

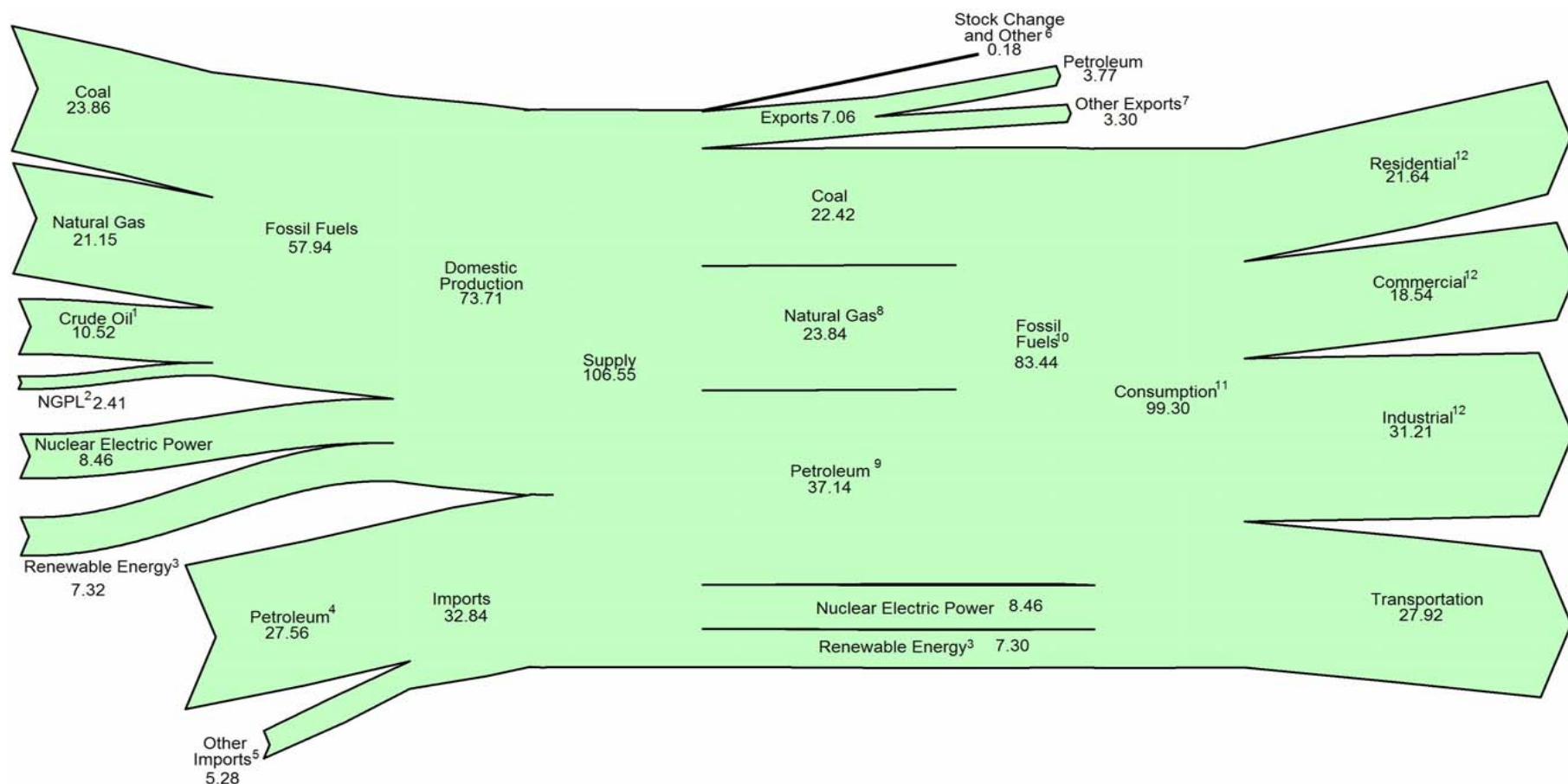
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Energy Overview



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

Figure 1.0 Energy Flow, 2008
(Quadrillion Btu)



¹ Includes lease condensate.

² Natural gas plant liquids.

³ Conventional hydroelectric power, biomass, geothermal, solar/photovoltaic, and wind.

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

⁵ Natural gas, coal, coal coke, fuel ethanol, and electricity.

⁶ Adjustments, losses, and unaccounted for.

⁷ Coal, natural gas, coal coke, and electricity.

⁸ Natural gas only; excludes supplemental gaseous fuels.

⁹ Petroleum products, including natural gas plant liquids, and crude oil burned as fuel.

¹⁰ Includes 0.04 quadrillion Btu of coal coke net imports.

¹¹ Includes 0.11 quadrillion Btu of electricity net imports.

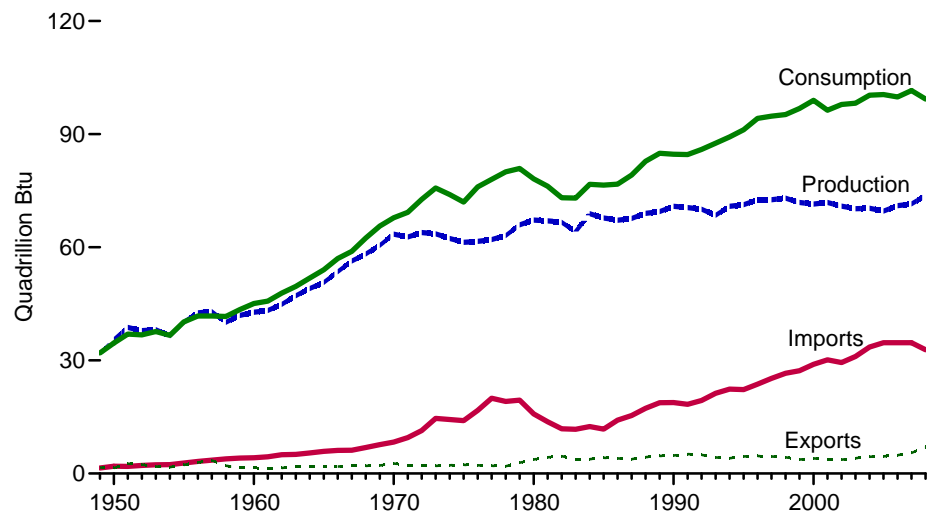
¹² Primary consumption, electricity retail sales, and electrical system energy losses, which are allocated to the end-use sectors in proportion to each sector's share of total electricity retail sales. See Note, "Electrical Systems Energy Losses," at end of Section 2.

Notes: • Data are preliminary. • Values are derived from source data prior to rounding for publication. • Totals may not equal sum of components due to independent rounding.

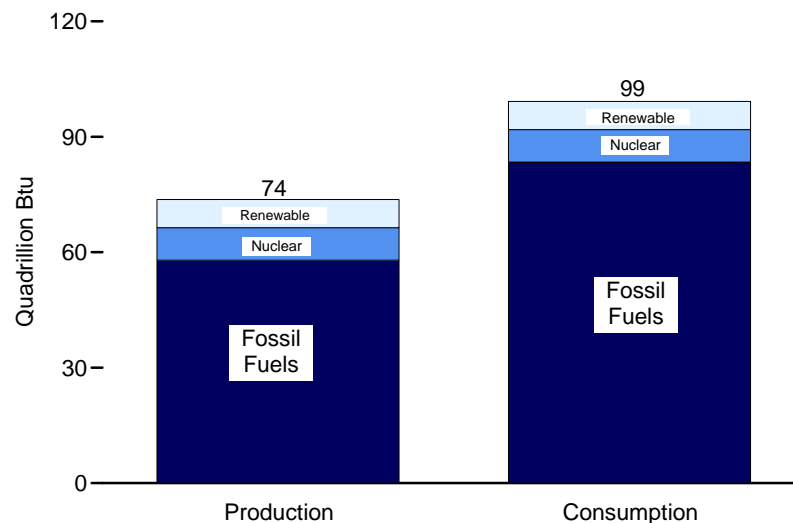
Sources: Tables 1.1, 1.2, 1.3, 1.4, and 2.1a.

Figure 1.1 Primary Energy Overview

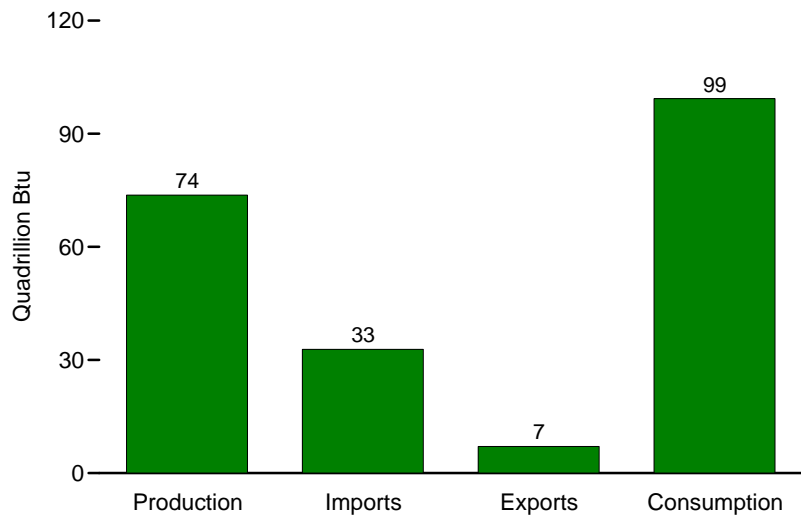
Overview, 1949-2008



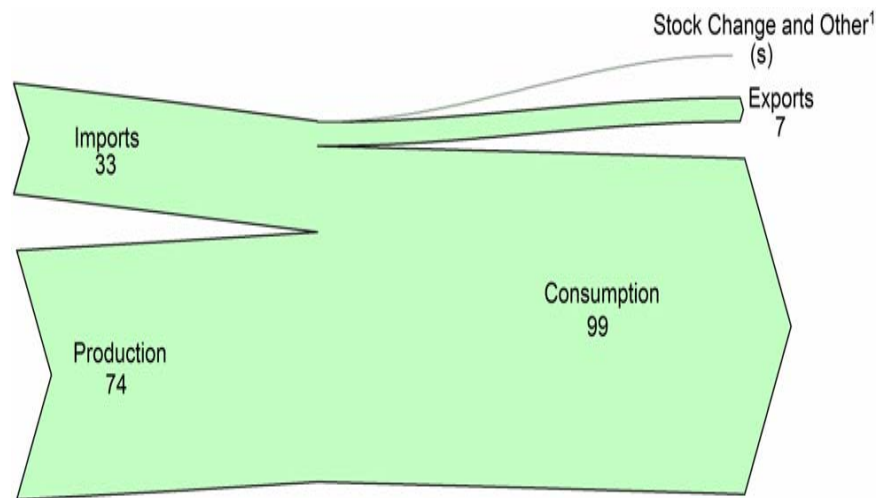
Production and Consumption, 2008



Overview, 2008



Energy Flow, 2008
(Quadrillion Btu)



¹ Adjustments, losses, and unaccounted for.
(s)=Less than 0.5 quadrillion Btu.

Source: Table 1.1.

Table 1.1 Primary Energy Overview, Selected Years, 1949-2008
(Quadrillion Btu)

Year	Production				Trade					Stock Change and Other ⁷	Consumption			
	Fossil Fuels ²	Nuclear Electric Power	Renewable Energy ³	Total	Imports		Exports		Net Imports ¹		Fossil Fuels ⁸	Nuclear Electric Power	Renewable Energy ³	Total ⁹
					Petroleum ⁴	Total ⁵	Coal	Total ⁶	Total					
1949	28.748	0.000	2.974	31.722	1.427	1.448	0.877	1.592	-0.144	0.403	29.002	0.000	2.974	31.982
1950	32.563	.000	2.978	35.540	1.886	1.913	.786	1.465	.448	-1.372	31.632	.000	2.978	34.616
1955	37.364	.000	2.784	40.148	2.752	2.790	1.465	2.286	.504	-.444	37.410	.000	2.784	40.208
1960	39.869	.006	2.929	42.804	3.999	4.188	1.023	1.477	2.710	-.427	42.137	.006	2.929	45.087
1965	47.235	.043	3.398	50.676	5.402	5.892	1.376	1.829	4.063	-.722	50.577	.043	3.398	54.017
1970	59.186	.239	4.076	63.501	7.470	8.342	1.936	2.632	5.709	-1.367	63.522	.239	4.076	67.844
1971	58.042	.413	4.268	62.723	8.540	9.535	1.546	2.151	7.384	-.818	64.596	.413	4.268	69.289
1972	58.938	.584	4.398	63.920	10.299	11.387	1.531	2.118	9.269	-.485	67.696	.584	4.398	72.704
1973	58.241	.910	4.433	63.585	13.466	14.613	1.425	2.033	12.580	-.456	70.316	.910	4.433	75.708
1974	56.331	1.272	4.769	62.372	13.127	14.304	1.620	2.203	12.101	-.482	67.906	1.272	4.769	73.991
1975	54.733	1.900	4.723	61.357	12.948	14.032	1.761	2.323	11.709	-1.067	65.355	1.900	4.723	71.999
1976	54.723	2.111	4.768	61.602	15.672	16.760	1.597	2.172	14.588	-.178	69.104	2.111	4.768	76.012
1977	55.101	2.702	4.249	62.052	18.756	19.948	1.442	2.052	17.896	-1.948	70.989	2.702	4.249	78.000
1978	55.074	3.024	5.039	63.137	17.824	19.106	1.078	1.920	17.186	-.337	71.856	3.024	5.039	79.986
1979	58.006	2.776	5.166	65.948	17.933	19.460	1.753	2.855	16.605	-1.649	72.892	2.776	5.166	80.903
1980	59.008	2.739	5.485	67.232	14.658	15.796	2.421	3.695	12.101	-1.212	69.826	2.739	5.485	78.122
1981	58.529	3.008	^R 5.478	67.014	12.639	13.719	2.944	4.307	9.412	-.258	67.570	3.008	^R 5.478	76.168
1982	57.458	3.131	6.034	66.623	10.777	11.861	2.787	4.608	7.253	-.724	63.888	3.131	6.034	73.153
1983	54.416	3.203	^R 6.562	^R 64.181	10.647	11.752	2.045	3.693	8.059	.799	63.154	3.203	^R 6.562	^R 73.039
1984	58.849	3.553	^R 6.524	^R 68.925	11.433	12.471	2.151	3.786	8.685	-.894	66.504	3.553	^R 6.524	^R 76.715
1985	57.539	4.076	^R 6.187	^R 67.801	10.609	11.781	2.438	4.196	7.584	1.107	66.091	4.076	^R 6.187	^R 76.493
1986	56.575	4.380	^R 6.225	^R 67.180	13.201	14.151	2.248	4.021	10.130	-.552	66.031	4.380	^R 6.225	^R 76.759
1987	57.167	4.754	^R 5.741	^R 67.662	14.162	15.398	2.093	3.812	11.586	-.073	68.522	4.754	^R 5.741	^R 79.175
1988	57.875	5.587	^R 5.570	^R 69.032	15.747	17.296	2.499	4.366	12.929	.860	71.556	5.587	^R 5.570	^R 82.822
1989	57.483	5.602	^R 6.394	^R 69.479	17.162	18.766	2.637	4.661	14.105	1.362	72.913	5.602	^R 6.394	^R 84.946
1990	58.560	6.104	^R 6.208	^R 70.872	17.117	18.817	2.772	4.752	14.065	-.283	72.333	6.104	^R 6.208	^R 84.654
1991	57.872	6.422	^R 6.240	^R 70.534	16.348	18.335	2.854	5.141	13.194	.881	71.880	6.422	^R 6.240	^R 84.609
1992	57.655	6.479	^R 5.995	^R 70.129	16.968	19.372	2.682	4.937	14.435	1.394	73.397	6.479	^R 5.995	^R 85.958
1993	55.822	6.410	^R 6.265	^R 68.497	18.510	21.273	1.962	4.258	17.014	2.094	74.836	6.410	^R 6.264	^R 87.605
1994	58.044	6.694	^R 6.157	^R 70.895	19.243	22.390	1.879	4.061	18.329	.038	76.258	6.694	^R 6.157	^R 89.261
1995	57.540	7.075	^R 6.705	^R 71.320	18.881	22.260	2.318	4.511	17.750	2.104	77.258	7.075	^R 6.707	^R 91.174
1996	58.387	7.087	^R 7.168	^R 72.642	20.284	23.702	2.368	4.633	19.069	2.466	79.783	7.087	^R 7.169	^R 94.176
1997	58.857	6.597	^R 7.181	^R 72.635	21.740	25.215	2.193	4.514	20.701	1.430	80.874	6.597	7.178	^R 94.766
1998	59.314	7.068	6.659	73.041	22.908	26.581	2.092	4.299	22.281	-.139	81.370	7.068	^R 6.658	95.183
1999	57.614	7.610	6.683	71.907	23.133	27.252	1.525	3.715	23.537	1.373	82.428	7.610	6.681	96.817
2000	57.366	7.862	6.262	71.490	24.531	28.973	1.528	4.006	24.967	2.518	84.733	7.862	6.264	98.975
2001	58.541	8.033	5.318	71.892	25.398	30.157	1.265	3.770	26.386	-1.952	82.903	8.033	5.316	96.326
2002	56.894	8.143	5.899	^R 70.935	^R 24.673	29.407	1.032	3.668	25.739	1.184	83.750	8.143	^R 5.894	97.858
2003	56.157	7.959	^R 6.148	70.264	^R 26.218	31.061	1.117	4.054	27.007	.938	84.078	7.959	6.150	98.209
2004	55.914	8.222	6.248	70.384	28.196	33.543	1.253	4.433	29.110	.857	85.830	8.222	^R 6.260	100.351
2005	55.056	8.160	^R 6.410	^R 69.626	^R 29.247	34.710	1.273	4.561	30.149	.710	85.817	8.160	^R 6.423	^R 100.485
2006	^R 55.968	8.214	^R 6.857	^R 71.039	^R 29.162	34.673	1.264	4.868	29.805	^R -.969	^R 84.690	8.214	^R 6.908	^R 99.875
2007	^R 56.246	^R 8.458	6.800	^R 71.504	^R 28.762	^R 34.685	1.507	^R 5.448	29.238	^R .813	^R 86.176	^R 8.458	^R 6.814	^R 101.554
2008 ^P	57.940	8.455	7.316	73.711	27.556	32.840	2.071	7.065	25.775	-.183	83.436	8.455	7.300	99.304

¹ Net imports equal imports minus exports. Minus sign indicates exports are greater than imports.

² Coal, natural gas (dry), crude oil, and natural gas plant liquids.

³ See Tables 10.1-10.2c for notes on series components and estimation.

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

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

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

⁷ Calculated as consumption and exports minus production and imports. Includes petroleum stock change and adjustments; natural gas net storage withdrawals and balancing item; coal stock change,

losses, and unaccounted for; and fuel ethanol stock change.

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

⁹ Also includes electricity net imports.

R=Revised. P=Preliminary.

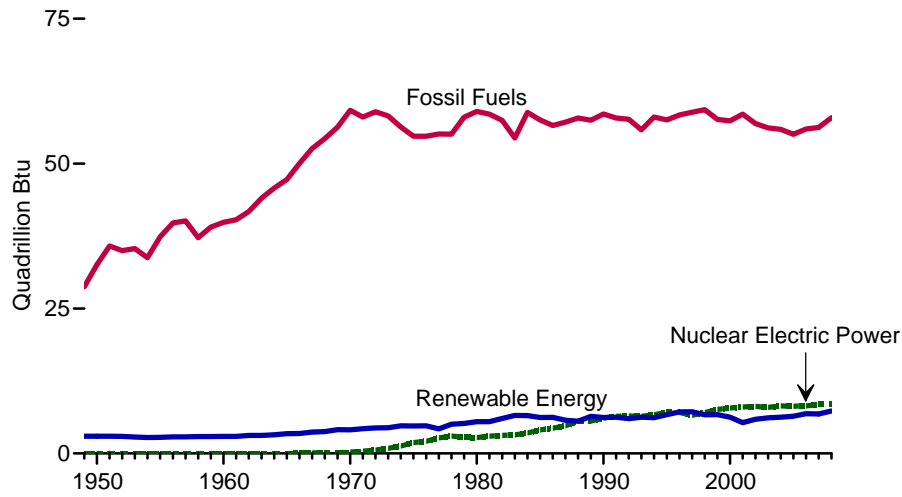
Notes: • See "Primary Energy," "Primary Energy Production," and "Primary Energy Consumption" in Glossary. • Totals may not equal sum of components due to independent rounding.

Web Page: For all data beginning in 1949, see <http://www.eia.doe.gov/emeu/aer/overview.html>.

