

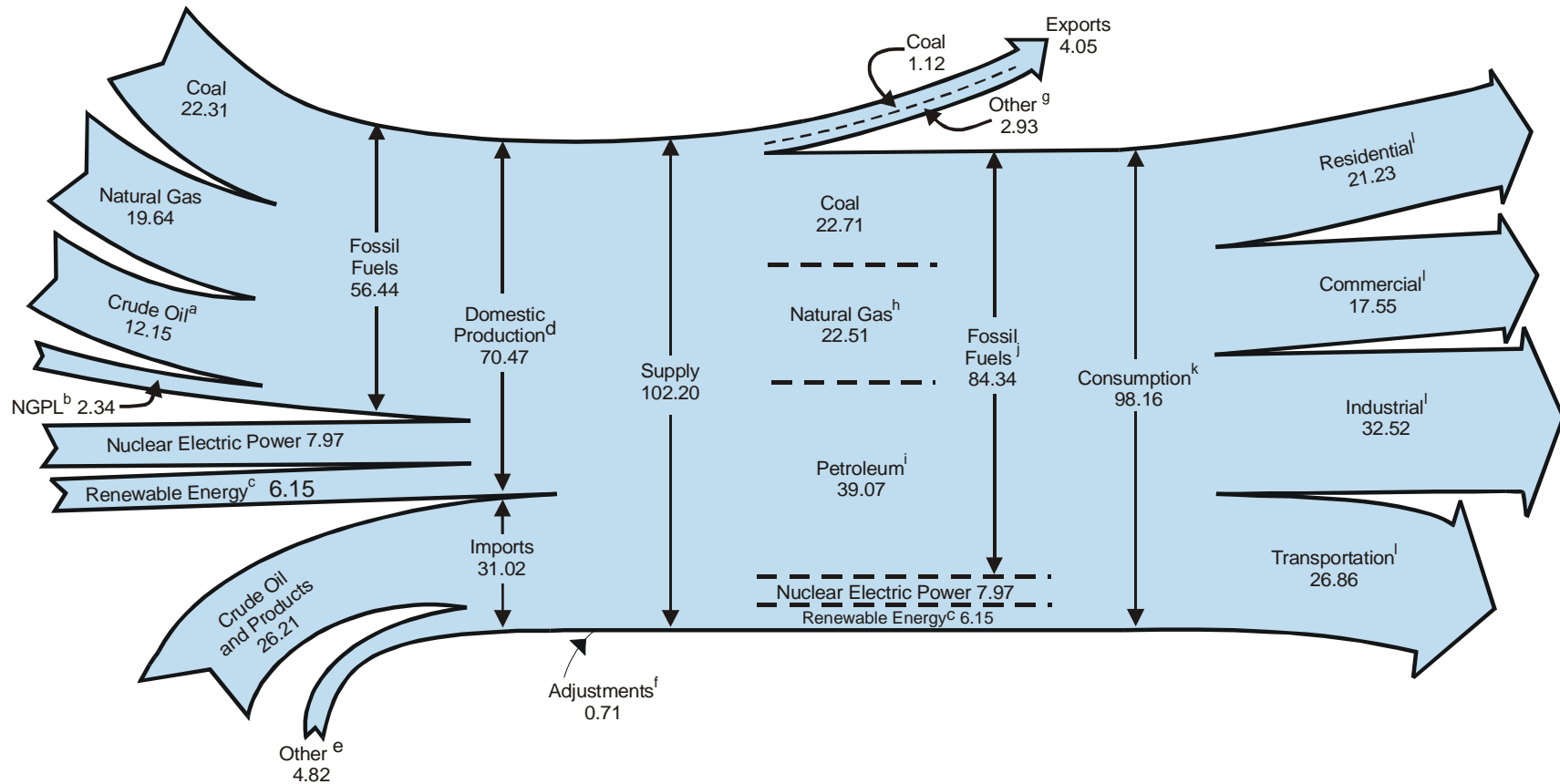
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Energy Overview



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

Diagram 1. Energy Flow, 2003
(Quadrillion Btu)



^a Includes lease condensate.

^b Natural gas plant liquids.

^c Conventional hydroelectric power, wood, waste, ethanol blended into motor gasoline, geothermal, solar, and wind.

^d Includes -0.09 quadrillion Btu hydroelectric pumped storage.

^e Natural gas, coal, coal coke, and electricity.

^f Stock changes, losses, gains, miscellaneous blending components, and unaccounted-for supply.

^g Crude oil, petroleum products, natural gas, electricity, and coal coke.

^h Includes supplemental gaseous fuels.

ⁱ Petroleum products, including natural gas plant liquids.

^j Includes 0.05 quadrillion Btu of coal coke net imports.

^k Includes, in quadrillion Btu, -0.09 hydroelectric pumped storage; -0.24 ethanol blended into motor gasoline, which is accounted for in both fossil fuels and renewable energy but counted only once in total consumption; and 0.02 electricity net imports.

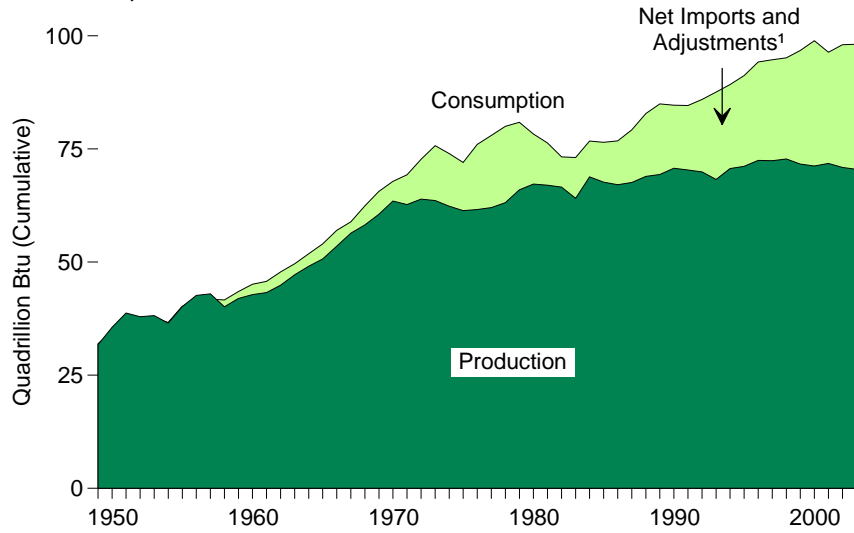
^l Primary consumption, electricity retail sales, and electrical system energy losses, which are allocated to the end-use sectors in proportion to each sector's share of total electricity retail sales. See note at end of Section 2.

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

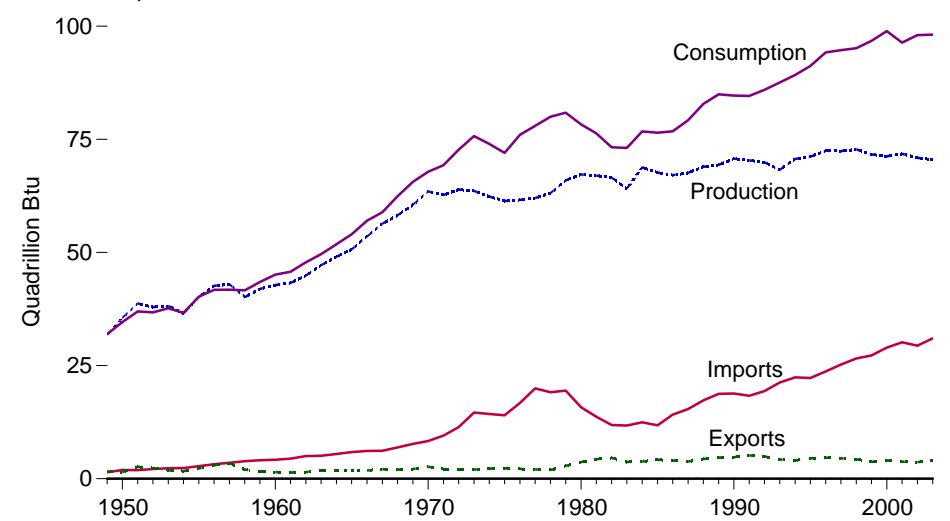
Sources: Tables 1.1, 1.2, 1.3, 1.4, and 2.1a.

Figure 1.1 Energy Overview

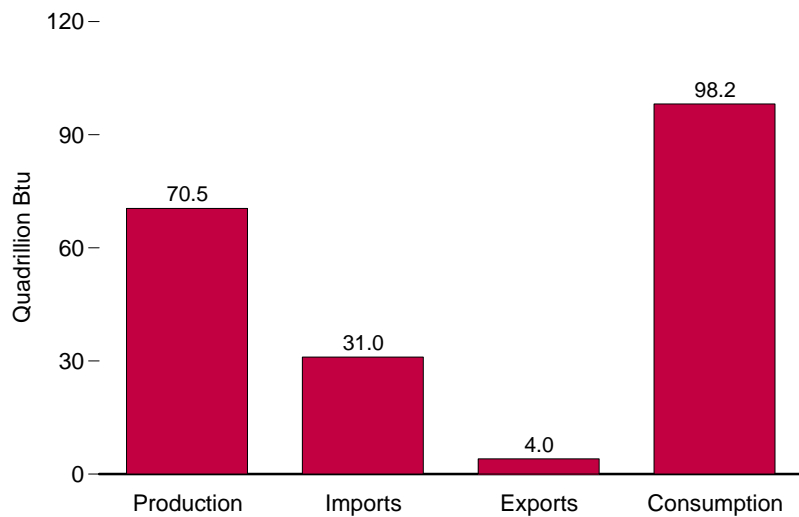
Overview, 1949-2003



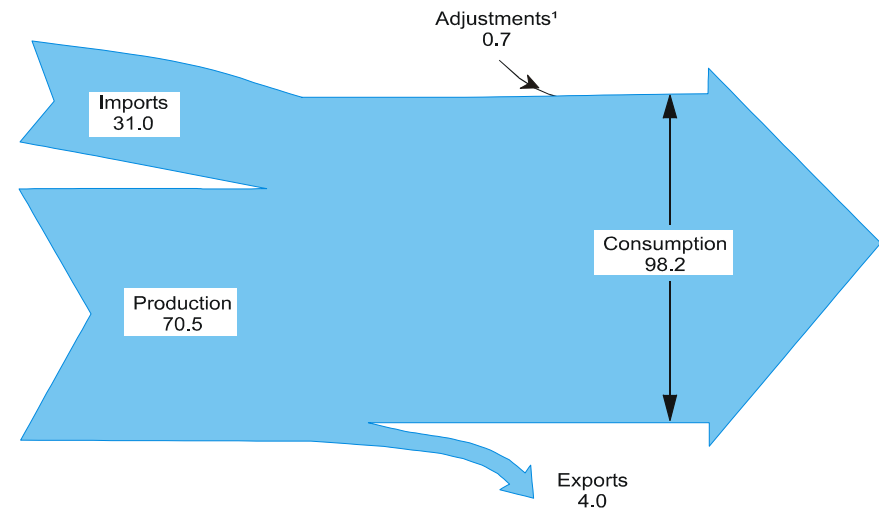
Overview, 1949-2003



Overview, 2003



**Energy Flow, 2003
(Quadrillion Btu)**



¹ Stock changes, losses, gains, miscellaneous blending components, and unaccounted-for supply.

Source: Table 1.1.

Table 1.1 Energy Overview, Selected Years, 1949-2003
(Quadrillion Btu)

Year	Production				Imports		Exports		Adjustments ⁷	Consumption			
	Fossil Fuels ¹	Nuclear Electric Power	Renewable Energy ²	Total ³	Petroleum ⁴	Total ⁵	Coal	Total ⁶		Fossil Fuels ^{8,9}	Nuclear Electric Power	Renewable Energy ^{2,9}	Total ^{9,10}
1949	28.75	0.00	2.97	31.72	1.43	1.45	0.88	1.59	0.40	29.00	0.00	2.97	31.98
1950	32.56	0.00	2.98	35.54	1.89	1.91	0.79	1.47	-1.37	31.63	0.00	2.98	34.62
1955	37.36	0.00	2.78	40.15	2.75	2.79	1.46	2.29	-0.44	37.41	0.00	2.78	40.21
1960	39.87	0.01	2.93	42.80	4.00	4.19	1.02	1.48	-0.43	42.14	0.01	2.93	45.09
1965	47.23	0.04	3.40	50.68	5.40	5.89	1.38	1.83	-0.72	50.58	0.04	3.40	54.02
1970	59.19	0.24	4.08	63.50	7.47	8.34	1.94	2.63	-1.37	63.52	0.24	4.08	67.84
1971	58.04	0.41	4.27	62.72	8.54	9.53	1.55	2.15	-0.82	64.60	0.41	4.27	69.29
1972	58.94	0.58	4.40	63.92	10.30	11.39	1.53	2.12	-0.48	67.70	0.58	4.40	72.70
1973	58.24	0.91	4.43	63.58	13.47	14.61	1.43	2.03	-0.46	70.32	0.91	4.43	75.71
1974	56.33	1.27	4.77	62.37	13.13	14.30	1.62	2.20	-0.48	67.91	1.27	4.77	73.99
1975	54.73	1.90	4.72	61.36	12.95	14.03	1.76	2.32	-1.07	65.35	1.90	4.72	72.00
1976	54.72	2.11	4.77	61.60	15.67	16.76	1.60	2.17	-0.18	69.10	2.11	4.77	76.01
1977	55.10	2.70	4.25	62.05	18.76	19.95	1.44	2.05	-1.95	70.99	2.70	4.25	78.00
1978	55.07	3.02	5.04	63.14	17.82	19.11	1.08	1.92	-0.34	71.86	3.02	5.04	79.99
1979	58.01	2.78	5.17	65.95	17.93	19.46	1.75	2.86	-1.65	72.89	2.78	5.17	80.90
1980	59.01	2.74	5.49	67.24	14.66	15.80	2.42	3.69	-1.05	69.98	2.74	5.49	78.29
1981	58.53	3.01	5.47	67.01	12.64	13.72	2.94	4.31	-0.08	67.75	3.01	5.47	^R 76.34
1982	57.46	3.13	5.99	66.57	10.78	11.86	2.79	4.61	^R -0.57	64.04	3.13	5.99	^R 73.25
1983	54.42	3.20	6.49	64.11	10.65	11.75	2.04	3.69	^R 0.94	63.29	3.20	6.49	^R 73.10
1984	58.85	3.55	6.43	68.83	11.43	12.47	2.15	3.79	^R -0.78	66.62	3.55	6.43	^R 76.74
1985	57.54	4.08	6.03	67.65	10.61	11.78	2.44	4.20	^R 1.24	66.22	4.08	6.03	^R 76.47
1986	56.58	4.38	6.13	67.09	13.20	14.15	2.25	4.02	^R -0.44	66.15	4.38	6.13	^R 76.78
1987	57.17	4.75	5.69	67.61	14.16	15.40	2.09	3.81	^R 0.03	68.63	4.75	5.69	^R 79.23
1988	57.87	5.59	5.49	68.95	15.75	17.30	2.50	4.37	^R 0.96	71.66	5.59	5.49	^R 82.84
1989	57.47	5.60	6.29	69.36	17.16	18.77	2.64	4.66	^R 1.49	73.02	5.60	6.29	^R 84.96
1990	58.53	6.10	6.13	70.73	17.12	18.82	2.77	4.75	^R -0.13	72.46	6.10	6.13	^R 84.67
1991	57.83	6.42	6.16	70.36	16.35	18.33	2.85	5.14	^R 1.04	72.00	6.42	6.16	^R 84.60
1992	57.59	6.48	5.91	69.93	16.97	19.37	2.68	4.94	^R 1.58	73.52	6.48	5.91	^R 85.95
1993	55.74	6.41	6.16	68.26	18.51	21.27	1.96	4.26	^R 2.30	⁹ 75.05	6.41	⁹ 6.16	⁹ 87.58
1994	57.95	6.69	6.06	70.68	19.24	22.39	1.88	4.06	0.24	76.48	6.69	6.06	89.25
1995	57.44	7.08	6.67	71.16	18.88	22.26	2.32	4.51	2.32	77.49	7.08	6.67	91.22
1996	58.28	7.09	7.14	72.47	20.29	23.70	2.37	4.63	2.68	79.98	7.09	7.14	94.22
1997	58.76	6.60	7.08	72.39	21.74	25.22	2.19	4.51	1.64	81.09	6.60	7.08	94.73
1998	59.20	7.07	6.56	72.79	22.91	26.58	2.09	4.30	0.08	81.59	7.07	6.56	95.15
1999	57.51	7.61	6.60	71.65	23.13	27.25	1.53	3.71	1.58	82.65	7.61	6.60	96.77
2000	57.25	7.86	6.16	71.22	24.53	28.97	1.53	4.01	^R 2.72	^R 84.96	7.86	6.16	^R 98.90
2001	^R 58.56	8.03	^R 5.29	^R 71.79	25.40	^R 30.16	1.27	^R 3.77	^R -1.80	^R 83.22	8.03	^R 5.29	^R 96.38
2002	^R 56.91	^R 8.14	^{RP} 5.96	^R 70.93	^R 24.68	^R 29.41	1.03	^R 3.66	^R 1.35	^R 84.10	^R 8.14	^{RP} 5.96	^R 98.03
2003	^P 56.44	^P 7.97	^P 6.15	^P 70.47	^P 26.21	^P 31.02	^P 1.12	^P 4.05	^P 0.71	^P 84.34	^P 7.97	^P 6.15	^P 98.16

¹ Coal, natural gas (dry), crude oil, and natural gas plant liquids.

² Electricity net generation from conventional hydroelectric power, geothermal, solar, and wind; consumption of wood, waste, and alcohol fuels; geothermal heat pump and direct use energy; and solar thermal direct use energy.

³ Also includes hydroelectric pumped storage.

⁴ Crude oil and petroleum products. Includes imports into the Strategic Petroleum Reserve.

⁵ Also includes natural gas, coal, coal coke, and electricity.

⁶ Also includes natural gas, petroleum, coal coke, and electricity.

⁷ A balancing item. Includes stock changes, losses, gains, miscellaneous blending components, and

unaccounted-for supply.

⁸ Coal, coal coke net imports, natural gas, and petroleum.

⁹ Beginning in 1993, ethanol blended into motor gasoline is included in consumption values for both "Fossil Fuels" and "Renewable Energy," but is counted only once in total consumption.

¹⁰ Also includes hydroelectric pumped storage and electricity net imports.

R=Revised. P=Preliminary.

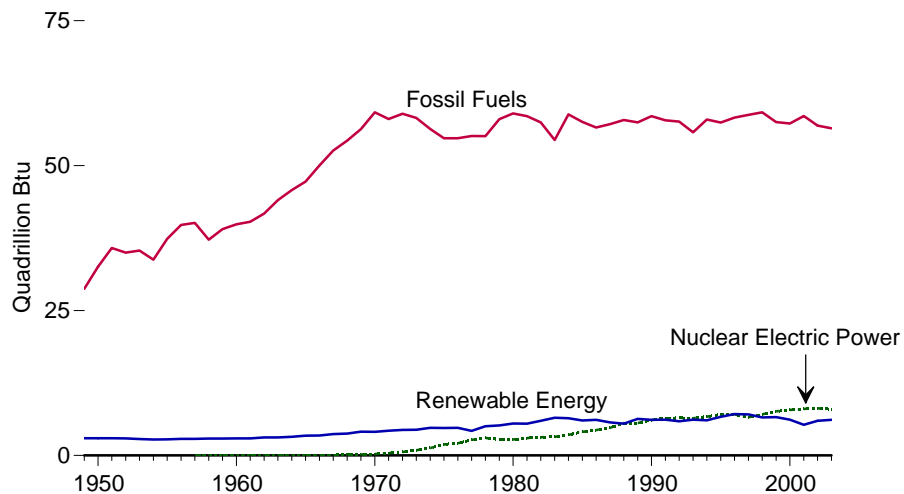
Note: Totals may not equal sum of components due to independent rounding.

Web Page: For data not shown for 1951-1969, see <http://www.eia.doe.gov/emeu/aer/overview.html>.

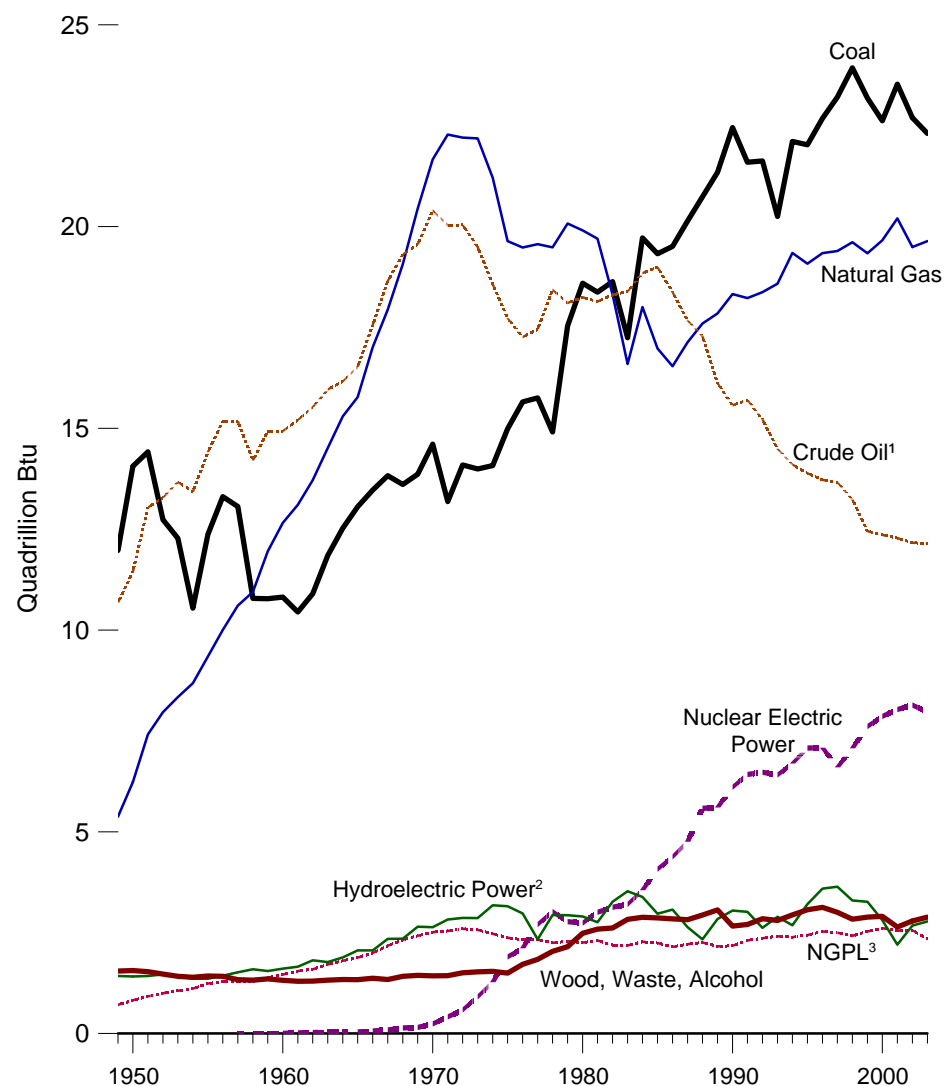
Sources: Tables 1.2, 1.3, and 1.4.

