopted the Bureau of Mines thermal conversion factor of 3.836 million Btu per barrel 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 Naphthas. EIA adopted the Bureau of Mines thermal conversion factor of 5.248 million Btu per barrel, which was assumed to be equal to that of the 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, first published in the *Petroleum Statement, Annual, 1970*.

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

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

Unfinished Oils. EIA assumed the thermal conversion factor to be 5.825 million Btu per barrel or equal to that for distillate fuel oil (see **Distillate Fuel Oil**) and first published it in EIA's *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 it in EIA's *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, Electric Power Sector. Calculated annually by EIA by dividing the heat content of natural gas consumed by the electric power sector by the quantity consumed. Data are from Form EIA-860,

"Annual Electric Generator Report"; Form EIA-906, "Power Plant Report"; and predecessor forms.

Natural Gas Consumption, End-Use Sectors. Calculated annually by EIA by dividing the heat content of natural gas consumed by the end-use sectors (residential, commercial, industrial, and transportation) by the quantity consumed. Data are from Form EIA-176, "Annual Report of Natural and Supplemental Gas Supply and Disposition."

Natural Gas Consumption, Total. 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 consumed.

Natural Gas Exports. Calculated annually by EIA by dividing the heat content of natural gas exported by the quantity exported. For 1973–1995, data are from Form FPC-14, "Annual Report for Importers and Exporters of Natural Gas." Beginning in 1996, data are from U.S. Department of Energy, Office of Fossil Energy, *Natural Gas Imports and Exports*.

Natural Gas Imports. Calculated annually by EIA by dividing the heat content of natural gas imported by the quantity imported. For 1973–1995, data are from Form FPC-14, "Annual Report for Importers and Exporters of Natural Gas." Beginning in 1996, data are from U.S. Department of Energy, Office of Fossil Energy, *Natural Gas Imports and Exports*.

Natural Gas Production, Dry. Assumed by EIA to be equal to the thermal conversion factor for dry natural gas consumed. See **Natural Gas Consumption, Total**.

Natural Gas Production, Marketed. Calculated annually by EIA by dividing the heat content of dry natural gas produced (see **Natural Gas Production, Dry**) and natural gas plant liquids produced (see **Natural Gas Plant Liquids Production**) by the total quantity of marketed natural gas produced.

Approximate Heat Content of Coal and Coal Coke

Coal Coke Imports and Exports. EIA adopted the Bureau of Mines estimate of 24.800 million Btu per short ton.

Coal Consumption, Electric Power Sector. Calculated annually by EIA by dividing the heat content of coal consumed by the electric power sector by the quantity consumed. Data are from Form EIA-860, "Annual Electric Generator Report"; Form EIA-906, "Power Plant Report"; and predecessor forms.

Coal Consumption, End-Use Sectors. Calculated annually by EIA by dividing the heat content of coal consumed by the end-use sectors (residential, commercial, industrial, and transportation) by the quantity consumed.

Coal Consumption, Industrial Sector, Coke Plants. Calculated annually by EIA by dividing the heat content of coal consumed by coke plants by the quantity consumed. Data are from Form EIA-5, “Quarterly Coal Consumption and Quality Report—Coke Plants.”

Coal Consumption, Industrial Sector, Other. Calculated annually by EIA by dividing the heat content of coal consumed by manufacturing plants by the quantity consumed. Data are from Form EIA-3, “Quarterly Coal Consumption and Quality Report—Manufacturing Plants.”

Coal Consumption, Residential and Commercial Sectors. Calculated annually by EIA by dividing the heat content of coal consumed by the residential and commercial sectors by the quantity consumed. Through 1999, data are from Form EIA-6, “Coal Distribution Report.” Beginning in 2000, data are for commercial combined-heat-and-power (CHP) plants from Form EIA-860, “Annual Electric Generator Report”; and Form EIA-906, “Power Plant Report.”

Coal Consumption, Total. Calculated annually by EIA by dividing the total heat content of coal consumed by all sectors by the total quantity consumed.

Coal Exports. Calculated annually by EIA by dividing the heat content of steam coal and metallurgical coal exported by the quantity exported. Data are from U.S. Department of Commerce, Bureau of the Census, “Monthly Report EM 545.”

Coal Imports. Assumed by EIA to be 25.000 million Btu per short ton.

Coal Production. Calculated annually by EIA to balance the heat content of coal supply (production and imports) and the heat content of coal disposition (exports, stock change, and consumption).

Waste Coal Supplied. Calculated annually by EIA by dividing the total heat content of waste coal supplied by the quantity supplied. For 1989–1997, data are from Form EIA-867, “Annual Nonutility Power Producer Report.” For 1998–2000, data are from Form EIA-860B, “Annual Electric Generator Report—Nonutility.” For 2001–2003, data are from Form EIA-906, “Power Plant Report,” and Form EIA-3, “Quarterly Coal Consumption and Quality Report—Manufacturing Plants.” For 2004 forward, data are from Form EIA-906, “Power Plant Report,” Form EIA-920, “Combined Heat and Power Plant Report,” and

Form EIA-3, “Quarterly Coal Consumption and Quality Report—Manufacturing Plants.”

Approximate Heat Rates for Electricity

Electricity Net Generation, Fossil-Fueled Plants. There is no generally accepted practice for measuring the thermal conversion rates for power plants that generate electricity from hydro, wind, photovoltaic, or solar thermal energy sources. Therefore, EIA calculates a rate factor that is equal to the annual average heat rate factor for fossil-fueled 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. 1973–1988: The weighted annual average heat rate for fossil-fueled steam-electric power plants in the United States, as published in EIA, *Electric Plant Cost and Power Production Expenses 1991*, Table 9. 1989–2000: Calculated annually by EIA by using the heat rate reported on Form EIA-860, “Annual Electric Generator Report” (and predecessor forms); and the generation on Form EIA-759, “Monthly Power Plant Report.” The computation includes data for all electric utility steam-electric plants using fossil fuels. 2001 forward: Calculated annually by EIA by using fuel consumption and net generation data reported on Form EIA-906, “Power Plant Report.” The computation includes data for all electric utilities and electricity-only independent power producers using fossil fuels.

Electricity Net Generation, Geothermal Energy Plants. 1973–1981: Calculated annually by EIA by weighting the annual average heat rates of operating geothermal units by the installed nameplate capacities as reported on Form FPC-12, “Power System Statement.” 1982 forward: Estimated annually by EIA on the basis of an informal survey of relevant plants.

