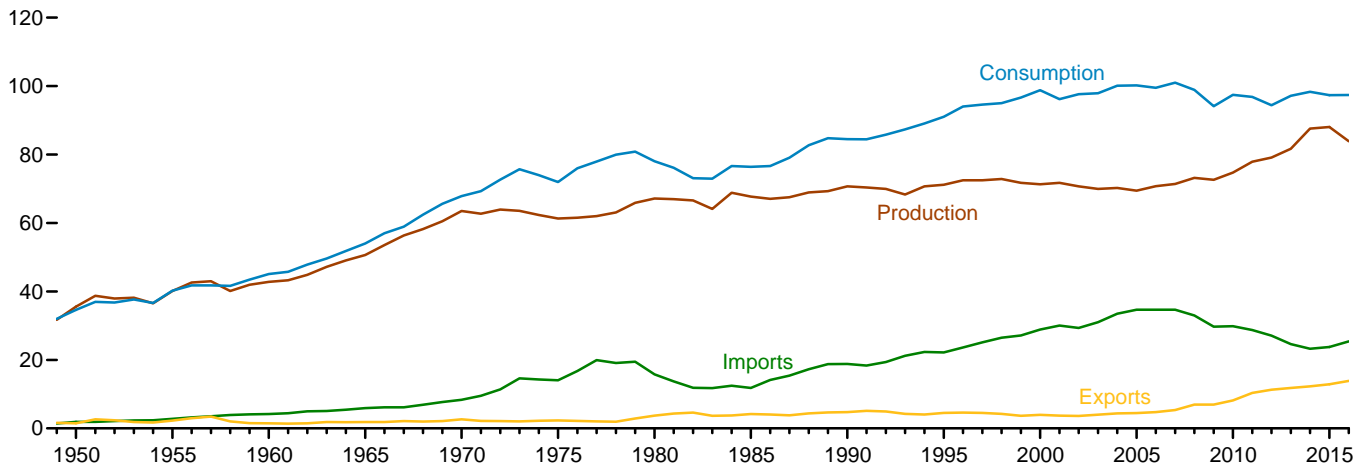


# 1. Energy Overview

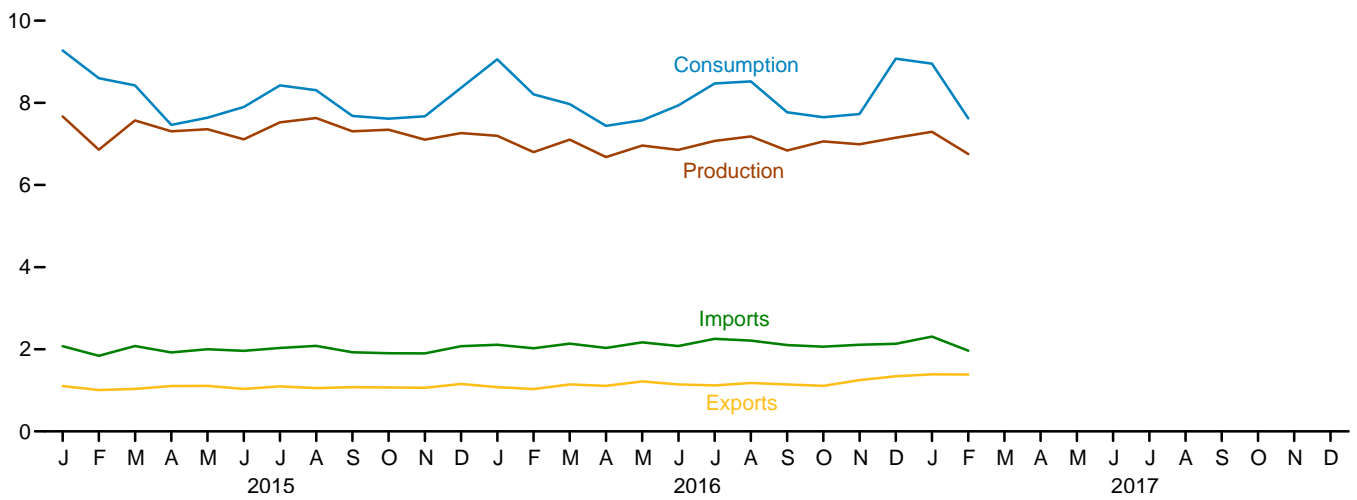
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**Figure 1.1 Primary Energy Overview**  
(Quadrillion Btu)