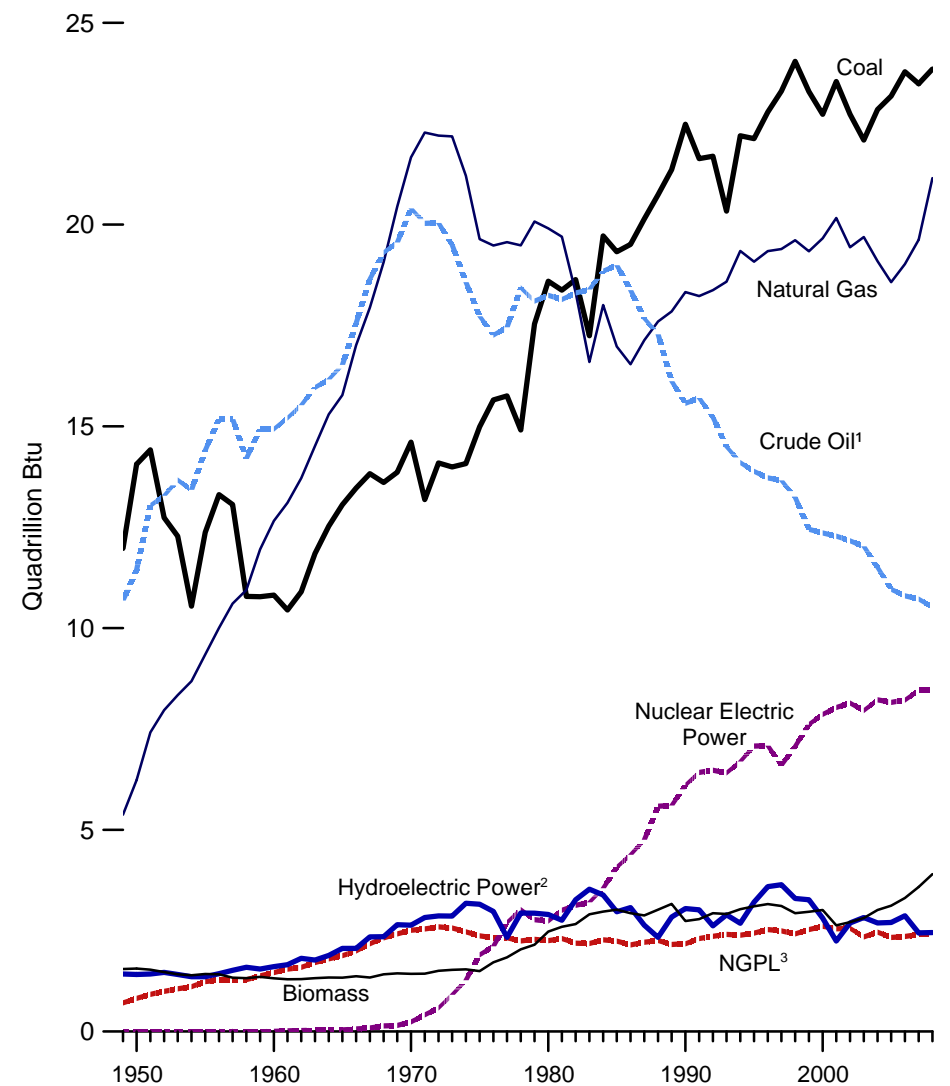
Sources: Tables 1.2, 1.3, and 1.4.

Figure 1.2 Primary Energy Production by Source

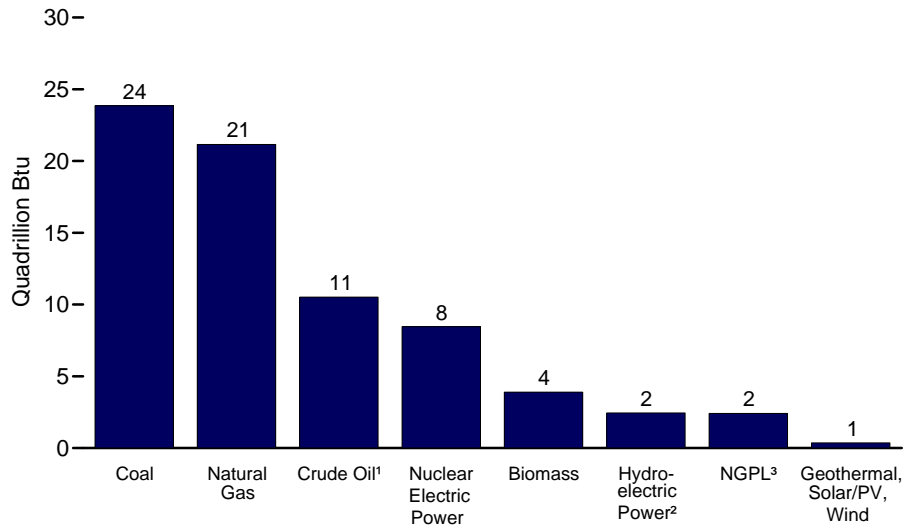
By Source Category, 1949-2008



By Major Source, 1949-2008



By Source, 2008



¹ Includes lease condensate.

² Conventional hydroelectric power.

³ Natural gas plant liquids.

Source: Table 1.2.

Table 1.2 Primary Energy Production by Source, Selected Years, 1949-2008
(Quadrillion Btu)

Year	Fossil Fuels					Nuclear Electric Power	Renewable Energy ¹						Total
	Coal ²	Natural Gas (Dry)	Crude Oil ³	NGPL ⁴	Total		Hydro-electric Power ⁵	Geothermal	Solar/PV	Wind	Biomass	Total	
1949	11.974	5.377	10.683	0.714	28.748	0.000	1.425	NA	NA	NA	1.549	2.974	31.722
1950	14.060	6.233	11.447	.823	32.563	.000	1.415	NA	NA	NA	1.562	2.978	35.540
1955	12.370	9.345	14.410	1.240	37.364	.000	1.360	NA	NA	NA	1.424	2.784	40.148
1960	10.817	12.656	14.935	1.461	39.869	.006	1.608	.001	NA	NA	1.320	2.929	42.804
1965	13.055	15.775	16.521	1.883	47.235	.043	2.059	.004	NA	NA	1.335	3.398	50.676
1970	14.607	21.666	20.401	2.512	59.186	.239	2.634	.011	NA	NA	1.431	4.076	63.501
1971	13.186	22.280	20.033	2.544	58.042	.413	2.824	.012	NA	NA	1.432	4.268	62.723
1972	14.092	22.208	20.041	2.598	58.938	.584	2.864	.031	NA	NA	1.503	4.398	63.920
1973	13.992	22.187	19.493	2.569	58.241	.910	2.861	.043	NA	NA	1.529	4.433	63.585
1974	14.074	21.210	18.575	2.471	56.331	1.272	3.177	.053	NA	NA	1.540	4.769	62.372
1975	14.989	19.640	17.729	2.374	54.733	1.900	3.155	.070	NA	NA	1.499	4.723	61.357
1976	15.654	19.480	17.262	2.327	54.723	2.111	2.976	.078	NA	NA	1.713	4.768	61.602
1977	15.755	19.565	17.454	2.327	55.101	2.702	2.333	.077	NA	NA	1.838	4.249	62.052
1978	14.910	19.485	18.434	2.245	55.074	3.024	2.937	.064	NA	NA	2.038	5.039	63.137
1979	17.540	20.076	18.104	2.286	58.006	2.776	2.931	.084	NA	NA	2.152	5.166	65.948
1980	18.598	19.908	18.249	2.254	59.008	2.739	2.900	.110	NA	NA	2.476	5.485	67.232
1981	18.377	19.699	18.146	2.307	58.529	3.008	2.758	.123	NA	NA	67.014		
1982	18.639	18.319	18.309	2.191	57.458	3.131	3.266	.105	NA	NA	2.664	6.034	66.623
1983	17.247	16.593	18.392	2.184	54.416	3.203	3.527	.129	NA	(s)	^R 64.181		
1984	19.719	18.008	18.848	2.274	58.849	3.553	3.386	.165	(s)	(s)	^R 68.925		
1985	19.325	16.980	18.992	2.241	57.539	4.076	2.970	.198	(s)	(s)	^R 67.801		
1986	19.509	16.541	18.376	2.149	56.575	4.380	3.071	.219	(s)	(s)	^R 67.180		
1987	20.141	17.136	17.675	2.215	57.167	4.754	2.635	.229	(s)	(s)	^R 67.662		
1988	20.738	17.599	17.279	2.260	57.875	5.587	2.334	.217	(s)	(s)	^R 69.032		
1989	² 21.360	17.847	16.117	2.158	57.483	5.602	2.837	.317	.055	.022	^R 69.479		
1990	22.488	18.326	15.571	2.175	58.560	6.104	3.046	.336	.060	.029	^R 70.872		
1991	21.636	18.229	15.701	2.306	57.872	6.422	3.016	.346	.063	.031	^R 70.534		
1992	21.694	18.375	15.223	2.363	57.655	6.479	2.617	.349	.064	.030	^R 70.129		
1993	20.336	18.584	14.494	2.408	55.822	6.410	2.892	.364	.066	.031	^R 68.497		
1994	22.202	19.348	14.103	2.391	58.044	6.694	2.683	.338	.069	.036	^R 70.895		
1995	22.130	19.082	13.887	2.442	57.540	7.075	3.205	.294	.070	.033	^R 71.320		
1996	22.790	19.344	13.723	2.530	58.387	7.087	3.590	.316	.071	.033	^R 72.642		
1997	23.310	19.394	13.658	2.495	58.857	6.597	3.640	.325	.070	.034	^R 72.635		
1998	24.045	19.613	13.235	2.420	59.314	7.068	3.297	.328	.070	.031	2.933	6.659	73.041
1999	23.295	19.341	12.451	2.528	57.614	7.610	3.268	.331	.069	.046	2.969	6.683	71.907
2000	22.735	19.662	12.358	2.611	57.366	7.862	2.811	.317	.066	.057	3.010	6.262	71.490
2001	² 23.547	20.166	12.282	2.547	58.541	8.033	2.242	.311	.065	.070	2.629	5.318	71.892
2002	22.732	19.439	12.163	2.559	56.894	8.143	2.689	.328	.064	.105	2.712	5.899	^R 70.935
2003	22.094	19.691	12.026	2.346	56.157	7.959	2.825	.331	.064	.115	2.815	^R 6.148	70.264
2004	22.852	19.093	11.503	2.466	55.914	8.222	2.690	.341	.065	.142	3.011	6.248	70.384
2005	23.185	18.574	10.963	2.334	55.056	8.160	2.703	.343	.066	.178	^R 6.410	^R 69.626	
2006	23.790	^R 19.022	10.801	2.356	^R 55.968	8.214	2.869	.343	.072	.264	^R 6.857	^R 71.039	
2007	^R 23.493	^R 19.623	^R 10.721	^R 2.409	^R 56.246	^R 8.458	^R 2.446	^R .349	^R .081	^R .341	^R 3.583	6.800	^R 71.504
2008 ^P	23.856	21.150	10.519	2.415	57.940	8.455	2.452	.358	.091	.514	3.900	7.316	73.711

¹ Most data are estimates. See Tables 10.1-10.2c for notes on series components and estimation.

² Beginning in 1989, includes waste coal supplied. Beginning in 2001, also includes a small amount of refuse recovery. See Table 7.1.

³ Includes lease condensate.

⁴ Natural gas plant liquids.

⁵ Conventional hydroelectric power.

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

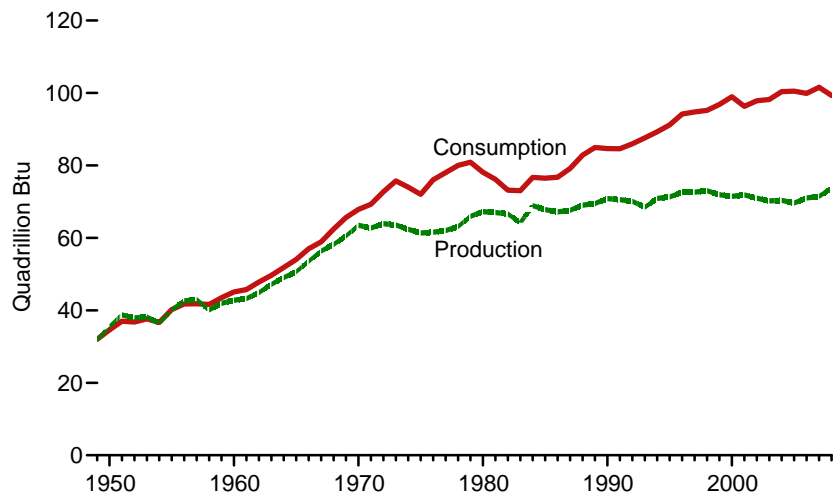
Notes: • See "Primary Energy Production" in Glossary. • Totals may not equal sum of components due to independent rounding.

Web Page: For all data beginning in 1949, see <http://www.eia.doe.gov/emeu/aer/overview.html>.

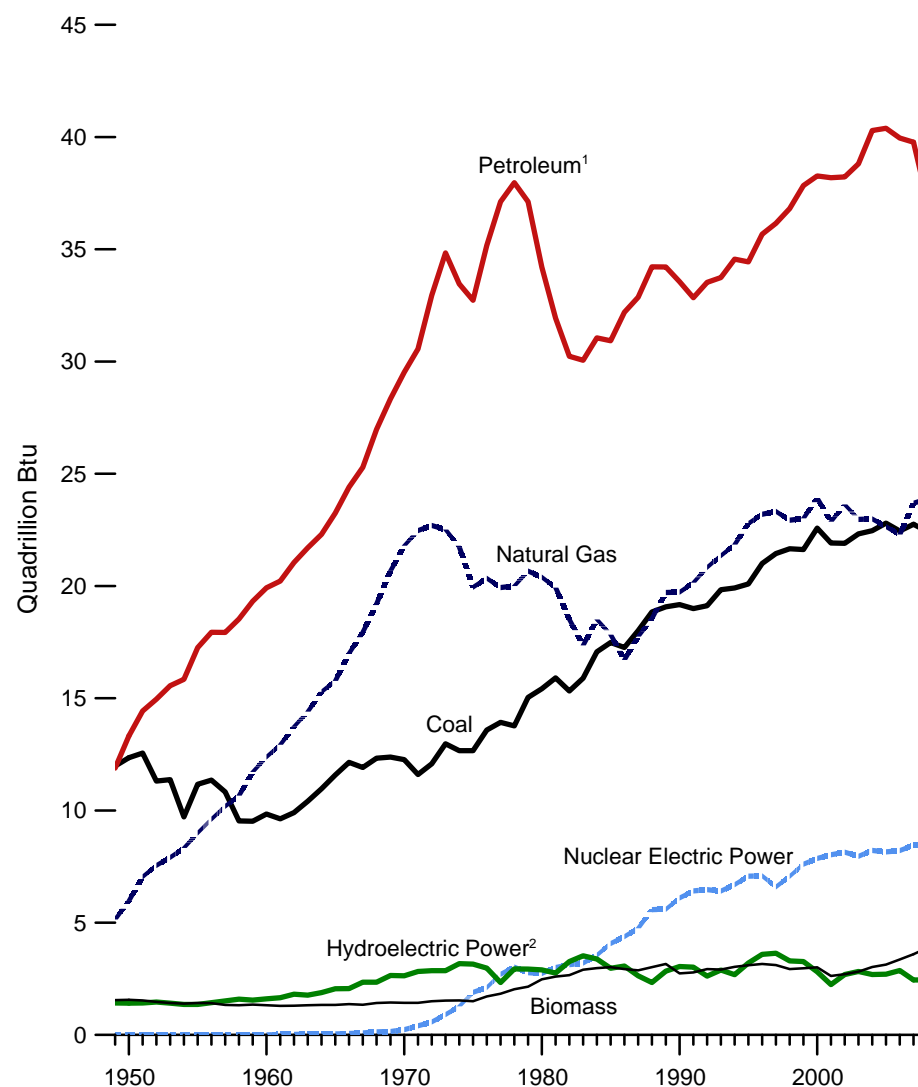
Sources: Tables 5.1, 6.1, 7.1, 8.2a, 10.1, A2, A4, A5, and A6.

Figure 1.3 Primary Energy Consumption by Source

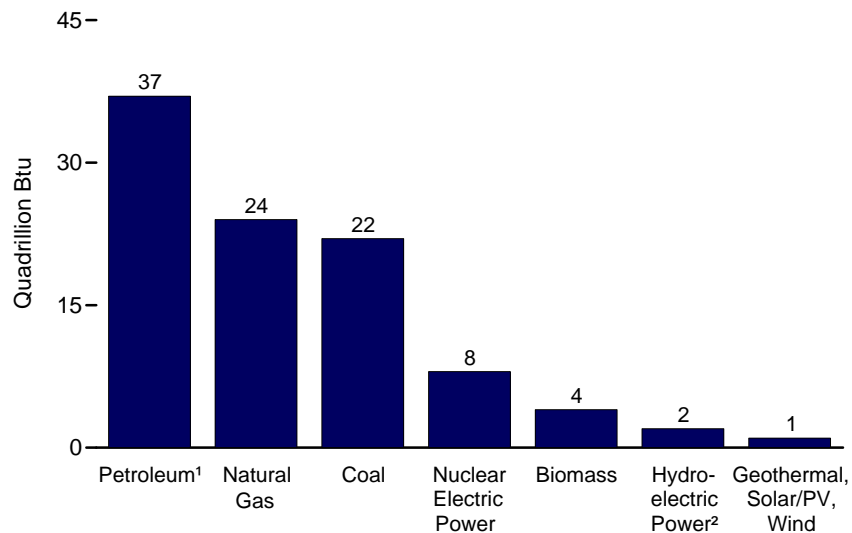
Production and Consumption, 1949-2008



By Major Source, 1949-2008



By Source, 2008



¹ Petroleum products supplied, including natural gas plant liquids and crude oil burned as fuel. Does not include the fuel ethanol portion of motor gasoline—fuel ethanol is included in "Biomass."

² Conventional hydroelectric power. Sources: Tables 1.2 and 1.3.

Table 1.3 Primary Energy Consumption by Source, Selected Years, 1949-2008
(Quadrillion Btu)