Electricity Net Generation, Nuclear Plants. 1973–1984: Calculated annually 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 were reported on Form FERC-1, “Annual Report of Major Electric Utilities, Licensees, and Others”; Form EIA-412, “Annual Report of Public Electric Utilities”; and predecessor forms. For 1982, the factors were published in EIA, *Historical Plant Cost and Annual Production Expenses for Selected Electric Plants 1982*, page 215. For 1983 and 1984, the factors were published in EIA, *Electric Plant Cost and Power Production Expenses 1991*, Table 13. 1985 forward: Calculated annually by EIA by using the heat rate reported on Form EIA-860, “Annual Electric Generator Report” (and predecessor forms); and the generation reported on Form EIA-906, “Power Plant Report.”

Thermal Metric and Other Conversion Factors

Data presented in the *Monthly Energy Review* and in other Energy Information Administration publications are expressed predominately in units that historically have been used in the United States, such as British thermal units, barrels, cubic feet, and short tons. However, because U.S. commerce involves other nations, most of which use metric units of measure, the U.S. Government is committed to the transition to the metric system, as stated in the Metric Conversion Act of 1975 (Public Law 94-168), amended by the Omnibus Trade and Competitiveness Act of 1988 (Public Law 100-418), and Executive Order 12770 of July 25, 1991.

The metric conversion factors presented in Table B1 can be used to calculate the metric-unit equivalents of values expressed in U.S. Customary units. For example, 500 short

tons are the equivalent of 453.6 metric tons (500 short tons x 0.9071847 metric tons/short ton = 453.6 metric tons).

In the metric system of weights and measures, the names of multiples and subdivisions of any unit may be derived by combining the name of the unit with prefixes, such as deka, hecto, and kilo, meaning, respectively, 10, 100, 1,000, and deci, centi, and milli, meaning, respectively, one-tenth, one-hundredth, and one-thousandth. Common metric prefixes can be found in Table B2.

The conversion factors presented in Table B3 can be used to calculate equivalents in various physical units commonly used in energy analyses. For example, 10 barrels are the equivalent of 420 U.S. gallons (10 barrels x 42 gallons/barrel = 420 gallons).

Table B1. Metric Conversion Factors

Type of Unit	U.S. Unit		Equivalent in Metric Units
Mass	1 short ton (2,000 lb)	=	0.907 184 7 metric tons (t)
	1 long ton	=	1.016 047 metric tons (t)
	1 pound (lb)	=	0.453 592 37 ^a kilograms (kg)
	1 pound uranium oxide (lb U ₃ O ₈)	=	0.384 647 ^b kilograms uranium (kgU)
	1 ounce, avoirdupois (avdp oz)	=	28.349 52 grams (g)
Volume	1 barrel of oil (bbl)	=	0.158 987 3 cubic meters (m ³)
	1 cubic yard (yd ³)	=	0.764 555 cubic meters (m ³)
	1 cubic foot (ft ³)	=	0.028 316 85 cubic meters (m ³)
	1 U.S. gallon (gal)	=	3.785 412 liters (L)
	1 ounce, fluid (fl oz)	=	29.573 53 milliliters (mL)
	1 cubic inch (in ³)	=	16.387 06 milliliters (mL)
Length	1 mile (mi)	=	1.609 344 ^a kilometers (km)
	1 yard (yd)	=	0.914 4 ^a meters (m)
	1 foot (ft)	=	0.304 8 ^a meters (m)
	1 inch (in)	=	2.54 ^a centimeters (cm)
Area	1 acre	=	0.404 69 hectares (ha)
	1 square mile (mi ²)	=	2.589 988 square kilometers (km ²)
	1 square yard (yd ²)	=	0.836 127 4 square meters (m ²)
	1 square foot (ft ²)	=	0.092 903 04 ^a square meters (m ²)
	1 square inch (in ²)	=	6.451 6 ^a square centimeters (cm ²)
Energy	1 British thermal unit (Btu) ^c	=	1,055.055 852 62 ^a joules (J)
	1 calorie (cal)	=	4.186 8 ^a joules (J)
	1 kilowatthour (kWh)	=	3.6 ^a megajoules (MJ)
Temperature^d	32 degrees Fahrenheit (°F)	=	0 ^a degrees Celsius (°C)
	212 degrees Fahrenheit (°F)	=	100 ^a degrees Celsius (°C)

^aExact conversion.

^bCalculated by the Energy Information Administration.

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

^dTo convert degrees Fahrenheit (°F) to degrees Celsius (°C) exactly, subtract 32, then multiply by 5/9.

Notes: • Spaces have been inserted after every third digit to the right of the decimal for ease of reading. • Most metric units belong to the International System of Units (SI), and the liter, hectare, and metric ton are accepted for use with the SI units. For more information about the SI units, see <http://physics.nist.gov/cuu/Units/index.html>.

Web Page: http://www.eia.doe.gov/emeu/mer/append_b.html.

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

Table B2. Metric Prefixes

Unit Multiple	Prefix	Symbol	Unit Subdivision	Prefix	Symbol
10^1	deka	da	10^{-1}	deci	d
10^2	hecto	h	10^{-2}	centi	c
10^3	kilo	k	10^{-3}	milli	m
10^6	mega	M	10^{-6}	micro	μ
10^9	giga	G	10^{-9}	nano	n
10^{12}	tera	T	10^{-12}	pico	p
10^{15}	peta	P	10^{-15}	femto	f
10^{18}	exa	E	10^{-18}	atto	a
10^{21}	zetta	Z	10^{-21}	zepto	z
10^{24}	yotta	Y	10^{-24}	yocto	y

Web Page: http://www.eia.doe.gov/emeu/mer/append_b.html.Source: U.S. Department of Commerce, National Institute of Standards and Technology, *The International System of Units (SI)*, NIST Special Publication 330, 1991 Edition (Washington, DC, August 1991), p.10.**Table B3. Other Physical Conversion Factors**

Energy Source	Original Unit		Equivalent in Final Units	
Petroleum	1 barrel (bbl)	=	42 ^a	U.S. gallons (gal)
Coal	1 short ton	=	2,000 ^a	pounds (lb)
	1 long ton	=	2,240 ^a	pounds (lb)
	1 metric ton (t)	=	1,000 ^a	kilograms (kg)
Wood	1 cord (cd)	=	1.25 ^b	shorts tons
	1 cord (cd)	=	128 ^a	cubic feet (ft^3)

^aExact conversion.^bCalculated by the Energy Information Administration.Web Page: http://www.eia.doe.gov/emeu/mer/append_b.html.Source: U.S. Department of Commerce, National Institute of Standards and Technology, *Specifications, Tolerances, and Other Technical Requirements for Weighing and Measuring Devices*, NIST Handbook 44, 1994 Edition (Washington, DC, October 1993), pp. B-10, C-17 and C-21.