Figure 1.2 Energy Production by Source

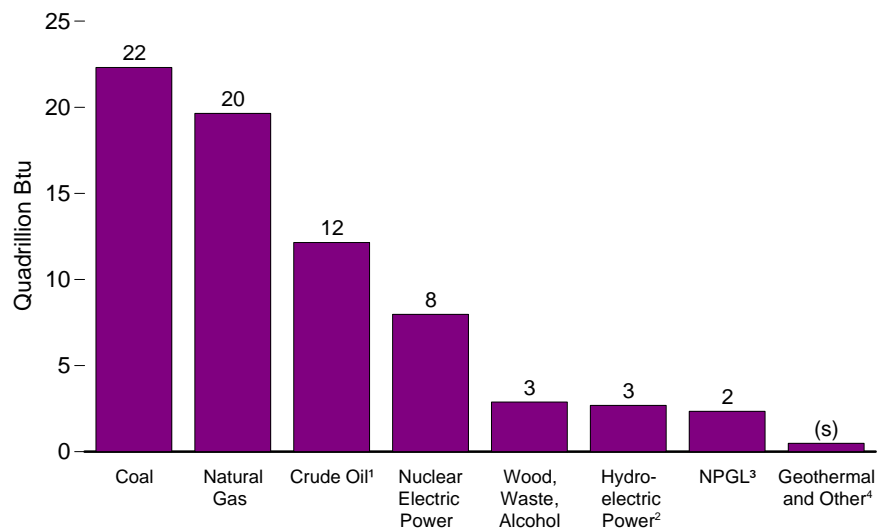
By Fossil Fuels, Nuclear Electric Power, and Renewable Energy, 1949-2003



By Major Source, 1949-2003



By Source, 2003



¹ Includes lease condensate.

² Conventional and pumped-storage hydroelectric power.

³ Natural gas plant liquids.

⁴ Solar and wind.

(s)=Less than 0.5 quadrillion Btu.

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

Source: Table 1.2.

Table 1.2 Energy Production by Source, Selected Years, 1949-2003
(Quadrillion Btu)

Year	Fossil Fuels					Nuclear Electric Power	Hydro-electric Pumped Storage ³	Renewable Energy ¹						Total
	Coal	Natural Gas (Dry)	Crude Oil ²	Natural Gas Plant Liquids	Total			Conventional Hydroelectric Power	Wood, Waste, Alcohol ⁴	Geothermal	Solar	Wind	Total	
1949	11.974	5.377	10.683	0.714	28.748	0.000	(⁵)	1.425	1.549	NA	NA	NA	2.974	31.722
1950	14.060	6.233	11.447	0.823	32.563	0.000	(⁵)	1.415	1.562	NA	NA	NA	2.978	35.540
1955	12.370	9.345	14.410	1.240	37.364	0.000	(⁵)	1.360	1.424	NA	NA	NA	2.784	40.148
1960	10.817	12.656	14.935	1.461	39.869	0.006	(⁵)	1.608	1.320	0.001	NA	NA	2.929	42.804
1965	13.055	15.775	16.521	1.883	47.235	0.043	(⁵)	2.059	1.335	0.004	NA	NA	3.398	50.676
1970	14.607	21.666	20.401	2.512	59.186	0.239	(⁵)	2.634	1.431	0.011	NA	NA	4.076	63.501
1971	13.186	22.280	20.033	2.544	58.042	0.413	(⁵)	2.824	1.432	0.012	NA	NA	4.268	62.723
1972	14.092	22.208	20.041	2.598	58.938	0.584	(⁵)	2.864	1.503	0.031	NA	NA	4.398	63.920
1973	13.992	22.187	19.493	2.569	58.241	0.910	(⁵)	2.861	1.529	0.043	NA	NA	4.433	63.585
1974	14.074	21.210	18.575	2.471	56.331	1.272	(⁵)	3.177	1.540	0.053	NA	NA	4.769	62.372
1975	14.989	19.640	17.729	2.374	54.733	1.900	(⁵)	3.155	1.499	0.070	NA	NA	4.723	61.357
1976	15.654	19.480	17.262	2.327	54.723	2.111	(⁵)	2.976	1.713	0.078	NA	NA	4.768	61.602
1977	15.755	19.565	17.454	2.327	55.101	2.702	(⁵)	2.333	1.838	0.077	NA	NA	4.249	62.052
1978	14.910	19.485	18.434	2.245	55.074	3.024	(⁵)	2.937	2.038	0.064	NA	NA	5.039	63.137
1979	17.540	20.076	18.104	2.286	58.006	2.776	(⁵)	2.931	2.152	0.084	NA	NA	5.166	65.948
1980	18.598	19.908	18.249	2.254	59.008	2.739	(⁵)	2.900	2.485	0.110	NA	NA	5.494	67.241
1981	18.377	19.699	18.146	2.307	58.529	3.008	(⁵)	2.758	2.590	0.123	NA	NA	5.471	67.007
1982	18.639	18.319	18.309	2.191	57.458	3.131	(⁵)	3.266	2.615	0.105	NA	NA	5.985	66.574
1983	17.247	16.593	18.392	2.184	54.416	3.203	(⁵)	3.527	2.831	0.129	NA	(s)	6.488	64.106
1984	19.719	18.008	18.848	2.274	58.849	3.553	(⁵)	3.386	2.880	0.165	(s)	(s)	6.431	68.832
1985	19.325	16.980	18.992	2.241	57.539	4.076	(⁵)	2.970	2.864	0.198	(s)	(s)	6.033	67.647
1986	19.509	16.541	18.376	2.149	56.575	4.380	(⁵)	3.071	2.841	0.219	(s)	(s)	6.132	67.087
1987	20.141	17.136	17.675	2.215	57.167	4.754	(⁵)	2.635	2.823	0.229	(s)	(s)	5.687	67.608
1988	20.738	17.599	17.279	2.260	57.875	5.587	(⁵)	2.334	2.937	0.217	(s)	(s)	5.489	68.951
1989	21.346	17.847	16.117	2.158	57.468	5.602	(⁵)	2.837	3.062	0.317	0.055	0.022	6.294	69.364
1990	22.456	18.326	15.571	2.175	58.529	6.104	-0.036	3.046	2.662	0.336	0.060	0.029	6.133	70.729
1991	21.594	18.229	15.701	2.306	57.829	6.422	-0.047	3.016	2.702	0.346	0.063	0.031	6.158	70.362
1992	21.629	18.375	15.223	2.363	57.590	6.479	-0.043	2.617	2.847	0.349	0.064	0.030	5.907	69.933
1993	20.249	18.584	14.494	2.408	55.736	6.410	-0.042	2.892	^R 2.803	0.364	0.066	0.031	^R 6.156	^R 68.260
1994	22.111	19.348	14.103	2.391	57.952	6.694	-0.035	2.683	2.939	0.338	0.069	0.036	6.065	70.676
1995	22.029	19.082	13.887	2.442	57.440	7.075	-0.028	3.205	3.068	0.294	0.070	0.033	6.669	71.156
1996	22.684	19.344	13.723	2.530	58.281	7.087	-0.032	3.590	3.127	0.316	0.071	0.033	7.137	72.472
1997	23.211	19.394	13.658	2.495	58.758	6.597	-0.041	3.640	3.006	0.325	0.070	0.034	7.075	72.389
1998	23.935	19.613	13.235	2.420	59.204	7.068	-0.046	3.297	2.835	0.328	0.070	0.031	6.561	72.787
1999	23.186	19.341	12.451	2.528	57.505	7.610	-0.062	3.268	2.885	0.331	0.069	0.046	6.599	71.652
2000	22.623	19.662	12.358	2.611	57.254	7.862	-0.057	2.811	2.907	0.317	0.066	0.057	6.158	71.218
2001	^R 23.529	^R 20.205	12.282	2.547	^R 58.563	^R 8.033	-0.090	2.201	^R 2.640	0.311	0.065	0.068	^R 5.286	^R 71.792
2002	^R 22.698	^R 19.495	^R 12.163	^R 2.559	^R 56.915	^R 8.143	^{RP} -0.088	^{RP} 2.675	^R 2.791	^R 0.328	^P 0.064	^{RP} 0.105	^{RP} 5.963	^R 70.933
2003	^P 22.311	^P 19.641	^P 12.145	^P 2.343	^P 56.440	^P 7.973	^P -0.088	^P 2.779	^P 2.884	^P 0.314	^P 0.063	^P 0.108	^P 6.150	^P 70.474

¹ Electricity net generation from conventional hydroelectric power, geothermal, solar, and wind; consumption of wood, waste, and alcohol fuels; geothermal heat pump and direct use energy; and solar thermal direct use energy.

² Includes lease condensate.

³ Pumped storage facility production minus energy used for pumping.

⁴ "Alcohol" is ethanol blended into motor gasoline.

⁵ Included in "Conventional Hydroelectric Power."

R=Revised. P=Preliminary. NA=Not available. (s)=Less than 0.0005 quadrillion Btu.

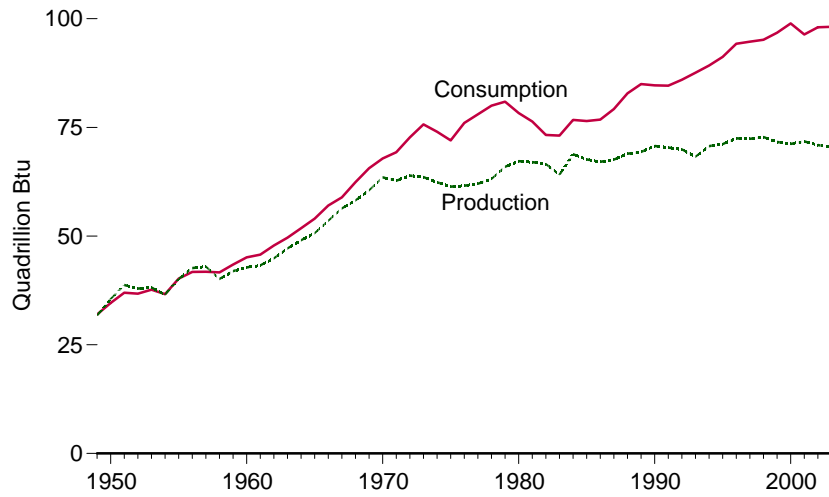
Note: Totals may not equal sum of components due to independent rounding.

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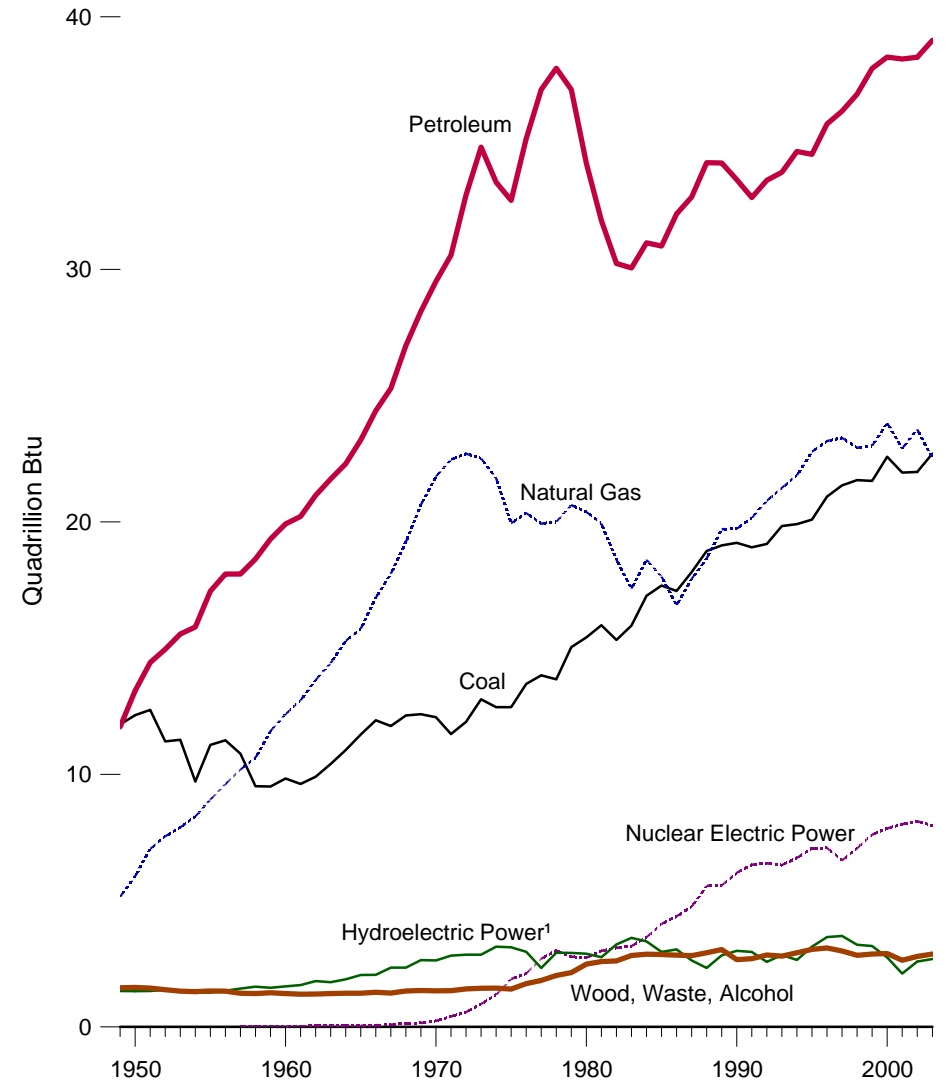
Sources: Tables 5.1, 6.1, 7.1, 8.2a, 10.1, A2, A4, A5, and A6.

Figure 1.3 Energy Consumption by Source

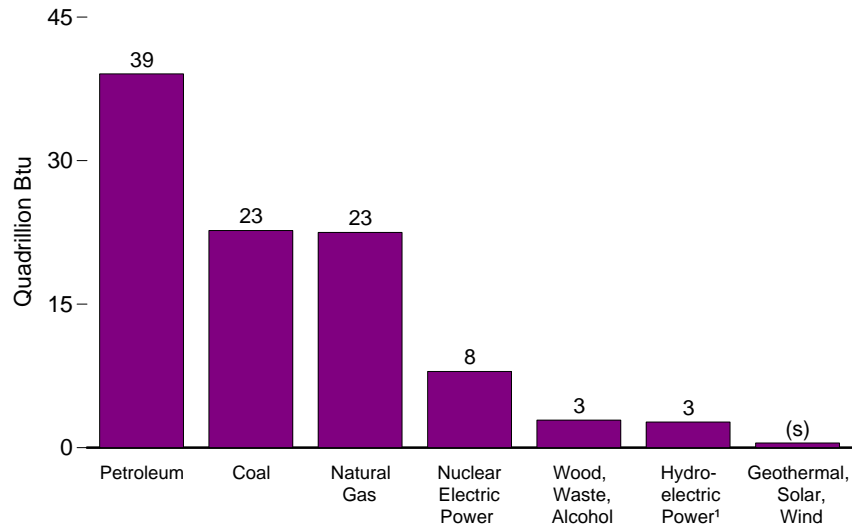
Production and Consumption, 1949-2003



By Major Source, 1949-2003



By Source, 2003



¹ Conventional and pumped-storage hydroelectric power.
(s)= Less than 0.5 quadrillion Btu.

Note: Because vertical scales differ, graphs should not be compared.
Sources: Tables 1.2 and 1.3.

Table 1.3 Energy Consumption by Source, Selected Years, 1949-2003
(Quadrillion Btu)

Year	Fossil Fuels					Nuclear Electric Power	Hydro-electric Pumped Storage ⁵	Renewable Energy ¹						Electricity Net Imports	Total ^{4,6}
	Coal	Coal Coke Net Imports	Natural Gas ²	Petroleum ^{3,4}	Total			Conventional Hydroelectric Power	Wood, Waste, Alcohol ^{4,6}	Geothermal	Solar	Wind	Total		
1949	11.981	-0.007	5.145	11.883	29.002	0.000	(⁷)	1.425	1.549	NA	NA	NA	2.974	0.005	31.982
1950	12.347	0.001	5.968	13.315	31.632	0.000	(⁷)	1.415	1.562	NA	NA	NA	2.978	0.006	34.616
1955	11.167	-0.010	8.998	17.255	37.410	0.000	(⁷)	1.360	1.424	NA	NA	NA	2.784	0.014	40.208
1960	9.838	-0.006	12.385	19.919	42.137	0.006	(⁷)	1.608	1.320	0.001	NA	NA	2.929	0.015	45.087
1965	11.581	-0.018	15.769	23.246	50.577	0.043	(⁷)	2.059	1.335	0.004	NA	NA	3.398	(s)	54.017
1970	12.265	-0.058	21.795	29.521	63.522	0.239	(⁷)	2.634	1.431	0.011	NA	NA	4.076	0.007	67.844
1971	11.598	-0.033	22.469	30.561	64.596	0.413	(⁷)	2.824	1.432	0.012	NA	NA	4.268	0.012	69.289
1972	12.077	-0.026	22.698	32.947	67.696	0.584	(⁷)	2.864	1.503	0.031	NA	NA	4.398	0.026	72.704
1973	12.971	-0.007	22.512	34.840	70.316	0.910	(⁷)	2.861	1.529	0.043	NA	NA	4.433	0.049	75.708
1974	12.663	0.056	21.732	33.455	67.906	1.272	(⁷)	3.177	1.540	0.053	NA	NA	4.769	0.043	73.991
1975	12.663	0.014	19.948	32.731	65.355	1.900	(⁷)	3.155	1.499	0.070	NA	NA	4.723	0.021	71.999
1976	13.584	(s)	20.345	35.175	69.104	2.111	(⁷)	2.976	1.713	0.078	NA	NA	4.768	0.029	76.012
1977	13.922	0.015	19.931	37.122	70.989	2.702	(⁷)	2.333	1.838	0.077	NA	NA	4.249	0.059	78.000
1978	13.766	0.125	20.000	37.965	71.856	3.024	(⁷)	2.937	2.038	0.064	NA	NA	5.039	0.067	79.986
1979	15.040	0.063	20.666	37.123	72.892	2.776	(⁷)	2.931	2.152	0.084	NA	NA	5.166	0.069	80.903
1980	15.423	-0.035	20.394	34.202	69.984	2.739	(⁷)	2.900	2.485	0.110	NA	NA	5.494	0.071	78.289
1981	15.908	-0.016	19.928	31.931	67.750	3.008	(⁷)	2.758	2.590	0.123	NA	NA	5.471	0.113	^R 76.342
1982	15.322	-0.022	18.505	30.232	64.037	3.131	(⁷)	3.266	2.615	0.105	NA	NA	5.985	0.100	^R 73.253
1983	15.894	-0.016	17.357	30.054	63.290	3.203	(⁷)	3.527	2.831	0.129	NA	(s)	6.488	0.121	^R 73.101
1984	17.071	-0.011	18.507	31.051	66.617	3.553	(⁷)	3.386	2.880	0.165	(s)	(s)	6.431	0.135	^R 76.736
1985	17.478	-0.013	17.834	30.922	66.221	4.076	(⁷)	2.970	2.864	0.198	(s)	(s)	6.033	0.140	^R 76.469
1986	17.260	-0.017	16.708	32.196	66.148	4.380	(⁷)	3.071	2.841	0.219	(s)	(s)	6.132	0.122	^R 76.782
1987	18.008	0.009	17.744	32.865	68.626	4.754	(⁷)	2.635	2.823	0.229	(s)	(s)	5.687	0.158	^R 79.225
1988	18.846	0.040	18.552	34.222	71.660	5.587	(⁷)	2.334	2.937	0.217	(s)	(s)	5.489	0.108	^R 82.844
1989	19.070	0.030	19.712	34.211	73.023	5.602	(⁷)	2.837	3.062	0.317	0.055	0.022	6.294	0.037	^R 84.957
1990	19.173	0.005	19.730	33.553	72.460	6.104	-0.036	3.046	2.662	0.336	0.060	0.029	6.133	0.008	^R 84.668
1991	18.992	0.010	20.149	32.845	71.996	6.422	-0.047	3.016	2.702	0.346	0.063	0.031	6.158	0.067	^R 84.595
1992	19.122	0.035	20.835	33.527	73.519	6.479	-0.043	2.617	2.847	0.349	0.064	0.030	5.907	0.087	^R 85.949
1993	19.835	0.027	21.351	⁴ 33.841	75.055	6.410	-0.042	2.892	^{4R} 2.803	0.364	0.066	0.031	^R 6.156	0.095	^{4R} 87.578
1994	19.909	0.058	21.842	34.670	76.480	6.694	-0.035	2.683	2.939	0.338	0.069	0.036	6.065	0.153	89.248
1995	20.089	0.061	22.784	34.553	77.488	7.075	-0.028	3.205	3.068	0.294	0.070	0.033	6.669	0.134	91.221
1996	21.002	0.023	23.197	35.757	79.978	7.087	-0.032	3.590	3.127	0.316	0.071	0.033	7.137	0.137	94.224
1997	21.445	0.046	23.329	36.266	81.086	6.597	-0.041	3.640	3.006	0.325	0.070	0.034	7.075	0.116	94.727
1998	21.656	0.067	22.936	36.934	81.592	7.068	-0.046	3.297	2.835	0.328	0.070	0.031	6.561	0.088	95.146
1999	21.623	0.058	23.010	37.960	82.650	7.610	-0.062	3.268	2.885	0.331	0.069	0.046	6.599	0.099	96.774
2000	22.580	0.065	^R 23.916	38.404	^R 84.965	7.862	-0.057	2.811	2.907	0.317	0.066	0.057	6.158	^R 0.115	^R 98.905
2001	^R 21.952	^R 0.029	^R 22.906	38.333	^R 83.221	^R 8.033	-0.090	2.201	^R 2.640	0.311	0.065	0.068	^R 5.286	0.075	^R 96.378
2002	^R 21.980	^R 0.061	^R 23.662	^R 38.401	^R 84.104	^R 8.143	^{RP} -0.088	^{RP} 2.675	^R 2.791	^R 0.328	^P 0.064	^{RP} 0.105	^{RP} 5.963	0.078	^R 98.026
2003	^P 22.707	^P 0.051	^P 22.507	^P 39.074	^P 84.338	^P 7.973	^P -0.088	^P 2.779	^P 2.884	^P 0.314	^P 0.063	^P 0.108	^P 6.150	^P 0.022	^P 98.156

¹ Electricity net generation from conventional hydroelectric power, geothermal, solar, and wind; consumption of wood, waste, and alcohol fuels; geothermal heat pump and direct use energy; and solar thermal direct use energy.