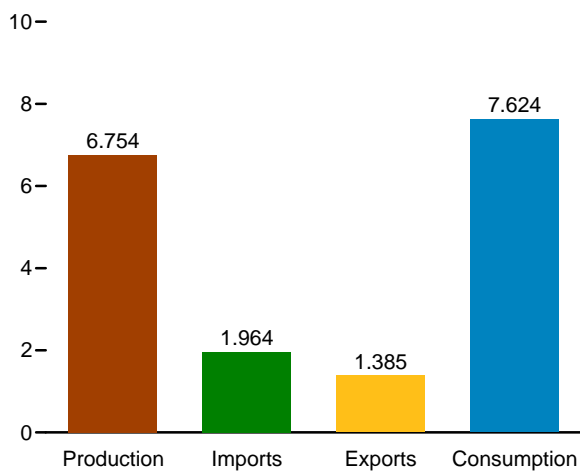
Overview, 1949–2016



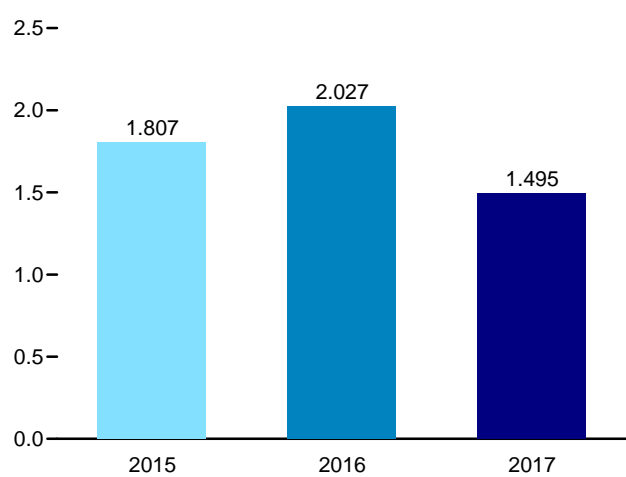
Overview, Monthly



Overview, February 2017



Net Imports, January–February



Web Page: <http://www.eia.gov/totalenergy/data/monthly/#summary>.  
Source: Table 1.1.