Glossary

Alcohol: The family name of a group of organic chemical compounds composed of carbon, hydrogen, and oxygen. The series of molecules vary in chain length and are composed of a **hydrocarbon** plus a hydroxyl group; CH(3)-(CH₂)_n-OH (e.g., **methanol**, **ethanol**, and tertiary butyl alcohol). See **Fuel Ethanol**.

Anthracite: The highest rank of **coal**; used primarily for residential and commercial space heating. It is a hard, brittle, and black lustrous coal, often referred to as hard coal, containing a high percentage of fixed carbon and a low percentage of volatile matter. The moisture content of fresh-mined anthracite generally is less than 15 percent. The heat content of anthracite ranges from 22 to 28 million **Btu** per **short ton** on a moist, mineral-matter-free basis. The heat content of anthracite coal consumed in the United States averages 25 million Btu per short ton, on the as-received basis (i.e., containing both inherent moisture and mineral matter). *Note:* Since the 1980's, anthracite refuse or mine waste has been used for steam-electric power generation. This fuel typically has a heat content of 15 million Btu per ton or less.

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 will be used for blending or compounding into finished aviation gasoline (e.g., straight run gasoline, alkylate, reformat, benzene, toluene, and xylene). Excludes oxygenates (alcohols, ethers), butane, and pentanes plus.

Aviation Gasoline, Finished: A complex mixture of relatively volatile hydrocarbons with or without small quantities of additives, blended to form a fuel suitable for use in aviation reciprocating engines. Fuel specifications are provided in ASTM Specification D 910 and Military Specification MIL-G-5572. *Note:* Data on blending components are not counted in data on finished aviation gasoline.

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

Base 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.

Biomass: Organic nonfossil material of biological origin constituting a **renewable energy** source. See **Ethanol**, **Wood Energy**, and **Waste Energy**.

Bituminous Coal: A dense **coal**, usually black, sometimes dark brown, often with well-defined bands of bright and dull material, used primarily as fuel in steam-electric power generation, with substantial quantities also used for heat and power applications in manufacturing and to make **coke**. Bituminous coal is the most abundant coal in active U.S. mining regions. Its moisture content usually is less than 20 percent. The heat content of bituminous coal ranges from 21 to 30 million **Btu** per **short ton** on a moist, mineral-matter-free basis. The heat content of bituminous coal consumed in the United States averages 24 million Btu per short ton, on the as-received basis (i.e., containing both inherent moisture and mineral matter).

Black Liquor: A byproduct of the paper production process, alkaline spent liquor, that can be used as a source of energy. Alkaline spent liquor is removed from the digesters in the process of chemically pulping wood. After evaporation, the residual "black" liquor is burned as a fuel in a recovery furnace that permits the recovery of certain basic chemicals.

British Thermal Unit (Btu): The quantity of heat required to raise the temperature of 1 pound of liquid water by 1 degree Fahrenheit at the temperature at which water has its greatest density (approximately 39 degrees Fahrenheit). See **Heat Content**.

Btu: See **British Thermal Unit**.

Butane: A normally gaseous straight-chain or branched-chain hydrocarbon (C₄H₁₀). It is extracted from natural gas or refinery gas streams. It includes isobutane and normal butane and is designated in ASTM Specification D1835 and Gas Processors Association Specifications for commercial butane.

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

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

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

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

Chained Dollars: A measure used to express real prices. Real prices are those that have been adjusted to remove the effect of changes in the purchasing power of the dollar; they usually reflect buying power relative to a reference year. Prior to 1996, real prices were expressed in constant dollars, a measure based on the weights of goods and services in a single year, usually a recent year. In 1996, the U.S. Department of Commerce introduced the chained-dollar measure. The new measure is based on the average weights of goods and services in successive pairs of years. It is "chained" because the second year in each pair, with its weights, becomes the first year of the next pair. The advantage of using the chained-dollar measure is that it is more closely related to any given period and is therefore subject to less distortion over time.

CIF: See **Cost, Insurance, Freight.**

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

Coal: A readily combustible black or brownish-black rock whose composition, including inherent moisture, consists of more than 50 percent by weight and more than 70 percent by volume of carbonaceous material. It is formed from plant remains that have been compacted, hardened, chemically altered, and metamorphosed by heat and pressure over geologic time. See **Anthracite, Bituminous Coal, Lignite, Subbituminous Coal, Waste Coal, and Coal Synfuel.**

Coal Coke: See **Coke, Coal.**

Coal Stocks: Coal quantities that are held in storage for future use and disposition. Note: When coal data are collected for a particular reporting period (month, quarter, or year), coal stocks are commonly measured as of the last day of the period.

Coal Synfuel: Coal-based solid fuel that has been processed by a **coal synfuel plant**; and coal-based fuels such as briquettes, pellets, or extrusions, which are formed from fresh or recycled coal and binding materials.

Coal Synfuel Plant: A plant engaged in the chemical transformation of **coal** into **coal synfuel**.

Coke, Coal: A solid carbonaceous residue derived from low-ash, low-sulfur bituminous coal from which the volatile constituents are driven off by baking in an oven at temperatures as high as 2,000° F so that the fixed carbon and residual ash are fused together. Coke is used as a fuel and as a

reducing agent in smelting iron ore in a blast furnace. Coke (coal) has a heating value of 24.8 million Btu per ton.

Coke, Petroleum: A residue high in carbon content and low in hydrogen that is the final product of thermal decomposition in the condensation process in cracking. This product is reported as marketable coke or catalyst coke. The conversion is 5 barrels (42 U.S. gallons each) per short ton. Coke (petroleum) has a heating value of 6.024 million Btu per barrel.

Coking Coal: Bituminous coal suitable for making coke. See **Coke, Coal.**

Combined-Heat-and-Power (CHP) Plant: A plant designed to produce both heat and electricity from a single heat source. Note: This term is being used in place of the term "cogenerator" that was used by EIA in the past. CHP better describes the facilities because some of the plants included do not produce heat and power in a sequential fashion and, as a result, do not meet the legal definition of cogeneration specified in the Public Utility Regulatory Policies Act (PURPA).

Commercial Sector: An energy-consuming sector that consists of service-providing facilities and equipment of: businesses; Federal, State, and local governments; and other private and public organizations, such as religious, social, or fraternal groups. The commercial sector includes institutional living quarters. It also includes sewage treatment facilities. Common uses of energy associated with this sector include space heating, water heating, air conditioning, lighting, refrigeration, cooking, and running a wide variety of other equipment. Note: This sector includes generators that produce electricity and/or useful thermal output primarily to support the activities of the above-mentioned commercial establishments. Various EIA programs differ in sectoral coverage-for more information see

<http://www.eia.doe.gov/neic/datadefinitions/Guideforwebcom.htm>. See **End-Use Sectors** and **Energy-Use Sectors**.