² Natural gas, plus a small amount of supplemental gaseous fuels that cannot be identified separately.

³ Petroleum products supplied, including natural gas plant liquids and crude oil burned as fuel. Beginning in 1993, also includes ethanol blended into motor gasoline.

⁴ Beginning in 1993, ethanol blended into motor gasoline is included in both "Petroleum" and "Wood, Waste, Alcohol," but is counted only once in total consumption.

⁵ Pumped storage facility production minus energy used for pumping.

⁶ "Alcohol" is ethanol blended into motor gasoline.

⁷ Included in "Conventional Hydroelectric Power."

R=Revised. P=Preliminary. NA=Not available. (s)=Less than 0.0005 and greater than -0.0005 quadrillion Btu.

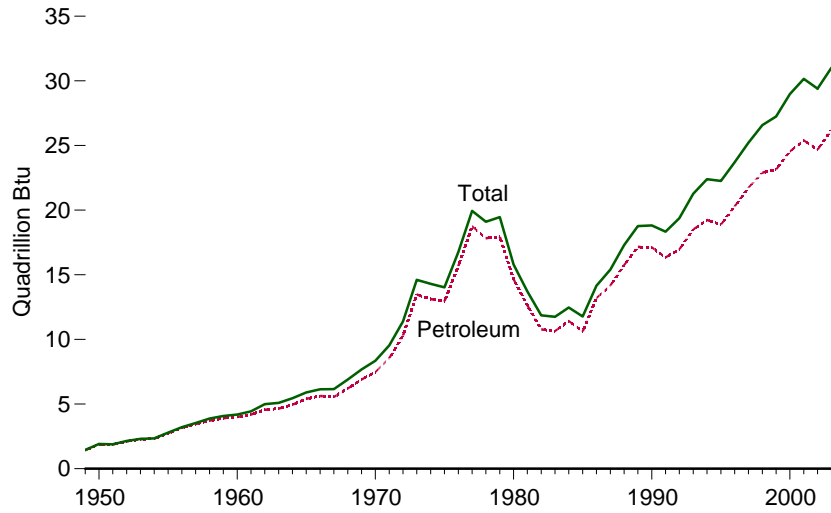
Notes: • See Table E1 for estimated energy consumption for 1635-1945. • See Note 3, "Electricity Imports and Exports," at end of Section 8. • Totals may not equal sum of components due to independent rounding.

Web Page: For data not shown for 1951-1969, see <http://www.eia.doe.gov/emeu/aer/overview.html>.

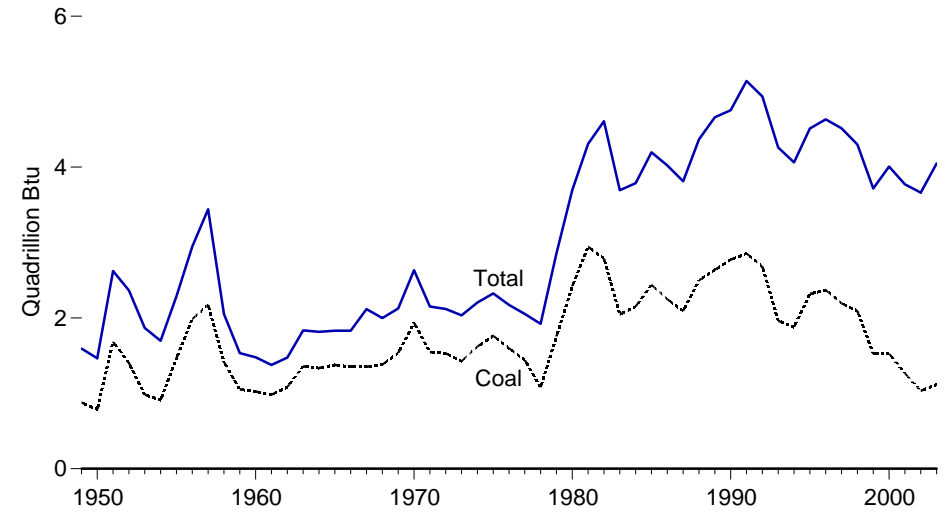
Sources: Tables 5.12, 6.1, 7.1, 7.7, 8.1, 8.2a, 10.1, A4, A5, and A6.

Figure 1.4 Energy Imports, Exports, and Net Imports, 1949-2003

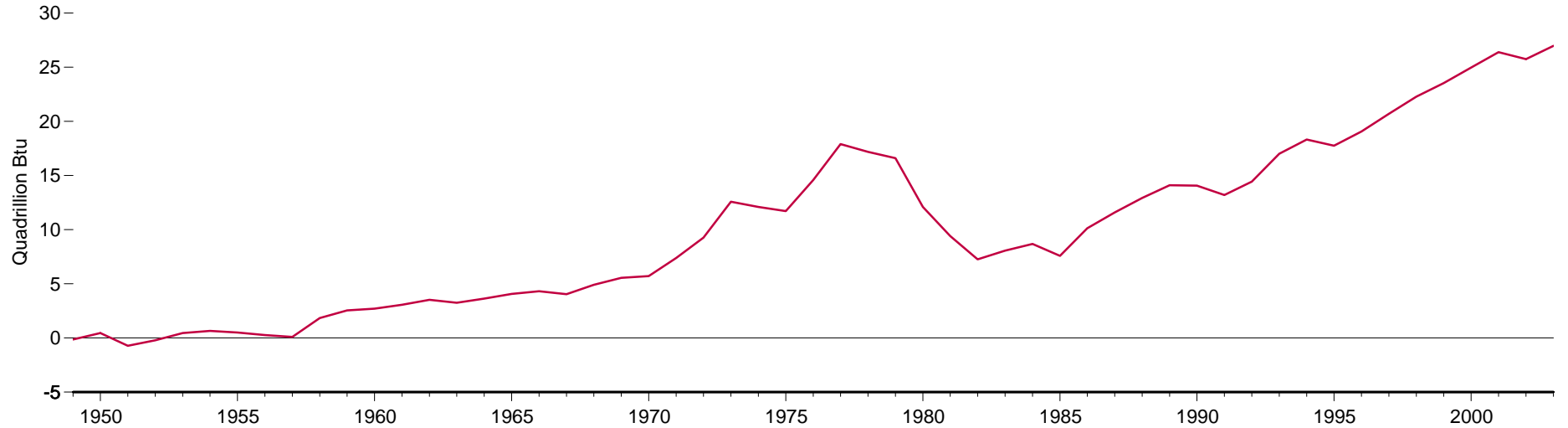
Energy Imports



Energy Exports



Energy Net Imports



Notes: • Negative net imports are net exports. • Because vertical scales differ, graphs should not be compared.

Source: Table 1.4.

Table 1.4 Energy Imports, Exports, and Net Imports, Selected Years, 1949-2003
(Quadrillion Btu)

Year	Imports					Exports					Net Imports				
	Coal	Natural Gas	Petroleum ¹	Other ²	Total	Coal	Natural Gas	Petroleum	Other ²	Total	Coal	Natural Gas	Petroleum ¹	Other ²	Total
1949	0.01	0.00	1.43	0.01	1.45	0.88	0.02	0.68	0.01	1.59	-0.87	-0.02	0.75	(s)	-0.14
1950	0.01	0.00	1.89	0.02	1.91	0.79	0.03	0.64	0.01	1.47	-0.78	-0.03	1.24	0.01	0.45
1955	0.01	0.01	2.75	0.02	2.79	1.46	0.03	0.77	0.01	2.29	-1.46	-0.02	1.98	(s)	0.50
1960	0.01	0.16	4.00	0.02	4.19	1.02	0.01	0.43	0.01	1.48	-1.02	0.15	3.57	0.01	2.71
1965	(s)	0.47	5.40	0.01	5.89	1.38	0.03	0.39	0.03	1.83	-1.37	0.44	5.01	-0.02	4.06
1970	(s)	0.85	7.47	0.02	8.34	1.94	0.07	0.55	0.08	2.63	-1.93	0.77	6.92	-0.05	5.71
1971	(s)	0.96	8.54	0.03	9.53	1.55	0.08	0.47	0.05	2.15	-1.54	0.88	8.07	-0.02	7.38
1972	(s)	1.05	10.30	0.04	11.39	1.53	0.08	0.47	0.04	2.12	-1.53	0.97	9.83	(s)	9.27
1973	(s)	1.06	13.47	0.08	14.61	1.43	0.08	0.49	0.04	2.03	-1.42	0.98	12.98	0.04	12.58
1974	0.05	0.99	13.13	0.14	14.30	1.62	0.08	0.46	0.04	2.20	-1.57	0.91	12.66	0.10	12.10
1975	0.02	0.98	12.95	0.08	14.03	1.76	0.07	0.44	0.05	2.32	-1.74	0.90	12.51	0.03	11.71
1976	0.03	0.99	15.67	0.07	16.76	1.60	0.07	0.47	0.04	2.17	-1.57	0.92	15.20	0.03	14.59
1977	0.04	1.04	18.76	0.11	19.95	1.44	0.06	0.51	0.04	2.05	-1.40	0.98	18.24	0.07	17.90
1978	0.07	0.99	17.82	0.21	19.11	1.08	0.05	0.77	0.02	1.92	-1.00	0.94	17.06	0.19	17.19
1979	0.05	1.30	17.93	0.18	19.46	1.75	0.06	1.00	0.04	2.86	-1.70	1.24	16.93	0.13	16.60
1980	0.03	1.01	14.66	0.10	15.80	2.42	0.05	1.16	0.07	3.69	-2.39	0.96	13.50	0.04	12.10
1981	0.03	0.92	12.64	0.14	13.72	2.94	0.06	1.26	0.04	4.31	-2.92	0.86	11.38	0.10	9.41
1982	0.02	0.95	10.78	0.12	11.86	2.79	0.05	1.73	0.04	4.61	-2.77	0.90	9.05	0.08	7.25
1983	0.03	0.94	10.65	0.13	11.75	2.04	0.06	1.57	0.03	3.69	-2.01	0.89	9.08	0.10	8.06
1984	0.03	0.85	11.43	0.16	12.47	2.15	0.06	1.54	0.03	3.79	-2.12	0.79	9.89	0.12	8.68
1985	0.05	0.95	10.61	0.17	11.78	2.44	0.06	1.66	0.04	4.20	-2.39	0.90	8.95	0.13	7.58
1986	0.06	0.75	13.20	0.15	14.15	2.25	0.06	1.67	0.04	4.02	-2.19	0.69	11.53	0.11	10.13
1987	0.04	0.99	14.16	0.20	15.40	2.09	0.05	1.63	0.03	3.81	-2.05	0.94	12.53	0.17	11.59
1988	0.05	1.30	15.75	0.20	17.30	2.50	0.07	1.74	0.05	4.37	-2.45	1.22	14.01	0.15	12.93
1989	0.07	1.39	17.16	0.15	18.77	2.64	0.11	1.84	0.08	4.66	-2.57	1.28	15.33	0.07	14.11
1990	0.07	1.55	17.12	0.08	18.82	2.77	0.09	1.82	0.07	4.75	-2.70	1.46	15.29	0.01	14.06
1991	0.08	1.80	16.35	0.10	18.33	2.85	0.13	2.13	0.03	5.14	-2.77	1.67	14.22	0.08	13.19
1992	0.10	2.16	16.97	0.15	19.37	2.68	0.22	2.01	0.03	4.94	-2.59	1.94	14.96	0.12	14.44
1993	0.20	2.40	18.51	0.16	21.27	1.96	0.14	2.12	0.04	4.26	-1.76	2.25	16.40	0.12	17.01
1994	0.22	2.68	19.24	0.24	22.39	1.88	0.16	1.99	0.03	4.06	-1.66	2.52	17.26	0.21	18.33
1995	0.24	2.90	18.88	0.24	22.26	2.32	0.16	1.99	0.05	4.51	-2.08	2.74	16.89	0.19	17.75
1996	0.20	3.00	20.29	0.21	23.70	2.37	0.16	2.06	0.05	4.63	-2.17	2.85	18.23	0.16	19.07
1997	0.19	3.06	21.74	0.22	25.22	2.19	0.16	2.10	0.06	4.51	-2.01	2.90	19.64	0.16	20.70
1998	0.22	3.22	22.91	0.23	26.58	2.09	0.16	1.97	0.07	4.30	-1.87	3.06	20.94	0.16	22.28
1999	0.23	3.66	23.13	0.23	27.25	1.53	0.16	1.95	0.07	3.71	-1.30	3.50	21.18	0.16	23.54
2000	0.31	3.87	24.53	0.26	28.97	1.53	0.25	2.15	0.08	4.01	-1.21	3.62	22.38	0.18	24.97
2001	0.49	4.07	25.40	0.19	^R 30.16	1.27	0.38	2.04	^R 0.09	^R 3.77	-0.77	3.69	23.36	^R 0.10	26.39
2002	0.42	4.10	^R 24.68	0.20	^R 29.41	1.03	0.52	2.04	^R 0.07	^R 3.66	-0.61	3.58	^R 22.63	0.14	^R 25.74
2003 ^P	0.63	4.02	26.21	0.17	31.02	1.12	0.70	2.13	0.10	4.05	-0.49	3.32	24.07	0.07	26.97

¹ Includes imports into the Strategic Petroleum Reserve, which began in 1977.

² Coal coke and small amounts of electricity transmitted across U.S. borders with Canada and Mexico.

R=Revised. P=Preliminary. (s)=Less than 0.005 quadrillion Btu and greater than -0.005 quadrillion Btu.

Notes: • Includes trade between the United States (50 States and the District of Columbia) and its

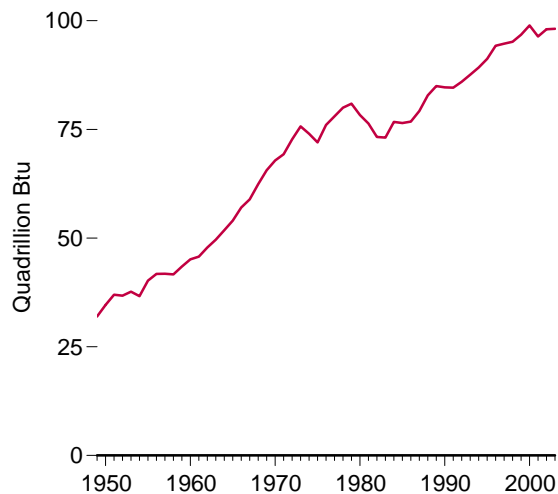
territories and possessions. • See Note 3, "Electricity Imports and Exports," at end of Section 8. • Totals or net import items may not equal sum of components due to independent rounding.

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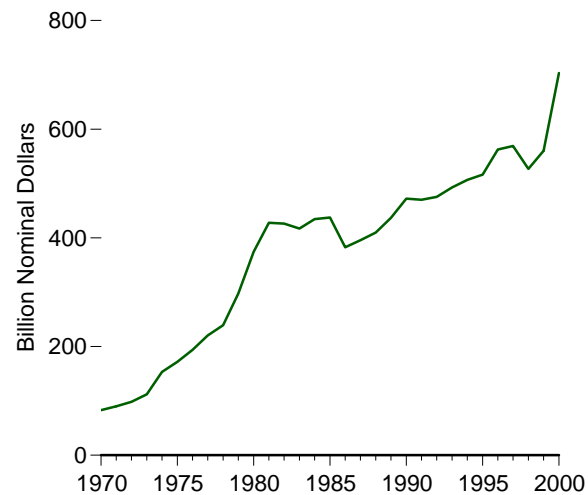
Sources: Tables 5.1, 6.1, 7.1, 7.7, 8.1, A2, A4, A5, and A6.

Figure 1.5 Energy Consumption and Expenditures Indicators

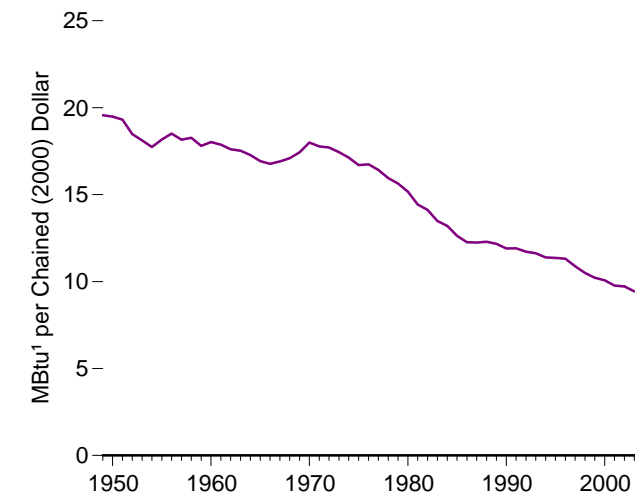
Energy Consumption, 1949-2003



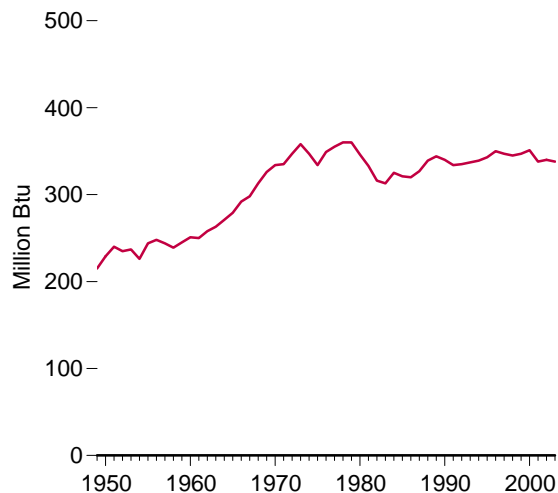
Energy Expenditures, 1970-2000



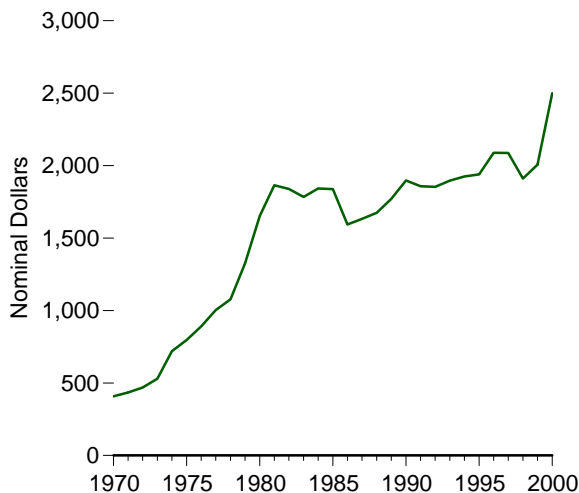
Energy Consumption per Dollar of Gross Domestic Product, 1949-2003



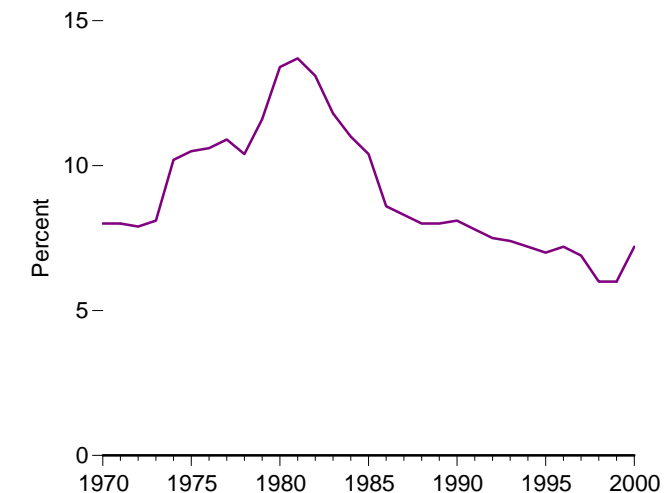
Energy Consumption per Person, 1949-2003



Energy Expenditures per Person, 1970-2000



Energy Expenditures as Share of Gross Domestic Product, 1970-2000



¹ Thousand Btu.

Source: Table 1.5.

Table 1.5 Energy Consumption, Expenditures, and Emissions Indicators, Selected Years

Year	Energy Consumption	Energy Consumption per Person	Energy Expenditures	Energy Expenditures per Person	Gross Domestic Product (GDP)	Energy Expenditures as Share of GDP	Gross Domestic Product (GDP)	Energy Consumption per Dollar of GDP	Greenhouse Gas Emissions ¹ per Dollar of GDP	Carbon Dioxide Emissions ² per Dollar of GDP
	Quadrillion Btu	Million Btu	Million Nominal Dollars	Nominal Dollars	Billion Nominal Dollars	Percent	Billion Chained (2000) Dollars	Thousand Btu per Chained (2000) Dollar	Metric Tons Carbon Dioxide Equivalent per Million Chained (2000) Dollars	Metric Tons Carbon Dioxide per Million Chained (2000) Dollars
1949	31.98	215	NA	NA	R267.3	NA	R1,634.6	R19.57	NA	NA
1950	34.62	229	NA	NA	R293.8	NA	R1,777.3	R19.48	NA	NA
1955	40.21	244	NA	NA	R414.8	NA	R2,212.8	R18.17	NA	NA
1960	45.09	251	NA	NA	R526.4	NA	R2,501.8	R18.02	NA	NA
1965	54.02	279	NA	NA	R719.1	NA	R3,191.1	R16.93	NA	NA
1970	67.84	334	82,898	408	R1,038.5	8.0	R3,771.9	R17.99	NA	NA
1971	69.29	335	90,051	435	R1,127.1	8.0	R3,898.6	R17.77	NA	NA
1972	72.70	347	98,088	469	R1,238.3	7.9	R4,105.0	R17.71	NA	NA
1973	75.71	358	111,910	529	R1,382.7	8.1	R4,341.5	R17.44	NA	NA
1974	73.99	347	153,350	719	R1,500.0	10.2	R4,319.6	R17.13	NA	NA
1975	72.00	334	171,802	797	R1,638.3	10.5	R4,311.2	R16.70	NA	NA
1976	76.01	349	193,852	891	R1,825.3	10.6	R4,540.9	R16.74	NA	NA
1977	78.00	355	220,391	1,003	R2,030.9	R10.9	R4,750.5	R16.42	NA	NA
1978	79.99	360	239,175	1,077	R2,294.7	10.4	R5,015.0	R15.95	NA	NA
1979	80.90	360	297,518	1,325	R2,563.3	11.6	R5,173.4	R15.64	NA	NA
1980	78.29	346	374,319	1,652	R2,789.5	13.4	R5,161.7	R15.17	R1,068	R917
1981	R76.34	333	427,697	1,864	R3,128.4	13.7	R5,291.7	R14.43	R1,023	R872
1982	R73.25	316	426,109	1,839	R3,255.0	13.1	R5,189.3	R14.12	R989	R843
1983	R73.10	313	417,047	1,784	R3,536.7	11.8	R5,423.8	R13.48	R942	R800
1984	R76.74	325	434,379	1,842	R3,933.2	11.0	R5,813.6	R13.20	R928	R788
1985	R76.47	321	437,271	1,838	R4,220.3	10.4	R6,053.7	R12.63	R912	R755
1986	R76.78	R320	382,741	1,594	R4,462.8	8.6	R6,263.6	R12.26	R882	R731
1987	R79.23	327	395,730	1,633	R4,739.5	8.3	R6,475.1	R12.24	R878	R732
1988	R82.84	339	409,572	1,675	R5,103.8	8.0	R6,742.7	R12.29	R877	R735
1989	R84.96	344	436,752	1,770	R5,484.4	8.0	R6,981.4	R12.17	R862	R721
1990	R84.67	340	472,214	1,898	R5,803.1	8.1	R7,112.5	R11.90	R865	R701
1991	R84.60	334	470,095	1,858	R5,995.9	R7.8	R7,100.5	R11.91	R860	R696
1992	R85.95	335	475,298	1,853	R6,337.7	7.5	R7,336.6	R11.72	R850	R687
1993	87.58	337	492,816	1,896	R6,657.4	7.4	R7,532.7	R11.63	R840	R681
1994	89.25	339	506,553	1,925	R7,072.2	7.2	R7,835.5	R11.39	R820	R664
1995	91.22	343	516,207	1,939	R7,397.7	7.0	R8,031.7	R11.36	R806	R654
1996	94.22	350	562,600	2,088	R7,816.9	7.2	R8,328.9	R11.31	R798	R654
1997	94.73	347	569,011	2,087	R8,304.3	R6.9	R8,703.5	R10.88	R770	R633
1998	95.15	345	527,028	1,911	R8,747.0	6.0	R9,066.9	R10.49	R741	R612
1999	96.77	347	560,161	2,007	R9,268.4	6.0	R9,470.3	R10.22	R718	R595
2000	R98.90	R351	703,188	2,499	R9,817.0	7.2	R9,817.0	R10.07	R709	R591
2001	R96.38	338	NA	NA	R10,100.8	NA	R9,866.6	R9.77	R692	R577
2002	R98.03	R340	NA	NA	R10,480.8	NA	R10,083.0	R9.72	681	568
2003 ^P	98.16	338	NA	NA	10,987.9	NA	10,398.0	9.44	NA	NA

¹ Greenhouse gas emissions from anthropogenic sources. See Table 12.1.