**Table 1.1 Primary Energy Overview**  
(Quadrillion Btu)

	Production				Trade			Stock Change and Other <sup>d</sup>	Consumption			
	Fossil Fuels <sup>a</sup>	Nuclear Electric Power	Renewable Energy <sup>b</sup>	Total	Imports	Exports	Net Imports <sup>c</sup>		Fossil Fuels <sup>e</sup>	Nuclear Electric Power	Renewable Energy <sup>b</sup>	Total <sup>f</sup>
1950 Total	32.563	0.000	2.978	35.540	1.913	1.465	0.448	-1.372	31.632	0.000	2.978	34.616
1955 Total	37.364	.000	2.784	40.148	2.790	2.286	.504	-.444	37.410	.000	2.784	40.208
1960 Total	39.869	.006	2.928	42.803	4.188	1.477	2.710	-.427	42.137	.006	2.928	45.086
1965 Total	47.235	.043	3.396	50.674	5.892	1.829	4.063	-.722	50.577	.043	3.396	54.015
1970 Total	59.186	.239	4.070	63.495	8.342	2.632	5.709	-1.367	63.522	.239	4.070	67.838
1975 Total	54.733	1.900	4.687	61.320	14.032	2.323	11.709	-1.065	65.357	1.900	4.687	71.965
1980 Total	59.008	2.739	5.428	67.175	15.796	3.695	12.101	-1.210	69.828	2.739	5.428	78.067
1985 Total	57.539	4.076	6.084	67.698	11.781	4.196	7.584	1.110	66.093	4.076	6.084	76.392
1990 Total	58.560	6.104	6.040	70.704	18.817	4.752	14.065	-.284	72.332	6.104	6.040	84.484
1995 Total	57.540	7.075	6.557	71.173	22.180	4.496	17.684	2.174	77.262	7.075	6.559	91.031
2000 Total	57.366	7.862	6.102	71.330	28.865	3.962	24.904	2.583	84.735	7.862	6.104	98.817
2001 Total	58.541	8.029	5.162	71.732	30.052	3.731	26.321	-1.883	82.906	8.029	5.160	96.170
2002 Total	56.834	8.145	5.731	70.710	29.331	3.608	25.722	1.211	83.700	8.145	5.726	97.643
2003 Total	56.033	7.960	5.942	69.935	31.007	4.013	26.994	.989	83.992	7.960	5.944	97.918
2004 Total	55.942	8.223	6.063	70.228	33.492	4.351	29.141	.721	85.754	8.223	6.075	100.090
2005 Total	55.049	8.161	6.221	69.431	34.659	4.462	30.197	.560	85.709	8.161	6.233	100.188
2006 Total	55.934	8.215	6.586	70.735	34.649	4.727	29.921	-1.171	84.570	8.215	6.637	99.485
2007 Total	56.435	8.459	6.510	71.404	34.679	5.338	29.341	.270	85.927	8.459	6.523	101.015
2008 Total	57.588	8.426	7.191	73.205	32.970	6.949	26.021	-.336	83.178	8.426	7.174	98.891
2009 Total	56.669	8.355	7.620	72.645	29.690	6.920	22.770	-1.297	78.042	8.355	7.604	94.000
2010 Total	58.216	8.434	8.077	74.728	29.866	8.176	21.690	1.027	80.891	8.434	8.030	97.445
2011 Total	60.550	8.269	9.095	77.913	28.748	10.373	18.375	.553	79.447	8.269	8.999	96.842
2012 Total	62.303	8.062	8.743	79.108	27.068	11.267	15.801	-.492	77.487	8.062	8.706	94.416
2013 Total	64.201	8.244	9.250	81.696	24.623	11.788	12.835	2.627	79.440	8.244	9.276	97.157