Year	Fossil Fuels					Nuclear Electric Power	Renewable Energy ¹						Electricity Net Imports ²	Total
	Coal	Coal Coke Net Imports ²	Natural Gas ³	Petroleum ⁴	Total		Hydro-electric Power ⁵	Geothermal	Solar/PV	Wind	Biomass	Total		
1949	11.981	-0.007	5.145	11.883	29.002	0.000	1.425	NA	NA	NA	1.549	2.974	0.005	31.982
1950	12.347	.001	5.968	13.315	31.632	.000	1.415	NA	NA	NA	1.562	2.978	.006	34.616
1955	11.167	-.010	8.998	17.255	37.410	.000	1.360	NA	NA	NA	1.424	2.784	.014	40.208
1960	9.838	-.006	12.385	19.919	42.137	.006	1.608	.001	NA	NA	1.320	2.929	.015	45.087
1965	11.581	-.018	15.769	23.246	50.577	.043	2.059	.004	NA	NA	1.335	3.398	(s)	54.017
1970	12.265	-.058	21.795	29.521	63.522	.239	2.634	.011	NA	NA	1.431	4.076	.007	67.844
1971	11.598	-.033	22.469	30.561	64.596	.413	2.824	.012	NA	NA	1.432	4.268	.012	69.289
1972	12.077	-.026	22.698	32.947	67.696	.584	2.864	.031	NA	NA	1.503	4.398	.026	72.704
1973	12.971	-.007	22.512	34.840	70.316	.910	2.861	.043	NA	NA	1.529	4.433	.049	75.708
1974	12.663	.056	21.732	33.455	67.906	1.272	3.177	.053	NA	NA	1.540	4.769	.043	73.991
1975	12.663	.014	19.948	32.731	65.355	1.900	3.155	.070	NA	NA	1.499	4.723	.021	71.999
1976	13.584	(s)	20.345	35.175	69.104	2.111	2.976	.078	NA	NA	1.713	4.768	.029	76.012
1977	13.922	.015	19.931	37.122	70.989	2.702	2.333	.077	NA	NA	1.838	4.249	.059	78.000
1978	13.766	.125	20.000	37.965	71.856	3.024	2.937	.064	NA	NA	2.038	5.039	.067	79.986
1979	15.040	.063	20.666	37.123	72.892	2.776	2.931	.084	NA	NA	2.152	5.166	.069	80.903
1980	15.423	-.035	20.235	34.202	69.826	2.739	2.900	.110	NA	NA	2.476	5.485	.071	78.122
1981	15.908	-.016	19.747	31.931	67.570	3.008	2.758	.123	NA	NA	R2.597	R5.478	.113	76.168
1982	15.322	-.022	18.356	30.232	63.888	3.131	3.266	.105	NA	NA	2.664	6.034	.100	73.153
1983	15.894	-.016	17.221	30.054	63.154	3.203	3.527	.129	NA	(s)	R2.906	R6.562	.121	R73.039
1984	17.071	-.011	18.394	31.051	66.504	3.553	3.386	.165	(s)	(s)	R2.973	R6.524	.135	R76.715
1985	17.478	-.013	17.703	30.922	66.091	4.076	2.970	.198	(s)	(s)	R3.018	R6.187	.140	R76.493
1986	17.260	-.017	16.591	32.196	66.031	4.380	3.071	.219	(s)	(s)	R2.934	R6.225	.122	R76.759
1987	18.008	.009	17.640	32.865	68.522	4.754	2.635	.229	(s)	(s)	R2.877	R5.741	.158	R79.175
1988	18.846	.040	18.448	34.222	71.556	5.587	2.334	.217	(s)	(s)	R3.019	R5.570	.108	R82.822
1989	19.070	.030	19.602	34.211	72.913	5.602	2.837	.317	.055	.022	R3.162	R6.394	.037	R84.946
1990	19.173	.005	19.603	33.553	72.333	6.104	3.046	.336	.060	.029	R2.737	R6.208	.008	R84.654
1991	18.992	.010	20.033	32.845	71.880	6.422	3.016	.346	.063	.031	R2.784	R6.240	.067	R84.609
1992	19.122	.035	20.714	33.527	73.397	6.479	2.617	.349	.064	.030	R2.935	R5.995	.087	R85.958
1993	19.835	.027	21.229	33.744	74.836	6.410	2.892	.364	.066	.031	R2.912	R6.264	.095	R87.605
1994	19.909	.058	21.728	34.562	76.258	6.694	2.683	.338	.069	.036	R3.031	R6.157	.153	R89.261
1995	20.089	.061	22.671	34.437	77.258	7.075	3.205	.294	.070	.033	R3.105	R6.707	.134	R91.174
1996	21.002	.023	23.085	35.673	79.783	7.087	3.590	.316	.071	.033	R3.160	R7.169	.137	R94.176
1997	21.445	.046	23.223	36.160	80.874	6.597	3.640	.325	.070	.034	R3.109	R7.178	.116	R94.766
1998	21.656	.067	22.830	36.817	81.370	7.068	3.297	.328	.070	.031	R2.932	R6.658	.088	95.183
1999	21.623	.058	22.909	37.838	82.428	7.610	3.268	.331	.069	.046	R2.968	6.681	.099	96.817
2000	22.580	.065	23.824	38.264	84.733	7.862	2.811	.317	.066	.057	3.013	6.264	.115	98.975
2001	21.914	.029	22.773	38.186	82.903	8.033	2.242	.311	.065	.070	2.627	5.316	.075	96.326
2002	21.904	.061	23.558	38.227	83.750	8.143	2.689	.328	.064	.105	R2.707	R5.894	.072	97.858
2003	22.321	.051	22.897	38.809	84.078	7.959	2.825	.331	.064	.115	2.817	6.150	.022	98.209
2004	22.466	.138	22.931	40.294	85.830	8.222	2.690	.341	.065	.142	3.023	6.260	.039	100.351
2005	22.797	.044	22.583	40.393	85.817	8.160	2.703	.343	.066	.178	R3.133	R6.423	.084	R100.485
2006	22.447	.061	R22.224	39.958	R84.690	8.214	2.869	.343	.072	.264	R3.361	R6.908	.063	R99.875
2007	R22.749	.025	R23.628	R39.773	R86.176	R8.458	R2.446	R.349	R.081	R.341	R3.597	R6.814	.107	R101.554
2008 ^P	22.421	.041	23.838	37.137	83.436	8.455	2.452	.358	.091	.514	3.884	7.300	.112	99.304

¹ Most data are estimates. See Tables 10.1-10.2c for notes on series components and estimation.

² Net imports equal imports minus exports. Minus sign indicates exports are greater than imports.

³ Natural gas only; excludes supplemental gaseous fuels. See Note 1, "Supplemental Gaseous Fuels," at end of Section 6.

⁴ Petroleum products supplied, including natural gas plant liquids and crude oil burned as fuel. Does not include the fuel ethanol portion of motor gasoline—fuel ethanol is included in "Biomass."

⁵ Conventional hydroelectric power.

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

Notes: • See "Primary Energy Consumption" in Glossary. • See Table E1 for estimated energy consumption for 1635-1945. • See Note 3, "Electricity Imports and Exports," at end of Section 8.

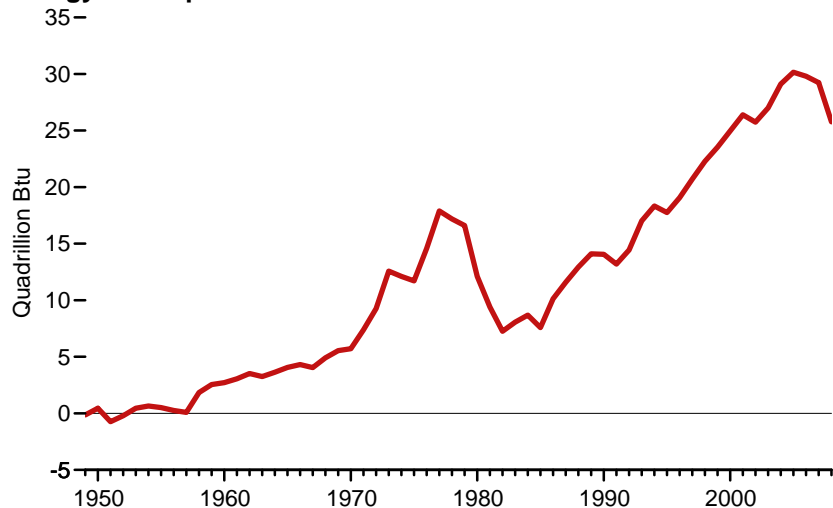
• Totals may not equal sum of components due to independent rounding.

Web Page: For all data beginning in 1949, see <http://www.eia.doe.gov/emeu/aer/overview.html>.

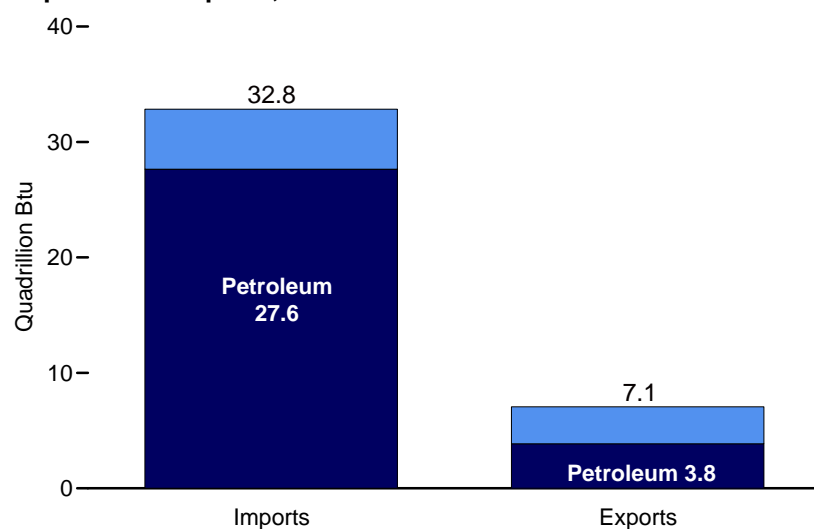
Sources: Tables 5.12, 6.1, 7.1, 7.7, 8.1, 8.2a, 10.1, 10.3, A4, A5, and A6.

Figure 1.4 Primary Energy Trade by Source, 1949-2008

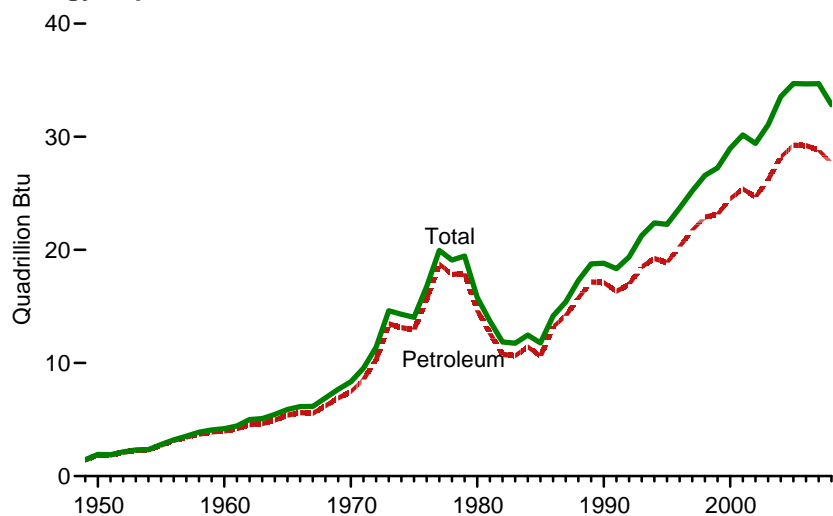
Energy Net Imports



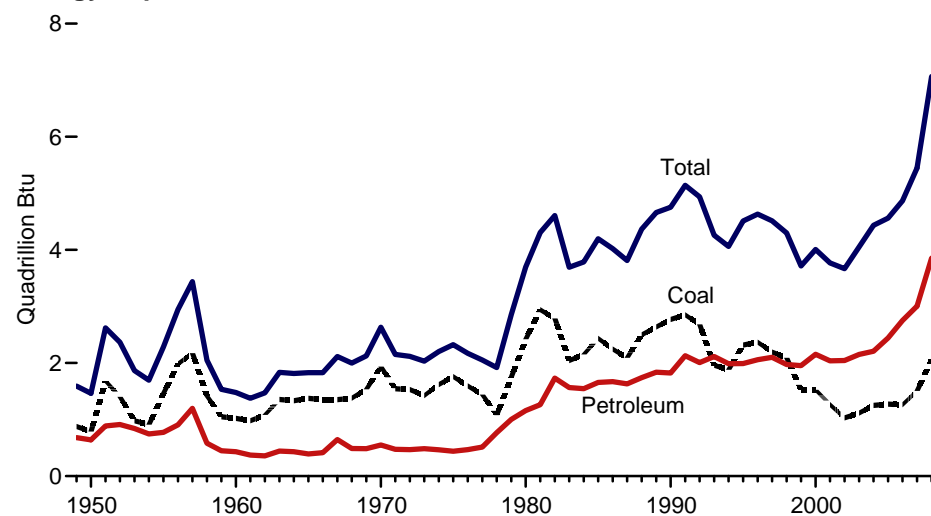
Imports and Exports, 2008



Energy Imports



Energy Exports



Note: Negative net imports are net exports.

Source: Table 1.4.

Table 1.4 Primary Energy Trade by Source, Selected Years, 1949-2008
(Quadrillion Btu)

Year	Imports									Exports									Net Imports ¹
	Coal	Coal Coke	Natural Gas	Petroleum			Bio-fuels ⁴	Elec-tricity	Total	Coal	Coal Coke	Natural Gas	Petroleum			Bio-fuels ⁵	Elec-tricity	Total	
				Crude Oil ²	Petroleum Products ³	Total							Crude Oil ²	Petroleum Products ³	Total				
1949	0.008	0.007	0.000	0.915	0.513	1.427	NA	0.006	1.448	0.877	0.014	0.021	0.192	0.488	0.680	NA	0.001	1.592	-0.144
1950	.009	.011	.000	1.056	.830	1.886	NA	.007	1.913	.786	.010	.027	.202	.440	.642	NA	.001	1.465	.448
1955	.008	.003	.011	1.691	1.061	2.752	NA	.016	2.790	1.465	.013	.032	.067	.707	.774	NA	.002	2.286	.504
1960	.007	.003	.161	2.196	1.802	3.999	NA	.018	4.188	1.023	.009	.012	.018	.413	.431	NA	.003	1.477	2.710
1965	.005	.002	.471	2.654	2.748	5.402	NA	.012	5.892	1.376	.021	.027	.006	.386	.392	NA	.013	1.829	4.063
1970	.001	.004	.846	2.814	4.656	7.470	NA	.021	8.342	1.936	.061	.072	.029	.520	.549	NA	.014	2.632	5.709
1971	.003	.004	.964	3.573	4.968	8.540	NA	.024	9.535	1.546	.037	.083	.003	.470	.473	NA	.012	2.151	7.384
1972	.001	.005	1.047	4.712	5.587	10.299	NA	.036	11.387	1.531	.031	.080	.001	.466	.467	NA	.010	2.118	9.269
1973	.003	.027	1.060	6.887	6.578	13.466	NA	.057	14.613	1.425	.035	.079	.004	.482	.486	NA	.009	2.033	12.580
1974	.052	.088	.985	7.395	5.731	13.127	NA	.053	14.304	1.620	.032	.078	.006	.458	.465	NA	.009	2.203	12.101
1975	.024	.045	.978	8.721	4.227	12.948	NA	.038	14.032	1.761	.032	.074	.012	.427	.439	NA	.017	2.323	11.709
1976	.030	.033	.988	11.239	4.434	15.672	NA	.037	16.760	1.597	.033	.066	.017	.452	.469	NA	.008	2.172	14.588
1977	.041	.045	1.037	14.027	4.728	18.756	NA	.069	19.948	1.442	.031	.056	.106	.408	.514	NA	.009	2.052	17.896
1978	.074	.142	.995	13.460	4.364	17.824	NA	.072	19.106	1.078	.017	.053	.335	.432	.767	NA	.005	1.920	17.186
1979	.051	.099	1.300	13.825	4.108	17.933	NA	.077	19.460	1.753	.036	.056	.497	.505	1.002	NA	.007	2.855	16.605
1980	.030	.016	1.006	11.195	3.463	14.658	NA	.085	15.796	2.421	.051	.049	.609	.551	1.160	NA	.014	3.695	12.101
1981	.026	.013	.917	9.336	3.303	12.639	NA	.124	13.719	2.944	.029	.060	.482	.781	1.264	NA	.010	4.307	9.412
1982	.019	.003	.950	7.418	3.360	10.777	NA	.112	11.861	2.787	.025	.052	.500	1.231	1.732	NA	.012	4.608	7.253
1983	.032	.001	.940	7.079	3.568	10.647	NA	.132	11.752	2.045	.016	.055	.348	1.217	1.565	NA	.011	3.693	8.059
1984	.032	.014	.847	7.302	4.131	11.433	NA	.144	12.471	2.151	.026	.055	.384	1.161	1.545	NA	.009	3.786	8.685
1985	.049	.014	.952	6.814	3.796	10.609	NA	.157	11.781	2.438	.028	.056	.432	1.225	1.657	NA	.017	4.196	7.584
1986	.055	.008	.748	9.002	4.199	13.201	NA	.139	14.151	2.248	.025	.062	.326	1.344	1.670	NA	.016	4.021	10.130
1987	.044	.023	.992	10.067	4.095	14.162	NA	.178	15.398	2.093	.014	.055	.319	1.311	1.630	NA	.020	3.812	11.586
1988	.053	.067	1.296	11.027	4.720	15.747	NA	.133	17.296	2.499	.027	.075	.329	1.412	1.741	NA	.024	4.366	12.929
1989	.071	.057	1.387	12.596	4.565	17.162	NA	.089	18.766	2.637	.027	.109	.300	1.536	1.836	NA	.052	4.661	14.105
1990	.067	.019	1.551	12.766	4.351	17.117	NA	.063	18.817	2.772	.014	.087	.230	1.594	1.824	NA	.055	4.752	14.065
1991	.085	.029	1.798	12.553	3.794	16.348	NA	.075	18.335	2.854	.020	.132	.246	1.882	2.128	NA	.008	5.141	13.194
1992	.095	.052	2.161	13.253	3.714	16.968	NA	.096	19.372	2.682	.017	.220	.188	1.819	2.008	NA	.010	4.937	14.435
1993	.205	.053	2.397	14.749	3.760	18.510	.001	.107	21.273	1.962	.026	.142	.208	1.907	2.115	NA	.012	4.258	17.014
1994	.222	.083	2.682	15.340	3.904	19.243	.001	.160	22.390	1.879	.024	.164	.209	1.779	1.988	NA	.007	4.061	18.329
1995	.237	.095	2.901	15.669	3.211	18.881	.001	.146	22.260	2.318	.034	.156	.200	1.791	1.991	NA	.012	4.511	17.750
1996	.203	.063	3.002	16.341	3.943	20.284	.001	.148	23.702	2.368	.040	.155	.233	1.825	2.059	NA	.011	4.633	19.069
1997	.187	.078	3.063	17.876	3.864	21.740	(s)	.147	25.215	2.193	.031	.159	.228	1.872	2.100	NA	.031	4.514	20.701
1998	.218	.095	3.225	18.916	3.992	22.908	(s)	.135	26.581	2.092	.028	.161	.233	1.740	1.972	NA	.047	4.299	22.281
1999	.227	.080	3.664	18.935	4.198	23.133	(s)	.147	27.252	1.525	.022	.164	.250	1.705	1.955	NA	.049	3.715	23.537
2000	.313	.094	3.869	19.783	4.749	24.531	(s)	.166	28.973	1.528	.028	.245	.106	2.048	2.154	NA	.051	4.006	24.967
2001	.495	.063	4.068	20.348	^R 5.050	25.398	.002	.131	30.157	1.265	.033	.377	.043	1.996	^R 2.038	(s)	.056	3.770	26.386
2002	.422	.080	4.104	19.920	^R 4.753	^R 24.673	.002	.125	29.407	1.032	.020	.520	.019	2.023	2.042	(s)	.054	3.668	25.739
2003	.626	.068	4.042	21.060	^R 5.158	^R 26.218	.002	.104	31.061	1.117	.018	.686	.026	2.124	^R 2.150	.001	.082	4.054	27.007
2004	.682	.170	4.365	22.082	6.114	28.196	.013	.117	33.543	1.253	.033	.862	.057	^R 2.150	^R 2.207	.001	.078	4.433	29.110
2005	.762	.088	4.450	22.091	^R 7.156	^R 29.247	.013	.152	34.710	1.273	.043	.735	.067	^R 2.373	^R 2.441	.001	.068	4.561	30.149
2006	.906	.101	4.291	22.085	^R 7.077	^R 29.162	.067	.146	34.673	1.264	.040	.730	.052	^R 2.694	^R 2.747	.004	.083	4.868	29.805
2007	.909	.061	^R 4.723	^R 21.914	^R 6.849	^R 28.762	.055	.175	^R 34.685	1.507	.036	^R 830	.058	^R 2.914	^R 2.972	.035	.069	^R 5.448	29.238
2008 ^P	.855	.089	4.061	21.389	6.167	27.556	.084	.195	32.840	2.071	.049	1.009	.061	3.707	3.768	.086	.082	7.065	25.775

¹ Net imports equal imports minus exports. Minus sign indicates exports are greater than imports.

² Crude oil and lease condensate. Imports data include imports into the Strategic Petroleum Reserve, which began in 1977.

³ Petroleum products, unfinished oils, pentanes plus, and gasoline blending components. Does not include biofuels.

⁴ Fuel ethanol and biodiesel.

⁵ Biodiesel only.

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

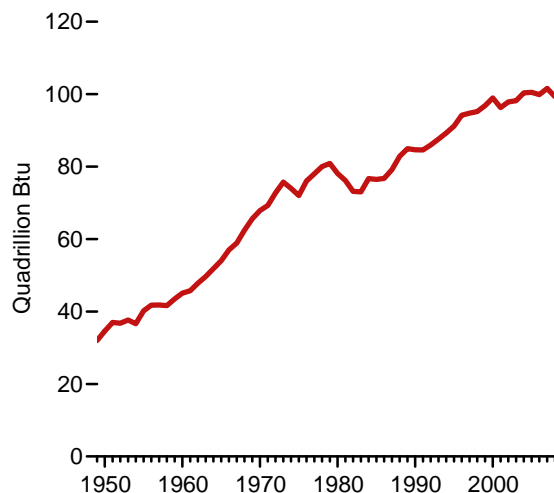
Notes: • Includes trade between the United States (50 States and the District of Columbia) and its territories and possessions. • See "Primary Energy" in Glossary. • See Note 3, "Electricity Imports and Exports," at end of Section 8. • Totals may not equal sum of components due to independent rounding.

Web Page: For all data beginning in 1949, see <http://www.eia.doe.gov/emeu/aer/overview.html>.

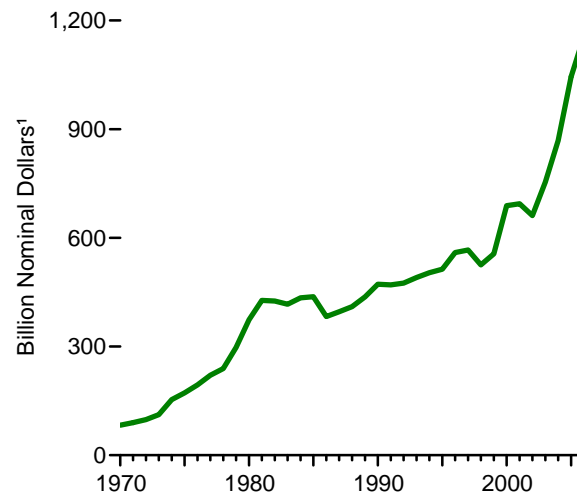
Sources: Tables 5.1, 5.3, 5.5, 6.1, 7.1, 7.7, 8.1, 10.3, 10.4, A2, A3, A4, A5, and A6.