² Carbon dioxide emissions from energy consumption. See Table 12.2

R=Revised. P=Preliminary. NA=Not available.

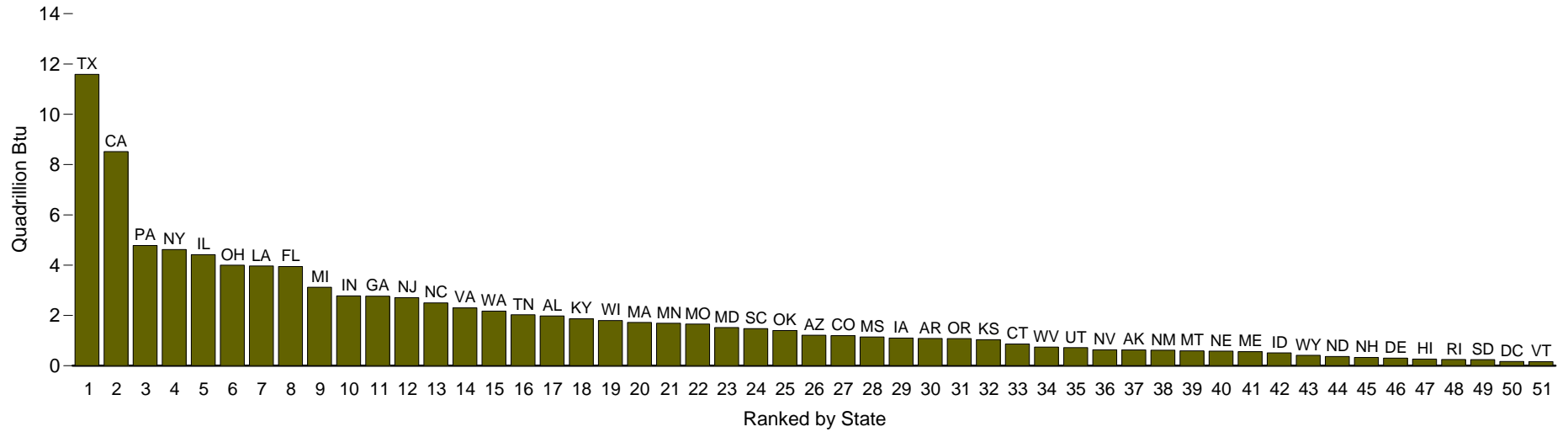
Note: See "Chained Dollars" in Glossary.

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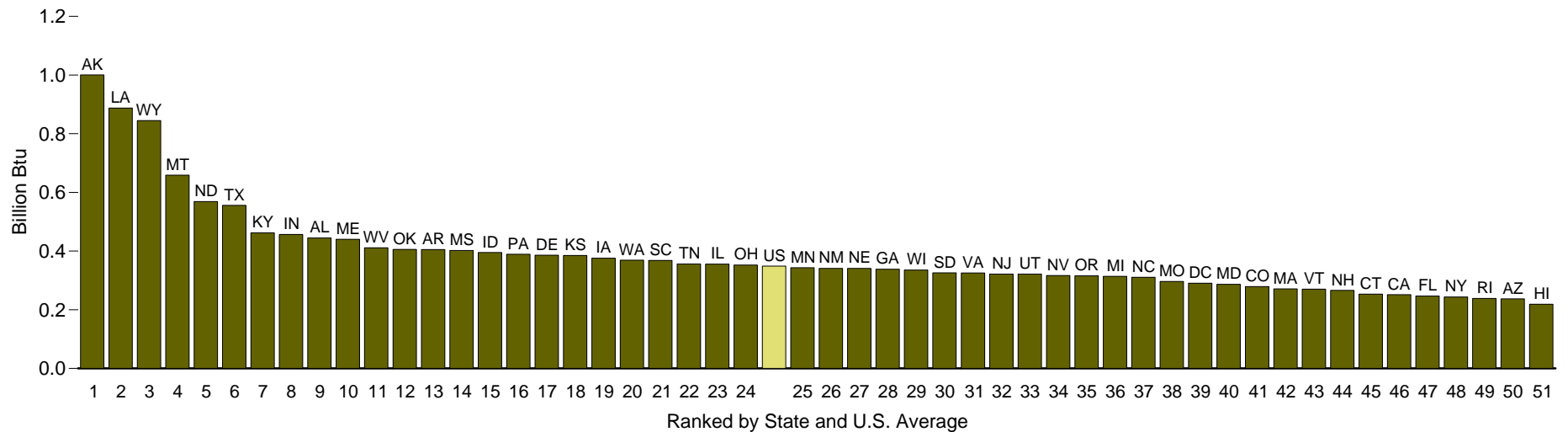
Sources: **Energy Consumption:** Table 1.3. **Energy Expenditures:** Table 3.4. **Gross Domestic Product:** Table D1. **Population Data:** Table D1. **Greenhouse Gas Emissions:** Table 12.1. **Carbon Dioxide Emissions:** Table 12.2. **Other Columns:** Calculated by EIA.

Figure 1.6 State-Level Energy Consumption and Consumption per Person, 2000

Consumption



Consumption per Person



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

Source: Table 1.6.

Table 1.6 State-Level Energy Consumption, Expenditures, and Prices, 2000

Rank	Consumption		Consumption per Person		Expenditures		Expenditures per Person		Prices	
	State	Trillion Btu	State	Million Btu	State	Million Dollars	State	Dollars	State	Dollars per Million Btu
1	Texas	11,588.6	Alaska	1,000.6	Texas	74,045	Louisiana	4,638	District of Columbia	14.85
2	California	8,518.7	Louisiana	887.3	California	71,058	Wyoming	4,541	Vermont	13.68
3	Pennsylvania	4,779.9	Wyoming	844.7	New York	42,563	Alaska	4,341	Hawaii	13.39
4	New York	4,620.0	Montana	659.0	Florida	31,178	Texas	3,551	New Hampshire	13.32
5	Illinois	4,417.9	North Dakota	569.0	Pennsylvania	30,484	North Dakota	3,233	Arizona	12.81
6	Ohio	4,001.8	Texas	555.8	Illinois	30,122	Montana	3,162	Connecticut	12.66
7	Louisiana	3,965.2	Kentucky	462.2	Ohio	29,645	Maine	2,959	New York	11.75
8	Florida	3,943.8	Indiana	456.8	Michigan	22,704	Iowa	2,841	Florida	11.72
9	Michigan	3,121.9	Alabama	444.6	New Jersey	21,639	Kentucky	2,810	Rhode Island	11.60
10	Indiana	2,777.6	Maine	440.1	Louisiana	20,726	Indiana	2,801	California	11.29
11	Georgia	2,769.9	West Virginia	411.4	Georgia	19,782	Kansas	2,749	Nevada	11.23
12	New Jersey	2,706.6	Oklahoma	405.9	North Carolina	19,351	Arkansas	2,740	Massachusetts	11.23
13	North Carolina	2,501.9	Arkansas	405.4	Indiana	17,033	Alabama	2,719	North Carolina	11.21
14	Virginia	2,303.6	Mississippi	402.1	Virginia	16,791	Oklahoma	2,706	Missouri	10.91
15	Washington	2,173.8	Idaho	395.0	Massachusetts	15,459	District of Columbia	2,675	New Mexico	10.79
16	Tennessee	2,025.9	Pennsylvania	389.2	Tennessee	13,792	Vermont	2,675	South Carolina	10.43
17	Alabama	1,977.3	Delaware	386.1	Missouri	13,277	Delaware	2,644	Kansas	10.38
18	Kentucky	1,868.2	Kansas	385.3	Washington	13,180	Mississippi	2,623	Maryland	10.37
19	Wisconsin	1,799.7	Iowa	375.7	Wisconsin	13,059	Ohio	2,611	South Dakota	10.35
20	Massachusetts	1,722.8	Washington	368.8	Minnesota	12,224	New Hampshire	2,611	Ohio	10.28
21	Minnesota	1,688.0	South Carolina	368.2	Alabama	12,094	South Dakota	2,585	Oregon	10.27
22	Missouri	1,659.2	Tennessee	356.1	Maryland	11,796	New Jersey	2,572	Virginia	10.19
23	Maryland	1,520.1	Illinois	355.7	Kentucky	11,356	South Carolina	2,536	Georgia	10.16
24	South Carolina	1,477.1	Ohio	352.5	Arizona	10,562	Nebraska	2,526	Maine	10.04
25	Oklahoma	1,400.5	Minnesota	343.1	South Carolina	10,176	Minnesota	2,485	Tennessee	9.95
26	Arizona	1,215.8	New Mexico	341.2	Oklahoma	9,337	Pennsylvania	2,482	Nebraska	9.94
27	Colorado	1,199.9	Nebraska	341.0	Colorado	8,690	West Virginia	2,452	Colorado	9.94
28	Mississippi	1,143.8	Georgia	338.4	Iowa	8,314	Idaho	2,441	New Jersey	9.93
29	Iowa	1,099.3	Wisconsin	335.5	Connecticut	8,275	Massachusetts	2,435	Minnesota	9.92
30	Arkansas	1,083.7	South Dakota	325.9	Oregon	7,644	Wisconsin	2,435	Wisconsin	9.90
31	Oregon	1,079.7	Virginia	325.4	Mississippi	7,462	Connecticut	2,430	Delaware	9.88
32	Kansas	1,035.7	New Jersey	321.7	Kansas	7,392	Illinois	2,425	Iowa	9.87
33	Connecticut	863.0	Utah	321.6	Arkansas	7,326	Tennessee	2,424	Mississippi	9.85
34	West Virginia	744.0	Nevada	316.7	Nevada	4,834	Nevada	2,419	Oklahoma	9.75
35	Utah	718.2	Oregon	315.6	Utah	4,561	Georgia	2,416	Arkansas	9.61
36	Nevada	632.8	Michigan	314.1	West Virginia	4,434	North Carolina	2,404	Michigan	9.56
37	Alaska	627.3	North Carolina	310.8	Nebraska	4,323	Missouri	2,373	Alabama	9.22
38	New Mexico	620.7	Missouri	296.5	New Mexico	4,109	Virginia	2,372	Idaho	9.09
39	Montana	594.5	District of Columbia	290.6	Maine	3,772	Michigan	2,284	Washington	8.92
40	Nebraska	583.5	Maryland	287.0	New Hampshire	3,227	Rhode Island	2,271	Texas	8.82
41	Maine	561.2	Colorado	279.0	Idaho	3,158	New Mexico	2,259	Illinois	8.68
42	Idaho	511.1	Massachusetts	271.3	Montana	2,852	New York	2,243	Utah	8.64
43	Wyoming	417.1	Vermont	270.4	Alaska	2,721	Washington	2,236	West Virginia	8.57
44	North Dakota	365.4	New Hampshire	266.3	Hawaii	2,634	Oregon	2,234	Kentucky	8.53
45	New Hampshire	329.1	Connecticut	253.4	Rhode Island	2,381	Maryland	2,227	Alaska	8.10
46	Delaware	302.6	California	251.5	Wyoming	2,242	Hawaii	2,174	Pennsylvania	8.07
47	Hawaii	264.8	Florida	246.8	North Dakota	2,077	California	2,098	Indiana	8.06
48	Rhode Island	250.4	New York	243.5	Delaware	2,072	Arizona	2,059	Wyoming	7.96
49	South Dakota	246.0	Rhode Island	238.8	South Dakota	1,952	Utah	2,042	Louisiana	7.62
50	District of Columbia	166.2	Arizona	237.0	Vermont	1,629	Colorado	2,020	North Dakota	7.42
51	Vermont	164.6	Hawaii	218.6	District of Columbia	1,530	Florida	1,951	Montana	6.50
	United States	198,216.2	United States	349.0	United States	2703,188	United States	2,499	United States	9.85

¹ Includes 65.4 trillion Btu of coal coke net imports, which are not allocated to the States. Does not include 725.8 trillion Btu of energy consumed by independent power producers and combined-heat-and-power plants that are included in total consumption on Tables 1.1, 1.3, and 1.5.

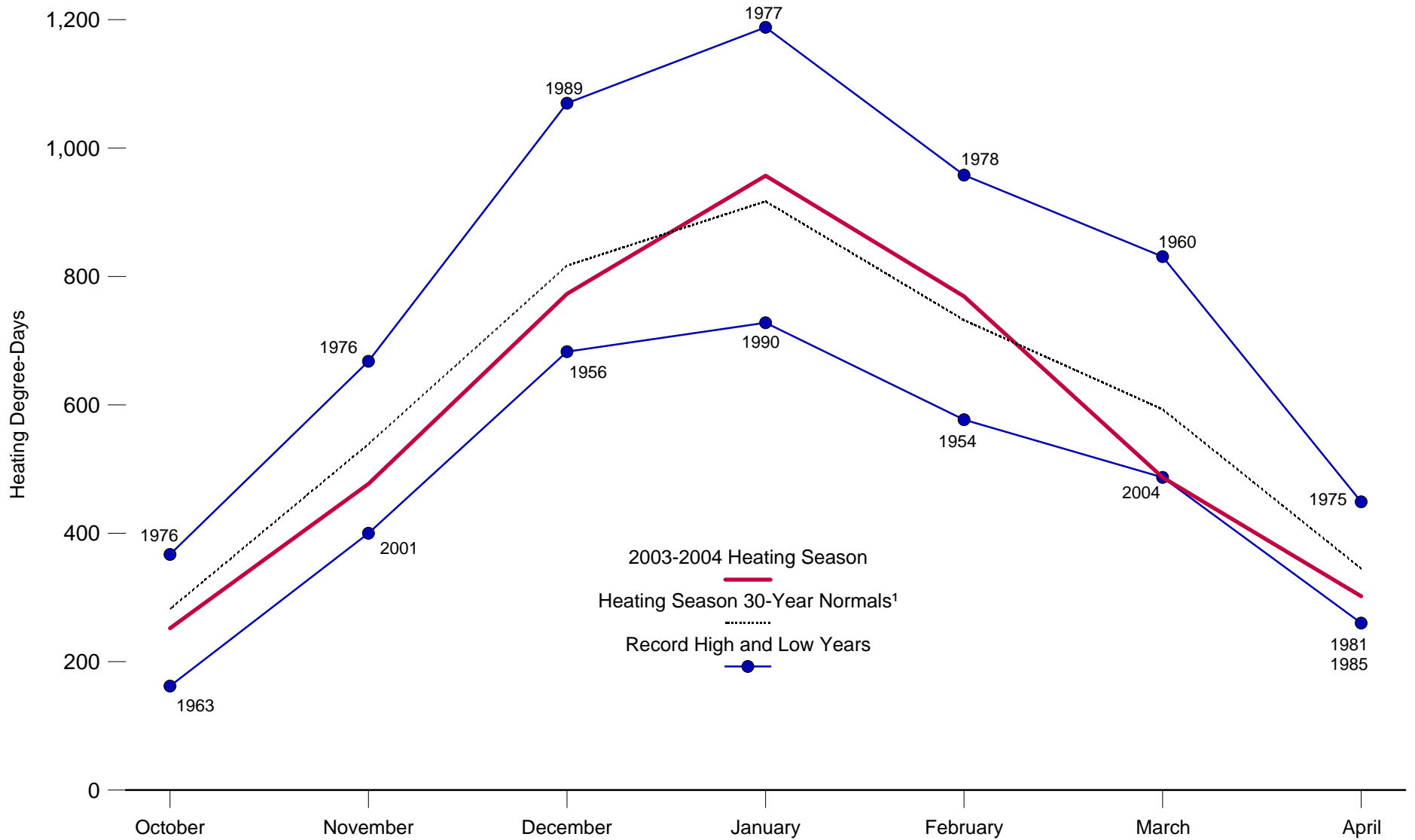
² Includes \$146 million for coal coke net imports, which are not allocated to the States.

Note: Rankings based on unrounded data.

Web Page: http://www.eia.doe.gov/emeu/states/_states.html.

Sources: • **Consumption:** Energy Information Administration (EIA), *State Energy Data Report 2000, Consumption Estimates* (May 2002), Tables 9 and 10. • **Expenditures and Prices:** EIA, *State Energy Price and Expenditure Report 2000* (November 2002), Table 1. • Both publications include State-level data by end-use sector and type of energy. Consumption estimates are annual 1960 through 2000, and price and expenditures estimates are annual 1970 through 2000.

Figure 1.7 Heating Degree-Days by Month, 1949-2004



¹ Based on calculations of data from 1971 through 2000.

Source: Table 1.7.

Table 1.7 Heating Degree-Days by Month, Selected Years, 1949-2004

Year	January	February	March	April	May	June	July	August	September	October	November	December	Total
1949	858	701	611	330	128	21	7	9	94	209	503	763	4,234
1950	761	721	693	412	162	40	11	18	85	196	565	872	4,536
1955	927	759	600	272	121	48	9	6	56	237	600	886	4,521
1960	884	780	831	278	160	33	7	11	48	254	502	936	4,724
1965	907	780	738	355	114	48	11	14	78	271	494	739	4,549
1970	1,063	758	685	344	120	31	4	9	55	253	541	801	4,664
1971	976	760	681	375	194	29	10	12	47	187	553	723	4,547
1972	890	785	608	377	137	49	7	12	65	330	613	832	4,705
1973	893	772	504	356	182	22	6	9	61	212	497	799	4,313
1974	838	754	556	310	171	42	6	13	94	303	524	795	4,406
1975	821	742	686	449	117	37	5	13	100	235	462	805	4,472
1976	974	609	544	309	178	28	8	19	81	367	668	941	4,726
1977	1,188	751	529	270	119	38	6	13	59	295	493	844	4,605
1978	1,061	958	677	350	157	31	7	11	59	283	517	847	4,958
1979	1,079	950	575	364	148	37	6	15	58	271	528	750	4,781
1980	887	831	680	338	142	49	5	10	54	316	564	831	4,707
1981	984	689	620	260	165	25	6	11	76	327	504	845	4,512
1982	1,067	776	620	408	114	62	7	19	75	264	515	692	4,619
1983	874	706	588	421	189	35	6	5	53	251	509	990	4,627
1984	1,000	645	704	371	172	28	7	7	88	223	565	704	4,514
1985	1,057	807	557	260	123	47	5	17	69	243	506	951	4,642
1986	859	734	542	295	123	30	9	18	76	258	558	793	4,295
1987	920	714	573	309	107	20	8	13	61	345	491	773	4,334
1988	1,004	778	594	344	134	30	3	5	72	352	506	831	4,653
1989	789	832	603	344	163	32	5	14	73	259	542	1,070	4,726
1990	728	655	535	321	184	29	6	10	56	246	457	789	4,016
1991	921	639	564	287	98	30	6	7	69	242	586	751	4,200
1992	852	644	603	345	152	46	14	24	74	301	564	822	4,441
1993	860	827	664	368	128	38	11	9	89	302	580	824	4,700
1994	1,031	813	594	293	174	21	6	16	65	268	479	723	4,483
1995	847	750	556	375	174	31	4	7	77	233	605	872	4,531
1996	945	748	713	360	165	27	8	9	72	276	630	760	4,713
1997	932	672	552	406	198	31	7	16	63	273	592	800	4,542
1998	765	623	596	331	109	41	4	5	33	245	482	717	3,951
1999	861	647	645	319	139	31	5	12	62	275	413	760	4,169
2000	886	643	494	341	115	29	12	12	69	244	610	1,005	4,460
2001	935	725	669	302	115	29	8	6	71	267	400	696	4,223
2002	^R 778	^R 670	^R 624	^R 282	^R 185	23	^R 3	^R 8	^R 38	^R 299	^R 561	^R 813	^R 4,284
2003 ^P	^R 940	^R 819	^R 564	^R 351	162	39	2	2	59	252	477	773	4,440
2004 ^P	957	769	487	302	NA	NA	NA	NA	NA	NA	NA	NA	NA
Normals ¹	917	732	593	345	159	39	9	15	77	282	539	817	4,524

¹ Based on calculations of data from 1971 through 2000.

R=Revised. P=Preliminary. NA=Not available.