2014 Total	69.653	8.338	9.607	87.597	23.241	12.270	10.971	-.239	80.240	8.338	9.570	98.329
2015 January	6.084	.777	.808	7.669	2.075	1.103	.972	.632	7.685	.777	.793	9.273
February	5.443	.664	.753	6.859	1.840	1.006	.834	.908	7.175	.664	.748	8.601
March	6.080	.675	.817	7.572	2.079	1.035	1.044	-.192	6.917	.675	.813	8.424
April	5.866	.625	.814	7.305	1.922	1.105	.816	-.661	6.003	.625	.812	7.460
May	5.860	.688	.807	7.355	2.000	1.110	.890	-.606	6.122	.688	.808	7.639
June	5.623	.717	.773	7.112	1.963	1.032	.930	-.145	6.386	.717	.775	7.897
July	5.978	.747	.798	7.523	2.032	1.095	.937	-.034	6.858	.747	.799	8.425
August	6.101	.757	.772	7.630	2.082	1.054	1.028	-.349	6.753	.757	.776	8.308
September	5.890	.695	.723	7.308	1.925	1.076	.849	-.475	6.237	.695	.730	7.682
October	5.956	.633	.755	7.345	1.901	1.070	.832	-.562	6.210	.633	.755	7.614
November	5.667	.630	.807	7.104	1.899	1.060	.839	-.269	6.222	.630	.804	7.674
December	5.673	.728	.862	7.264	2.076	1.156	.920	.183	6.764	.728	.857	8.367
Total	70.221	8.337	9.487	88.045	23.794	12.902	10.892	-1.572	79.330	8.337	9.471	97.365
2016 January	5.582	.758	.856	7.197	2.111	1.075	1.036	.825	7.434	.758	.844	9.058
February	5.267	.686	.845	6.798	2.022	1.031	.991	R .418	R 6.659	.686	.844	R 8.207
March	5.495	.692	R .918	R 7.104	2.139	1.145	.994	R -.130	R 6.342	.692	R .916	R 7.968
April	5.157	.652	R .870	R 6.679	2.031	1.109	.922	R -.162	R 5.902	.652	R .870	R 7.439
May	5.382	.696	.880	6.959	2.169	1.218	.951	R -.336	R 5.976	.696	.883	R 7.574
June	5.314	.703	.836	6.853	2.078	1.144	.934	R .153	R 6.375	.703	.839	R 7.939
July	5.484	.736	.852	7.072	2.252	1.120	1.132	.266	R 6.851	.736	.858	8.471
August	5.635	.748	.798	7.181	2.211	1.179	1.033	.309	6.946	.748	.804	R 8.523
September	5.387	.684	.766	6.837	2.101	1.144	.958	-.024	6.295	.684	.772	7.771
October	5.612	.635	.813	7.060	2.063	1.109	.955	-.365	R 6.183	.635	.813	7.650
November	5.497	.682	.812	6.991	2.111	1.249	.862	R -.128	R 6.207	.682	.817	R 7.726
December	R 5.499	.749	.901	R 7.149	2.134	1.340	.794	R 1.132	R 7.403	.749	.900	9.074
Total	R 65.310	8.422	R 10.148	R 83.880	25.423	13.862	11.561	R 1.958	R 78.574	8.422	R 10.161	R 97.399
2017 January	5.618	.765	.913	7.296	2.306	1.390	.916	R .742	R 7.270	.765	R .897	R 8.955
February	5.224	.670	.861	6.754	1.964	1.385	.579	.290	6.084	.670	.852	7.624
2-Month Total	10.842	1.435	1.774	14.051	4.271	2.776	1.495	1.033	13.355	1.435	1.749	16.578
2016 2-Month Total	10.849	1.445	1.701	13.995	4.134	2.107	2.027	1.242	14.093	1.445	1.688	17.265
2015 2-Month Total	11.527	1.440	1.561	14.528	3.915	2.108	1.807	1.540	14.860	1.440	1.542	17.874