Figure 1.5 Energy Consumption and Expenditures Indicators

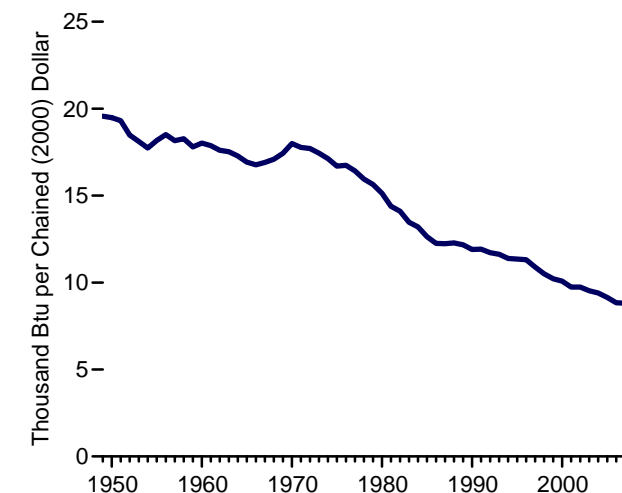
Energy Consumption, 1949-2008



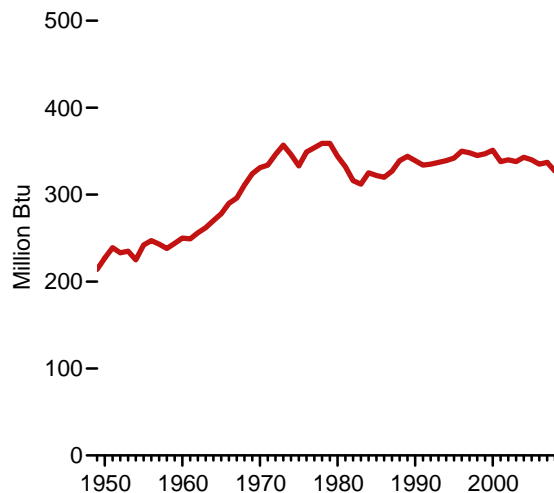
Energy Expenditures, 1970-2006



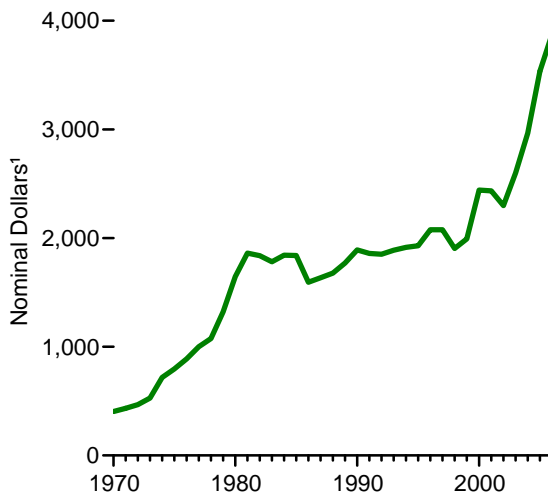
Energy Consumption per Real Dollar² of Gross Domestic Product, 1949-2008



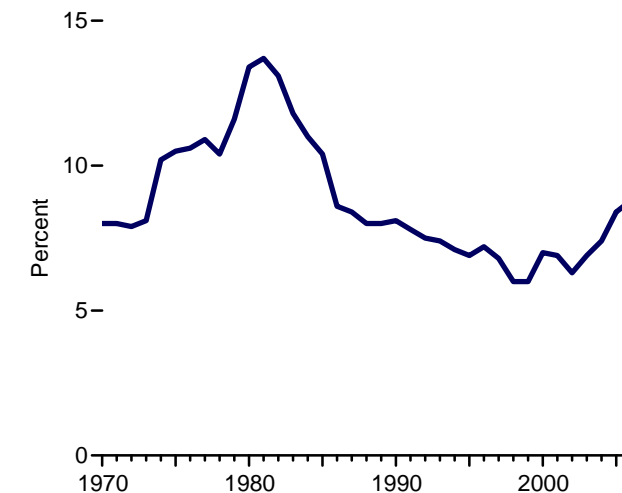
Energy Consumption per Person, 1949-2008



Energy Expenditures per Person, 1970-2006



Energy Expenditures as Share of Gross Domestic Product, 1970-2006



¹ See "Nominal Dollars" in Glossary

Source: Table 1.5.

² In chained (2000) dollars, calculated by using gross domestic product implicit price deflators, See Appendix D1.

Table 1.5 Energy Consumption, Expenditures, and Emissions Indicators, Selected Years, 1949-2008

	Energy Consumption	Energy Consumption per Person	Energy Expenditures ¹	Energy Expenditures ¹ per Person	Gross Domestic Product (GDP)	Energy Expenditures ¹ as Share of GDP	Gross Domestic Product (GDP)	Energy Consumption per Real Dollar of GDP	Greenhouse Gas Emissions ² per Real Dollar of GDP	Carbon Dioxide Emissions ³ per Real Dollar of GDP
Year	Quadrillion Btu	Million Btu	Million Nominal Dollars ⁴	Nominal Dollars ⁴	Billion Nominal Dollars ⁴	Percent	Billion Chained (2000) Dollars ⁵	Thousand Btu per Chained (2000) Dollar ⁵	Metric Tons Carbon Dioxide Equivalent per Million Chained (2000) Dollars ⁵	Metric Tons Carbon Dioxide per Million Chained (2000) Dollars ⁵
1949	31.98	214	NA	NA	267.3	NA	1,634.6	19.57	NA	NA
1950	34.62	227	NA	NA	293.8	NA	1,777.3	19.48	NA	NA
1955	40.21	242	NA	NA	414.8	NA	2,212.8	18.17	NA	NA
1960	45.09	250	NA	NA	526.4	NA	2,501.8	18.02	NA	NA
1965	54.02	278	NA	NA	719.1	NA	3,191.1	16.93	NA	NA
1970	67.84	331	82,911	404	1,038.5	8.0	3,771.9	17.99	NA	NA
1971	69.29	334	90,071	434	1,127.1	8.0	3,898.6	17.77	NA	NA
1972	72.70	346	98,108	467	1,238.3	7.9	4,105.0	17.71	NA	NA
1973	75.71	357	111,928	528	1,382.7	8.1	4,341.5	17.44	NA	NA
1974	73.99	346	153,370	717	1,500.0	10.2	4,319.6	17.13	NA	NA
1975	72.00	333	171,846	796	1,638.3	10.5	4,311.2	16.70	NA	NA
1976	76.01	349	193,897	889	1,825.3	10.6	4,540.9	16.74	NA	NA
1977	78.00	354	220,461	1,001	2,030.9	10.9	4,750.5	16.42	NA	NA
1978	79.99	359	239,230	1,075	2,294.7	10.4	5,015.0	15.95	NA	NA
1979	80.90	359	297,543	1,322	2,563.3	11.6	5,173.4	15.64	NA	NA
1980	78.12	344	R373,790	R1,645	2,789.5	13.4	5,161.7	15.13	1,131	917
1981	76.17	332	R427,140	R1,861	3,128.4	13.7	5,291.7	14.39	1,085	872
1982	73.15	316	R425,703	R1,838	3,255.0	13.1	5,189.3	14.10	1,053	843
1983	73.04	312	R416,670	R1,782	3,536.7	11.8	5,423.8	13.47	998	800
1984	R76.72	325	R434,367	R1,842	3,933.2	R11.0	5,813.6	13.20	982	788
1985	76.49	R322	R437,517	R1,839	4,220.3	10.4	6,053.7	12.64	946	755
1986	76.76	320	R382,861	R1,594	4,462.8	8.6	6,263.6	12.25	913	731
1987	R79.18	327	R396,082	R1,635	4,739.5	8.4	6,475.1	12.23	910	732
1988	82.82	339	R409,989	R1,677	5,103.8	8.0	6,742.7	12.28	907	735
1989	R84.95	344	R437,160	R1,771	5,484.4	8.0	6,981.4	12.17	892	723
1990	84.65	339	R472,030	R1,891	5,803.1	8.1	7,112.5	11.90	R878	R706
1991	84.61	334	R470,095	R1,858	5,995.9	7.8	7,100.5	11.92	R872	R700
1992	85.96	335	R475,069	R1,852	6,337.7	7.5	7,336.6	11.72	R861	R691
1993	R87.61	337	R490,624	R1,888	6,657.4	7.4	7,532.7	11.63	R851	R687
1994	89.26	339	R503,693	R1,914	7,072.2	7.1	7,835.5	11.39	R832	R671
1995	91.17	342	R513,587	R1,929	7,397.7	6.9	8,031.7	11.35	R819	R661
1996	R94.18	350	R559,455	R2,077	7,816.9	7.2	8,328.9	11.31	R810	R660
1997	94.77	348	R566,277	R2,077	8,304.3	6.8	8,703.5	10.89	R784	R641
1998	95.18	345	R525,285	R1,904	8,747.0	6.0	9,066.9	10.50	R754	R619
1999	96.82	347	R556,052	R1,993	9,268.4	6.0	9,470.3	10.22	R728	599
2000	98.98	351	R688,774	R2,441	9,817.0	7.0	9,817.0	10.08	R721	596
2001	96.33	338	R693,897	2,434	10,128.0	6.9	9,890.7	9.74	R703	R582
2002	97.86	340	R661,496	R2,299	10,469.6	6.3	10,048.8	9.74	R701	R579
2003	98.21	338	R754,147	R2,599	10,960.8	6.9	10,301.0	9.53	R689	R570
2004	100.35	R343	R868,595	R2,966	11,685.9	7.4	10,675.8	9.40	R677	R559
2005	R100.48	340	R1,044,898	R3,535	R12,421.9	8.4	R10,989.5	R9.14	R660	544
2006	R99.88	R335	R1,157,910	R3,881	R13,178.4	R8.8	R11,294.8	R8.84	R636	R523
2007	R101.55	337	NA	NA	R13,807.5	NA	R11,523.9	R8.81	R632	R520
2008 ^P	99.30	327	NA	NA	14,264.6	NA	11,652.0	8.52	NA	NA

¹ Expenditures include taxes where data are available.

² Greenhouse gas emissions from anthropogenic sources. See Table 12.1.

³ Carbon dioxide emissions from energy consumption. See Table 12.2

⁴ See "Nominal Dollars" in Glossary.

⁵ See "Chained Dollars" in Glossary.

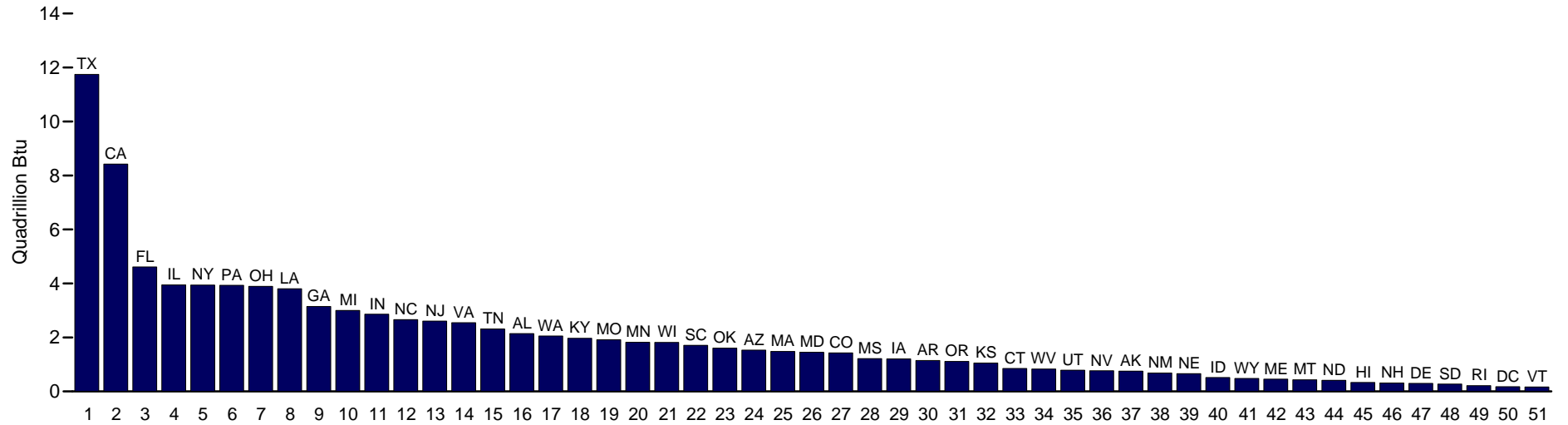
R=Revised. P=Preliminary. NA=Not available.

Web Page: For all data beginning in 1949, see <http://www.eia.doe.gov/emeu/aer/overview.html>.

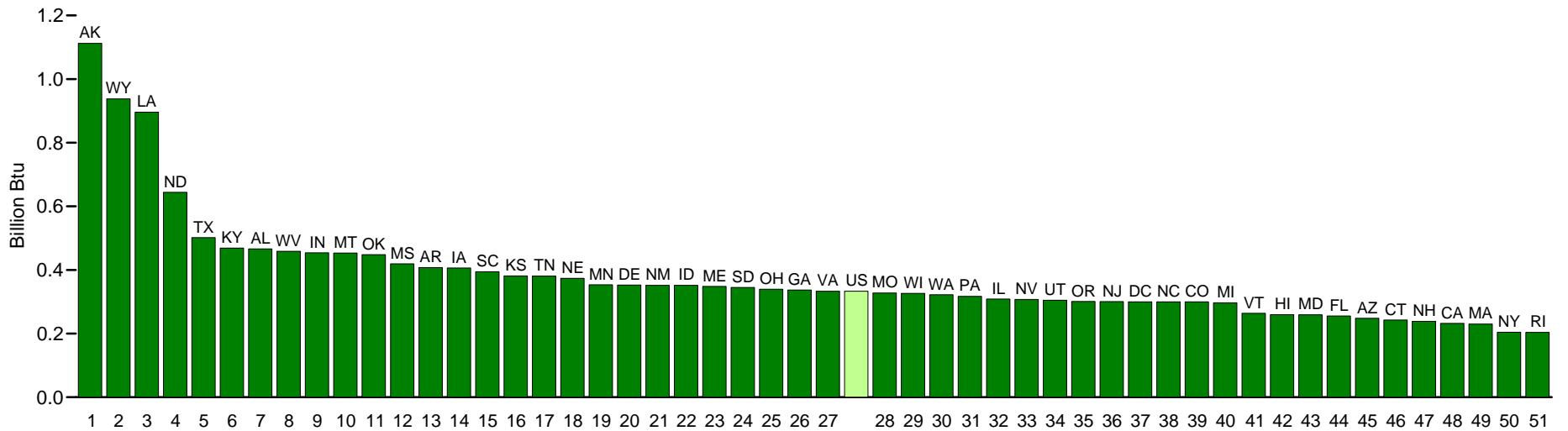
Sources: **Energy Consumption:** Table 1.3. **Energy Expenditures:** Table 3.5. **Gross Domestic Product:** Table D1. **Population Data:** Table D1. **Greenhouse Gas Emissions:** Table 12.1. **Carbon Dioxide Emissions:** Table 12.2. **Other Columns:** Calculated by EIA.

Figure 1.6 State-Level Energy Consumption and Consumption per Person, 2006

Consumption



Consumption per Person



Source: Table 1.6.

Table 1.6 State-Level Energy Consumption, Expenditures, and Prices, 2006

Rank	Consumption		Consumption per Person		Expenditures ¹		Expenditures ¹ per Person		Prices ¹	
	Trillion Btu		Million Btu		Million Nominal Dollars ²		Nominal Dollars ²		Nominal Dollars ² per Million Btu	
1	Texas	11,744.4	Alaska	1,112.2	Texas	132,131	Alaska	9,080	Hawaii	24.65
2	California	8,420.4	Wyoming	937.9	California	115,990	Wyoming	8,431	District of Columbia	24.20
3	Florida	4,609.5	Louisiana	896.1	New York	59,429	Louisiana	7,884	Massachusetts	23.22
4	Illinois	3,946.1	North Dakota	644.1	Florida	58,959	Texas	5,645	Connecticut	22.72
5	New York	3,939.9	Texas	501.7	Pennsylvania	46,650	North Dakota	5,565	Rhode Island	22.22
6	Pennsylvania	3,933.0	Kentucky	468.7	Ohio	45,037	Montana	4,959	New Hampshire	21.85
7	Ohio	3,892.9	Alabama	466.3	Illinois	43,322	Maine	4,587	Vermont	21.15
8	Louisiana	3,802.5	West Virginia	458.5	New Jersey	35,994	Oklahoma	4,537	New York	20.94
9	Georgia	3,146.4	Indiana	454.1	Michigan	34,914	Iowa	4,497	Florida	20.65
10	Michigan	2,998.0	Montana	453.2	Georgia	34,542	Mississippi	4,487	Maryland	20.14
11	Indiana	2,862.2	Oklahoma	448.1	Louisiana	33,455	Alabama	4,450	Nevada	20.02
12	North Carolina	2,659.3	Mississippi	419.3	North Carolina	30,373	Kentucky	4,446	Arizona	19.72
13	New Jersey	2,604.8	Arkansas	407.4	Virginia	28,575	Hawaii	4,438	Delaware	19.45
14	Virginia	2,544.9	Iowa	406.2	Indiana	27,354	Indiana	4,340	California	19.30
15	Tennessee	2,313.2	South Carolina	394.4	Massachusetts	24,499	West Virginia	4,315	New Jersey	18.91
16	Alabama	2,140.5	Kansas	381.3	Tennessee	24,172	Delaware	4,227	New Mexico	18.44
17	Washington	2,053.7	Tennessee	380.8	Missouri	21,533	Arkansas	4,225	North Carolina	17.93
18	Kentucky	1,970.5	Nebraska	373.8	Washington	21,362	New Jersey	4,153	Pennsylvania	17.52
19	Missouri	1,913.0	Minnesota	353.5	Wisconsin	20,717	Vermont	4,055	Maine	17.35
20	Minnesota	1,822.0	Delaware	352.5	Alabama	20,428	Nebraska	4,044	Ohio	17.12
21	Wisconsin	1,818.5	New Mexico	351.8	Minnesota	19,948	South Dakota	4,017	Colorado	16.92
22	South Carolina	1,707.7	Idaho	351.6	Maryland	19,632	Nevada	4,012	Oregon	16.85
23	Oklahoma	1,603.0	Maine	348.2	Arizona	18,945	South Carolina	4,010	Mississippi	16.84
24	Arizona	1,530.9	South Dakota	344.9	Kentucky	18,693	Tennessee	3,979	Virginia	16.75
25	Massachusetts	1,479.1	Ohio	339.6	South Carolina	17,364	Ohio	3,929	South Dakota	16.69
26	Maryland	1,452.4	Georgia	336.8	Colorado	16,251	Connecticut	3,927	Texas	16.68
27	Colorado	1,428.1	Virginia	333.1	Oklahoma	16,230	Kansas	3,890	Missouri	16.67
28	Mississippi	1,215.7	Missouri	327.7	Connecticut	13,727	Minnesota	3,870	Wisconsin	16.65
29	Iowa	1,207.4	Wisconsin	326.3	Iowa	13,368	New Hampshire	3,811	Michigan	16.62
30	Arkansas	1,144.5	Washington	322.2	Mississippi	13,010	Massachusetts	3,807	Montana	16.48
31	Oregon	1,111.8	Pennsylvania	317.1	Oregon	12,253	Pennsylvania	3,761	Alaska	16.43
32	Kansas	1,050.9	Illinois	308.8	Arkansas	11,867	Virginia	3,740	Washington	16.43
33	Connecticut	848.9	Nevada	307.6	Kansas	10,719	District of Columbia	3,738	Kansas	16.33
34	West Virginia	829.2	Utah	304.7	Nevada	10,001	New Mexico	3,730	Tennessee	16.31
35	Utah	785.9	Oregon	301.2	Utah	8,331	Wisconsin	3,718	Georgia	16.30
36	Nevada	766.6	New Jersey	300.6	West Virginia	7,804	Georgia	3,697	Minnesota	16.12
37	Alaska	753.5	District of Columbia	299.9	New Mexico	7,246	Missouri	3,689	Oklahoma	16.09
38	New Mexico	683.3	North Carolina	299.8	Nebraska	7,133	Maryland	3,504	Nebraska	16.03
39	Nebraska	659.3	Colorado	299.6	Alaska	6,151	Michigan	3,456	South Carolina	15.95
40	Idaho	514.6	Michigan	296.8	Maine	6,031	Idaho	3,455	Illinois	15.92
41	Wyoming	480.9	Vermont	263.7	Hawaii	5,674	North Carolina	3,424	Utah	15.88
42	Maine	457.8	Hawaii	259.8	Idaho	5,058	Colorado	3,410	Arkansas	15.85
43	Montana	429.1	Maryland	259.3	New Hampshire	4,999	Illinois	3,391	Iowa	15.71
44	North Dakota	410.6	Florida	255.3	Montana	4,696	Washington	3,351	Idaho	15.13
45	Hawaii	332.2	Arizona	248.3	Wyoming	4,323	Oregon	3,320	Kentucky	14.95
46	New Hampshire	313.1	Connecticut	242.8	Delaware	3,605	Rhode Island	3,283	Alabama	14.92
47	Delaware	300.6	New Hampshire	238.7	North Dakota	3,548	Florida	3,265	Wyoming	14.52
48	South Dakota	271.9	California	232.3	Rhode Island	3,486	Utah	3,230	West Virginia	14.49
49	Rhode Island	216.3	Massachusetts	229.9	South Dakota	3,167	California	3,200	Indiana	13.87
50	District of Columbia	175.6	New York	204.3	Vermont	2,517	New York	3,082	Louisiana	13.73
51	Vermont	163.7	Rhode Island	203.7	District of Columbia	2,188	Arizona	3,073	North Dakota	12.05
	United States	3,499,521.1	United States	333.1	United States	51,157,910	United States	3,876	United States	17.35

¹ Prices and expenditures include taxes where data are available.