Notes: • This table excludes Alaska and Hawaii. • Degree-days are relative measurements of outdoor air temperature. Heating degree-days are deviations below the mean daily temperature of 65° F. For example, a weather station recording a mean daily temperature of 40° F would report 25 heating degree-days. • Temperature information recorded by weather stations is used to calculate State-wide degree-day averages based on resident State population. Beginning in 2002, data are weighted by the estimated 2000 population. The population-weighted State figures are aggregated into Census divisions

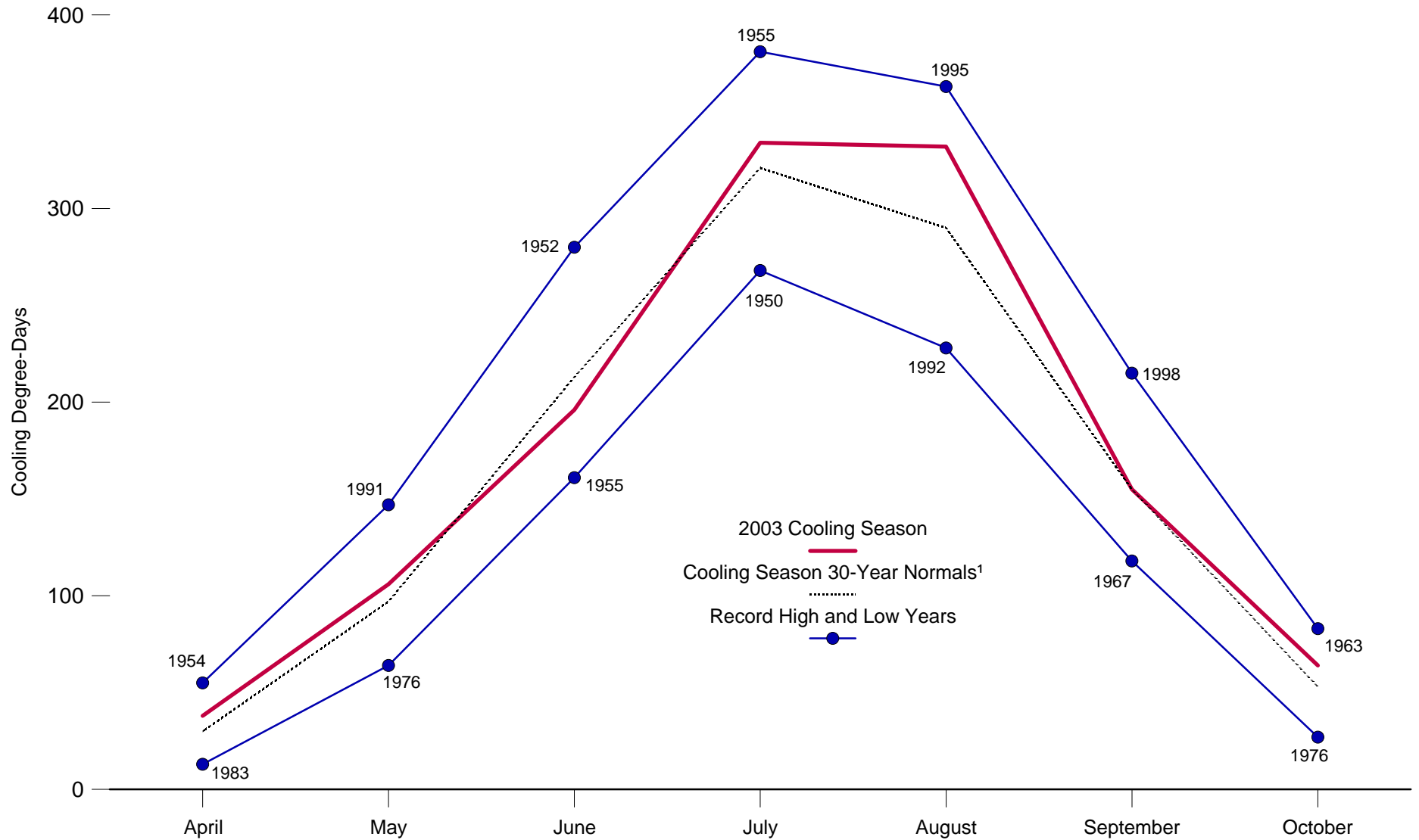
and the national average.

Web Pages: • For data not shown for 1951-1969, see <http://www.eia.doe.gov/emeu/aer/overview.html>.

• For current data, see <http://www.eia.doe.gov/emeu/mer/overview.html>.

Sources: • 1949-2002 and Normals—U.S. Department of Commerce, National Oceanic and Atmospheric Administration (NOAA), National Climatic Data Center, Asheville, North Carolina. Historical Climatology Series 5-1. • 2003 and 2004—Energy Information Administration, *Monthly Energy Review*, June 2003-May 2004 issues, Table 1.10, which reports data from NOAA, National Weather Service Climate Analysis Center, Camp Springs, Maryland.

Figure 1.8 Cooling Degree-Days by Month, 1949-2003



¹ Based on calculations of data from 1971 through 2000.

Source: Table 1.8.

Table 1.8 Cooling Degree-Days by Month, Selected Years, 1949-2004

Year	January	February	March	April	May	June	July	August	September	October	November	December	Total
1949	16	14	14	27	110	253	367	294	131	70	12	10	1,318
1950	27	12	13	21	105	201	268	244	128	78	9	4	1,110
1955	6	7	20	45	121	161	381	355	182	50	10	6	1,344
1960	7	4	6	37	76	215	301	302	181	59	15	3	1,206
1965	9	7	10	42	125	179	280	273	155	48	19	6	1,153
1970	3	4	10	36	104	201	323	313	185	48	6	9	1,242
1971	8	7	10	22	68	244	288	269	182	77	12	17	1,204
1972	15	6	22	36	88	174	299	276	169	44	9	8	1,146
1973	7	3	24	18	75	236	318	303	166	66	21	4	1,241
1974	21	6	28	29	101	173	317	267	120	40	10	5	1,117
1975	14	11	14	24	117	203	301	296	120	55	12	5	1,172
1976	5	11	23	27	64	208	282	243	127	27	8	4	1,029
1977	2	5	21	35	121	212	351	293	180	44	15	6	1,285
1978	3	1	10	31	93	218	310	300	180	52	19	9	1,226
1979	4	4	13	32	82	187	295	266	160	53	11	6	1,113
1980	9	4	13	23	95	199	374	347	192	42	10	5	1,313
1981	3	6	10	52	75	257	333	275	138	43	12	5	1,209
1982	6	10	21	26	115	165	318	262	140	47	15	11	1,136
1983	6	5	9	13	72	193	353	362	172	58	12	5	1,260
1984	5	6	14	24	92	233	291	312	143	70	9	15	1,214
1985	3	5	22	39	108	193	313	269	145	68	25	4	1,194
1986	8	10	17	33	106	231	340	259	161	52	23	9	1,249
1987	5	7	13	23	127	244	334	298	156	40	14	8	1,269
1988	5	5	13	28	89	218	359	348	149	45	18	6	1,283
1989	15	7	19	36	88	208	312	266	138	49	16	2	1,156
1990	15	14	21	29	86	234	316	291	172	57	16	9	1,260
1991	10	9	19	42	147	235	336	305	149	62	8	9	1,331
1992	6	10	15	29	77	170	286	228	150	49	13	7	1,040
1993	13	5	11	19	91	207	347	317	146	47	11	4	1,218
1994	7	9	18	37	76	262	328	263	141	50	20	9	1,220
1995	7	7	18	29	91	202	348	363	150	61	12	5	1,293
1996	7	6	8	26	116	226	299	287	139	45	14	7	1,180
1997	8	11	31	19	81	189	315	268	171	48	10	5	1,156
1998	12	7	10	23	135	228	350	337	215	62	20	11	1,410
1999	12	11	12	40	94	219	374	305	152	55	17	6	1,297
2000	10	10	25	28	131	221	284	302	156	50	8	4	1,229
2001	3	12	11	37	114	220	302	333	138	46	18	11	1,245
2002	8	R6	R17	R53	R92	R242	369	R331	R202	R57	11	R5	R1,393
2003 ^P	2	6	R20	R38	106	196	334	332	155	64	24	4	1,281
2004 ^P	5	5	26	41	NA	NA	NA	NA	NA	NA	NA	NA	NA
Normals ¹	9	8	18	30	97	213	321	290	155	53	15	8	1,215

¹ Based on calculations of data from 1971 through 2000.

R=Revised. P=Preliminary. NA=Not available.

Notes: • This table excludes Alaska and Hawaii. • Degree-days are relative measurements of outdoor air temperature. Cooling degree-days are deviations above the mean daily temperature of 65° F. For example, a weather station recording a mean daily temperature of 78° F would report 13 cooling degree-days. • Temperature information recorded by weather stations is used to calculate State-wide degree-day averages based on resident State population. Beginning in 2002, data are weighted by the estimated 2000 population. The population-weighted State figures are aggregated into Census divisions

and the national average.

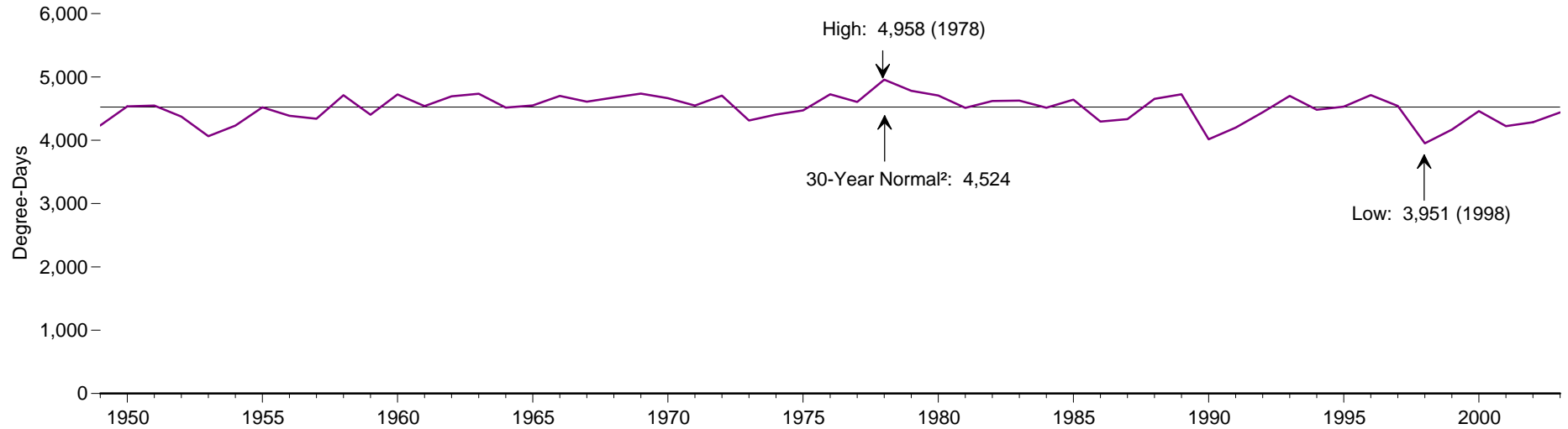
Web Pages: • For data not shown for 1951-1969, see <http://www.eia.doe.gov/emeu/aer/overview.html>.

• For current data, see <http://www.eia.doe.gov/emeu/mer/overview.html>.

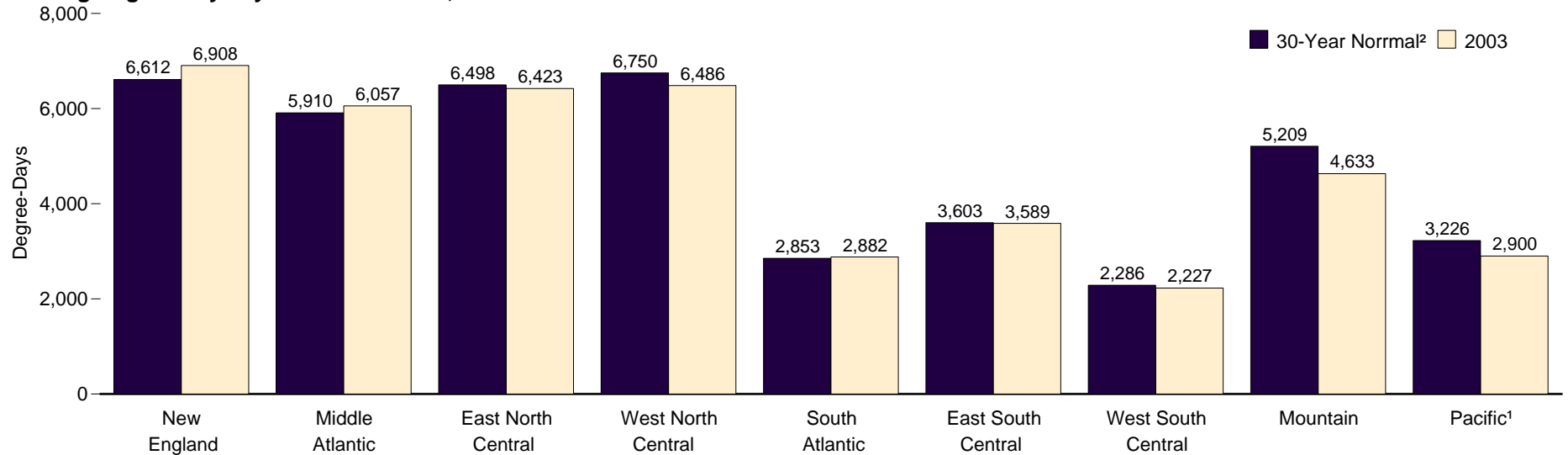
Sources: • 1949-2002 and Normals—U.S. Department of Commerce, National Oceanic and Atmospheric Administration (NOAA), National Climatic Data Center, Asheville, North Carolina. Historical Climatology Series 5-2. • 2003 and 2004—Energy Information Administration, *Monthly Energy Review*, June 2003-May 2004 issues, Table 1.11, which reports data from NOAA, National Weather Service Climate Analysis Center, Camp Springs, Maryland.

Figure 1.9 Heating Degree-Days by Census Division

U.S.¹ Heating Degree-Days, 1949-2003



Heating Degree-Days by Census Division, 2003



¹ Excludes Alaska and Hawaii.

² Normals are based on calculations of data from 1971 through 2000.

Note: See Appendix C for Census Divisions.

Source: Table 1.9.

Table 1.9 Heating Degree-Days by Census Division, Selected Years, 1949-2003

Year	New England	Middle Atlantic	East North Central	West North Central	South Atlantic	East South Central	West South Central	Mountain	Pacific ¹	United States ¹
1949	5,829	5,091	5,801	6,479	2,367	2,942	2,133	5,483	3,729	4,234
1950	6,470	5,765	6,619	7,136	2,713	3,315	1,974	4,930	3,355	4,536
1955	6,577	5,708	6,101	6,630	2,786	3,314	2,083	5,517	3,723	4,521
1960	6,561	5,901	6,544	6,884	3,147	3,958	2,551	5,328	3,309	4,724
1965	6,825	5,933	6,284	6,646	2,830	3,374	2,078	5,318	3,378	4,549
1970	6,839	5,943	6,455	6,835	2,997	3,685	2,396	5,436	3,257	4,664
1971	6,695	5,761	6,236	6,594	2,763	3,395	1,985	5,585	3,698	4,547
1972	7,001	6,064	6,772	7,094	2,759	3,438	2,259	5,352	3,376	4,705
1973	6,120	5,327	5,780	6,226	2,718	3,309	2,256	5,562	3,383	4,313
1974	6,621	5,670	6,259	6,478	2,551	3,171	2,080	5,281	3,294	4,406
1975	6,362	5,477	6,169	6,678	2,640	3,336	2,187	5,693	3,623	4,472
1976	6,839	6,097	6,768	6,670	3,040	3,881	2,446	5,303	3,115	4,726
1977	6,579	5,889	6,538	6,506	3,047	3,812	2,330	5,060	3,135	4,605
1978	7,061	6,330	7,095	7,324	3,187	4,062	2,764	5,370	3,168	4,958
1979	6,348	5,851	6,921	7,369	2,977	3,900	2,694	5,564	3,202	4,781
1980	6,900	6,143	6,792	6,652	3,099	3,855	2,378	5,052	2,986	4,707
1981	6,612	5,989	6,446	6,115	3,177	3,757	2,162	4,671	2,841	4,512
1982	6,697	5,866	6,542	7,000	2,721	3,357	2,227	5,544	3,449	4,619
1983	6,305	5,733	6,423	6,901	3,057	3,892	2,672	5,359	3,073	4,627
1984	6,442	5,777	6,418	6,582	2,791	3,451	2,194	5,592	3,149	4,514
1985	6,571	5,660	6,546	7,119	2,736	3,602	2,466	5,676	3,441	4,642
1986	6,517	5,665	6,150	6,231	2,686	3,294	2,058	4,870	2,807	4,295
1987	6,546	5,699	5,810	5,712	2,937	3,466	2,292	5,153	3,013	4,334
1988	6,715	6,088	6,590	6,634	3,122	3,800	2,346	5,148	2,975	4,653
1989	6,887	6,134	6,834	6,996	2,944	3,713	2,439	5,173	3,061	4,726
1990	5,848	4,998	5,681	6,011	2,230	2,929	1,944	5,146	3,148	4,016
1991	5,960	5,177	5,906	6,319	2,503	3,211	2,178	5,259	3,109	4,200
1992	6,844	5,964	6,297	6,262	2,852	3,498	2,145	5,054	2,763	4,441
1993	6,728	5,948	6,646	7,168	2,981	3,768	2,489	5,514	3,052	4,700
1994	6,672	5,934	6,378	6,509	2,724	3,394	2,108	5,002	3,155	4,483
1995	6,559	5,831	6,664	6,804	2,967	3,626	2,145	4,953	2,784	4,531
1996	6,679	5,986	6,947	7,345	3,106	3,782	2,285	5,011	2,860	4,713
1997	6,662	5,809	6,617	6,762	2,845	3,664	2,418	5,189	2,754	4,542
1998	5,680	4,812	5,278	5,774	2,429	3,025	2,021	5,059	3,255	3,951
1999	5,952	5,351	5,946	5,921	2,652	3,142	1,835	4,768	3,158	4,169
2000	6,489	5,774	6,284	6,456	2,959	3,548	2,194	4,881	3,012	4,460
2001	6,059	5,297	5,824	6,185	2,666	3,314	2,200	4,954	3,129	4,223
2002	^R 6,099	5,372	^R 6,122	^R 6,625	^R 2,671	^R 3,420	^R 2,307	^R 5,028	^R 3,132	^R 4,284
2003 ^P	6,908	6,057	6,423	6,486	2,882	3,589	2,227	4,633	2,900	4,440
Normals ²	6,612	5,910	6,498	6,750	2,853	3,603	2,286	5,209	3,226	4,524

¹ Excludes Alaska and Hawaii.

² Normals are based on calculations of data from 1971 through 2000.

R=Revised. P=Preliminary.

Notes: • Degree-days are relative measurements of outdoor air temperature. Heating degree-days are deviations below the mean daily temperature of 65° F. For example, a weather station recording a mean daily temperature of 40° F would report 25 heating degree-days. • Temperature information recorded by weather stations is used to calculate State-wide degree-day averages based on resident State population. Beginning in 2002, data are weighted by the estimated 2000 population. The population-weighted State figures are aggregated into Census divisions and the national average. • See Appendix C for Census

divisions.

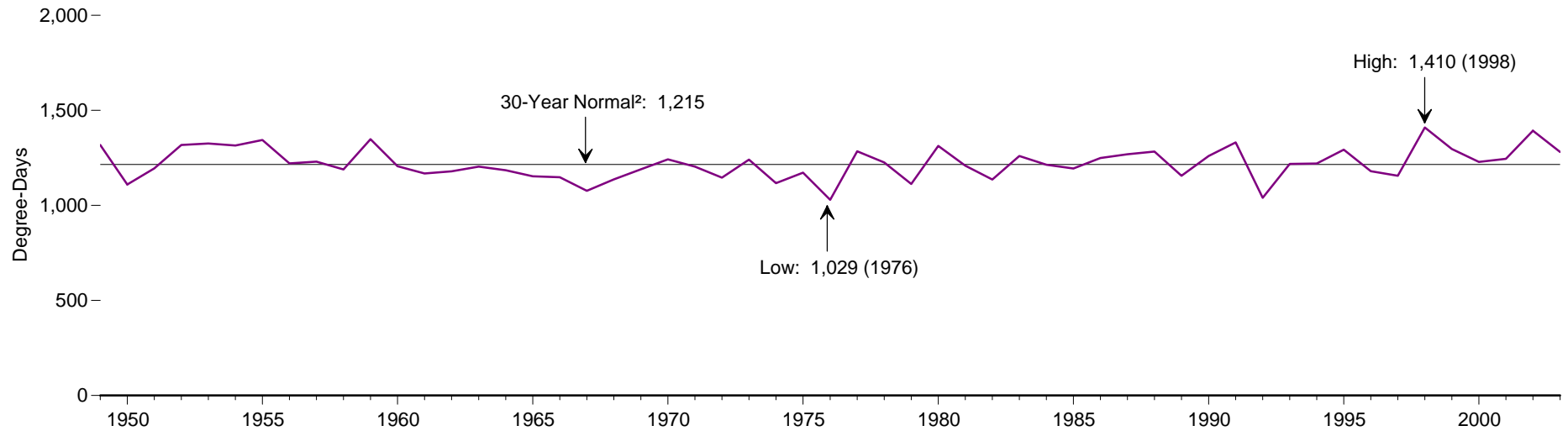
Web Pages: • For data not shown for 1951-1969, see <http://www.eia.doe.gov/emeu/aer/overview.html>.

• For current data, see <http://www.eia.doe.gov/emeu/mer/overview.html>.

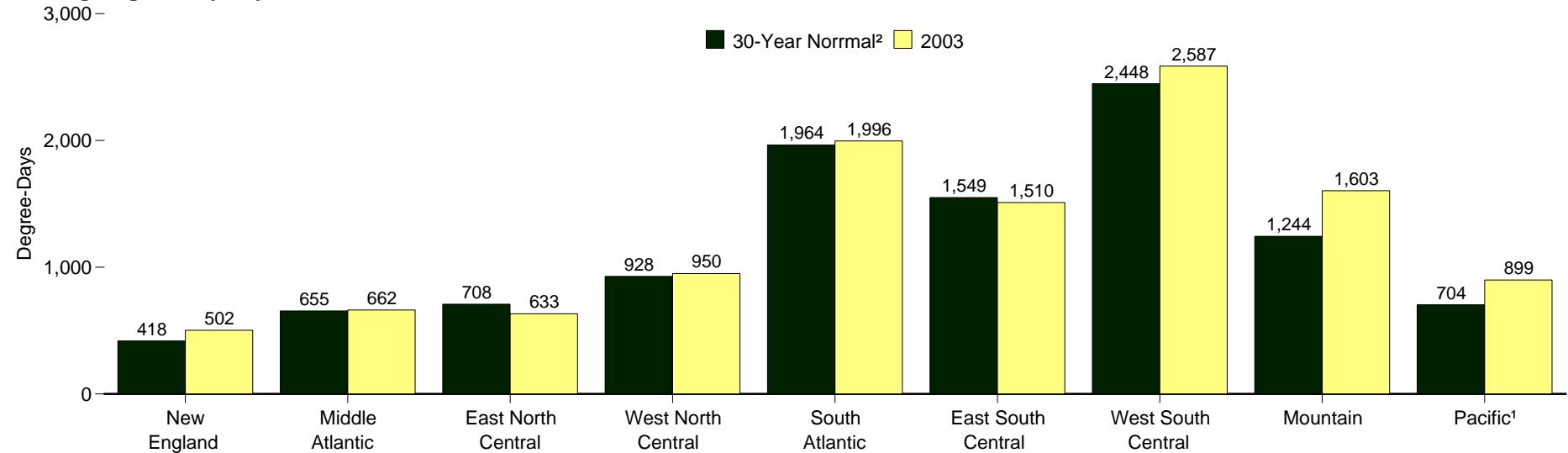
Sources: • 1949-2002 and Normals—U.S. Department of Commerce, National Oceanic and Atmospheric Administration (NOAA), National Climatic Data Center, Asheville, North Carolina. Historical Climatology Series 5-1. • 2003—Energy Information Administration, *Monthly Energy Review (MER)*, June 2003-May 2004 issues, Table 1.10, which reports data from NOAA, National Weather Service Climate Analysis Center, Camp Springs, Maryland. Census Division data for 2003 are the sums of the current year monthly statistics shown in the cited issues of the *MER*.