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

Constant Dollars: See **Chained Dollars.**

Conventional Gasoline: Finished motor gasoline not included in the oxygenated or reformulated gasoline categories. Note: This category excludes reformulated gasoline blendstock for oxygenate blending (RBOB) as well as other blendstock.

Conventional Hydroelectric Power: Hydroelectric power generated from flowing water that is not created by **hydroelectric pumped storage**.

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

Cost, Insurance, Freight (CIF): A sales transaction in which the seller pays for the transportation and insurance of the goods to the port of destination specified by the buyer.

Crude Oil: A mixture of hydrocarbons that exists in liquid phase in natural underground reservoirs and remains liquid at atmospheric pressure after passing through surface separating facilities. Depending upon the characteristics of the crude stream, it may also include: 1) small amounts of hydrocarbons that exist in gaseous phase in natural underground reservoirs but are liquid at atmospheric pressure after being recovered from oil well (casinghead) gas in lease separators and are subsequently commingled with the crude stream without being separately measured. Lease condensate recovered as a liquid from natural gas wells in lease or field separation facilities and later mixed into the crude stream is also included; 2) small amounts of nonhydrocarbons produced with the oil, such as sulfur and various metals; and 3) drip gases, and liquid hydrocarbons produced from tar sands, oil sands, gilsonite, and oil shale.

Liquids produced at natural gas processing plants are excluded. Crude oil is refined to produce a wide array of petroleum products, including heating oils; gasoline, diesel and jet fuels; lubricants; asphalt; ethane, propane, and butane; and many other products used for their energy or chemical content.

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

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

Crude Oil Landed Cost: The price of crude oil at the port of discharge, including charges associated with the purchase, transporting, and insuring of a cargo from the

purchase point to the port of discharge. The cost does not include charges incurred at the discharge port (e.g., import tariffs or fees, wharfage charges, and demurrage).

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

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

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

Crude 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.

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

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

Degree-Days, Cooling (CDD): A measure of how warm a location is over a period of time relative to a base temperature, most commonly specified as 65 degrees Fahrenheit. The measure is computed for each day by subtracting the base temperature (65 degrees) from the average of the day's high and low temperatures, with negative values set equal to zero. Each day's cooling degree-days are summed to create a cooling degree-day measure for a specified reference period. Cooling degree-days are used in energy analysis as an indicator of air conditioning energy requirements or use.

Degree-Days, Heating (HDD): A measure of how cold a location is over a period of time relative to a base temperature, most commonly specified as 65 degrees Fahrenheit. The measure is computed for each day by subtracting the average of the day's high and low temperatures from the base temperature (65 degrees), with negative values set equal to zero. Each day's heating degree-days are summed to create a heating degree-day measure for a specified reference period. Heating degree-days are used in energy analysis as an indicator of space heating energy requirements or use.

Degree-Days, Population-Weighted: Heating or cooling degree-days weighted by the population of the area in which the degree-days are recorded. To compute State population-weighted degree-days, each State is divided into from one to nine climatically homogeneous divisions, which are assigned weights based on the ratio of the population of the division to the total population of the State. Degree-day

readings for each division are multiplied by the corresponding population weight for each division and those products are then summed to arrive at the State population-weighted degree-day figure. To compute national population-weighted degree-days, the Nation is divided into nine Census regions, each comprising from three to eight States, which are assigned weights based on the ratio of the population of the region to the total population of the Nation. Degree-day readings for each region are multiplied by the corresponding population weight for each region and those products are then summed to arrive at the national population-weighted degree-day figure.

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

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

Direct Use: Use of electricity that 1) is self-generated, 2) is produced by either the same entity that consumes the power or an affiliate, and 3) is used in direct support of a service or industrial process located within the same facility or group of facilities that house the generating equipment. Direct use is exclusive of **station use**.

Distillate Fuel Oil: A general classification for one of the petroleum fractions produced in conventional distillation operations. It includes diesel fuels and fuel oils. Products known as No. 1, No. 2, and No. 4 diesel fuel are used in on-highway diesel engines, such as those in trucks and automobiles, as well as off-highway engines, such as those in railroad locomotives and agricultural machinery. Products known as No. 1, No. 2, and No. 4 fuel oils are used primarily for space heating and electric power generation.

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

Dry Natural Gas Production: See **Natural Gas (Dry) Production**.

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

Electric Power Sector: An energy-consuming sector that consists of electricity-only and combined-heat-and-power (CHP) plants whose primary business is to sell electricity, or electricity and heat, to the public-i.e., North American Industry Classification System 22 plants. See also **Combined-Heat-and-Power (CHP) Plant**, **Electricity-Only Plant**, **Electric Utility**, and **Independent Power Producer**.

Electric Utility: A corporation, person, agency, authority, or other legal entity or instrumentality aligned with distribution facilities for delivery of electric energy for use primarily by the public. Included are investor-owned electric utilities, municipal and State utilities, Federal electric utilities, and rural electric cooperatives. A few entities that are tariff based and corporately aligned with companies that own distribution facilities are also included. Note: Due to the issuance of FERC Order 888 that required traditional electric utilities to functionally unbundle their generation, transmission, and distribution operations, "electric utility" currently has inconsistent interpretations from State to State.

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

Electricity: A form of energy characterized by the presence and motion of elementary charged particles generated by friction, induction, or chemical change.

Electricity Generation: The process of producing electric energy, or the amount of electric energy produced by transforming other forms of energy, commonly expressed in **kilowatthours** (kWh) or megawatthours (Mwh).

Electricity Generation, Gross: The total amount of electric energy produced by generating units and measured at the generating terminal in **kilowatthours** (kWh) or megawatthours (MWh).

Electricity Generation, Net: The amount of **gross electricity generation** less **station use** (the **electric energy** consumed at the generating station(s) for station service or auxiliaries). Note: Electricity required for pumping at **hydroelectric pumped-storage** plants is regarded as electricity for station service and is deducted from gross generation.

Electricity-Only Plant: A plant designed to produce electricity only. See also **Combined-Heat-and-Power (CHP) Plant**.

Electricity Retail Sales: The amount of electricity sold to customers purchasing electricity for their own use and not for resale.

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 Service Provider: An energy entity that provides service to a retail or end-use customer.

Energy-Use Sectors: A group of major energy-consuming components of U.S. society developed to measure and analyze energy use. The sectors most commonly referred to in EIA are: **residential, commercial, industrial, transportation, and electric power.**

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

Ethanol (CH_3-CH_2OH): A clear, colorless, flammable oxygenated **hydrocarbon**. Ethanol is typically produced chemically from **ethylene**, or biologically from fermentation of various sugars from carbohydrates found in agricultural crops and cellulosic residues from crops or wood. It is used in the United States as a gasoline octane enhancer and **oxygenate** (blended up to 10 percent concentration). Ethanol can also be used in high concentrations (E85) in vehicles designed for its use. See **Alcohol** and **Fuel Ethanol**.