² See "Nominal Dollars" in Glossary.

³ Includes 60.8 trillion Btu of coal coke net imports, which are not allocated to the States.

⁴ The U.S. consumption value in this table does not match those in Tables 1.1 and 1.3 because it: 1) does not include biofuels losses and co-products, and biodiesel; 2) does not incorporate the latest data revisions; and 3) is the sum of State values, which use State average heat contents to convert physical units of coal and natural gas to Btu.

⁵ Includes \$509 million for coal coke net imports, which are not allocated to the States.

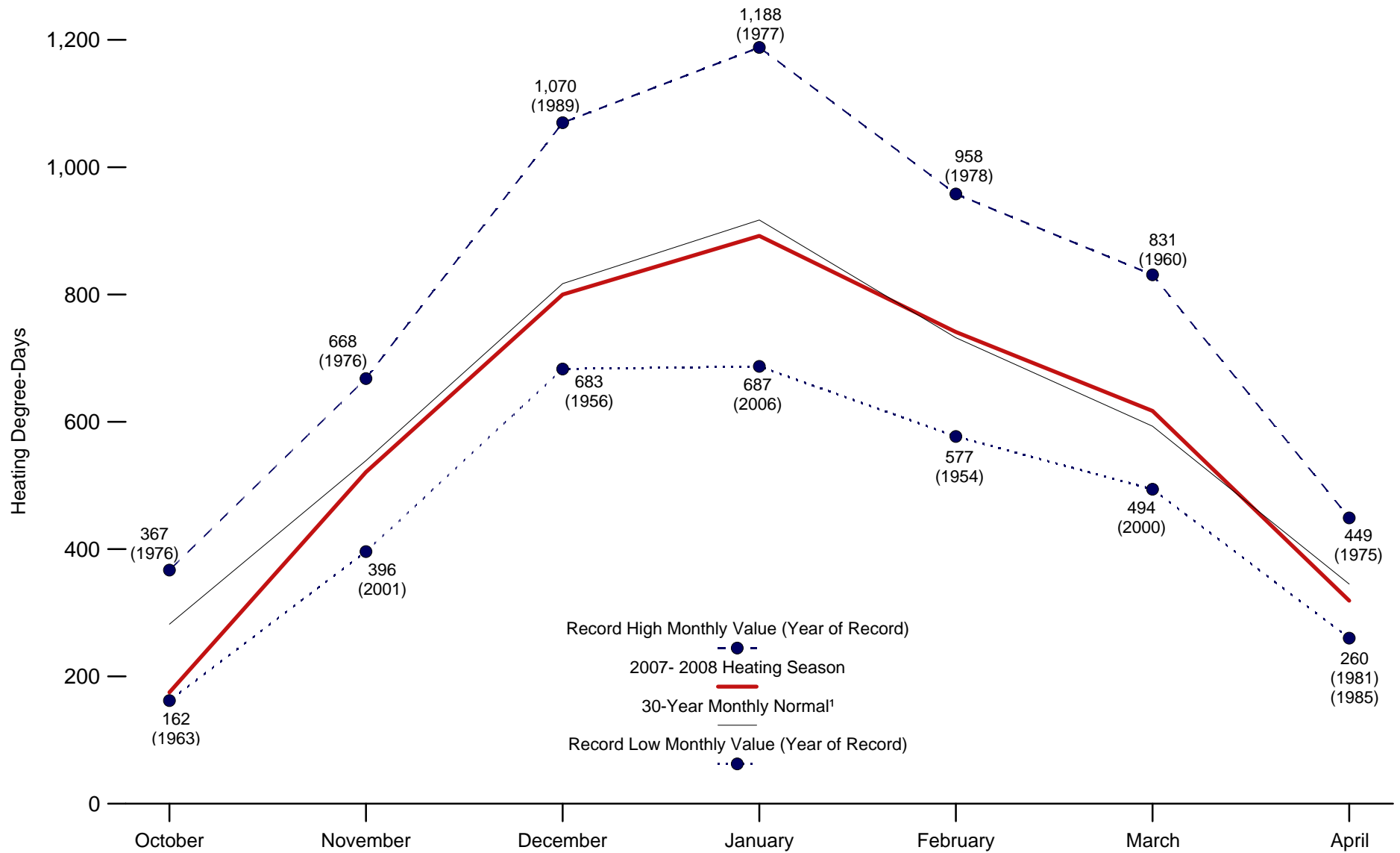
⁶ Based on population data prior to revisions shown on Table D1.

Note: Rankings based on unrounded data.

Web Page: For related information, see http://www.eia.doe.gov/emu/states/_seds.html.

Sources: • **Consumption:** Energy Information Administration (EIA), "State Energy Data 2006: Consumption" (November 2008), Tables R1 and R2. • **Expenditures and Prices:** EIA, "State Energy Data 2006: Prices and Expenditures" (November 2008), Table R1. • "State Energy Data 2006" includes State-level data by end-use sector and type of energy. Consumption estimates are annual 1960 through 2006, and price and expenditure estimates are annual 1970 through 2006.

Figure 1.7 Heating Degree-Days by Month, 1949-2008



¹ Based on calculations of data from 1971 through 2000.

Source: Table 1.7.

Table 1.7 Heating Degree-Days by Month, Selected Years, 1949-2008

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	69	260	396	689	4,203
2002	776	669	622	281	184	23	3	8	37	298	560	812	4,273
2003	944	801	572	344	165	41	4	5	62	260	477	784	4,459
2004	968	766	495	303	107	37	7	20	47	251	487	802	4,290
2005	859	676	648	305	186	25	3	6	39	236	466	866	4,315
2006	687	731	600	264	137	23	2	9	82	304	467	690	3,996
2007	841	853	502	372	111	24	5	7	44	175	521	800	4,255
2008 ^P	892	741	617	319	183	26	5	13	52	281	534	831	4,494
Normal 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.

P=Preliminary.

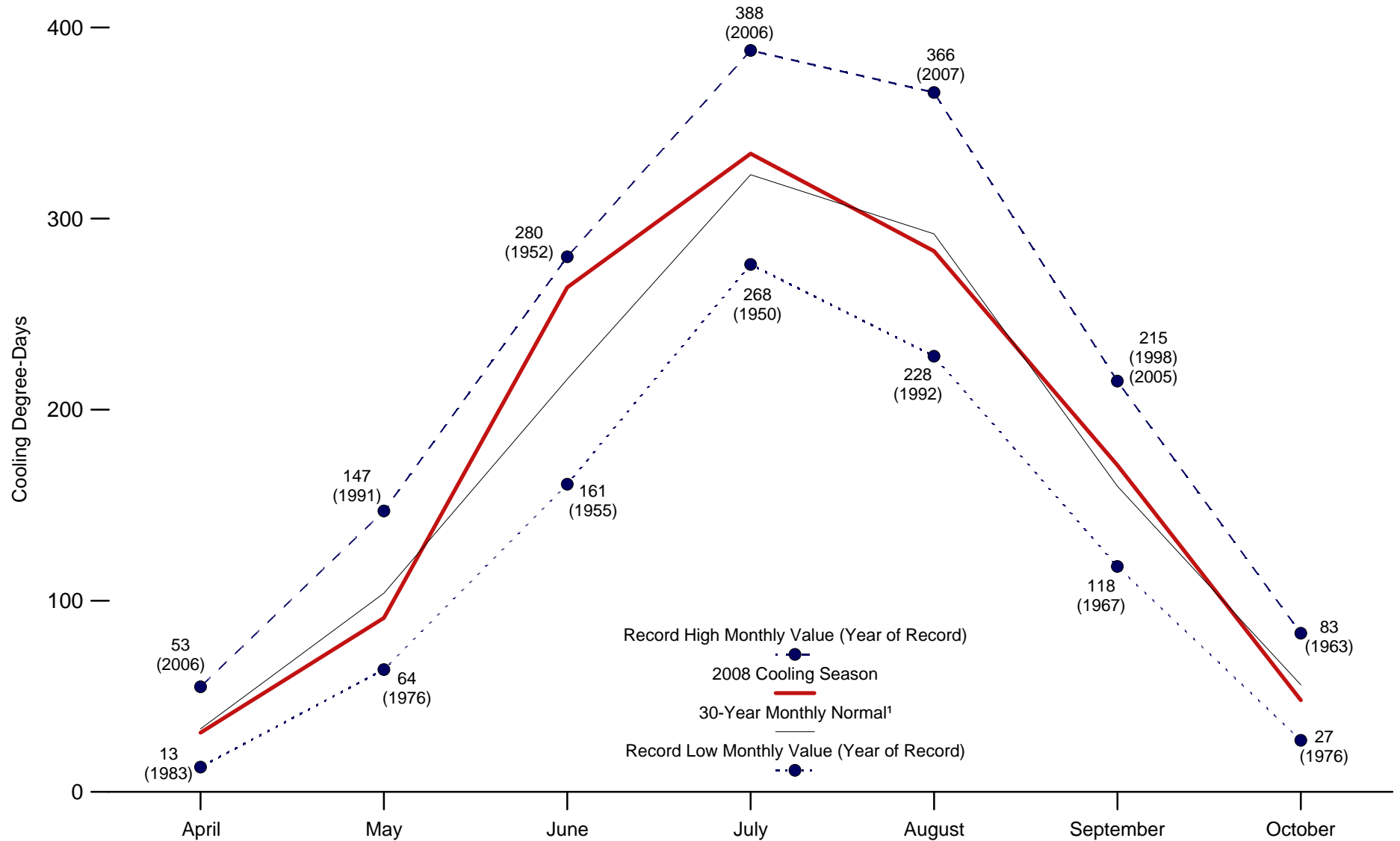
Notes: • This table excludes Alaska and Hawaii. • Degree-days are relative measurements of outdoor air temperature. Heating degree-days are deviations below the mean daily temperature of 65° F. For example, a weather station recording a mean daily temperature of 40° F would report 25 heating degree-days. • Temperature information recorded by weather stations is used to calculate State-wide degree-day averages based on resident State population. Beginning in July 2001, data are weighted by the

2000 population. The population-weighted State figures are aggregated into Census divisions and the national average.

Web Pages: • For all data beginning in 1949, see <http://www.eia.doe.gov/emeu/aer/overview.html>.
• For current data, see <http://www.eia.doe.gov/emeu/mer/overview.html>.

Source: U.S. Department of Commerce, National Oceanic and Atmospheric Administration (NOAA), National Climatic Data Center, Asheville, North Carolina, Historical Climatology Series 5-1.

Figure 1.8 Cooling Degree-Days by Month, 1949-2008



¹ Based on calculations of data from 1971 through 2000.

Source: Table 1.8.

Table 1.8 Cooling Degree-Days by Month, Selected Years, 1949-2008

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	6	17	53	92	243	370	332	202	57	11	5	1,396
2003	5	7	24	30	110	187	336	345	156	65	21	4	1,290
2004	6	6	28	29	138	208	299	252	177	67	17	5	1,232
2005	10	7	12	24	82	250	367	351	215	55	20	4	1,397
2006	13	5	18	53	109	236	388	337	138	46	14	11	1,368
2007	10	5	29	23	119	236	310	366	191	82	16	12	1,399
2008 ^P	7	11	17	31	91	264	334	283	171	48	12	8	1,277
Normal ¹	8	8	18	33	104	216	323	292	160	56	16	8	1,242

¹ Based on calculations of data from 1971 through 2000.

P=Preliminary.

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

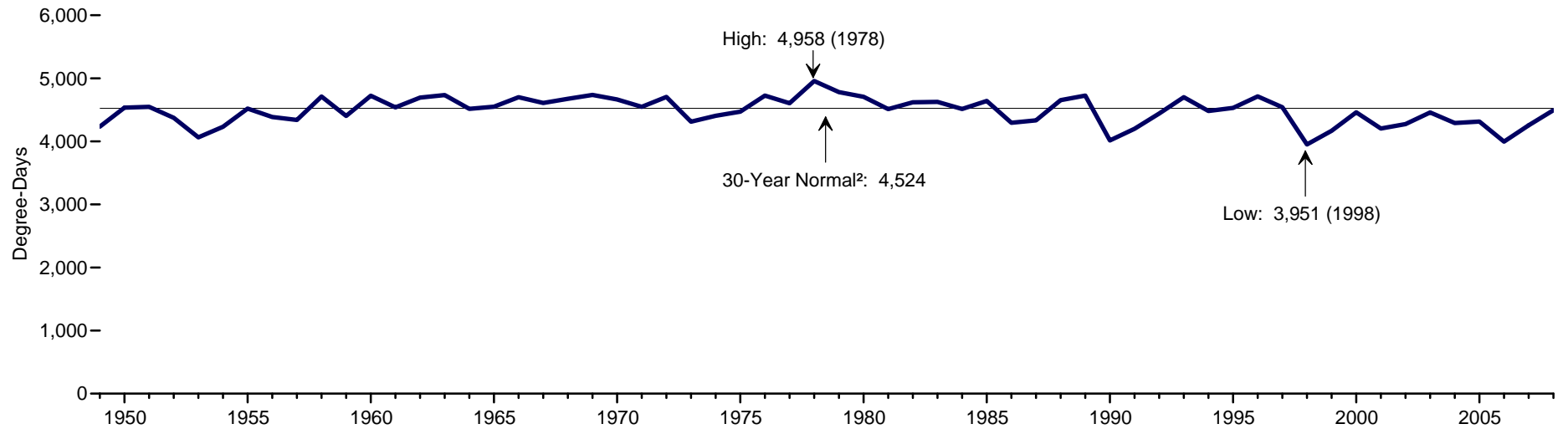
2000 population. The population-weighted State figures are aggregated into Census divisions and the national average.

Web Pages: • For all data beginning in 1949, see <http://www.eia.doe.gov/emeu/aer/overview.html>.
• For current data, see <http://www.eia.doe.gov/emeu/mer/overview.html>.

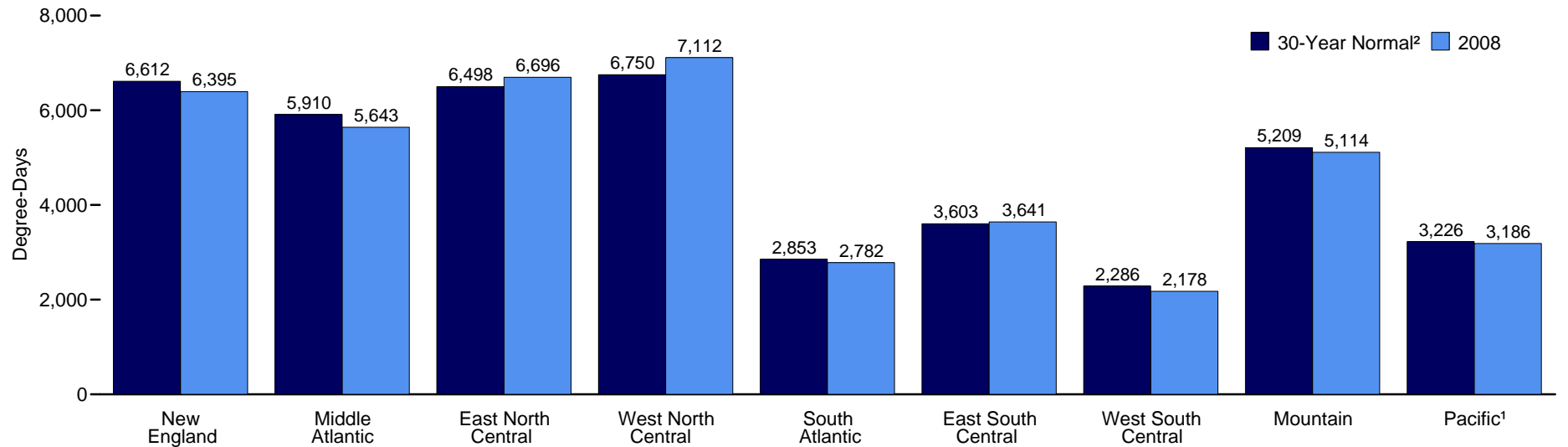
Source: U.S. Department of Commerce, National Oceanic and Atmospheric Administration (NOAA), National Climatic Data Center, Asheville, North Carolina, Historical Climatology Series 5-2.

Figure 1.9 Heating Degree-Days by Census Division

U.S.¹ Heating Degree-Days, 1949-2008



Heating Degree-Days by Census Division, 2008



¹ Excludes Alaska and Hawaii.

² Based on calculations of data from 1971 through 2000.

Note: See Appendix C for map of Census divisions.

Source: Table 1.9.

Table 1.9 Heating Degree-Days by Census Division, Selected Years, 1949-2008

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	6,661	5,809	6,617	6,761	2,845	3,664	2,418	5,188	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	6,055	5,323	5,824	6,184	2,641	3,312	2,187	4,895	3,136	4,203
2002	6,099	5,372	6,122	6,465	2,671	3,420	2,307	5,018	3,132	4,273
2003	6,851	6,090	6,528	6,539	2,891	3,503	2,230	4,605	2,918	4,459
2004	6,612	5,749	6,199	6,290	2,748	3,289	2,088	4,844	2,925	4,290
2005	6,551	5,804	6,241	6,202	2,844	3,402	2,051	4,759	2,959	4,315
2006	5,809	5,050	5,712	5,799	2,535	3,239	1,863	4,778	3,116	3,996
2007	6,501	5,623	6,096	6,374	2,584	3,213	2,156	4,830	3,113	4,255
2008 ^P	6,395	5,643	6,696	7,112	2,782	3,641	2,178	5,114	3,186	4,494
Normal 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 Based on calculations of data from 1971 through 2000.

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.

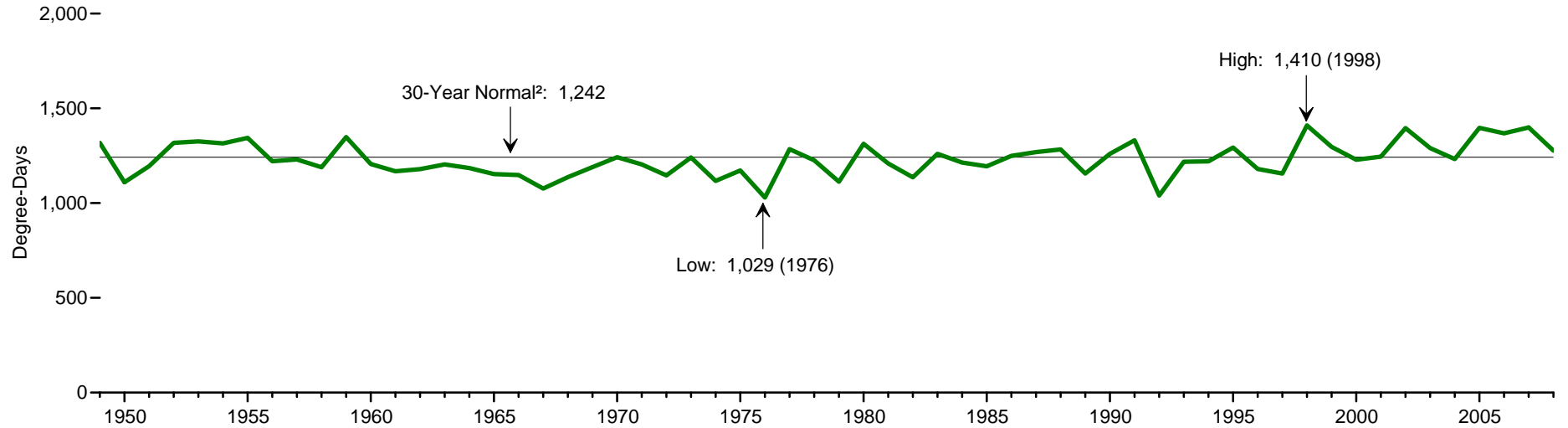
Beginning in July 2001, data are weighted by the 2000 population. The population-weighted State figures are aggregated into Census divisions and the national average. • See Appendix C for map of Census divisions.

Web Pages: • For all data beginning in 1949, see <http://www.eia.doe.gov/emeu/aer/overview.html>. • For current data, see <http://www.eia.doe.gov/emeu/mer/overview.html>.