Figure 1.10 Cooling Degree-Days by Census Division

U.S.¹ Cooling Degree-Days, 1949-2003



Cooling Degree-Days by Census Division, 2003



¹ Excludes Alaska and Hawaii.

² Normals are based on calculations of data from 1971 through 2000.

Note: See Appendix C for Census Divisions.

Source: Table 1.10.

Table 1.10 Cooling Degree-Days by Census Division, Selected Years, 1949-2003

Year	New England	Middle Atlantic	East North Central	West North Central	South Atlantic	East South Central	West South Central	Mountain	Pacific ¹	United States ¹
1949	654	901	949	1,038	2,128	1,776	2,510	1,198	593	1,318
1950	353	542	602	729	1,919	1,568	2,473	1,120	597	1,110
1955	602	934	1,043	1,238	2,045	1,791	2,643	1,124	560	1,344
1960	368	640	722	961	1,926	1,613	2,492	1,308	770	1,206
1965	352	638	688	914	1,931	1,634	2,579	961	542	1,153
1970	479	779	827	1,066	2,007	1,662	2,375	1,163	689	1,242
1971	465	730	783	960	1,932	1,577	2,448	1,074	685	1,204
1972	364	614	643	908	1,843	1,525	2,513	1,141	698	1,146
1973	551	830	864	1,009	2,000	1,665	2,359	1,123	624	1,241
1974	393	614	626	878	1,842	1,382	2,342	1,188	690	1,117
1975	467	708	788	1,003	2,011	1,520	2,261	1,031	547	1,172
1976	402	597	619	939	1,675	1,232	2,035	1,058	620	1,029
1977	407	689	823	1,122	2,020	1,808	2,720	1,256	715	1,285
1978	378	615	741	1,027	1,972	1,685	2,638	1,174	738	1,226
1979	434	588	618	871	1,833	1,412	2,242	1,164	770	1,113
1980	487	793	816	1,217	2,075	1,834	2,734	1,202	658	1,313
1981	436	657	658	924	1,889	1,576	2,498	1,331	876	1,209
1982	321	541	643	859	1,958	1,537	2,502	1,121	619	1,136
1983	538	799	934	1,178	1,925	1,579	2,288	1,174	776	1,260
1984	468	649	724	955	1,865	1,508	2,469	1,190	956	1,214
1985	372	627	643	830	2,004	1,596	2,599	1,210	737	1,194
1986	301	626	738	1,021	2,149	1,792	2,618	1,188	664	1,249
1987	406	729	918	1,115	2,067	1,718	2,368	1,196	706	1,269
1988	545	782	975	1,230	1,923	1,582	2,422	1,320	729	1,283
1989	426	658	652	864	1,977	1,417	2,295	1,330	685	1,156
1990	477	656	647	983	2,143	1,622	2,579	1,294	827	1,260
1991	511	854	959	1,125	2,197	1,758	2,499	1,182	672	1,331
1992	276	460	449	637	1,777	1,293	2,201	1,206	905	1,040
1993	486	764	735	817	2,092	1,622	2,369	1,113	708	1,218
1994	548	722	664	887	2,005	1,448	2,422	1,436	801	1,220
1995	507	803	921	985	2,081	1,671	2,448	1,234	754	1,293
1996	400	623	629	821	1,867	1,474	2,515	1,381	856	1,180
1997	395	586	574	873	1,886	1,393	2,361	1,335	921	1,156
1998	505	788	889	1,138	2,277	1,928	3,026	1,271	732	1,410
1999	631	882	855	970	2,024	1,733	2,645	1,242	635	1,297
2000	317	542	658	1,023	1,929	1,736	2,787	1,488	756	1,229
2001	519	722	744	1,028	1,891	1,535	2,565	1,498	794	1,245
2002	^R 570	^R 863	^R 933	^R 1,049	^R 2,209	^R 1,808	^R 2,545	^R 1,543	^R 739	^R 1,393
2003 ^P	502	662	633	950	1,996	1,510	2,587	1,603	899	1,281
Normals ²	418	655	708	928	1,964	1,549	2,448	1,244	704	1,215

¹ Excludes Alaska and Hawaii.

² Normals are based on calculations of data from 1971 through 2000.

R=Revised. P=Preliminary.

Notes: • Degree-days are relative measurements of outdoor air temperature. Cooling degree-days are deviations above the mean daily temperature of 65° F. For example, a weather station recording a mean daily temperature of 78° F would report 13 cooling degree-days. • Temperature information recorded by weather stations is used to calculate State-wide degree-day averages based on resident State population. Beginning in 2002, data are weighted by the estimated 2000 population. The population-weighted State figures are aggregated into Census divisions and the national average. • See Appendix C for Census

divisions.

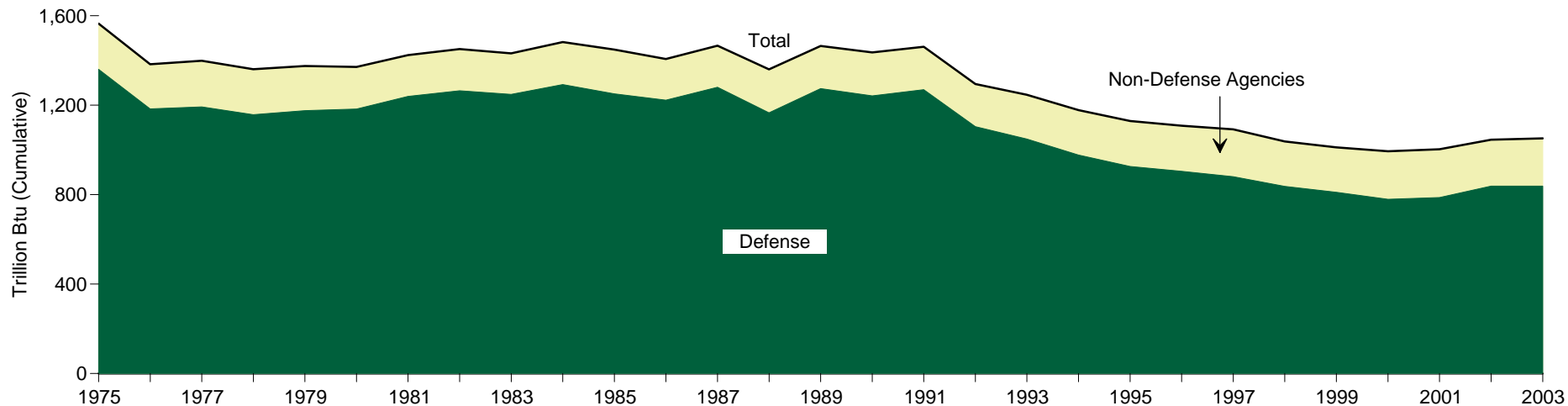
Web Pages: • For data not shown for 1951-1969, see <http://www.eia.doe.gov/emeu/aer/overview.html>.

• For current data, see <http://www.eia.doe.gov/emeu/mer/overview.html>.

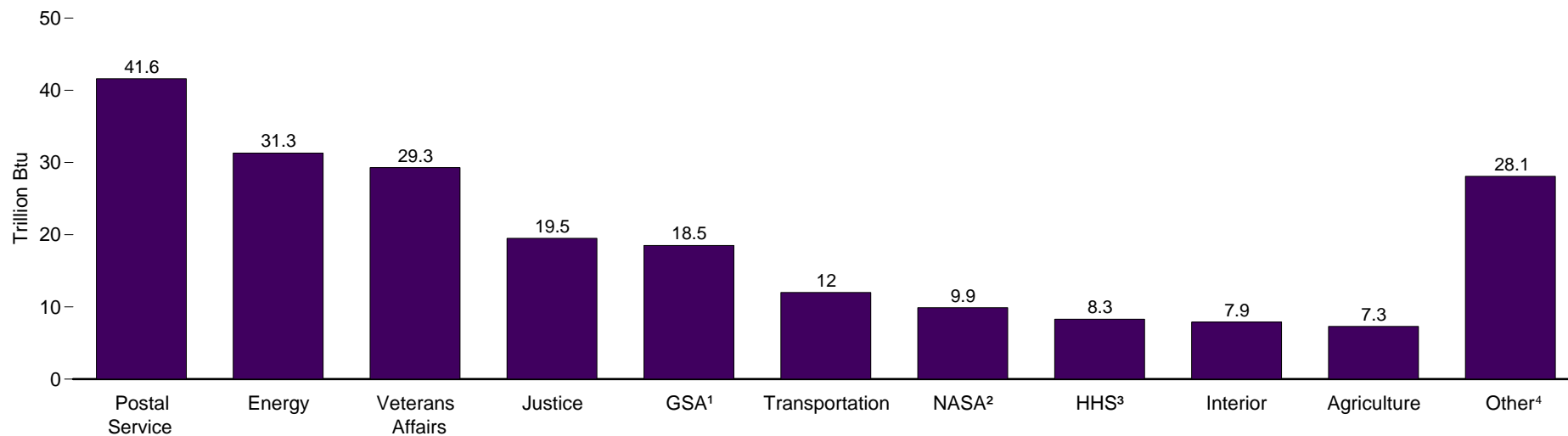
Sources: • 1949-2002 and Normals—U.S. Department of Commerce, National Oceanic and Atmospheric Administration (NOAA), National Climatic Data Center, Asheville, North Carolina. Historical Climatology Series 5-2. • 2003—Energy Information Administration, *Monthly Energy Review*, June 2003-May 2004 issues, Table 1.11, which reports data from NOAA, National Weather Service Climate Analysis Center, Camp Springs, Maryland.

Figure 1.11 U.S. Government Energy Consumption by Agency

Total and U.S. Department of Defense, Fiscal Years 1975-2003



Non-Defense Agencies, Fiscal Year 2003



¹ General Services Administration.

² National Aeronautics and Space Administration.

³ Health and Human Services.

⁴ See Table 1.11 for list of agencies.

Notes: • The U.S. Government's fiscal year was October 1 through September 30, except in 1975 and 1976 when it was July 1 through June 30. • Because vertical scales differ, graphs should not be compared.

Source: Table 1.11.

Table 1.11 U.S. Government Energy Consumption by Agency, Fiscal Years 1975-2003
(Trillion Btu)

Year	Agencies												Total
	Agriculture	Defense	Energy	GSA ¹	HHS ²	Interior	Justice	NASA ³	Postal Service	Transportation	Veterans Affairs	Other ⁴	
1975	9.5	1,360.2	50.4	22.3	6.5	9.4	5.9	13.4	30.5	19.3	27.1	10.5	1,565.0
1976	9.3	1,183.3	50.3	20.6	6.7	9.4	5.7	12.4	30.0	19.5	25.0	11.2	1,383.4
1977	8.9	1,192.3	51.6	20.4	6.9	9.5	5.9	12.0	32.7	20.4	25.9	11.9	1,398.5
1978	9.1	1,157.8	50.1	20.4	6.5	9.2	5.9	11.2	30.9	20.6	26.8	12.4	1,360.9
1979	9.2	1,175.8	49.6	19.6	6.4	10.4	6.4	11.1	29.3	19.6	25.7	12.3	1,375.4
1980	8.6	1,183.1	47.4	18.1	6.0	8.5	5.7	10.4	27.2	19.2	24.8	12.3	1,371.2
1981	7.9	1,239.5	47.3	18.0	6.7	7.6	5.4	10.0	27.9	18.8	24.0	11.1	1,424.2
1982	7.6	1,264.5	49.0	18.1	6.4	7.4	5.8	10.1	27.5	19.1	24.2	11.6	1,451.4
1983	7.4	1,248.3	49.5	16.1	6.2	7.7	5.5	10.3	26.5	19.4	24.1	10.8	1,431.8
1984	7.9	1,292.1	51.6	16.2	6.4	8.4	6.4	10.6	27.7	19.8	24.6	10.7	1,482.5
1985	8.4	1,250.6	52.2	19.3	6.0	7.8	8.2	10.9	27.8	19.6	25.1	^R 13.0	^R 1,448.7
1986	6.8	1,222.8	^R 46.9	14.0	6.2	6.9	8.6	11.2	28.0	19.4	25.0	10.8	^R 1,406.7
1987	7.3	1,280.5	48.5	13.1	6.6	6.6	8.1	11.3	28.5	19.0	24.9	11.9	1,466.3
1988	7.8	1,165.8	49.9	12.4	6.4	7.0	9.4	11.3	29.6	18.7	26.3	15.8	1,360.3
1989	8.7	1,274.4	44.2	12.7	6.7	7.1	7.7	12.4	30.3	18.5	26.2	15.6	1,464.7
1990	9.6	1,241.7	43.4	15.7	7.1	7.4	7.0	12.4	30.6	19.0	24.9	^R 17.3	^R 1,436.0
1991	9.6	1,269.3	42.1	14.0	6.2	7.1	8.0	12.5	30.8	19.0	25.1	18.0	1,461.6
1992	9.1	1,104.0	44.3	13.8	6.8	7.0	7.5	12.6	31.7	17.0	25.3	15.6	1,294.7
1993	9.3	1,048.8	43.4	14.1	7.2	7.5	9.1	12.4	33.7	19.4	25.7	16.1	1,246.7
1994	9.4	977.0	42.1	14.0	7.5	7.9	10.3	12.6	35.0	19.8	25.6	17.0	1,178.1
1995	9.0	926.0	47.3	13.7	6.1	6.4	10.2	12.4	36.2	18.7	25.4	^R 17.8	1,129.2
1996	9.1	904.5	^R 44.6	14.5	6.6	4.3	12.1	11.5	36.4	19.6	26.8	18.4	^R 1,108.4
1997	7.4	880.0	43.1	14.4	7.9	6.6	12.0	12.0	40.8	19.1	27.3	^R 21.5	^R 1,091.9
1998	7.9	837.1	31.5	14.1	7.4	6.4	15.8	11.7	39.5	18.5	27.6	^R 20.2	^R 1,037.8
1999	7.8	810.7	^R 27.0	14.4	7.1	7.5	15.4	11.4	39.8	22.6	27.5	^R 20.5	^R 1,011.5
2000	7.4	779.1	30.5	17.6	8.0	7.8	19.7	11.1	43.3	21.2	27.0	^R 20.9	^R 993.7
2001	7.4	787.2	31.1	18.4	8.5	9.5	19.7	^R 10.9	43.4	17.8	27.7	^R 21.3	^R 1,002.9
2002	7.1	^R 837.9	^R 30.8	17.5	^R 8.0	^R 8.1	^R 18.2	^R 10.6	42.0	^R 18.4	27.7	^R 19.8	^R 1,045.9
2003 ^P	7.3	837.9	31.3	18.5	8.3	7.9	19.5	9.9	41.6	12.0	29.3	28.1	1,051.6

¹ General Services Administration.

² Health and Human Services.

³ National Aeronautics and Space Administration.

⁴ Includes National Archives and Records Administration, U.S. Department of Commerce, Panama Canal Commission, Tennessee Valley Authority, U.S. Department of Labor, National Science Foundation, Federal Trade Commission, Federal Communications Commission, Environmental Protection Agency, U.S. Department of Homeland Security, U.S. Department of Housing and Urban Development, Railroad Retirement Board, Commodity Futures Trading Commission, Equal Employment Opportunity Commission, Nuclear Regulatory Commission, U.S. Department of State, U.S. Department of the Treasury, Small Business Administration, Office of Personnel Management, Federal Emergency Management Agency, Central Intelligence Agency, Social Security Administration, and U.S. Information Agency (International

Broadcasting Bureau).

R = Revised. P = Preliminary.

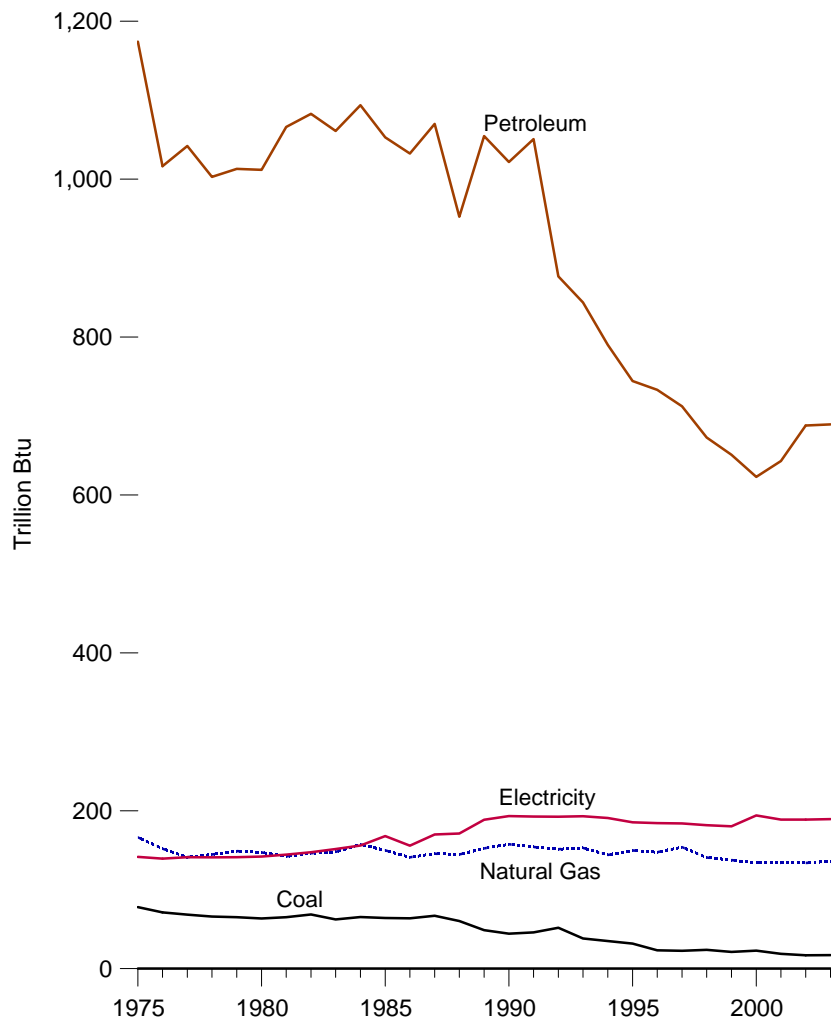
Notes: • The U.S. Government's fiscal year was October 1 through September 30, except in 1975 and 1976, when it was July 1 through June 30. • Data include energy consumed at foreign installations and in foreign operations, including aviation and ocean bunkering, primarily by the U.S. Department of Defense. U.S. Government energy use for electricity generation and uranium enrichment is excluded. • Totals may not equal sum of components due to independent rounding.

Web Page: See http://www.eere.energy.gov/femp/aboutfemp/annual_reports/ann_overview.html for related information.

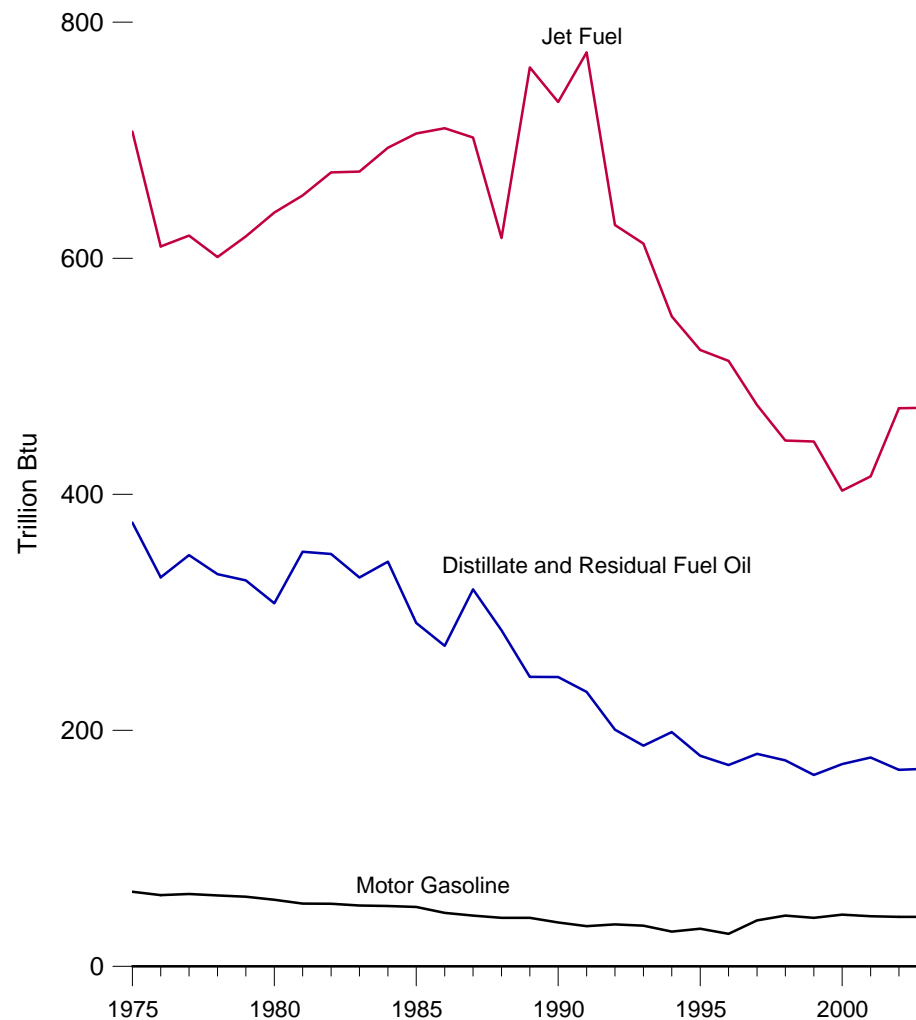
Source: U.S. Department of Energy, Energy Efficiency and Renewable Energy, Office of Federal Energy Management Programs.