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

Exploratory Well: A well drilled to find and produce oil or gas in an area previously considered an unproductive area, to find a new reservoir in a known field (i.e., one previously found to be producing oil or gas in another reservoir), or to extend the limit of a known oil or gas reservoir.

Exports: Shipments of goods from within the 50 States and the District of Columbia to U.S. possessions and territories or to foreign countries.

Extraction Loss: The reduction in volume of natural gas due to the removal of natural gas liquid constituents, such as ethane, propane, and butane, at natural gas processing plants.

Federal Energy Administration (FEA): A predecessor of the Energy Information Administration.

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

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

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

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

F.O.B. (Free on Board): A sales transaction in which the seller makes the product available for pick up at a specified port or terminal at a specified price and the buyer pays for the subsequent transportation and insurance.

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

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

Fossil Fuel: An energy source formed in the Earth's crust from decayed organic material, such as **petroleum**, **coal**, and **natural gas**.

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

Fuel Ethanol (CH_3-CH_2OH): An anhydrous, denatured aliphatic **alcohol** intended for **motor gasoline blending**. See **Ethanol** and **Oxygenates**.

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

Gasohol: A blend of finished motor gasoline containing alcohol (generally ethanol but sometimes methanol) at a

concentration between 5.7 percent and 10 percent by volume. See **Motor Gasoline, Oxygenated**.

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

Geothermal Energy: Hot water or steam extracted from geothermal reservoirs in the earth's crust and used for geothermal heat pumps, water heating, or electricity generation.

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

GT/IC: Gas turbine and internal combustion plants.

Heat Content: The amount of heat energy available to be released by the transformation or use of a specified physical unit of an energy form (e.g., a ton of coal, a barrel of oil, a kilowatthour of electricity, a cubic foot of natural gas, or a pound of steam). The amount of heat energy is commonly expressed in **British thermal units (Btu)**. *Note:* Heat content of combustible energy forms can be expressed in terms of either gross heat content (higher or upper heating value) or net heat content (lower heating value), depending upon whether or not the available heat energy includes or excludes the energy used to vaporize water (contained in the original energy form or created during the combustion process). The Energy Information Administration typically uses gross heat content values.

Heat Rate: A measure of generating station thermal efficiency commonly stated as **Btu per kilowatthour**. *Note:* Heat rates can be expressed as either gross or net heat rates, depending whether the electricity output is gross or net generation. Heat rates are typically expressed as net heat rates.

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

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

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

Hydroelectric Pumped Storage: Hydroelectricity that is generated during peak load periods by using water

previously pumped into an elevated storage reservoir during off-peak periods when excess generating capacity is available to do so. When additional generating capacity is needed, the water can be released from the reservoir through a conduit to turbine generators located in a power plant at a lower level.

Imports: Receipts of goods into the 50 States and the District of Columbia from U.S. possessions and territories or from foreign countries.

Independent Power Producer: A corporation, person, agency, authority, or other legal entity or instrumentality that owns or operates facilities for the generation of electricity for use primarily by the public, and that is not an **electric utility**.

Industrial Sector: An **energy-consuming sector** that consists of all facilities and equipment used for producing, processing, or assembling goods. The industrial sector encompasses the following types of activity: manufacturing (**NAICS** codes 31-33); agriculture, forestry, fishing and hunting (**NAICS** code 11); mining, including oil and gas extraction (**NAICS** code 21); and construction (**NAICS** code 23). Overall energy use in this sector is largely for process heat and cooling and powering machinery, with lesser amounts used for facility heating, air conditioning, and lighting. Fossil fuels are also used as raw material inputs to manufactured products. *Note:* This sector includes **generators** that produce **electricity** and/or **useful thermal output** primarily to support the above-mentioned industrial activities. Various EIA programs differ in sectoral coverage—for more information see
<<http://www.eia.doe.gov/neic/databdefinitions/Guideforwebind.htm>> . See **End-Use Sectors** and **Energy-Use Sectors**.

Injections (Natural Gas): Natural gas injected into storage reservoirs.

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

Isobutylene: An olefinic hydrocarbon recovered from refinery processes or petrochemical processes.

Isopentane: A saturated branched-chain hydrocarbon obtained by fractionation of natural gasoline or isomerization of normal pentane.

Jet Fuel: A refined petroleum product used in jet aircraft engines. It includes kerosene-type jet fuel and naphtha-type jet fuel.

Jet Fuel, Kerosene-Type: A kerosene-based product with a maximum distillation temperature of 400° F at the 10-percent recovery point and a final maximum boiling point of 572° F. Fuel specifications are provided in ASTM Specification D 1655 and Military Specifications

MIL-T-5624P and MIL-T-83133D (Grades JP-5 and JP-8). It is used primarily for commercial turbojet and turboprop aircraft engines.

Jet Fuel, Naphtha-Type: A fuel in the heavy naphtha boiling range, with an average gravity of 52.8 degrees API, 20 to 90 percent distillation temperatures of 290° to 470° F and meeting Military Specification MIL-T-5624L (Grade JP-4). It is used by the military for turbojet and turboprop engines.

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

Kilowatt: A unit of electrical power equal to 1,000 **watts**.

Kilowatthour (kWh): A measure of electricity defined as a unit of work or energy, measured as 1 **kilowatt** (1,000 **watts**) of power expended for 1 hour. One kilowatthour is equivalent to 3,412 Btu. See **Watthour**.

Landed Costs: The dollar-per-barrel price of crude oil at the port of discharge. Included are the charges associated with the purchase, transporting, and insuring of a cargo from the purchase point to the port of discharge. Not included are charges incurred at the discharge port (e.g., import tariffs or fees, wharfage charges, and demurrage charges).

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

Lease Condensate: A mixture consisting primarily of pentanes and heavier hydrocarbons, which is recovered as a liquid from natural gas in lease or field separation facilities. Note: This category excludes natural gas liquids, such as butane and propane, which are recovered at natural gas processing plants or facilities.

Lignite: The lowest rank of **coal**, often referred to as brown coal, used almost exclusively as fuel for steam-electric power generation. It is brownish-black and has a high inherent moisture content, sometimes as high as 45 percent. The heat content of lignite ranges from 9 to 17 million **Btu** per **short ton** on a moist, mineral-matter-free basis. The heat content of lignite consumed in the United States averages 13 million **Btu** per short ton, on the as-received basis (i.e., containing both inherent moisture and mineral matter).