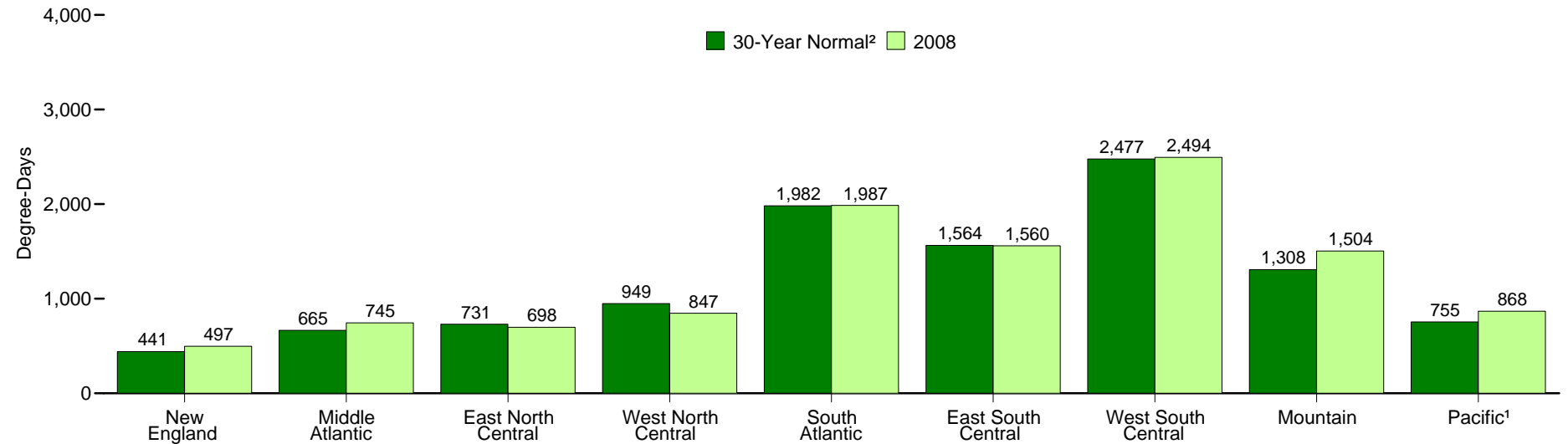
Source: U.S. Department of Commerce, National Oceanic and Atmospheric Administration (NOAA), National Climatic Data Center, Asheville, North Carolina, Historical Climatology Series 5-1.

Figure 1.10 Cooling Degree-Days by Census Division

U.S.¹ Cooling Degree-Days, 1949-2008



Cooling Degree-Days by Census Division, 2008



¹ Excludes Alaska and Hawaii.

² Based on calculations of data from 1971 through 2000.

Note: See Appendix C for map of Census divisions.

Source: Table 1.10.

Table 1.10 Cooling Degree-Days by Census Division, Selected Years, 1949-2008

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	570	863	933	1,087	2,209	1,808	2,545	1,543	739	1,396
2003	522	685	645	946	2,007	1,494	2,522	1,639	941	1,290
2004	402	670	604	752	2,037	1,549	2,485	1,376	823	1,232
2005	642	990	960	1,094	2,081	1,696	2,636	1,457	728	1,397
2006	528	778	752	1,079	2,037	1,670	2,776	1,586	916	1,368
2007	484	788	900	1,135	2,212	1,927	2,488	1,663	811	1,399
2008 ^P	497	745	698	847	1,987	1,560	2,494	1,504	868	1,277
Normal ²	441	665	731	949	1,982	1,564	2,477	1,308	755	1,242

¹ Excludes Alaska and Hawaii.

² Based on calculations of data from 1971 through 2000.

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.

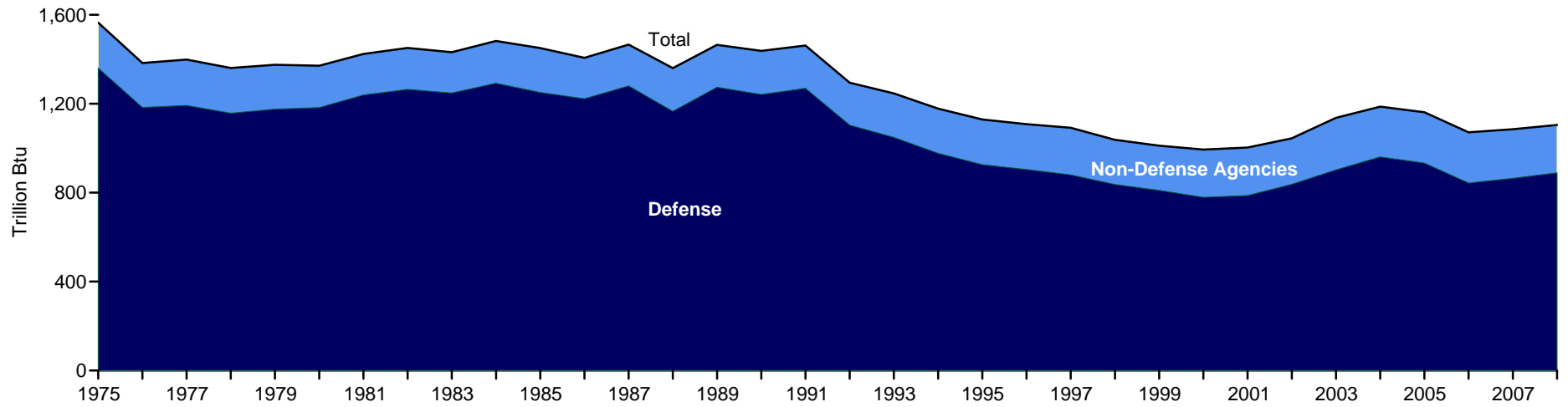
Beginning in 2002, data are weighted by the 2000 population. The population-weighted State figures are aggregated into Census divisions and the national average. • See Appendix C for map of Census divisions.

Web Pages: • For all data beginning in 1949, see <http://www.eia.doe.gov/emeu/aer/overview.html>. • For current data, see <http://www.eia.doe.gov/emeu/mer/overview.html>.

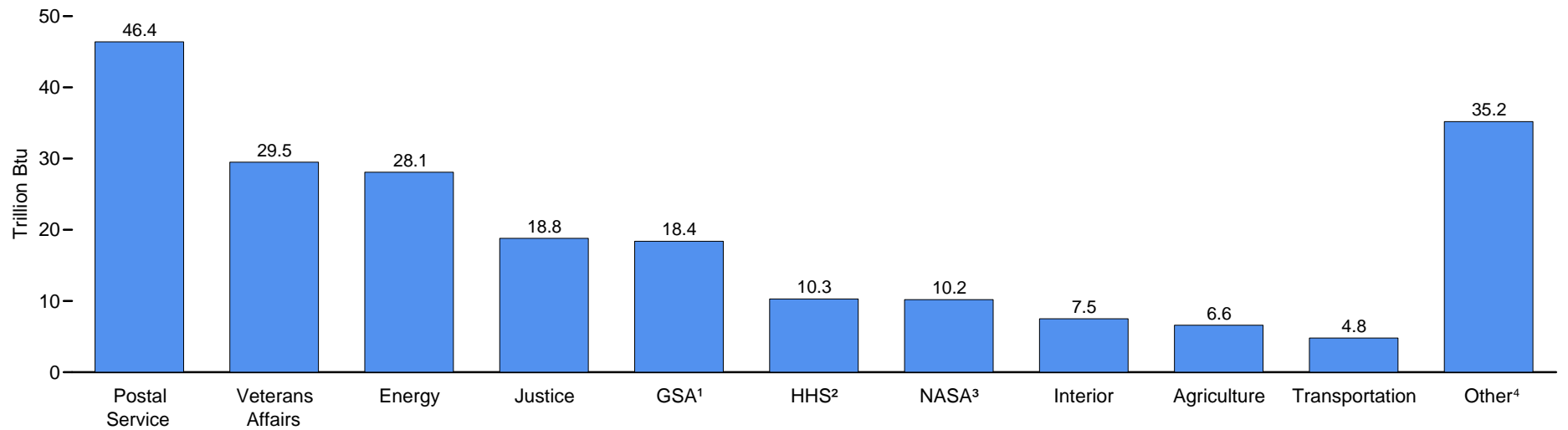
Source: U.S. Department of Commerce, National Oceanic and Atmospheric Administration (NOAA), National Climatic Data Center, Asheville, North Carolina, Historical Climatology Series 5-2.

Figure 1.11 U.S. Government Energy Consumption by Agency

Total and U.S. Department of Defense, Fiscal Years 1975-2008



Non-Defense Agencies, Fiscal Year 2008



¹ General Services Administration.

² Health and Human Services.

³ National Aeronautics and Space Administration.

⁴ See Table 1.11 for list of agencies.

Note: 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.

Source: Table 1.11.

Table 1.11 U.S. Government Energy Consumption by Agency, Fiscal Years 1975-2008

(Trillion Btu)

Year	Agriculture	Defense	Energy	GSA ¹	HHS ²	Interior	Justice	NASA ³	Postal Service	Transportation	Veterans Affairs	Other ⁴	Total
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	20.7	6.0	7.8	8.2	10.9	27.8	19.6	25.1	13.1	1,450.3
1986	6.8	1,222.8	46.9	14.0	6.2	6.9	8.6	11.2	28.0	19.4	25.0	10.8	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	43.5	17.5	7.1	7.4	7.0	12.4	30.6	19.0	24.9	17.5	1,438.0
1991	9.6	1,269.3	42.1	14.0	6.2	7.1	8.0	12.5	30.8	19.0	25.1	18.1	1,461.7
1992	9.1	1,104.0	44.3	13.8	6.8	7.0	7.5	12.6	31.7	17.0	25.3	15.7	1,294.8
1993	9.3	1,048.8	43.4	14.1	7.2	7.5	9.1	12.4	33.7	19.4	25.7	16.2	1,246.8
1994	9.4	977.0	42.1	14.0	7.5	7.9	10.3	12.6	35.0	19.8	25.6	17.1	1,178.2
1995	9.0	926.0	47.3	13.7	6.1	6.4	10.2	12.4	36.2	18.7	25.4	17.9	1,129.3
1996	9.1	904.5	44.6	14.5	6.6	4.3	12.1	11.5	36.4	19.6	26.8	18.5	1,108.5
1997	7.4	880.0	43.1	14.4	7.9	6.6	12.0	12.0	40.8	19.1	27.3	21.6	1,092.0
1998	7.9	837.1	31.5	14.1	7.4	6.4	15.8	11.7	39.5	18.5	27.6	20.3	1,037.9
1999	7.8	810.7	27.0	14.4	7.1	7.5	15.4	11.4	39.8	22.6	27.5	20.6	1,011.6
2000	7.4	779.1	30.5	17.6	8.0	7.8	19.7	11.1	43.3	21.2	27.0	21.0	993.8
2001	7.4	787.2	31.1	18.4	8.5	9.5	19.7	10.9	43.4	17.8	27.7	21.4	1,003.0
2002	7.2	837.5	30.7	17.5	8.0	8.2	17.7	10.7	41.6	18.3	27.7	19.8	1,044.8
2003	7.7	902.3	31.6	19.6	10.1	8.2	22.7	10.8	50.9	5.6	30.5	36.2	1,136.3
2004	7.0	960.7	31.4	18.3	8.8	8.7	17.5	9.9	50.5	5.2	29.9	39.2	1,187.0
2005	7.5	933.2	29.6	18.4	9.6	8.6	18.8	10.3	53.5	5.0	30.0	37.2	1,161.6
2006	6.8	843.7	32.9	18.2	9.3	8.1	23.5	10.2	51.8	4.6	29.3	33.2	1,071.5
2007	6.8	864.6	^R 31.5	19.1	^R 9.9	7.5	^R 20.7	10.6	45.8	5.6	^R 30.0	33.2	^R 1,085.3
2008 ^P	6.6	889.1	28.1	18.4	10.3	7.5	18.8	10.2	46.4	4.8	29.5	35.2	1,104.8

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, Consumer Product Safety Commission, Social Security Administration, and U.S. Information Agency (International Broadcasting Bureau).

R = Revised. P = Preliminary.

Notes: • For 1975 and 1976, the U.S. Government's fiscal year was July 1 through June 30. Beginning

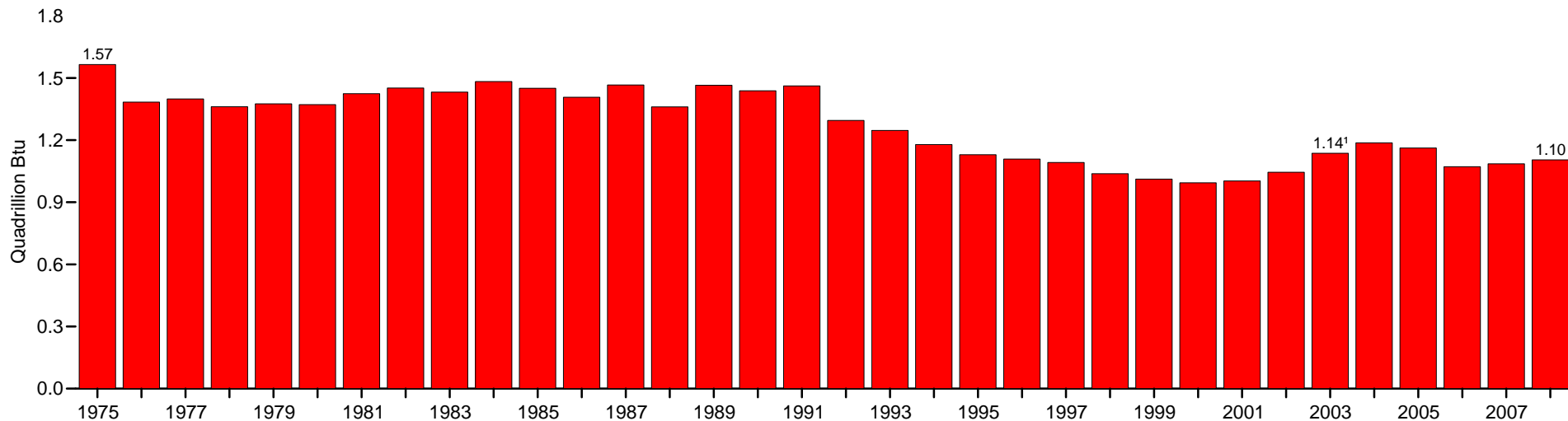
in 1977, the U.S. Government's fiscal year is October 1 through September 30 (for example, fiscal year 2007 is October 2006 through September 2007). • Data in this table are developed using the following conversion factors (which in most cases are different from those in Tables A1-A6)—coal: 24,580 million Btu/short ton; natural gas: 1,031 Btu/cubic foot; aviation gasoline: 5.250 million Btu/barrel; fuel oil: 5.8254 million Btu/barrel; jet fuel: 5.460 million Btu/barrel; liquefied petroleum gases: 4.011 million Btu/barrel; motor gasoline: 5.250 million Btu/barrel; electricity: 3,412 Btu/kilowatt-hour; and purchased steam: 1,000 Btu/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: For related information, see http://www1.eere.energy.gov/femp/about/annual_report.html.

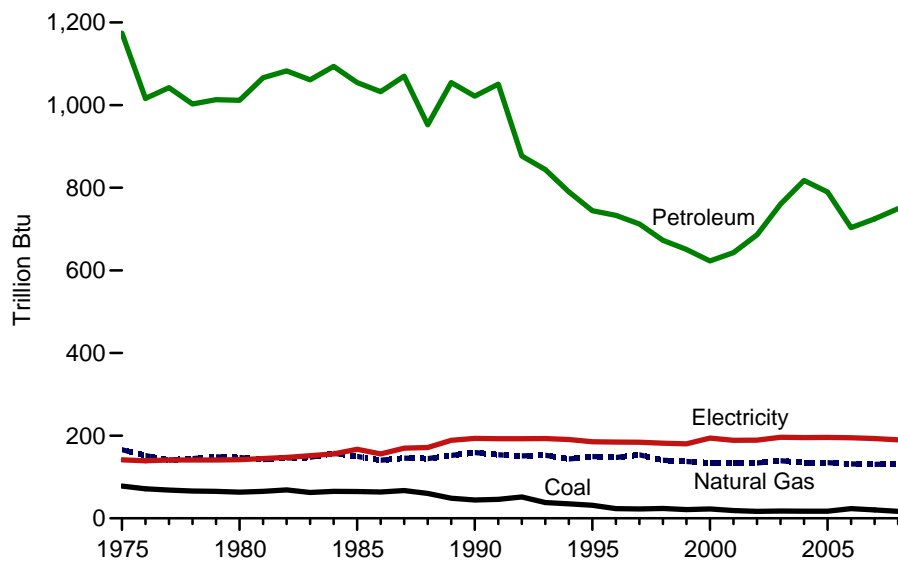
Source: U.S. Department of Energy, Office of Energy Efficiency and Renewable Energy, Federal Energy Management Program.

Figure 1.12 U.S. Government Energy Consumption by Source, Fiscal Years 1975-2008

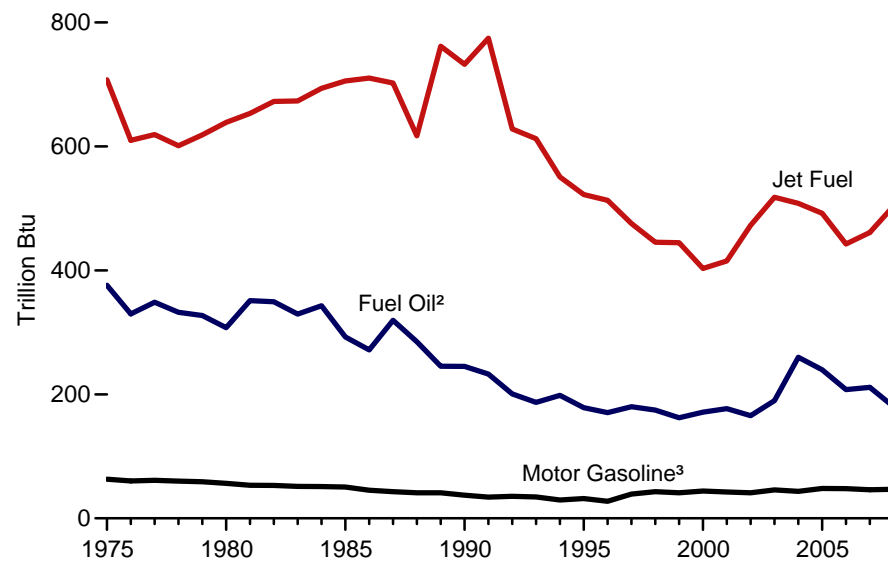
Total U.S. Government Energy Consumption



By Major Energy Source



By Selected Petroleum Product



¹Noted in reference to Executive Order 13423 (January 24, 2008), Sec. 2(a) that requires Federal agencies to “improve energy efficiency and reduce greenhouse gasses...relative to the baseline of the agency’s energy use in fiscal year 2003.”

²Distillate fuel oil and residual fuel oil.

³Includes ethanol blended into motor gasoline.

Note: 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.

Source: Table 1.12.