Figure 1.12 U.S. Government Energy Consumption by Source, Fiscal Years 1975-2003

By Major Energy Source



By Petroleum Product



Notes: • The U.S. Government's fiscal year was October 1 through September 30, except in 1975 and 1976 when it was July 1 through June 30. • Because vertical scales differ, graphs should not be compared.

Source: Table 1.12.

Table 1.12 U.S. Government Energy Consumption by Source, Fiscal Years 1975-2003
(Trillion Btu)

Year	Coal	Natural Gas	Petroleum					Electricity	Purchased Steam and Other ³	Total	
			Aviation Gasoline	Distillate and Residual Fuel Oil	Jet Fuel	Motor Gasoline	LPG ¹ and Other ²				Total
1975	77.9	166.2	22.0	376.0	707.4	63.2	5.6	1,174.2	141.5	5.1	1,565.0
1976	71.3	151.8	11.6	329.7	610.0	60.4	4.7	1,016.4	139.3	4.6	1,383.4
1977	68.4	141.2	8.8	348.5	619.2	61.4	4.1	1,042.1	141.1	5.7	1,398.5
1978	66.0	144.7	6.2	332.3	601.1	60.1	3.0	1,002.9	141.0	6.4	1,360.9
1979	65.1	148.9	4.7	327.1	618.6	59.1	3.7	1,013.1	141.2	7.1	1,375.4
1980	63.5	147.3	4.9	307.7	638.7	56.5	4.0	1,011.8	141.9	6.8	1,371.2
1981	65.1	142.2	4.6	351.3	653.3	53.2	3.7	1,066.2	144.5	6.2	1,424.2
1982	68.6	146.2	3.6	349.4	672.7	53.1	3.9	1,082.8	147.5	6.2	1,451.4
1983	62.4	147.8	2.6	329.5	673.4	51.6	4.0	1,061.1	151.5	9.0	1,431.8
1984	65.3	157.4	1.9	342.9	693.7	51.2	4.1	1,093.8	155.9	10.1	1,482.5
1985	64.2	^R 149.8	1.9	^R 291.0	705.7	50.4	4.0	^R 1,053.0	^R 167.9	13.9	^R 1,448.7
1986	63.8	140.9	1.4	271.6	710.2	45.3	3.9	1,032.4	^R 155.8	13.7	^R 1,406.7
1987	67.0	145.6	1.0	319.5	702.3	43.1	4.0	1,069.9	169.9	13.9	1,466.3
1988	60.2	144.6	6.0	284.8	617.2	41.2	3.2	952.4	171.2	32.0	1,360.3
1989	48.7	152.4	0.8	245.3	761.7	41.1	5.7	1,054.5	188.6	20.6	1,464.7
1990	44.2	^R 157.6	0.5	^R 245.2	732.4	37.2	6.4	^R 1,021.8	^R 193.3	19.1	^R 1,436.0
1991	45.9	154.1	0.4	232.6	774.5	34.1	9.0	1,050.7	192.6	18.3	1,461.6
1992	51.7	151.2	1.0	200.6	628.2	35.6	11.4	876.8	192.5	22.5	1,294.7
1993	38.3	152.9	0.7	187.0	612.4	34.5	9.3	843.9	193.0	18.6	1,246.7
1994	35.0	143.9	0.6	198.5	550.7	29.5	10.9	790.2	190.9	18.2	1,178.1
1995	31.7	149.7	0.3	178.5	522.3	31.9	11.4	744.4	185.3	18.2	1,129.2
1996	23.3	^R 147.4	0.2	170.6	513.0	27.6	21.7	733.2	184.4	20.1	^R 1,108.4
1997	22.5	154.0	0.3	180.1	475.7	39.0	17.2	712.2	^R 183.9	19.2	^R 1,091.9
1998	23.9	^R 140.7	0.2	174.6	445.5	43.1	9.4	672.8	^R 181.7	18.8	^R 1,037.8
1999	21.2	^R 137.6	0.1	162.2	444.7	41.1	2.9	650.9	^R 180.3	^R 21.5	^R 1,011.5
2000	22.7	^R 134.0	0.2	171.4	403.1	43.9	4.3	622.9	^R 194.0	^R 20.2	^R 993.7
2001	18.8	133.9	0.2	177.0	^R 415.2	42.5	^R 7.9	^R 642.9	^R 188.7	^R 18.6	^R 1,002.9
2002	^R 16.9	^R 133.9	0.2	^R 166.6	^R 472.9	^R 42.0	^R 6.1	^R 687.9	^R 188.7	^R 18.5	^R 1,045.9
2003 ^P	17.1	135.9	0.2	167.5	473.3	42.0	6.3	689.4	189.3	19.8	1,051.6

¹ Liquefied petroleum gases.

² Other types of fuel used in vehicles and equipment, primarily alternative fuels like methanol, ethanol, compressed natural gas, and biodiesel.

³ "Other" is chilled water, renewable energy, and other fuels reported as used in facilities.

R = Revised. P = Preliminary.

Notes: • The U.S. Government's fiscal year was October 1 through September 30, except in 1975 and 1976, when it was July 1 through June 30. • This table uses a conversion factor for electricity of 3,412 Btu per kilowatt-hour and a conversion factor for purchased steam of 1,000 Btu per pound. • Data include

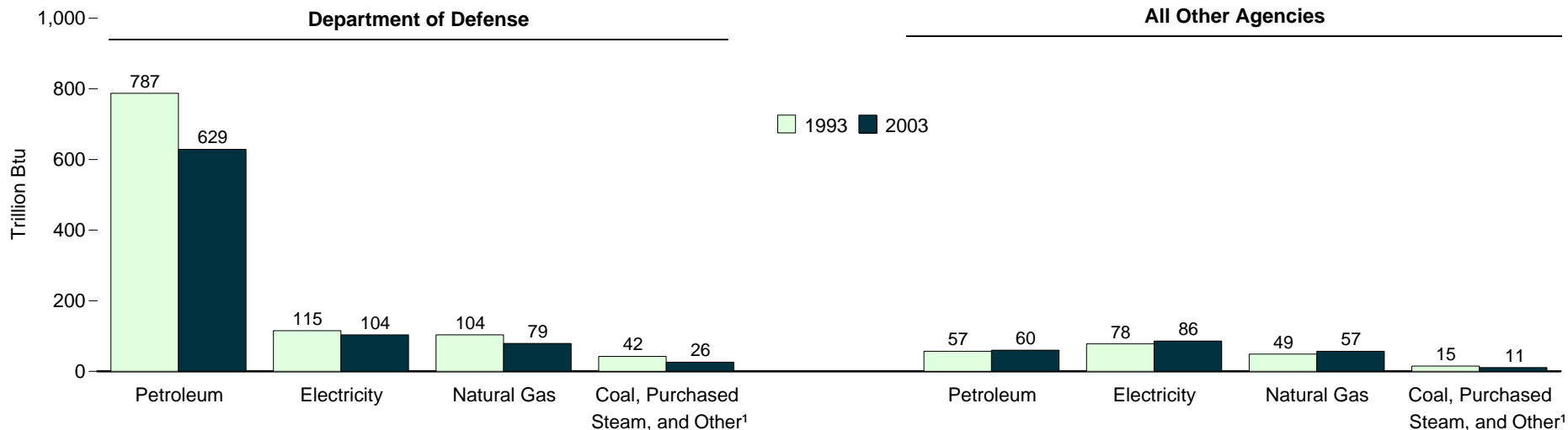
energy consumed at foreign installations and in foreign operations, including aviation and ocean bunkering, primarily by the U.S. Department of Defense. U.S. Government energy use for electricity generation and uranium enrichment is excluded. • Totals may not equal sum of components due to independent rounding.

Web Page: See http://www.eere.energy.gov/femp/aboutfemp/annual_reports/ann_overview.html for related information.

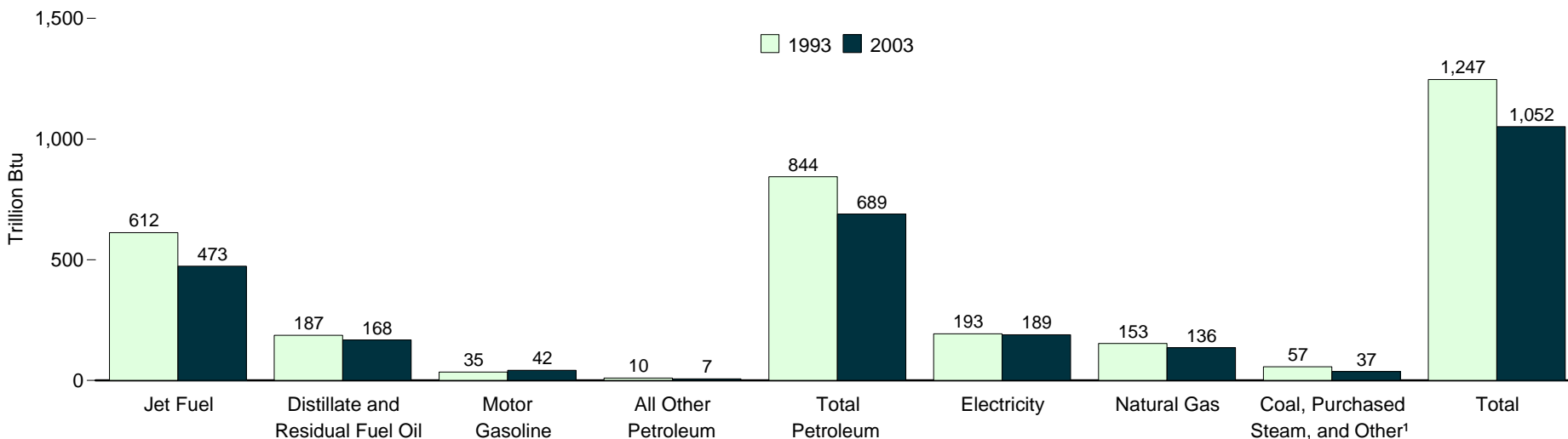
Source: U.S. Department of Energy, Energy Efficiency and Renewable Energy, Office of Federal Energy Management Programs.

Figure 1.13 U.S. Government Energy Consumption by Agency and Source, Fiscal Years 1993 and 2003

By Agency



By Source



¹ Chilled water, renewable energy, and other fuels reported as used in facilities.
 Notes: • The U.S. Government's fiscal year runs from October 1 through September 30.
 • Because vertical scales differ, graphs should not be compared.

Source: Table 1.13.

Table 1.13 U.S. Government Energy Consumption by Agency and Source, Fiscal Years 1993 and 2003
(Trillion Btu)

Agency	Coal	Natural Gas	Petroleum					Electricity	Purchased Steam and Other ³	Total	
			Aviation Gasoline	Distillate and Residual Fuel Oil	Jet Fuel	Motor Gasoline	LPG ¹ and Other ²				
Total, 1993	38.3	152.9	0.7	187.0	612.4	34.5	9.3	843.9	193.0	18.6	1,246.7
Defense	28.7	103.6	0.0	171.5	602.9	10.7	2.3	787.4	115.4	13.7	1,048.8
Energy	9.2	11.9	0.0	2.3	0.4	1.2	0.5	4.4	17.5	0.4	43.4
Postal Service	0.0	6.0	0.0	3.2	0.0	10.3	0.0	13.6	13.6	0.5	33.7
Veterans Affairs	0.1	13.8	0.0	1.6	0.0	0.6	0.0	2.2	8.4	1.2	25.7
Transportation	0.0	1.5	0.1	1.0	5.6	0.6	4.4	11.8	6.0	0.1	19.4
General Services Administration	0.0	2.8	0.0	0.4	0.0	0.1	0.0	0.5	9.3	1.5	14.1
NASA	0.0	2.4	0.0	1.0	1.4	0.3	0.0	2.7	7.0	0.3	12.4
Agriculture	0.0	1.7	0.1	0.6	0.0	4.6	0.2	5.4	2.1	0.1	9.3
Justice	0.2	3.2	0.1	0.3	0.6	2.0	0.0	3.1	2.4	0.2	9.1
Interior	0.1	0.8	0.0	1.2	0.1	1.8	1.5	4.7	1.8	0.1	7.5
Health and Human Services	0.0	2.6	0.0	1.4	0.0	0.2	0.3	1.9	2.7	0.1	7.2
Other ⁴	0.0	2.5	0.3	2.4	1.3	2.2	0.0	6.2	6.8	0.6	16.1
Total, 2003^P	17.1	135.9	0.2	167.5	473.3	42.0	6.3	689.4	189.3	19.8	1,051.6
Defense	14.9	79.2	0.0	145.7	465.3	13.9	4.2	629.0	103.6	11.3	837.9
Energy	2.0	6.7	0.0	2.2	0.0	0.9	0.2	3.3	17.7	1.6	31.3
Postal Service	0.0	7.5	0.0	5.2	0.0	11.7	0.2	17.1	16.4	0.6	41.6
Veterans Affairs	0.2	14.9	0.0	1.8	0.0	0.7	0.0	2.4	10.0	1.7	29.3
Transportation	0.0	0.7	0.0	6.6	0.6	0.7	0.1	8.0	3.2	0.0	12.0
General Services Administration	0.0	6.8	0.0	0.1	0.0	0.1	0.0	0.2	9.8	1.8	18.5
NASA	0.0	2.9	0.0	0.5	0.6	0.1	0.1	1.2	5.7	0.2	9.9
Agriculture	0.0	1.7	0.0	0.3	0.0	2.3	0.2	2.9	2.3	0.4	7.3
Justice	0.0	6.3	0.1	0.7	1.5	5.6	0.1	7.9	4.6	0.7	19.5
Interior	0.0	1.4	0.0	1.2	0.1	2.4	0.8	4.6	1.8	0.1	7.9
Health and Human Services	0.0	3.6	0.0	0.8	0.0	0.1	0.2	1.1	3.2	0.4	8.3
Other ⁵	0.0	4.2	0.0	2.5	5.2	3.5	0.4	11.6	11.1	1.2	28.1

¹ Liquefied petroleum gases.

² Other types of fuel used in vehicles and equipment, primarily alternative fuels like methanol, ethanol, compressed natural gas, and biodiesel.

³ "Other" is chilled water, renewable energy, and other fuels reported as used in facilities.

⁴ Includes U.S. Department of Commerce, Panama Canal Commission, Tennessee Valley Authority, U.S. Department of Labor, U.S. Information Agency, U.S. Department of Housing and Urban Development, Federal Communications Commission, Office of Personnel Management, U.S. Department of State, Federal Emergency Management Agency, U.S. Department of the Treasury, National Archives and Records Administration, Nuclear Regulatory Commission, Railroad Retirement Board, Federal Trade Commission, Commodity Futures Trading Commission, Equal Employment Opportunity Commission, and Environmental Protection Agency.

⁵ Includes National Archives and Records Administration, U.S. Department of Commerce, U.S. Department of Labor, U.S. Department of State, Environmental Protection Agency, Federal Communications Commission, Federal Trade Commission, Social Security Administration, International Broadcasting Bureau, Equal Employment Opportunity Commission, Nuclear Regulatory Commission, Office

of Personnel Management, U.S. Department of Homeland Security, U.S. Department of Housing and Urban Development, U.S. Department of the Treasury, Railroad Retirement Board, Tennessee Valley Authority, Federal Emergency Management Agency, Central Intelligence Agency, and National Science Foundation.

P=Preliminary.

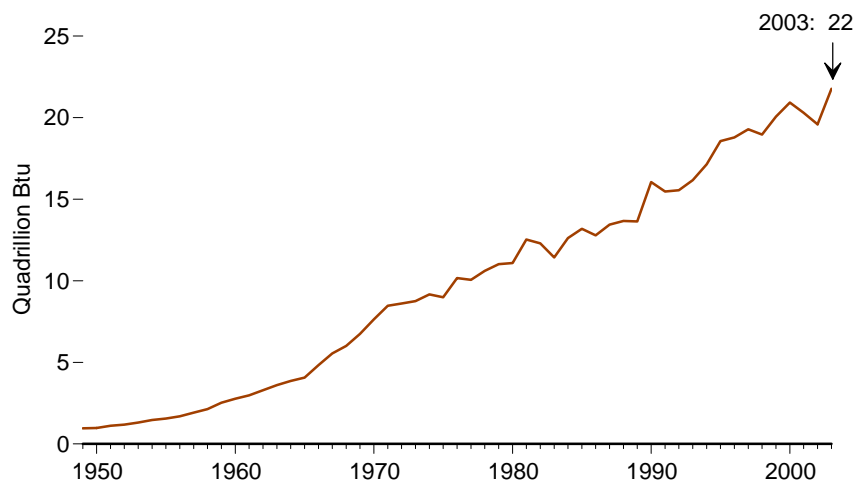
Notes: • The U.S. Government's fiscal year runs from October 1 through September 30. • This table uses a conversion factor for electricity of 3,412 Btu per kilowatt-hour and a conversion factor for purchased steam of 1,000 Btu per pound. • Data include energy consumed at foreign installations and in foreign operations, including aviation and ocean bunkering, primarily by the U.S. Department of Defense. U.S. Government energy use for electricity generation and uranium enrichment is excluded. • Totals may not equal sum of components due to independent rounding.

Web Page: See http://www.eere.energy.gov/femp/aboutfemp/annual_reports/ann_overview.html for related information.

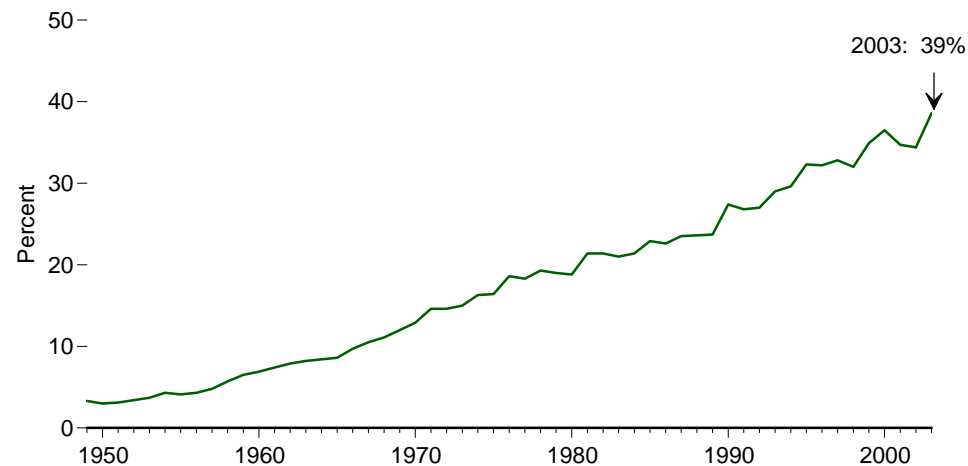
Source: U.S. Department of Energy, Energy Efficiency and Renewable Energy, Office of Federal Energy Management Programs.

Figure 1.14 Fossil Fuel Production on Federally Administered Lands

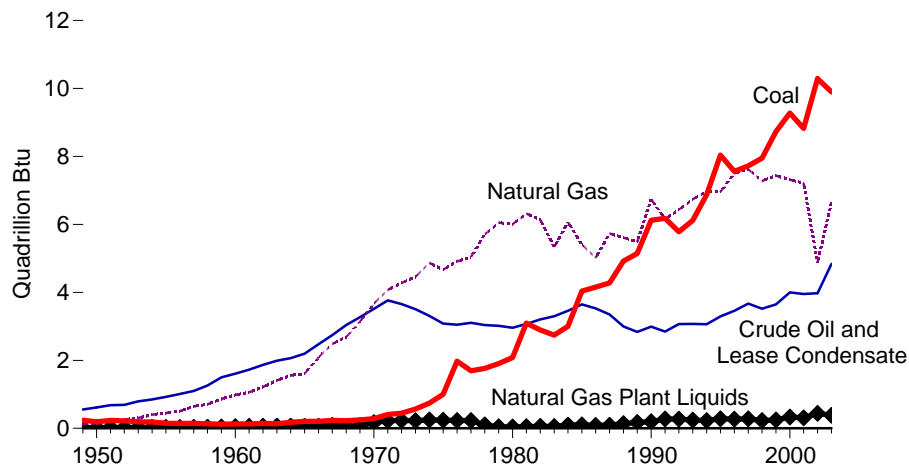
Total, 1949-2003



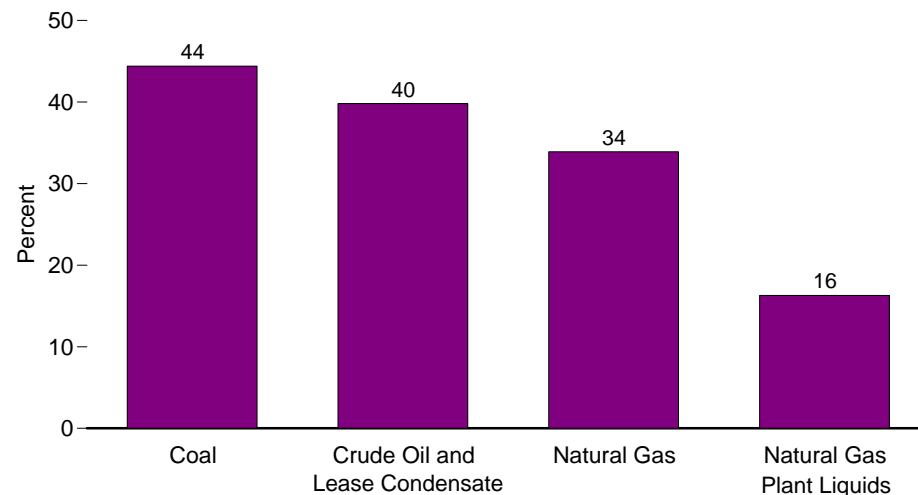
Federal Lands Fossil Fuel Production as a Share of U.S. Fossil Fuel Production, 1949-2003



By Source, 1949-2003



Federal Lands Fossil Fuel Production as a Share of U.S. Fossil Fuel Production, By Source, 2003



Notes: • All data are on a calendar-year basis except 2001, which is on a fiscal-year basis (October 2000–September 2001). • “Federally Administered Lands” include all classes of land

owned by the Federal Government, including acquired military, Outer Continental Shelf, and public lands. • Because vertical scales differ, graphs should not be compared.
Source: Table 1.14.