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

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

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

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

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

Methane: A colorless, flammable, odorless, hydrocarbon gas (CH_4) that is the principal constituent of natural gas. It is also an important source of hydrogen in various industrial processes.

Methyl Tertiary Butyl Ether (MTBE): An ether, $(\text{CH}_3)_3\text{COCH}_3$, intended for motor gasoline blending. See **Oxygenates**.

Methanol: A light, volatile alcohol (CH_3OH) eligible for motor gasoline blending. See **Oxygenates**.

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

Motor Gasoline Blending: Mechanical mixing of motor gasoline blending components and oxygenates as required, to produce finished motor gasoline. Finished motor gasoline may be further mixed with other motor gasoline blending components or oxygenates, resulting in increased volumes of

finished motor gasoline and/or changes in the formulation of finished motor gasoline (e.g., conventional motor gasoline mixed with MTBE to produce oxygenated motor gasoline).

Motor Gasoline Blending Components: Naphtha (e.g., straight-run gasoline, alkylate, reformate, benzene, toluene, xylene) used for blending or compounding into finished motor gasoline. These components include reformulated gasoline blendstock (RBOB) but exclude oxygenates (alcohols, ethers), butane, and pentanes plus. Note: oxygenates are reported as individual components and are included in the total for other hydrocarbons, hydrogens, and oxygenates.

Motor Gasoline, Finished: A complex mixture of relatively volatile hydrocarbons with or without small quantities of additives, blended to form a fuel suitable for use in spark-ignition. Motor gasoline, as defined in ASTM Specification D-4814 or Federal Specification VV-G-1690C, is characterized as having a boiling range of 122°F to 158°F at the 10-percent recovery point to 365°F to 374°F at the 90-percent recovery point. "Motor gasoline" includes conventional gasoline, all types of oxygenated gasoline including gasohol, and reformulated gasoline, but excludes aviation gasoline. Note: Volumetric data on blending components, as well as oxygenates, are not counted in data on finished motor gasoline until the blending components are blended into the gasoline.

Motor Gasoline Grades: The classification of gasoline by octane ratings. Each type of gasoline (conventional, oxygenated, and reformulated) is classified by three grades: regular, midgrade, and premium. Note: Gasoline sales are reported by grade in accordance with their classification at the time of sale. In general, automotive octane requirements are lower at high altitudes. Therefore, in some areas of the United States, such as the Rocky Mountain States, the octane ratings for the gasoline grades may be 2 or more octane points lower.

Regular Gasoline: Gasoline having an antiknock index, i.e., octane rating, greater than or equal to 85 and less than 88. Note: Octane requirements may vary by altitude. See **Motor Gasoline Grades**.

Midgrade Gasoline: Gasoline having an antiknock index, i.e., octane rating, greater than or equal to 88 and less than or equal to 90. Note: Octane requirements may vary by altitude. See **Motor Gasoline Grades**.

Premium Gasoline: Gasoline having an antiknock index, i.e., octane rating, greater than 90. Note: Octane requirements may vary by altitude. See **Motor Gasoline Grades**.

Motor Gasoline, Oxygenated: Finished motor gasoline, other than reformulated gasoline, having an oxygen content of 2.7 percent or higher by weight and required by the U.S. Environmental Protection Agency (EPA) to be sold in areas designated by EPA as carbon monoxide (CO) nonattainment areas. Note: Oxygenated gasoline excludes oxygenated fuels program reformulated gasoline (OPRG) and reformulated gasoline blendstock for oxygenate blending (RBOB). Data on gasohol that has at least 2.7 percent oxygen, by weight, and is intended for sale inside CO nonattainment areas are

included in data on oxygenated gasoline. Other data on gasohol are included in data on conventional gasoline.

Motor Gasoline, Reformulated: Finished motor gasoline formulated for use in motor vehicles, the composition and properties of which meet the requirements of the reformulated gasoline regulations promulgated by the U.S. Environmental Protection Agency under Section 211(k) of the Clean Air Act. Note: This category includes oxygenated fuels program reformulated gasoline (OPRG) but excludes reformulated gasoline blendstock for oxygenate blending (RBOB).

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

Motor Gasoline (Total): For stock level data, a sum including finished motor gasoline stocks plus stocks of motor gasoline blending components but excluding stocks of oxygenates.

MTBE: See **Methyl Tertiary Butyl Ether**.

NAICS (North American Industry Classification System): A coding system developed jointly by the United States, Canada, and Mexico to classify businesses and industries according to the type of economic activity in which they are engaged. NAICS replaces the Standard Industrial Classification (SIC) codes. For additional information on NAICS, go to <http://www.census.gov/epcd/www/naics.html>.

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

Natural Gas: A gaseous mixture of hydrocarbon compounds, primarily methane, used as a fuel for electricity generation and in a variety of ways in buildings, and as raw material input and fuel for industrial processes.

Natural Gas, Dry: Natural gas which remains after: 1) the liquefiable hydrocarbon portion has been removed from the gas stream (i.e., gas after lease, field, and/or plant separation); and 2) any volumes of nonhydrocarbon gases have been removed where they occur in sufficient quantity to render the gas unmarketable. Note: Dry natural gas is also known as consumer-grade natural gas. The parameters for measurement are cubic feet at 60 degrees Fahrenheit and 14.73 pounds per square inch absolute.

Natural Gas (Dry) Production: The process of producing consumer-grade natural gas. Natural gas withdrawn from reservoirs is reduced by volumes used at the production (lease) site and by processing losses. Volumes used at the production site include 1) the volume returned to reservoirs in cycling, repressuring of oil reservoirs, and conservation operations; and 2) gas vented and flared. Processing losses include 1) nonhydrocarbon gases (e.g., water vapor, carbon dioxide, helium, hydrogen sulfide, and nitrogen) removed from the gas stream; and 2) gas converted to liquid form, such as lease condensate and plant liquids. Volumes of dry gas withdrawn from gas storage reservoirs are not considered part of production. Dry natural gas production equals marketed production less extraction loss.

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

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

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

Natural Gasoline: A mixture of hydrocarbons (mostly pentanes and heavier) extracted from natural gas that meets vapor pressure, end-point, and other specifications for natural gasoline set by the Gas Processors Association. Includes isopentane, which is a saturated branch-chain hydrocarbon obtained by fractionation of natural gasoline or isomerization of normal pentane.

Net Summer Capacity: The maximum output, commonly expressed in **kilowatts** (kW) or megawatts (MW), that generating equipment can supply to system load, as demonstrated by a multi-hour test, at the time of summer peak demand (period of June 1 through September 30). This

output reflects a reduction in capacity due to electricity use for station service or auxiliaries.