Table 1.12 U.S. Government Energy Consumption by Source, Fiscal Years 1975-2008

(Trillion Btu)

Year	Coal	Natural Gas ¹	Petroleum						Electricity	Purchased Steam and Other ⁶	Total
			Aviation Gasoline	Fuel Oil ²	Jet Fuel	LPG ³ and Other ⁴	Motor Gasoline ⁵	Total			
1975	77.9	166.2	22.0	376.0	707.4	5.6	63.2	1,174.2	141.5	5.1	1,565.0
1976	71.3	151.8	11.6	329.7	610.0	4.7	60.4	1,016.4	139.3	4.6	1,383.4
1977	68.4	141.2	8.8	348.5	619.2	4.1	61.4	1,042.1	141.1	5.7	1,398.5
1978	66.0	144.7	6.2	332.3	601.1	3.0	60.1	1,002.9	141.0	6.4	1,360.9
1979	65.1	148.9	4.7	327.1	618.6	3.7	59.1	1,013.1	141.2	7.1	1,375.4
1980	63.5	147.3	4.9	307.7	638.7	4.0	56.5	1,011.8	141.9	6.8	1,371.2
1981	65.1	142.2	4.6	351.3	653.3	3.7	53.2	1,066.2	144.5	6.2	1,424.2
1982	68.6	146.2	3.6	349.4	672.7	3.9	53.1	1,082.8	147.5	6.2	1,451.4
1983	62.4	147.8	2.6	329.5	673.4	4.0	51.6	1,061.1	151.5	9.0	1,431.8
1984	65.3	157.4	1.9	342.9	693.7	4.1	51.2	1,093.8	155.9	10.1	1,482.5
1985	64.8	149.9	1.9	292.6	705.7	4.0	50.4	1,054.6	167.2	13.9	1,450.3
1986	63.8	140.9	1.4	271.6	710.2	3.9	45.3	1,032.4	155.8	13.7	1,406.7
1987	67.0	145.6	1.0	319.5	702.3	4.0	43.1	1,069.9	169.9	13.9	1,466.3
1988	60.2	144.6	6.0	284.8	617.2	3.2	41.2	952.4	171.2	32.0	1,360.3
1989	48.7	152.4	.8	245.3	761.7	5.7	41.1	1,054.5	188.6	20.6	1,464.7
1990	44.3	159.4	.5	245.2	732.4	6.4	37.2	1,021.7	193.6	19.1	1,438.0
1991	45.9	154.1	.4	232.6	774.5	9.0	34.1	1,050.7	192.7	18.3	1,461.7
1992	51.7	151.2	1.0	200.6	628.2	11.4	35.6	876.8	192.5	22.5	1,294.8
1993	38.3	152.9	.7	187.0	612.4	9.3	34.5	843.9	193.1	18.6	1,246.8
1994	35.0	143.9	.6	198.5	550.7	10.9	29.5	790.2	190.9	18.2	1,178.2
1995	31.7	149.7	.3	178.5	522.3	11.4	31.9	744.4	185.3	18.2	1,129.3
1996	23.3	147.4	.2	170.6	513.0	21.7	27.6	733.2	184.5	20.1	1,108.5
1997	22.5	154.0	.3	180.1	475.7	17.2	39.0	712.2	184.0	19.2	1,092.0
1998	23.9	140.7	.2	174.6	445.5	9.4	43.1	672.8	181.8	18.8	1,037.9
1999	21.2	137.6	.1	162.2	444.7	2.9	41.1	650.9	180.4	21.5	1,011.6
2000	22.7	134.0	.2	171.4	403.1	4.3	43.9	622.9	194.0	20.2	993.8
2001	18.8	133.9	.2	177.0	415.2	7.9	42.5	642.9	188.8	18.6	1,003.0
2002	16.9	134.1	.2	165.7	472.9	6.0	41.3	686.1	189.1	18.5	1,044.8
2003	17.7	139.7	.3	189.8	517.9	6.6	45.7	760.3	196.1	22.5	1,136.3
2004	17.4	134.8	.2	259.8	508.2	6.0	43.5	817.8	195.4	21.6	1,187.0
2005	17.1	135.1	.4	239.8	492.2	9.0	48.2	789.6	195.9	23.9	1,161.6
2006	23.5	132.0	.6	207.8	442.6	4.7	47.8	703.5	194.9	17.7	1,071.5
2007	20.4	130.8	.4	^R 211.4	461.1	^R 5.6	^R 46.0	^R 724.5	^R 193.2	^R 16.4	^R 1,085.3
2008 ^P	16.9	131.9	.3	179.7	504.4	18.1	46.9	749.4	189.8	16.9	1,104.8

¹ Natural gas, plus a small amount of supplemental gaseous fuels.

² Distillate fuel oil and residual fuel oil.

³ Liquefied petroleum gases.

⁴ Other types of fuel used in vehicles and equipment, primarily alternative fuels like methanol, ethanol, compressed natural gas, and biodiesel.

⁵ Includes ethanol blended into motor gasoline.

⁶ "Other" is chilled water, renewable energy, and other fuels reported as used in facilities.

R = Revised. P = Preliminary.

Notes: • For 1975 and 1976, the U.S. Government's fiscal year was July 1 through June 30. Beginning in 1977, the U.S. Government's fiscal year is October 1 through September 30 (for example, fiscal year 2007 is October 2006 through September 2007). • Data in this table are developed using the following

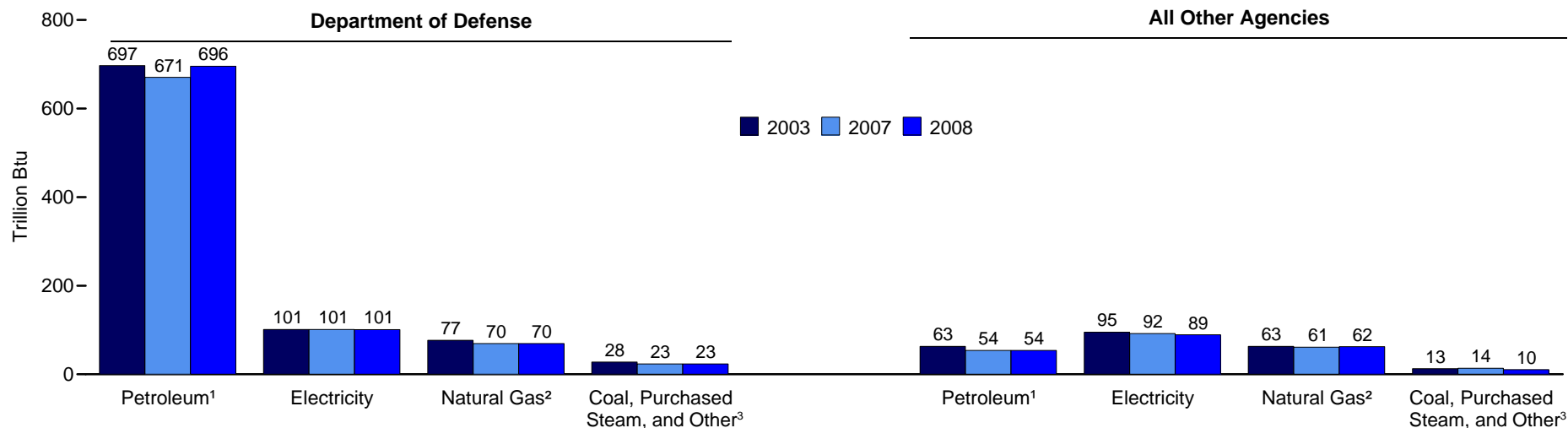
conversion factors (which in most cases are different from those in Tables A1-A6)—coal: 24,580 million Btu/short ton; natural gas: 1,031 Btu/cubic foot; aviation gasoline: 5.250 million Btu/barrel; fuel oil: 5.8254 million Btu/barrel; jet fuel: 5.460 million Btu/barrel; liquefied petroleum gases: 4.011 million Btu/barrel; motor gasoline: 5.250 million Btu/barrel; electricity: 3,412 Btu/kilowatt-hour; and purchased steam: 1,000 Btu/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: For related information, see http://www1.eere.energy.gov/femp/about/annual_report.html.

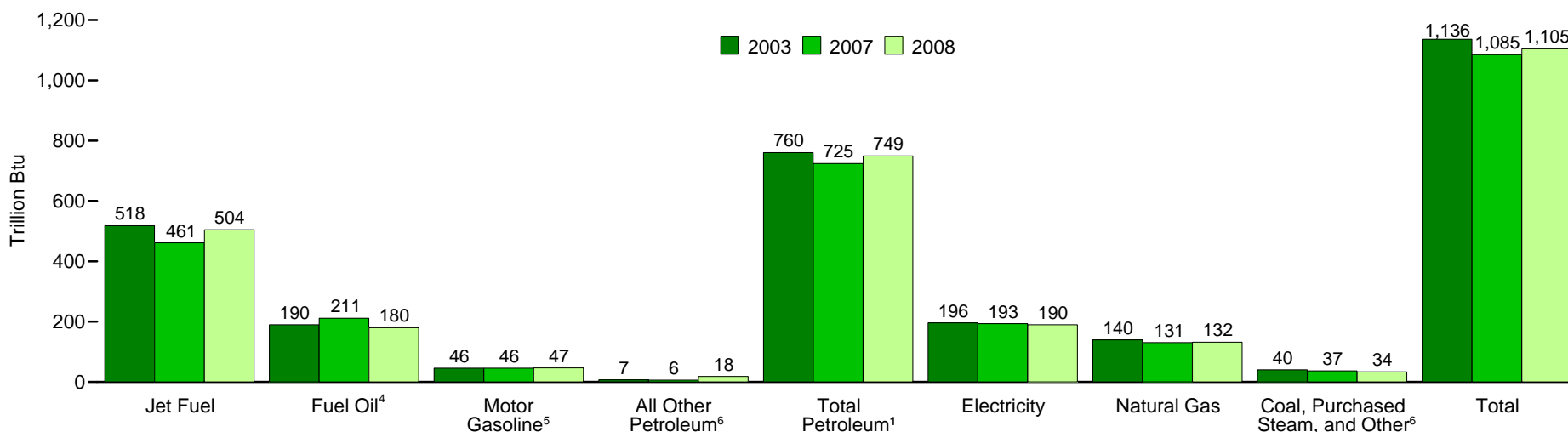
Source: U.S. Department of Energy, Office of Energy Efficiency and Renewable Energy, Federal Energy Management Program.

Figure 1.13 U.S. Government Energy Consumption by Agency and Source, Fiscal Years 2003, 2007, and 2008

By Agency



By Source



¹Includes small amount of renewable energy; see Table 1.13, footnote 2.

²Natural gas, plus a small amount of supplemental gaseous fuels.

³Chilled water, renewable energy, and other fuels reported as used in facilities.

⁴Distillate fuel oil and residual fuel oil.

⁵Includes ethanol blended into motor gasoline.

⁶Aviation gasoline, liquefied petroleum gas, and other types of fuel used in vehicles and equipment, primarily alternative fuels like methanol, ethanol, compressed natural gas, and biodiesel.

Note: The U.S. Government's fiscal year runs from October 1 through September 30.
Source: Table 1.13.

Table 1.13 U.S. Government Energy Consumption by Agency and Source, Fiscal Years 2003, 2007, and 2008
(Trillion Btu)

Resource and Fiscal Years	Agriculture	Defense	Energy	GSA ¹	HHS ²	Interior	Justice	NASA ³	Postal Service	Transportation	Veterans Affairs	Other ⁴	Total
Coal													
2003	0.0	15.4	2.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.2	0.0	17.7
2007 .....	.0	15.4	4.8	.0	.0	.0	.0	.0	.0	.0	.2	.0	20.4
2008 ^P .....	.0	14.9	1.8	.0	.0	.0	.0	.0	.0	.0	.2	.0	16.9
Natural Gas ⁵													
2003	1.4	76.6	7.0	7.6	3.7	1.3	8.6	2.9	10.4	.7	15.6	4.2	139.7
2007	1.6	69.5	6.2	7.2	5.1	1.2	10.5	2.7	6.5	.8	15.5	4.0	130.8
2008 ^P	1.2	69.5	5.9	6.8	5.6	1.1	10.1	2.8	9.3	.7	14.9	4.0	131.9
Petroleum													
2003	3.3	697.1	3.0	.2	1.5	4.4	6.5	1.4	18.2	1.6	2.8	20.3	760.3
2007	3.0	670.6	2.7	.2	^R 1.0	4.1	^R 3.4	1.6	16.5	1.5	^R 1.9	18.1	^R 724.5
2008 ^P	3.2	695.5	2.4	.2	1.0	4.0	2.9	1.1	16.1	1.1	2.0	20.1	749.4
Aviation Gasoline													
2003	^R (s)	^R (s)	^R (s)	.0	.0	^R (s)	.1	.0	.0	^R (s)	.0	^R (s)	.3
2007 .....	.1	.1	.0	.0	.0	.0	.1	.0	.0	.0	.0	.1	.4
2008 ^P .....	.1	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.3
Fuel Oil ⁶													
2003 .....	.4	166.5	2.0	.1	.9	1.2	.4	.4	5.1	.3	1.9	10.7	189.8
2007 .....	.5	194.1	1.6	.1	.6	1.1	^R .3	.4	3.1	.6	^R 1.1	7.9	^R 211.4
2008 ^P .....	.5	161.4	1.4	.1	.6	1.1	.3	.3	2.7	.2	1.0	10.1	179.7
Jet Fuel													
2003 .....	.0	509.9	.0	.0	.0	.1	1.5	.6	.0	.6	.0	5.2	517.9
2007 .....	.0	455.6	.0	.0	.0	.0	.0	1.0	.0	.5	.0	4.0	461.1
2008 ^P .....	.0	499.3	.0	.0	.0	.1	.0	.6	.0	.5	.0	4.0	504.4
LPG ⁷ and Other ⁸													
2003 .....	.7	4.2	.1	.0	.1	.7	.0	.1	.2	.1	.0	.3	6.6
2007 .....	.3	3.1	.4	.0	.1	.9	^R .0	.1	.4	.0	.0	.2	^R 5.6
2008 ^P .....	.4	15.5	.3	.0	.1	1.0	.0	.1	.1	.0	.1	.5	18.1
Motor Gasoline ⁹													
2003	2.2	16.5	.9	.1	.5	2.4	4.5	.2	12.9	.7	.9	4.1	45.7
2007	2.1	17.8	.7	.0	^R .3	2.0	^R 2.9	.1	12.9	.4	.8	5.9	^R 46.0
2008 ^P	2.1	19.2	.7	.1	.2	1.8	2.6	.1	13.2	.4	.8	5.4	46.9
Electricity													
2003	2.6	101.1	18.0	10.0	3.6	2.4	7.0	5.8	21.7	3.2	10.2	10.5	196.1
2007	1.9	101.2	^R 16.7	10.0	3.3	2.1	6.0	5.5	22.5	3.2	10.7	10.1	^R 193.2
2008 ^P	1.9	100.7	16.7	9.8	3.4	2.2	5.2	5.5	20.7	2.8	10.6	10.1	189.8
Purchased Steam and Other ¹⁰													
2003 .....	.3	12.2	1.6	1.8	1.3	.1	.7	.8	.7	.0	1.7	1.2	22.5
2007 .....	.2	7.9	^R 1.2	1.7	.4	.1	.8	.8	.4	.0	1.7	1.0	^R 16.4
2008 ^P .....	.3	8.5	1.4	1.6	.4	.2	.5	.9	.3	.2	1.7	1.1	16.9
Total Energy													
2003	7.7	902.3	31.6	19.6	10.1	8.2	22.7	10.8	50.9	5.6	30.5	36.2	1,136.3
2007	6.8	864.6	^R 31.5	19.1	^R 9.9	7.5	^R 20.7	10.6	45.8	5.6	^R 30.0	33.2	^R 1,085.3
2008 ^P	6.6	889.1	28.1	18.4	10.3	7.5	18.8	10.2	46.4	4.8	29.5	35.2	1,104.8

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, 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, Equal Employment Opportunity Commission, Nuclear Regulatory Commission, U.S. Department of State, U.S. Department of the Treasury, Office of Personnel Management, Consumer Product Safety Commission, Central Intelligence Agency, Social Security Administration, U.S. Information Agency (International Broadcasting Bureau).

⁵ Natural gas, plus a small amount of supplemental gaseous fuels.

⁶ Distillate fuel oil and residual fuel oil.

⁷ Liquefied petroleum gases.

⁸ Other types of fuel used in vehicles and equipment, primarily alternative fuels like methanol, ethanol, compressed natural gas, and biodiesel.

⁹ Includes ethanol blended into motor gasoline.

¹⁰ Chilled water, renewable energy, and other fuels reported as used in facilities.

R=Revised. P=Preliminary. (s)=Less than 0.05 trillion.

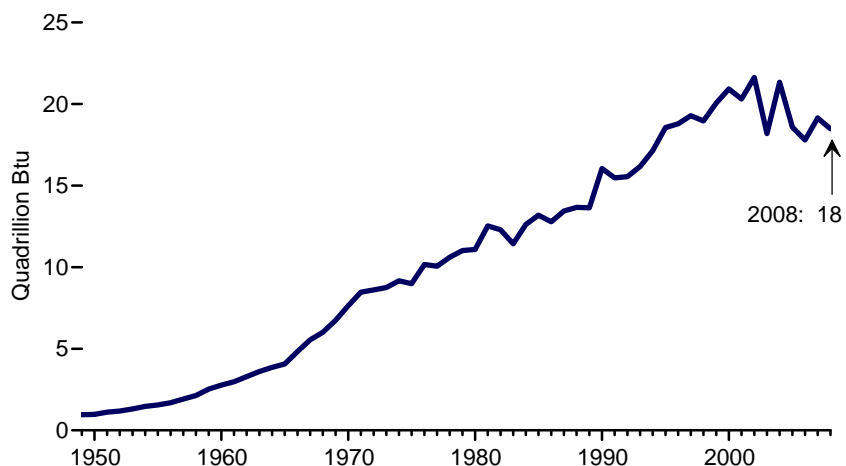
Notes: • For 1975 and 1976, the U.S. Government's fiscal year was July 1 through June 30. Beginning in 1977, the U.S. Government's fiscal year is October 1 through September 30 (for example, fiscal year 2007 is October 2006 through September 2007). • Data in this table are developed using the following conversion factors (which in most cases are different from those in Tables A1-A6)—coal: 24,580 million Btu/short ton; natural gas: 1,031 Btu/cubic foot; aviation gasoline: 5,250 million Btu/barrel; fuel oil: 5,8254 million Btu/barrel; jet fuel: 5,460 million Btu/barrel; liquefied petroleum gases: 4,011 million Btu/barrel; motor gasoline: 5,250 million Btu/barrel; electricity: 3,412 Btu/kilowatt-hour; and purchased steam: 1,000 Btu/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.

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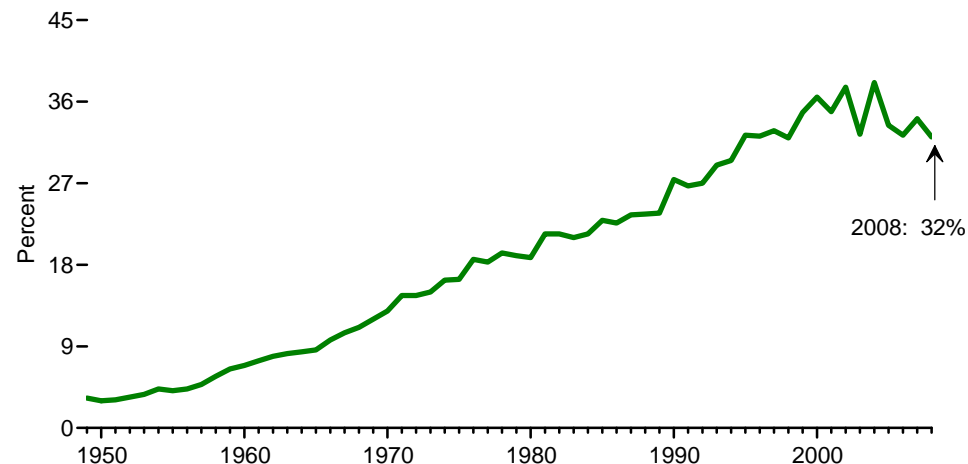
Source: U.S. Department of Energy, Office of Energy Efficiency and Renewable Energy, Federal Energy Management Program.

Figure 1.14 Fossil Fuel Production on Federally Administered Lands

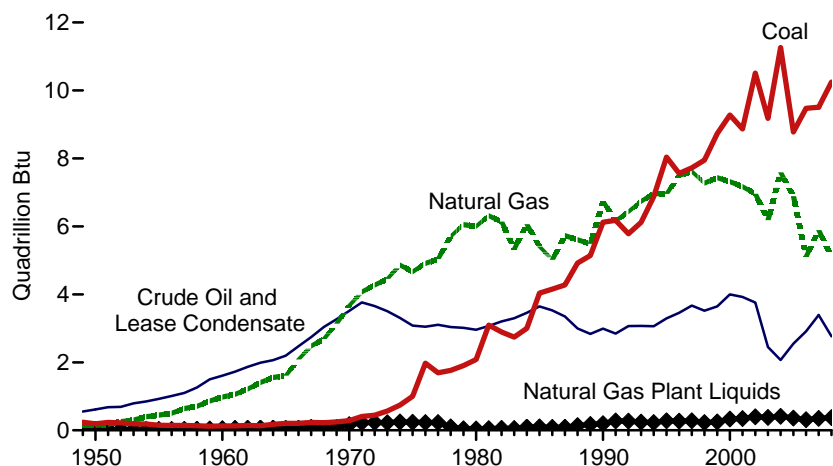
Total, 1949-2008



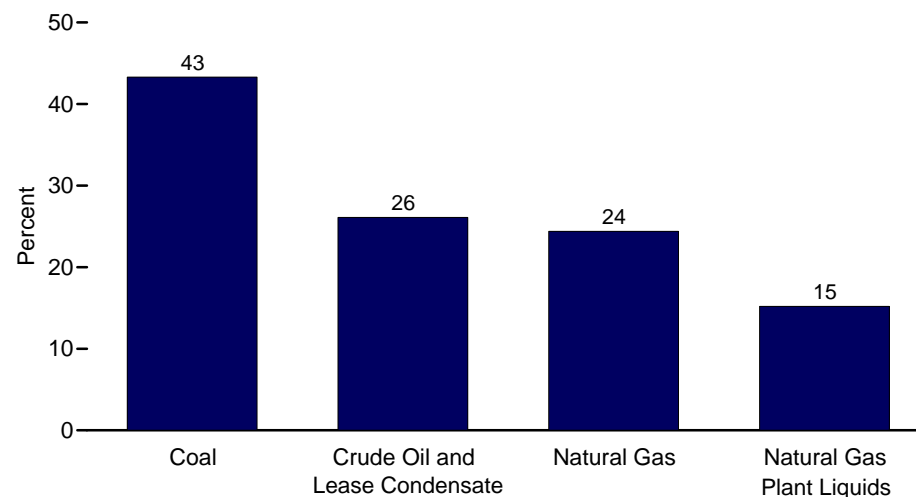
Federal Lands Fossil Fuel Production as a Share of U.S. Fossil Fuel Production, 1949-2008



By Source, 1949-2008



Federal Lands Fossil Fuel Production as a Share of U.S. Fossil Fuel Production, By Source, 2008



Notes: • Data through 2000 are on a calendar-year basis; data for 2001-2008 are on a fiscal-year basis (October–September). • “Federally Administered Lands” include all classes of land

owned by the Federal Government, including acquired military, Outer Continental Shelf, and public lands.