Table 1.14 Fossil Fuel Production on Federally Administered Lands, Selected Years, 1949-2003

Year	Crude Oil and Lease Condensate ¹			Natural Gas Plant Liquids ²			Natural Gas ³			Coal			Fossil Fuels	
	Million Barrels	Quadrillion Btu ⁴	Percent U.S. Total ⁵	Million Barrels	Quadrillion Btu ⁴	Percent U.S. Total ⁵	Trillion Cubic Feet	Quadrillion Btu ⁴	Percent U.S. Total ⁵	Million Short Tons	Quadrillion Btu ⁴	Percent U.S. Total ⁵	Quadrillion Btu ⁴	Percent U.S. Total
1949	95.2	0.55	5.2	4.4	0.02	2.8	0.15	0.15	2.8	9.5	R0.24	2.0	R0.96	R3.3
1950	105.9	0.61	5.4	4.4	0.02	2.4	0.14	0.15	2.4	7.7	R0.19	1.4	R0.98	R3.0
1955	159.5	0.92	6.4	6.0	0.03	2.1	0.43	0.45	4.8	5.9	R0.15	1.2	R1.55	4.1
1960	277.3	1.61	10.8	11.6	0.05	3.4	0.95	0.98	7.8	5.2	R0.13	1.2	R2.77	6.9
1965	378.6	2.20	13.3	14.3	0.06	3.2	1.56	1.61	10.2	8.2	R0.20	1.6	R4.07	R8.6
1970	605.6	3.51	17.2	40.6	0.17	6.7	3.56	3.67	16.9	12.0	R0.29	2.0	R7.64	R12.9
1971	648.9	3.76	18.8	54.0	0.22	8.7	3.95	4.08	18.3	17.3	R0.41	3.1	R8.47	R14.6
1972	630.5	3.66	18.2	56.7	0.23	8.9	4.17	4.28	19.3	19.0	R0.44	3.1	R8.61	R14.6
1973	604.3	3.51	18.0	54.9	0.22	8.7	4.37	4.46	20.1	24.2	R0.57	4.1	R8.75	R15.0
1974	570.2	3.31	17.8	61.9	0.25	10.1	4.75	4.87	22.9	32.1	R0.74	5.3	R9.16	R16.3
1975	531.5	3.08	17.4	59.7	0.24	10.0	4.57	4.67	23.8	43.6	R1.00	6.7	R8.99	R16.4
1976	525.7	3.05	17.7	57.2	0.23	9.7	4.81	4.91	25.2	86.4	R1.98	12.6	R10.16	R18.6
1977	535.0	3.10	17.8	57.4	0.23	9.7	4.94	5.04	25.8	74.8	R1.69	10.7	R10.06	R18.3
1978	523.6	3.04	16.5	25.9	0.10	4.5	5.60	5.71	29.3	79.2	R1.76	11.8	R10.61	R19.3
1979	519.8	3.01	16.7	11.9	0.05	2.1	5.93	6.05	30.1	84.9	R1.91	10.9	R11.02	R19.0
1980	510.4	2.96	16.2	10.5	0.04	1.8	5.85	6.01	30.2	92.9	R2.08	11.2	R11.09	R18.8
1981	529.3	3.07	16.9	12.3	0.05	2.1	6.15	6.31	32.1	138.8	R3.10	16.8	R12.53	R21.4
1982	552.3	3.20	17.5	15.0	0.06	2.7	5.97	6.14	33.5	130.0	R2.89	15.5	R12.29	R21.4
1983	568.8	3.30	17.9	14.0	0.05	2.5	5.17	5.33	32.1	124.3	R2.74	15.9	R11.43	R21.0
1984	595.8	3.46	18.3	25.4	0.10	4.3	5.88	6.07	33.7	136.3	R3.00	15.2	R12.62	R21.4
1985	628.3	3.64	19.2	26.6	0.10	4.5	5.24	5.41	31.8	184.6	R4.04	20.9	R13.19	R22.9
1986	608.4	3.53	19.2	23.3	0.09	4.1	4.87	5.01	30.3	189.7	R4.16	21.3	R12.79	R22.6
1987	577.3	3.35	18.9	23.7	0.09	4.1	5.56	5.73	33.4	195.2	R4.28	21.2	R13.45	R23.5
1988	516.3	2.99	17.3	37.0	0.14	6.2	5.45	5.61	31.9	225.4	R4.92	23.7	R13.67	R23.6
1989	488.9	2.84	17.6	45.1	0.17	8.0	5.32	5.49	30.7	236.3	R5.14	24.1	R13.64	R23.7
1990	515.9	2.99	19.2	50.9	0.19	8.9	6.55	6.74	36.8	280.6	R6.12	27.3	R16.05	R27.4
1991	491.0	2.85	18.1	72.7	0.28	12.0	5.99	6.17	33.8	285.1	R6.18	28.6	R15.47	R26.8
1992	529.1	3.07	20.2	70.7	0.27	11.4	6.25	6.43	35.0	266.7	R5.78	26.7	R15.55	R27.0
1993	529.3	3.07	21.2	64.4	0.24	10.2	6.56	6.74	36.3	285.7	R6.12	30.2	R16.17	R29.0
1994	527.7	3.06	21.7	60.0	0.23	9.5	6.78	6.97	36.0	321.4	R6.88	31.1	R17.14	R29.6
1995	567.4	3.29	23.7	74.0	0.28	11.5	6.78	6.96	36.4	376.9	R8.04	36.5	R18.56	R32.3
1996	596.5	3.46	25.2	71.2	0.27	10.6	7.31	7.50	38.8	354.5	R7.56	33.3	R18.79	R32.2
1997	632.8	3.67	26.9	74.7	0.28	11.3	7.43	7.62	39.3	362.6	R7.72	33.3	R19.29	R32.8
1998	⁶ 606.3	3.52	26.6	⁶ 60.3	0.23	9.4	⁶ 7.06	7.27	37.1	371.1	R7.95	33.2	R18.97	R32.0
1999	⁷ 628.9	⁷ 3.65	⁷ 29.3	⁷ 66.5	⁷ 0.25	⁷ 9.9	⁷ 7.24	⁷ 7.44	⁷ 38.4	414.5	R8.73	37.7	⁷ R20.07	⁷ R34.9
2000	689.2	4.00	32.3	88.9	0.33	12.7	7.14	7.32	37.2	440.2	R9.27	41.0	R20.92	36.5
2001	681.8	3.95	32.2	82.0	0.31	12.0	7.00	^R 7.21	^R 35.7	422.9	R8.82	37.5	R20.29	R34.7
2002 ^E	^R 685.7	^R 3.98	^R 32.7	^R 117.5	^R 0.44	^R 17.1	^R 4.75	^R 4.89	^R 25.1	^R 496.0	^R 10.29	^R 45.3	^R 19.59	^R 34.4
2003 ^P	834.3	4.84	39.8	102.0	0.38	16.3	6.47	6.65	33.9	474.4	9.90	44.4	21.77	38.6

¹ Production from Naval Petroleum Reserve No. 1 for 1974 and earlier years is for fiscal years (July through June).

² Includes only those quantities for which the royalties were paid on the basis of the value of the natural gas plant liquids produced. Additional quantities of natural gas plant liquids were produced; however, the royalties paid were based on the value of natural gas processed. These latter quantities are included with natural gas.

³ Includes some quantities of natural gas processed into liquids at natural gas processing plants and fractionators.

⁴ Converted to British thermal units (Btu) using approximate heat contents for total U.S. production. See Tables A2, A4, and A5.

⁵ Based on physical units.

⁶ There is a discontinuity in this time series between 1997 and 1998 due to the sale of "Elk Hills," Naval Petroleum Reserve No. 1.

⁷ There is a discontinuity in this time series between 1998 and 1999; beginning in 1999 Naval Petroleum Reserve data have become insignificant and are no longer included.

R=Revised. P=Preliminary. E=Estimate.

Note: "Federally Administered Lands" include all classes of land owned by the Federal Government, including acquired military, Outer Continental Shelf, and public lands.

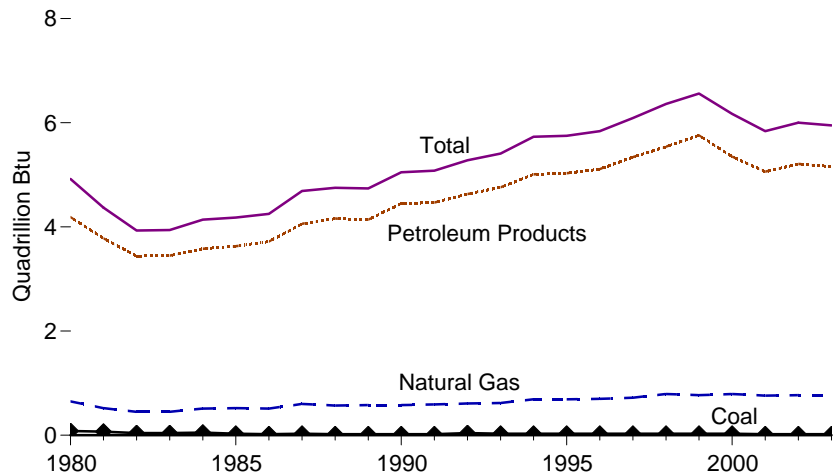
Web Pages: • For data not shown for 1951-1969, see <http://www.eia.doe.gov/emeu/aer/overview.html>.

• For related information, see <http://www.mrm.mms.gov>.

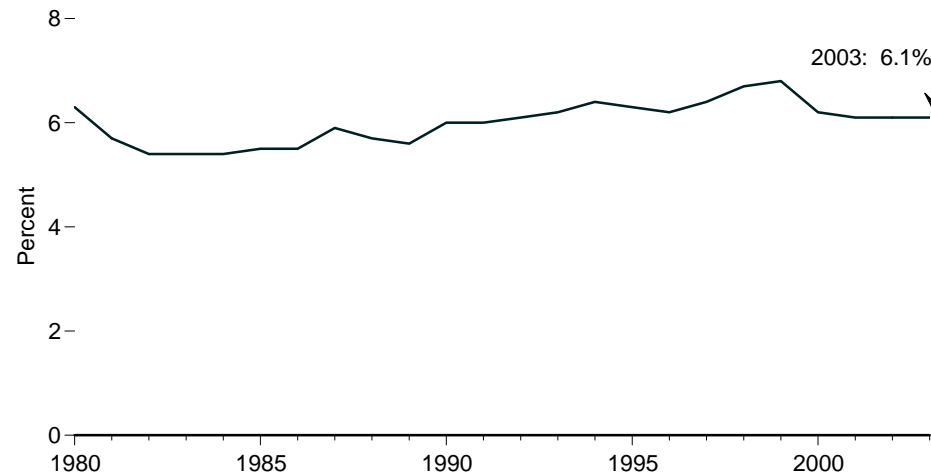
Sources: • 1949-1980—U.S. Geological Survey, *Oil and Gas Production, Royalty Income, and Production, Royalty Income, and Related Statistics, and Coal, Phosphate, Potash, Sodium, and Other Mineral Production, Royalty Income, and Related Statistics* (June 1981); Department of Energy (DOE), Office of Naval Petroleum and Oil Shale Reserves (NPOSR), unpublished data; and U.S. Geological Survey, National Petroleum Reserve in Alaska, unpublished data. • 1981-1983—U.S. Department of Interior (DOI), U.S. Minerals Management Service (MMS), *Mineral Revenues Report on Receipts from Federal and Indian Leases*, annual reports; DOE, NPOSR, unpublished data; and U.S. Geological Survey, National Petroleum Reserve in Alaska, unpublished data. • 1984-1998—DOI, MMS, *Mineral Revenues Report on Receipts from Federal and Indian Leases*, annual reports; and DOE, NPOSR, unpublished data. • 1999-2001—DOI, MMS, *Mineral Revenues Report on Receipts from Federal and American Indian Leases*, annual reports. • 2002 and 2003—DOI, MMS unpublished data.

Figure 1.15 Fossil Fuel Consumption for Nonfuel Use

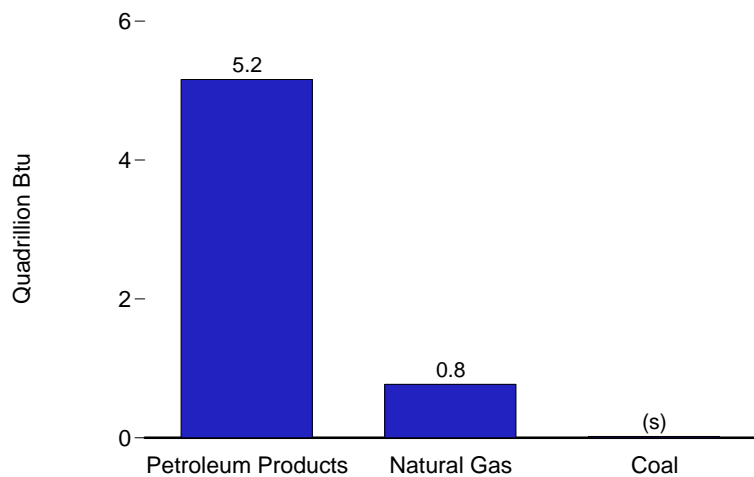
Total, 1980-2003



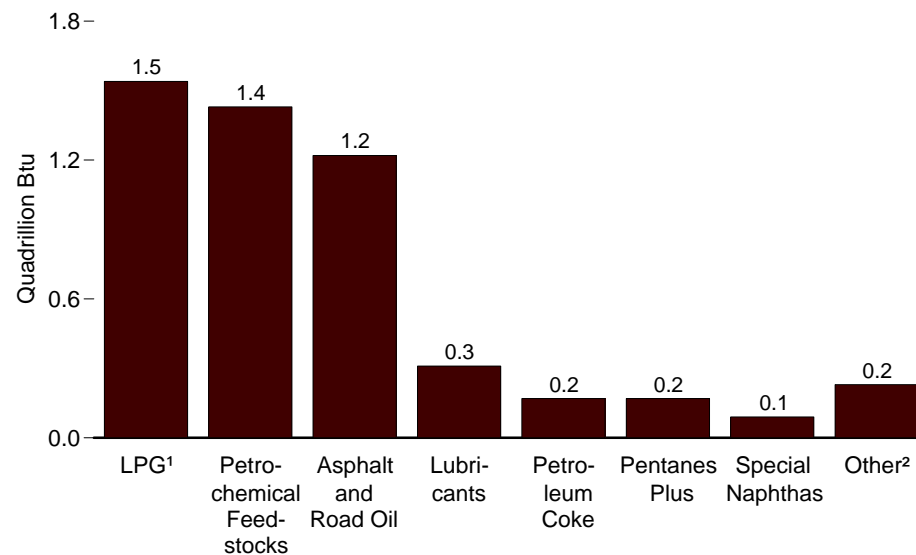
As Share of Total Energy Consumption, 1980-2003



By Fuel, 2003



By Petroleum Product, 2003



¹ Liquefied petroleum gases.

² Distillate fuel oil, residual fuel oil, waxes, and miscellaneous products.

(s)=Less than 0.05 quadrillion Btu.

Notes: • See Note, "Nonfuel Use of Fossil Fuels," at end of section. • Because vertical scales differ, graphs should not be compared.

Source: Table 1.15.

Table 1.15 Fossil Fuel Consumption for Nonfuel Use, 1980-2003

Year	Petroleum Products									Natural Gas	Coal	Total	Percent of Total Energy Consumption
	Asphalt and Road Oil	Liquefied Petroleum Gases	Pentanes Plus	Lubricants	Petro-chemical Feedstocks	Petroleum Coke	Special Naphthas	Other ¹	Total				
Physical Units ²													
1980	145	230	(³)	58	253	24	37	58	805	639	2.4	—	—
1981	125	229	(³)	56	216	29	27	54	736	507	2.1	—	—
1982	125	256	(³)	51	157	23	25	48	686	438	1.4	—	—
1983	136	264	(³)	53	151	10	30	45	689	441	1.2	—	—
1984	150	247	10	57	145	16	40	41	705	495	1.5	—	—
1985	156	265	13	53	144	15	30	41	718	500	1.1	—	—
1986	164	248	17	52	169	14	25	38	727	496	0.7	—	—
1987	170	303	12	59	170	24	28	36	802	578	0.8	—	—
1988	171	319	21	57	173	25	22	40	827	554	0.7	—	—
1989	165	332	17	58	172	23	20	39	827	563	0.6	—	—
1990	176	344	18	60	199	30	20	39	886	^R 562	0.6	—	—
1991	162	394	10	53	200	25	17	44	906	573	0.6	—	—
1992	166	397	13	54	214	38	20	35	938	594	1.2	—	—
1993	174	389	60	55	216	21	20	33	969	^R 607	0.9	—	—
1994	176	437	56	58	222	23	15	35	1,022	673	0.9	—	—
1995	178	450	66	57	215	22	13	34	1,035	^R 668	0.9	—	—
1996	177	470	69	55	217	25	14	34	1,061	^R 680	0.9	—	—
1997	184	473	65	58	250	20	14	35	1,100	^R 705	0.9	—	—
1998	190	494	44	61	252	35	20	39	1,137	762	0.8	—	—
1999	200	520	57	62	238	47	28	37	1,188	^R 753	0.8	—	—
2000	192	^R 479	51	61	243	23	19	38	^R 1,106	^R 768	0.8	—	—
2001	^R 189	^R 445	44	56	214	34	15	39	^R 1,036	^R 736	0.7	—	—
2002	187	^R 465	37	55	^R 229	^R 39	^R 20	40	^R 1,072	^R 749	0.8	—	—
2003 ^P	183	440	37	52	256	29	16	40	1,052	748	0.8	—	—
Quadrillion Btu													
1980	0.96	0.78	(³)	0.35	1.43	0.14	0.19	0.34	4.19	0.65	0.08	4.92	6.3
1981	0.83	0.77	(³)	0.34	1.21	0.17	0.14	0.31	3.78	0.52	0.07	4.37	5.7
1982	0.83	0.87	(³)	0.31	0.88	0.14	0.13	0.28	3.44	0.45	0.04	3.93	5.4
1983	0.90	0.89	(³)	0.32	0.85	0.06	0.16	0.26	3.45	0.45	0.04	3.94	5.4
1984	0.99	0.84	0.05	0.35	0.82	0.09	0.21	0.24	3.58	0.51	0.05	4.14	5.4
1985	1.03	0.90	0.06	0.32	0.82	0.09	0.16	0.24	3.63	0.52	0.03	4.18	5.5
1986	1.09	0.85	0.08	0.31	0.95	0.08	0.13	0.22	3.72	0.51	0.02	4.25	5.5
1987	1.13	1.06	0.06	0.36	0.96	0.14	0.14	0.21	4.06	0.60	0.03	4.69	5.9
1988	1.14	1.11	0.10	0.34	0.97	0.15	0.11	0.23	4.16	0.57	0.02	4.75	5.7
1989	1.10	1.18	0.08	0.35	0.96	0.14	0.11	0.23	4.14	0.58	0.02	4.74	5.6
1990	1.17	1.20	0.08	0.36	1.12	0.18	0.11	0.23	4.45	^R 0.58	0.02	^R 5.05	6.0
1991	1.08	1.38	0.04	0.32	1.15	0.15	0.09	0.26	4.47	0.59	0.02	5.08	6.0
1992	1.10	1.39	0.06	0.33	1.20	0.23	0.10	0.20	4.63	0.61	0.04	5.28	6.1
1993	1.15	1.35	0.28	0.34	1.22	0.12	0.10	0.20	4.76	^R 0.62	0.03	^R 5.41	6.2
1994	1.17	1.55	0.26	0.35	1.26	0.14	0.08	0.20	5.01	0.69	0.03	5.73	6.4
1995	1.18	1.59	0.30	0.35	1.21	0.13	0.07	0.20	5.03	^R 0.69	0.03	^R 5.75	6.3
1996	1.18	1.65	0.32	0.34	1.21	0.15	0.07	0.20	5.11	^R 0.70	0.03	^R 5.84	6.2
1997	1.22	1.67	0.30	0.35	1.40	0.12	0.07	0.21	5.34	^R 0.72	0.03	^R 6.09	6.4
1998	1.26	1.74	0.20	0.37	1.40	0.21	0.11	0.23	5.54	0.79	0.03	6.36	6.7
1999	1.32	1.82	0.26	0.37	1.33	0.28	0.15	0.22	5.76	^R 0.77	0.03	^R 6.56	^R 6.8
2000	1.28	^R 1.67	0.24	0.37	1.35	0.14	0.10	0.22	^R 5.35	^R 0.79	0.03	^R 6.17	6.2
2001	1.26	^R 1.55	0.20	0.34	1.19	0.21	0.08	0.23	^R 5.06	^R 0.76	0.02	^R 5.84	^R 6.1
2002	1.24	^R 1.62	0.17	0.33	^R 1.27	0.23	0.10	0.23	^R 5.21	^R 0.77	0.02	^R 6.00	6.1
2003 ^P	1.22	1.54	0.17	0.31	1.43	0.17	0.09	0.23	5.16	0.77	0.02	5.95	6.1

¹ Distillate fuel oil, residual fuel oil, waxes, and miscellaneous products.

² Petroleum—million barrels; natural gas—billion cubic feet; and coal—million short tons.

³ Included in "Liquefied Petroleum Gases."

R=Revised. P=Preliminary. — = Not applicable.

Notes: • Estimates of consumption for nonfuel use shown in this table are included in total energy consumption (see Table 1.3). • See Note, "Nonfuel Use of Fossil Fuels," at end of section. • Because of changes in methodology, data series may be revised annually. • Estimates of nonfuel use in this table are considered industrial uses with the exception of approximately half of the lubricants which are considered transportation use. • Totals may not equal sum of components due to independent rounding.

Web Page: For related information, see <http://www.eia.doe.gov/environment.html>.

Sources: **Petroleum Products:** • 1980—Energy Information Administration (EIA), Energy Data Reports, *Petroleum Statement, Annual and Sales of Liquefied Petroleum Gases and Ethane in 1980*. • 1981 forward—EIA, *Petroleum Supply Annual*, annual reports, and unpublished data. **Natural Gas:** • 1980—Bureau of the Census, 1980 Survey of Manufactures, *Hydrocarbon, Coal, and Coke Materials Consumed*. • 1981 forward—U.S. Department of Commerce. **Coal:** • 1960-1995—U.S. International Trade Commission, *Synthetic Organic Chemicals, United States Production and Sales, 1995* (January 1997). • 1996 forward—EIA estimates. **Percent of Total Energy Consumption:** Derived by dividing total by total consumption on Table 1.3.

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Note. Nonfuel Use of Fossil Fuels. Most fossil fuels consumed in the United States and elsewhere are combusted to produce heat and power. However, some are used directly for nonfuel use as construction materials, lubricants, chemical feedstocks, solvents, and waxes. For example, asphalt and road oil are used for roofing and paving; liquefied petroleum gases are used to create intermediate products that are used in making plastics; lubricants, including motor oil and greases, are used in

vehicles and various industrial processes; petrochemical feedstocks are used to make plastics, synthetic fabrics, and related products; and natural gas is used to make nitrogenous fertilizers and as feedstock in the chemical industry. For more information, see Energy Information Administration, “Emissions of Greenhouse Gases in the United States” (“Nonfuel Use of Energy Inputs” section in Chapter 2), at <http://www.eia.doe.gov/environment.html>.