Neutral Zone: A 6,200 square-mile area shared equally between Kuwait and Saudi Arabia under a 1992 agreement. The Neutral Zone contains an estimated 5 billion barrels of oil and 8 trillion cubic feet of natural gas.

Nominal Dollars: A measure used to express **nominal price**.

Nominal Price: The price paid for a product or service at the time of the transaction. Nominal prices are those that have not been adjusted to remove the effect of changes in the purchasing power of the dollar; they reflect buying power in the year in which the transaction occurred.

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

Nuclear Electric Power (Nuclear Power): Electricity generated by the use of the thermal energy released from the fission of nuclear fuel in a reactor.

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 a nuclear fission chain reaction can be initiated, controlled, and sustained at a specific rate. A reactor includes fuel (fissionable material), moderating material to control the rate of fission, a heavy-walled pressure vessel to house reactor components, shielding to protect personnel, a system to conduct heat away from the reactor, and instrumentation for monitoring and controlling the reactor's systems.

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**.

OPEC: See **Organization of the Petroleum Exporting Countries**.

Operable Unit (Nuclear): In the United States, a nuclear generating unit that has completed low-power testing and been issued a full-power operating license by the Nuclear Regulatory Commission, or equivalent permission to operate.

Organization for Economic Cooperation and Development (OECD): Members are Australia, Austria, Belgium,

Canada, Denmark, Faeroe Islands, Finland, France, Germany, Greece, Greenland, Hawaiian Trade Zone, Iceland, Ireland, Italy, Japan, Luxembourg, Mexico, Netherlands, New Zealand, Norway, Portugal, Spain, Sweden, Switzerland, Turkey, United Kingdom, and United States and its territories (Guam, Puerto Rico, and the Virgin Islands). In addition, Czech Republic, Hungary, Poland, and South Korea joined the OECD in 1996.

Organization of the Petroleum Exporting Countries (OPEC): An organization founded in Baghdad, Iraq, in September 1960, to unify and coordinate members' petroleum policies. OPEC members' national oil ministers meet regularly to discuss prices and, since 1982, to set crude oil production quotas. Original OPEC members include Iran, Iraq, Kuwait, Saudi Arabia, and Venezuela. Between 1960 and 1975, the organization expanded to include Qatar (1961), Indonesia (1962), Libya (1962), the United Arab Emirates (1967), Algeria (1969), Nigeria (1971), Ecuador (1973), and Gabon (1975). Ecuador withdrew in December 1992, and Gabon withdrew in January 1995. Although Iraq remains a member of OPEC, Iraqi production has not been a part of any OPEC quota agreements since March 1998. For more information, go to OPEC's website at <http://www.opec.org/aboutus/history/history.htm>.

Oxygenates: Substances which, when added to gasoline, increase the amount of oxygen in that gasoline blend. Ethanol, Methyl Tertiary Butyl Ether (MTBE), Ethyl Tertiary Butyl Ether (ETBE), and methanol are common oxygenates.

PAD Districts: Petroleum Administration for Defense Districts. Geographic aggregations of the 50 States and the District of Columbia into five districts for the Petroleum Administration for Defense in 1950. The districts were originally instituted for economic and geographic reasons as Petroleum Administration for War (PAW) Districts, which were established in 1942.

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

Petrochemical Feedstocks: Chemical feedstocks derived from petroleum principally for the manufacture of chemicals, synthetic rubber, and a variety of plastics.

Petroleum: A broadly defined class of liquid hydrocarbon mixtures. Included are crude oil, lease condensate, unfinished oils, refined products obtained from the processing of crude oil, and natural gas plant liquids. Note: Volumes of finished petroleum products include nonhydrocarbon compounds, such as additives and detergents, after they have been blended into the products.

Petroleum Coke: See **Coke, Petroleum.**

Petroleum Consumption: See **Products Supplied (Petroleum).**

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 Stocks, Primary: For individual products, quantities that are held at refineries, in pipelines, and at bulk terminals that have a capacity of 50,000 barrels or more, or that are in transit thereto. Stocks held by product retailers and resellers, as well as tertiary stocks held at the point of consumption, are excluded. Stocks of individual products held at gas processing plants are excluded from individual product estimates but are included in other oils estimates and total.

Photovoltaic Energy: Direct-current electricity generated from sunlight through solid-state semiconductor devices that have no moving parts.

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

Plant Condensate: One of the natural gas liquids, mostly pentanes and heavier hydrocarbons, recovered and separated as liquid at gas inlet separators or scrubbers in processing plants.

Primary Consumption: Includes consumption of coal, natural gas, petroleum, nuclear electric power, conventional hydroelectric power, wood, waste, alcohol fuels, geothermal, solar, wind, net imports of coal coke, and net imports of electricity.

Prime Mover: The engine, turbine, water wheel, or similar machine that drives an electric generator; or, for reporting purposes, a device that converts energy to electricity directly.

Products Supplied (Petroleum): Approximately represents consumption of petroleum products because it measures the disappearance of these products from primary sources, i.e., refineries, natural gas-processing plants,

blending plants, pipelines, and bulk terminals. In general, product supplied of each product in any given period is computed as follows: field production, plus refinery production, plus imports, plus unaccounted-for crude oil (plus net receipts when calculated on a PAD District basis) minus stock change, minus crude oil losses, minus refinery inputs, and minus exports.

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.

Real Dollars: These are dollars that have been adjusted for inflation. See **Real Price**.

Real Price: A price that has been adjusted to remove the effect of changes in the purchasing power of the dollar. Real prices, which are expressed in constant dollars, usually reflect buying power relative to a base year.

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.

Refuse Mine: A surface site where **coal** is recovered from previously mined coal. It may also be known as a silt bank, culm bank, refuse bank, slurry dam, or dredge operation.

Refuse Recovery: The recapture of **coal** from a **refuse mine** or the coal recaptured by that process. The resulting product has been cleaned to reduce the concentration of noncombustible materials.

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 **conventional hydroelectric power, wood, waste, alcohol fuels, geothermal, solar, and wind**.

Repressuring: The injection of a pressurized fluid (such as air, gas, or water) into oil and gas reservoir formations to effect greater ultimate recovery.

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

residential sector excludes institutional living quarters. Note: Various EIA programs differ in sectoral coverage—for more information see <http://www.eia.doe.gov/neic/datadefinitions/Guideforwebres.htm>. See **End-Use Sectors** and **Energy-Use Sectors**.

Residual Fuel Oil: The heavier oils that remain after the distillate fuel oils and lighter hydrocarbons are distilled away in refinery operations and that conform to ASTM Specifications D396 and 975. Included are No. 5, a residual fuel oil of medium viscosity; Navy Special, for use in steam-powered vessels in government service and in shore power plants; and No. 6, which includes Bunker C fuel oil and is used for commercial and industrial heating, for electricity generation, and to power ships. Imports of residual fuel oil include imported crude oil burned as fuel.