Source: Table 1.14.

Table 1.14 Fossil Fuel Production on Federally Administered Lands, Selected Years, 1949-2008

Year	Crude Oil and Lease Condensate			Natural Gas Plant Liquids ¹			Natural Gas ²			Coal			Fossil Fuels	
	Million Barrels ³	Quadrillion Btu	Percent of U.S. Total	Million Barrels ³	Quadrillion Btu	Percent of U.S. Total	Trillion Cubic Feet ³	Quadrillion Btu	Percent of U.S. Total	Million Short Tons ³	Quadrillion Btu	Percent of U.S. Total	Quadrillion Btu	Percent of U.S. Total
Calendar-Year Data ⁴														
1949	95.2	0.55	5.2	4.4	0.02	2.8	0.15	0.15	2.8	9.5	0.24	2.0	0.96	3.3
1950	105.9	.61	5.4	4.4	.02	2.4	.14	.15	2.4	7.7	.19	1.4	.98	3.0
1955	159.5	.92	6.4	6.0	.03	2.1	.43	.45	4.8	5.9	.15	1.2	1.55	4.1
1960	277.3	1.61	10.8	11.6	.05	3.4	.95	.98	7.8	5.2	.13	1.2	2.77	6.9
1965	378.6	2.20	13.3	14.3	.06	3.2	1.56	1.61	10.2	8.2	.20	1.6	4.07	8.6
1970	605.6	3.51	17.2	40.6	.17	6.7	3.56	3.67	16.9	12.0	.29	2.0	7.64	12.9
1971	648.9	3.76	18.8	54.0	.22	8.7	3.95	4.08	18.3	17.3	.41	3.1	8.47	14.6
1972	630.5	3.66	18.2	56.7	.23	8.9	4.17	4.28	19.3	19.0	.44	3.1	8.61	14.6
1973	604.3	3.51	18.0	54.9	.22	8.7	4.37	4.46	20.1	24.2	.57	4.1	8.75	15.0
1974	570.2	3.31	17.8	61.9	.25	10.1	4.75	4.87	22.9	32.1	.74	5.3	9.16	16.3
1975	531.5	3.08	17.4	59.7	.24	10.0	4.57	4.67	23.8	43.6	1.00	6.7	8.99	16.4
1976	525.7	3.05	17.7	57.2	.23	9.7	4.81	4.91	25.2	86.4	1.98	12.6	10.16	18.6
1977	535.0	3.10	17.8	57.4	.23	9.7	4.94	5.04	25.8	74.8	1.69	10.7	10.06	18.3
1978	523.6	3.04	16.5	25.9	.10	4.5	5.60	5.71	29.3	79.2	1.76	11.8	10.61	19.3
1979	519.8	3.01	16.7	11.9	.05	2.1	5.93	6.05	30.1	84.9	1.91	10.9	11.02	19.0
1980	510.4	2.96	16.2	10.5	.04	1.8	5.85	6.01	30.2	92.9	2.08	11.2	11.09	18.8
1981	529.3	3.07	16.9	12.3	.05	2.1	6.15	6.31	32.1	138.8	3.10	16.8	12.53	21.4
1982	552.3	3.20	17.5	15.0	.06	2.7	5.97	6.14	33.5	130.0	2.89	15.5	12.29	21.4
1983	568.8	3.30	17.9	14.0	.05	2.5	5.17	5.33	32.1	124.3	2.74	15.9	11.43	21.0
1984	595.8	3.46	18.3	25.4	.10	4.3	5.88	6.07	33.7	136.3	3.00	15.2	12.62	21.4
1985	628.3	3.64	19.2	26.6	.10	4.5	5.24	5.41	31.8	184.6	4.04	20.9	13.19	22.9
1986	608.4	3.53	19.2	23.3	.09	4.1	4.87	5.01	30.3	189.7	4.16	21.3	12.79	22.6
1987	577.3	3.35	18.9	23.7	.09	4.1	5.56	5.73	33.4	195.2	4.28	21.2	13.45	23.5
1988	516.3	2.99	17.3	37.0	.14	6.2	5.45	5.61	31.9	225.4	4.92	23.7	13.67	23.6
1989	488.9	2.84	17.6	45.1	.17	8.0	5.32	5.49	30.7	236.3	5.14	24.1	13.64	23.7
1990	515.9	2.99	19.2	50.9	.19	8.9	6.55	6.74	36.8	280.6	6.12	27.2	16.05	27.4
1991	491.0	2.85	18.1	72.7	.28	12.0	5.99	6.17	33.8	285.1	6.18	28.5	15.47	26.7
1992	529.1	3.07	20.2	70.7	.27	11.4	6.25	6.43	35.0	266.7	5.78	26.6	15.55	27.0
1993	529.3	3.07	21.2	64.4	.24	10.2	6.56	6.74	36.3	285.7	6.12	30.0	16.17	29.0
1994	527.7	3.06	21.7	60.0	.23	9.5	6.78	6.97	36.0	321.4	6.88	30.9	17.14	29.5
1995	567.4	3.29	23.7	74.0	.28	11.5	6.78	6.96	36.4	376.9	8.04	36.2	18.56	32.3
1996	596.5	3.46	25.2	71.2	.27	10.6	7.31	7.50	38.8	354.5	7.56	33.0	18.79	32.2
1997	632.8	3.67	26.9	74.7	.28	11.3	7.43	7.62	39.3	362.6	7.72	33.0	19.29	32.8
1998	⁵ 606.3	⁵ 3.52	⁵ 26.6	⁵ 60.3	⁵ .23	⁵ 9.4	⁵ 7.06	⁵ 7.27	⁵ 37.1	371.1	7.95	33.0	⁵ 18.97	⁵ 32.0
1999	⁶ 628.9	⁶ 3.65	⁶ 29.3	⁶ 66.5	⁶ .25	⁶ 9.9	⁶ 7.24	⁶ 7.44	⁶ 38.4	414.5	8.73	37.4	⁶ 20.07	⁶ 34.8
2000	689.2	4.00	32.3	88.9	.33	12.7	7.14	7.32	37.2	440.2	9.27	40.7	20.92	36.5
Fiscal-Year Data ⁷														
2001	676.5	3.92	32.0	93.0	0.35	14.0	6.98	7.17	35.7	425.4	8.87	38.1	20.31	34.9
2002	647.8	3.76	30.5	106.5	.40	15.2	6.78	6.96	35.4	507.8	10.51	45.7	21.63	37.6
2003	⁸ 422.6	⁸ 2.45	⁸ 20.4	101.0	.38	16.0	6.01	6.19	31.5	446.7	9.18	41.3	18.19	32.4
2004	356.4	2.07	17.7	110.7	.41	16.8	7.38	7.59	39.4	551.1	11.27	49.7	21.33	38.1
2005	439.9	2.55	22.7	96.6	.36	14.8	6.70	6.89	36.6	431.0	8.78	37.8	18.58	33.4
2006	502.1	2.91	27.4	84.1	.31	13.7	4.96	5.10	^R 27.4	466.2	9.47	40.1	17.80	^R 32.3
2007	584.7	3.39	^R 31.5	94.5	.35	^R 14.7	5.73	5.89	^R 30.4	467.5	9.51	40.4	19.14	^R 34.1
2008	476.6	2.76	26.1	101.3	.38	15.2	4.96	5.09	24.4	506.1	10.25	43.3	18.48	32.1

¹ 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.

² Includes some quantities of natural gas processed into liquids at natural gas processing plants and fractionators.

³ Data from the U.S. Department of the Interior (DOI), U.S. Minerals Management Service (MMS), are for sales volumes.

⁴ Through 2000, data are on a calendar-year (January through December) basis. The only exception is in 1949-1974 with production from Naval Petroleum Reserve No. 1, which is on a fiscal-year (July through June) basis.

⁵ There is a discontinuity in this time series between 1997 and 1998 due to the sale of "Elk Hills," Naval

Petroleum Reserve No. 1.

⁶ 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.

⁷ Beginning in 2001, data are on a fiscal-year (October through September) basis; for example, fiscal-year 2006 data are for October 2005 through September 2006.

⁸ A significant amount of Federal offshore crude oil was diverted to the Strategic Petroleum Reserve. R=Revised.

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

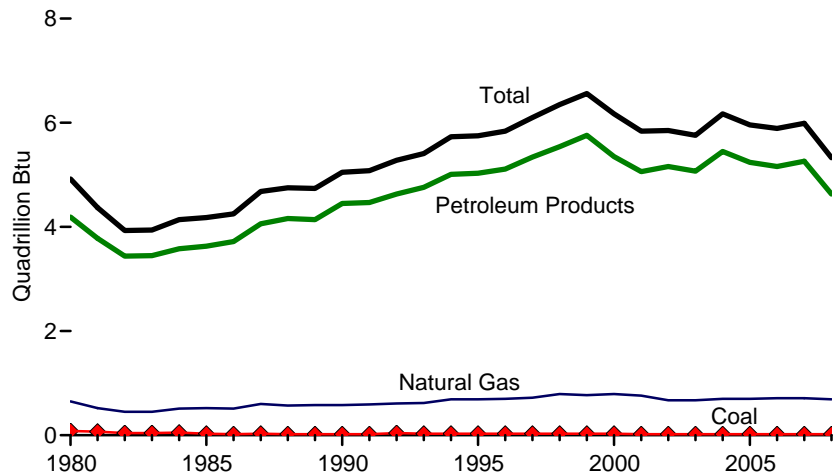
Web Pages: • For all data beginning in 1949, see <http://www.eia.doe.gov/emeu/aer/overview.html>.

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

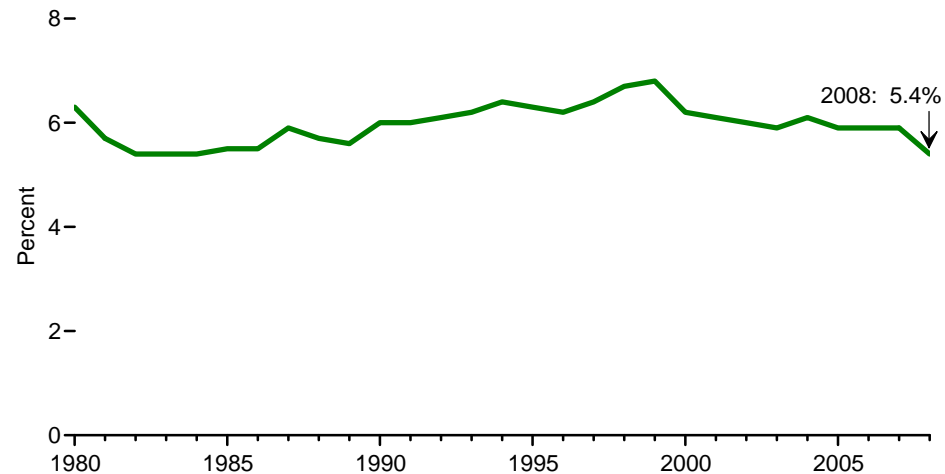
Sources: See end of section.

Figure 1.15 Fossil Fuel Consumption for Nonfuel Use

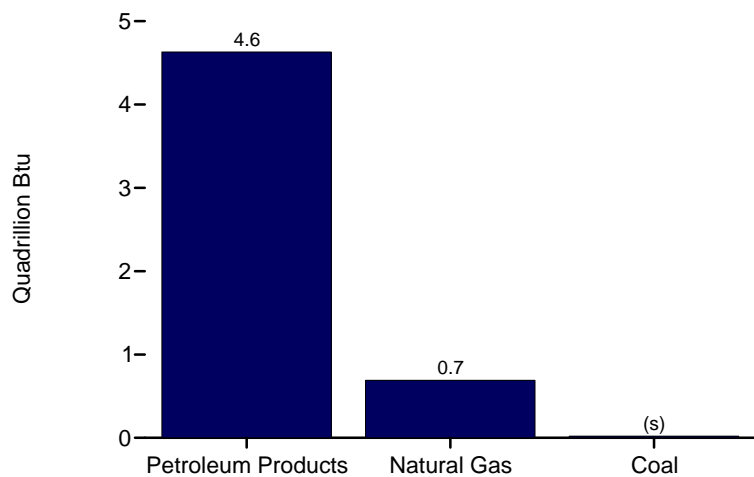
Total, 1980-2008



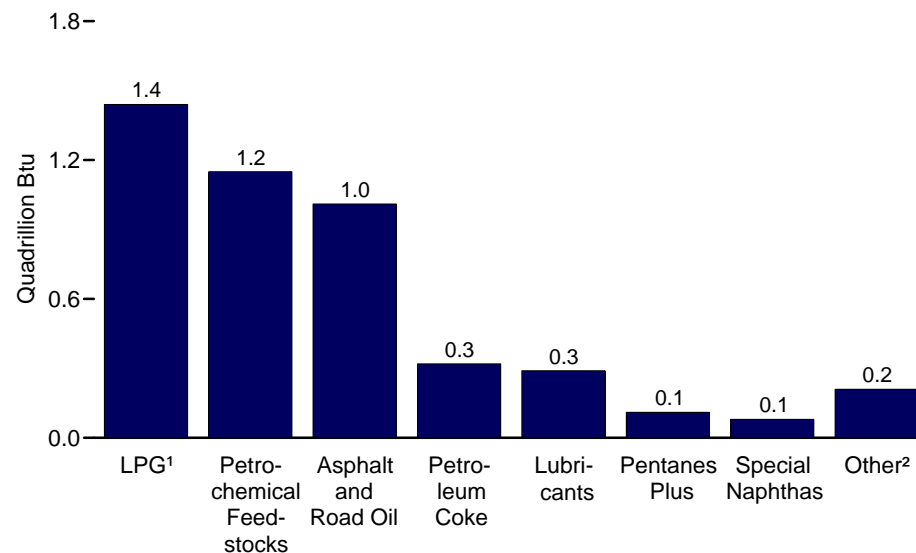
As Share of Total Energy Consumption, 1980-2008



By Fuel, 2008



By Petroleum Product, 2008



¹ Liquefied petroleum gases.

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

(s)=Less than 0.05 quadrillion Btu.

Note: See Note 3, "Nonfuel Use of Fossil Fuels," at end of section.

Source: Table 1.15.

Table 1.15 Fossil Fuel Consumption for Nonfuel Use, Selected Years, 1980-2008

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	--	--
1985	156	265	13	53	144	15	30	41	718	500	1.1	--	--
1990	176	344	18	60	199	30	20	39	886	559	.6	--	--
1991	162	394	10	53	200	25	17	44	906	573	.6	--	--
1992	166	397	13	54	214	38	20	35	937	594	1.2	--	--
1993	174	389	60	55	216	21	20	33	969	607	.9	--	--
1994	176	437	56	58	222	23	15	35	1,022	673	.9	--	--
1995	178	450	66	57	215	22	13	34	1,035	668	.9	--	--
1996	177	470	69	55	217	25	14	34	1,061	681	.9	--	--
1997	184	473	65	58	250	20	14	35	1,100	706	.9	--	--
1998	190	494	44	61	252	35	20	39	1,137	762	.8	--	--
1999	200	520	57	62	238	47	28	37	1,188	753	.8	--	--
2000	192	479	51	61	243	23	19	38	1,106	767	.8	--	--
2001	189	445	44	56	214	34	15	39	1,036	732	.7	--	--
2002	187	465	37	55	229	32	20	38	1,063	657	.7	--	--
2003	184	441	37	51	247	27	15	36	1,038	655	.7	--	--
2004	196	453	37	52	287	R ⁴⁰	10	34	1,110	678	.7	--	--
2005	199	428	33	51	266	38	12	34	1,061	R ⁶⁸¹	.7	--	--
2006	185	439	23	42	R ²⁶⁵	43	13	37	R ^{1,047}	R ⁶⁹¹	.6	--	--
2007	R ¹⁸⁰	R ⁴⁴⁹	30	R ⁵²	R ²⁴²	R ⁷¹	15	36	R ^{1,075}	R ⁶⁹²	.6	--	--
2008 ^P	152	419	24	48	206	54	16	37	956	670	.6	--	--
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
1985	1.03	.90	.06	.32	.82	.09	.16	.24	3.63	.52	.03	4.18	5.5
1990	1.17	1.20	.08	.36	1.12	.18	.11	.23	4.45	.58	.02	5.05	6.0
1991	1.08	1.38	.04	.32	1.15	.15	.09	.26	4.47	.59	.02	5.08	6.0
1992	1.10	1.39	.06	.33	1.20	.23	.10	.20	4.63	.61	.04	5.28	6.1
1993	1.15	1.35	.28	.34	1.22	.12	.10	.20	4.76	.62	.03	5.41	6.2
1994	1.17	1.55	.26	.35	1.26	.14	.08	.20	5.01	.69	.03	5.73	6.4
1995	1.18	1.59	.30	.35	1.21	.13	.07	.20	5.03	.69	.03	5.75	6.3
1996	1.18	1.65	.32	.34	1.21	.15	.07	.20	5.11	.70	.03	5.84	6.2
1997	1.22	1.67	.30	.35	1.40	.12	.07	.21	5.34	R ⁷²	.03	6.10	6.4
1998	1.26	1.74	.20	.37	1.40	.21	.11	.23	5.54	.79	.03	6.35	6.7
1999	1.32	1.82	.26	.37	1.33	.28	.15	.22	5.76	.77	.03	6.56	6.8
2000	1.28	1.67	.24	.37	1.35	.14	.10	.22	5.35	.79	.03	6.17	6.2
2001	1.26	1.55	.20	.34	1.19	.21	.08	.23	5.06	.76	.02	5.84	6.1
2002	1.24	1.62	.17	.33	1.27	.19	.10	.22	5.16	.67	.02	5.85	6.0
2003	1.22	1.55	.17	.31	1.37	.16	.08	.21	5.07	.67	.02	5.76	5.9
2004	1.30	1.58	.17	.31	1.59	R ²⁴	.05	.20	5.45	.70	.02	6.17	6.1
2005	1.32	1.49	.15	.31	1.47	.23	.06	.20	5.24	R ⁷⁰	.02	R ^{5,96}	5.9
2006	1.26	1.52	.11	.25	R ^{1,48}	.26	.07	.22	R ^{5,16}	.71	.02	R ^{5,89}	R ^{5,9}
2007	R ^{1,20}	1.54	.14	R ^{3,1}	R ^{1,35}	R ^{4,3}	.08	.21	R ^{5,26}	R ^{7,1}	.02	R ^{5,99}	R ^{5,9}
2008 ^P	1.01	1.44	.11	.29	1.15	.32	.08	.21	4.63	.69	.02	5.33	5.4

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 Pages: • For all data beginning in 1980, see <http://www.eia.doe.gov/emeu/aer/overview.html>.

• 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.

Energy Overview

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>.

Table 1.14 Sources; Physical Data (Columns 1, 4, 7, and 10): • 1949-1980—U.S. Geological Survey (USGS), *Federal and Indian Lands Oil and Gas Production, Royalty Income, and Related Statistics*, and *Federal and Indian Lands Coal, Phosphate, Potash, Sodium, and Other Mineral Production, Royalty Income, and*

Related Statistics (June 1981). U.S. Department of Energy (DOE), Office of Naval Petroleum and Oil Shale Reserves (NPOSR), unpublished data; and USGS, National Petroleum Reserve in Alaska, unpublished data. • 1981-1983—DOI, Minerals Management Service (MMS), *Mineral Revenues Report on Receipts from Federal and Indian Leases*, annual reports; DOE, NPOSR, unpublished data; and USGS, 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 and 2000—DOI, MMS, *Mineral Revenues Report on Receipts from Federal and American Indian Leases*, annual reports. • 2001 forward—DOI, MMS, "2001-Forward MRM Statistical Information." **Btu Data:** Data in columns 2, 5, 8, and 11 are calculated by multiplying the physical data by approximate heat contents for total U.S. production in Tables A2, A4, and A5. Data in column 13 are the sum of the other Btu columns. **Percent of U.S. Total:** Percentages are calculated by dividing production on federally administered lands by total U.S. production, then multiplying by 100. Calendar-year values for total U.S. production are from Tables 5.1, 6.1, and 7.1; fiscal-year values for total U.S. production are the sum of October-September values from the *Monthly Energy Review* (May 2009), Tables 3.1, 4.1, and 6.1.