a Coal, natural gas (dry), crude oil, and natural gas plant liquids.  
b See Tables 10.1–10.2c for notes on series components and estimation; and see Note, "Renewable Energy Production and Consumption," at end of Section 10.  
c Net imports equal imports minus exports.  
d Includes petroleum stock change and adjustments; natural gas net storage withdrawals and balancing item; coal stock change, losses, and unaccounted for; fuel ethanol stock change; and biodiesel stock change and balancing item.  
e Coal, coal coke net imports, natural gas, and petroleum.  
f Also includes electricity net imports.  
R=Revised.

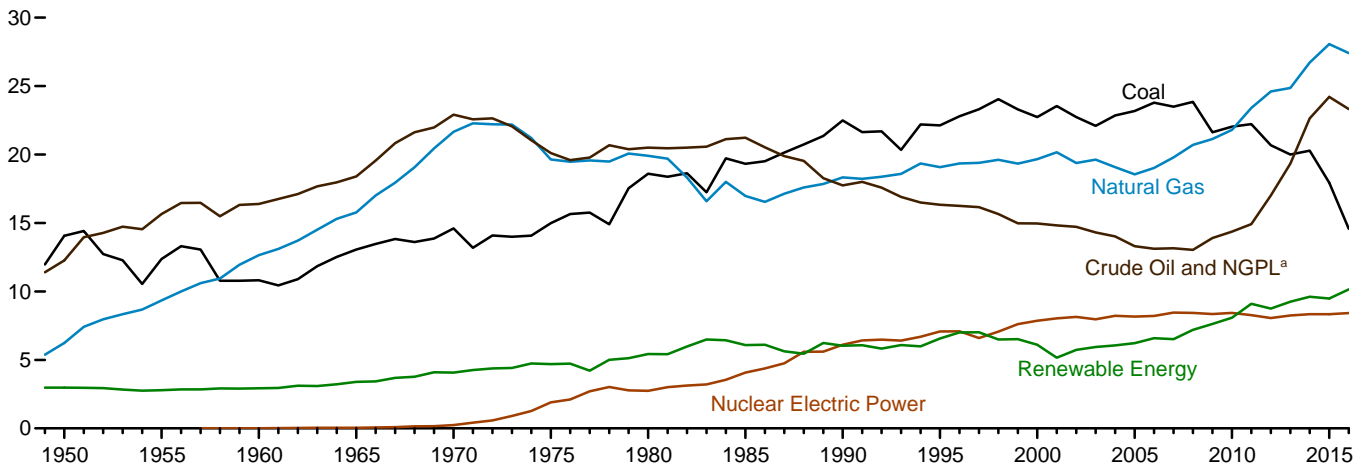
Notes: • See "Primary Energy," "Primary Energy Production," and "Primary Energy Consumption," in Glossary. • Totals may not equal sum of components due to independent rounding. • Geographic coverage is the 50 states and the District of Columbia.

Web Page: See <http://www.eia.gov/totalenergy/data/monthly/#summary> (Excel and CSV files) for all available annual data beginning in 1949 and monthly data beginning in 1973.

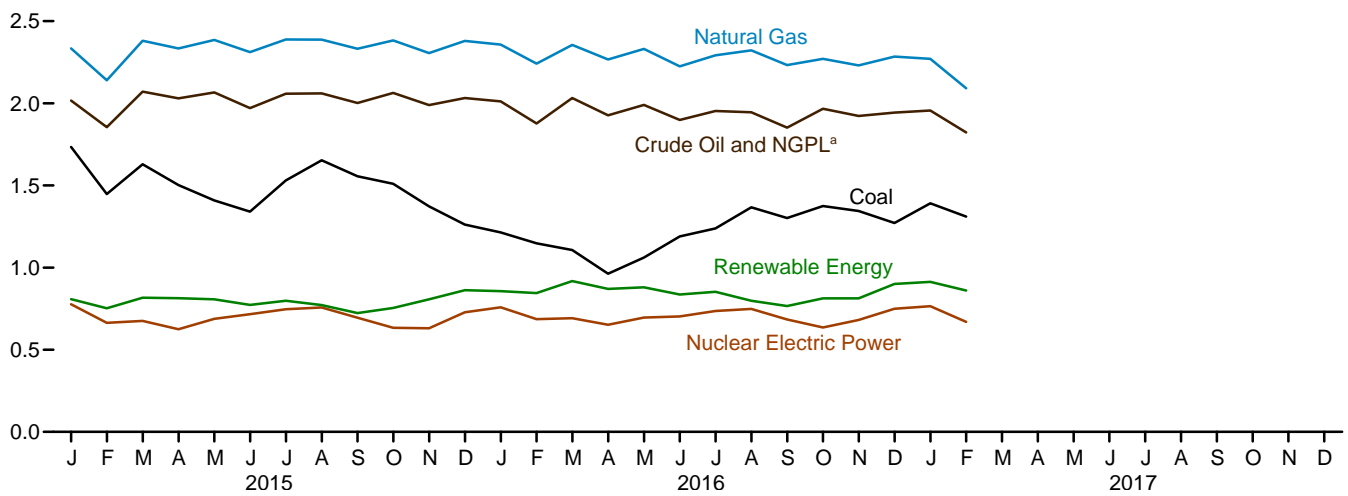
Sources: • Production: Table 1.2. • Trade: Tables 1.4a and 1.4b. • Stock Change and Other: Calculated as consumption minus production and net imports. • Consumption: Table 1.3.