Road Oil: Any heavy petroleum oil, including residual asphaltic oil used as a dust palliative and surface treatment on roads and highways. It is generally produced in six grades, from 0, the most liquid, to 5, the most viscous.

Rotary Rig: A machine used for drilling wells that employs a rotating tube attached to a bit for boring holes through rock.

Short Ton (Coal): A unit of weight equal to 2,000 pounds.

SIC (Standard Industrial Classification): A set of codes developed by the U.S. Office of Management and Budget which categorizes industries into groups with similar economic activities. Replaced by **NAICS (North American Industry Classification System)**.

Solar Energy: See **Solar Thermal Energy** and **Photovoltaic Energy**.

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

Special Naphthas: All finished products within the naphtha boiling ranges that are used as paint thinner, cleaners or solvents. Those products are refined to a specified flash point. Special naphthas include all commercial hexane and cleaning solvents conforming to ASTM Specifications D1836 and D484, respectively. Naphthas to be blended or marketed as motor gasoline or aviation gasoline, or that are to be used as petrochemical and synthetic natural gas (SNG) feedstocks, are excluded.

Station Use: Energy that is used to operate an **electric power plant**. It includes energy consumed for plant lighting, power, and auxiliary facilities, regardless of whether the energy is produced at the plant or comes from another source.

Steam Coal: All nonmetallurgical coal.

Steam-Electric Power Plant: A plant in which the prime mover is a steam turbine. The steam used to drive the turbine is produced in a boiler where fossil fuels are burned.

Still Gas (Refinery Gas): Any form or mixture of gas produced in refineries by distillation, cracking, reforming, and other processes. The principal constituents are methane, ethane, ethylene, normal butane, butylene, propane, and propylene. It is used primarily as refinery fuel and, petrochemical feedstock.

Stocks: See **Coal Stocks, Crude Oil Stocks, or Petroleum Stocks, Primary.**

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

Subbituminous Coal: A coal whose properties range from those of lignite to those of **bituminous coal** and used primarily as fuel for steam-electric power generation. It may be dull, dark brown to black, soft and crumbly, at the lower end of the range, to bright, jet black, hard, and relatively strong, at the upper end. Subbituminous coal contains 20 to 30 percent inherent moisture by weight. The heat content of subbituminous coal ranges from 17 to 24 million **Btu** per **short ton** on a moist, mineral-matter-free basis. The heat content of subbituminous coal consumed in the United States averages 17 to 18 million Btu per ton, on the as-received basis (i.e., containing both inherent moisture and mineral matter).

Supplemental Gaseous Fuels: Synthetic natural gas, propane-air, coke oven gas, refinery gas, biomass gas, air injected for Btu stabilization, and manufactured gas commingled and distributed with natural gas.

Synthetic Natural Gas (SNG): (Also referred to as substitute natural gas) A manufactured product, chemically similar in most respects to **natural gas**, resulting from the conversion or reforming of **hydrocarbons** that may easily be substituted for or interchanged with pipeline-quality natural gas.

Thermal Conversion Factor: See **Conversion Factor.**

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

<http://www.eia.doe.gov/neic/datadefinitions/Guideforwebtrans.htm>.
See **End-Use Sectors** and **Energy-Use Sectors**

Unaccounted-for Crude Oil: Represents the arithmetic difference between the calculated supply and the calculated disposition of crude oil. The calculated supply is the sum of **crude oil** production plus imports minus 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.

Unfinished Oils: All oils requiring further refinery processing except those requiring only mechanical blending. Includes naphthas and lighter oils, kerosene and light gas oils, heavy gas oils, and residuum.

Unfractionated Stream: Mixtures of unsegregated natural gas liquid components, excluding those in plant condensate. This product is extracted from natural gas.

United States: The 50 States and the District of Columbia. Note: The United States has varying degrees of jurisdiction over a number of territories and other political entities outside the 50 States and the District of Columbia, including Puerto Rico, the U.S. Virgin Islands, Guam, American Samoa, Johnston Atoll, Midway Islands, Wake Island, and the Northern Mariana Islands. EIA data programs may include data from some or all of these areas in U.S. totals. For these programs, data products will contain notes explaining the extent of geographic coverage included under the term "United States."

Useful Thermal Output: The thermal energy made available in a combined-heat-and-power system for use in any industrial or commercial process, heating or cooling application, or delivered to other end users, i.e., total thermal energy made available for processes and applications other than electrical generation.

U.S.S.R.: The Union of Soviet Socialist Republics consisted of 15 constituent republics: Armenia, Azerbaijan, Belarus, Estonia, Georgia, Kazakhstan, Kyrgyzstan, Latvia, Lithuania, Moldova, Russia, Tajikistan, Turkmenistan, Ukraine, and Uzbekistan. As a political entity, the U.S.S.R. ceased to exist as of December 31, 1991.

Vented Natural Gas: Gas released into the air on the production site or at processing plants.

Vessel Bunkering: Includes sales for the fueling of commercial or private boats, such as pleasure craft, fishing boats, tugboats, and ocean-going vessels, including vessels

operated by oil companies. Excluded are volumes sold to the U.S. Armed Forces.

Waste Coal: Usable material that is a byproduct of previous coal processing operations. Waste coal may be relatively clean material composed primarily of coal fines, material in which extraneous noncombustible constituents have been partially removed, or mixed coal, soil, and rock (mine waste) burned as is in unconventional boilers, such as fluidized bed units. Examples include fine coal, coal obtained from a refuse bank or slurry dam, anthracite culm, bituminous gob, and lignite waste.

Waste Energy: Municipal solid waste, landfill gas, methane, digester gas, liquid acetonitrile waste, tall oil, waste alcohol, medical waste, paper pellets, sludge waste, solid byproducts, tires, agricultural byproducts, closed loop biomass, fish oil, and straw used as fuel.

Watt (W): The unit of electrical power equal to one ampere under a pressure of one volt. A watt is equal to 1/746 horsepower.

Watthour (Wh): The electrical energy unit of measure equal to one watt of power supplied to, or taken from, an electric circuit steadily for one hour.

Waxes: Solid or semisolid material derived from petroleum distillates or residues. Waxes are light-colored, more or less translucent crystalline masses, slightly greasy to the touch, consisting of a mixture of solid hydrocarbons in which the paraffin series predominates. Included are all marketable waxes, whether crude scale or fully refined. Waxes are used primarily as industrial coating for surface protection.

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

Wind Energy: Kinetic energy present in wind motion that can be converted to mechanical energy for driving pumps, mills, and electric power generators.

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 volume of gas in a reservoir that is in addition to the base 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 season.