**Figure 1.2 Primary Energy Production**  
(Quadrillion Btu)

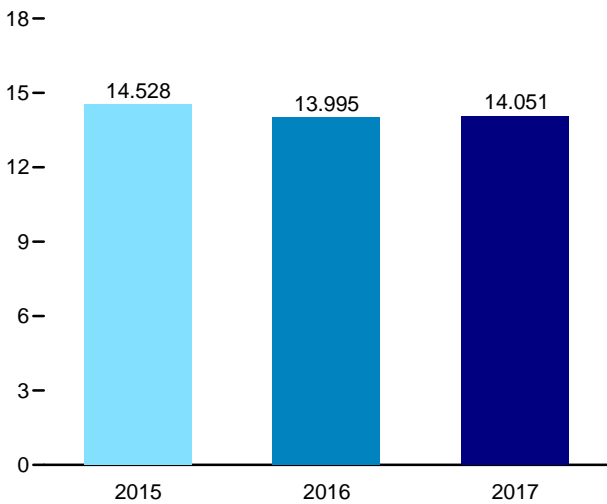
By Source, 1949–2016



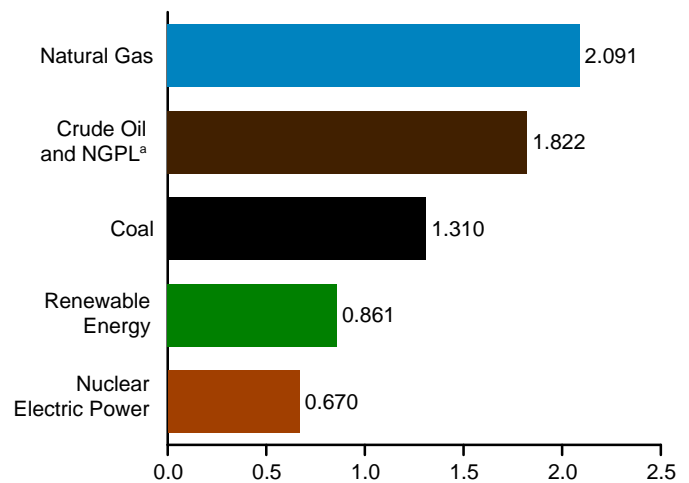
By Source, Monthly



Total, January–February



By Source, February 2017



<sup>a</sup> Natural gas plant liquids.

Web Page: <http://www.eia.gov/totalenergy/data/monthly/#summary>.

Source: Table 1.2.

**Table 1.2 Primary Energy Production by Source**  
(Quadrillion Btu)

	Fossil Fuels					Nuclear Electric Power	Renewable Energy <sup>a</sup>						Total
	Coal <sup>b</sup>	Natural Gas (Dry)	Crude Oil <sup>c</sup>	NGPL <sup>d</sup>	Total		Hydro-electric Power <sup>e</sup>	Geo-thermal	Solar	Wind	Bio-mass	Total	
1950 Total	14.060	6.233	11.447	0.823	32.563	0.000	1.415	NA	NA	NA	1.562	2.978	35.540
1955 Total	12.370	9.345	14.410	1.240	37.364	.000	1.360	NA	NA	NA	1.424	2.784	40.148
1960 Total	10.817	12.656	14.935	1.461	39.869	.006	1.608	(s)	NA	NA	1.320	2.928	42.803
1965 Total	13.055	15.775	16.521	1.883	47.235	.043	2.059	.002	NA	NA	1.335	3.396	50.674
1970 Total	14.607	21.666	20.401	2.512	59.186	.239	2.634	.006	NA	NA	1.431	4.070	63.495
1975 Total	14.989	19.640	17.729	2.374	54.733	1.900	3.155	.034	NA	NA	1.499	4.687	61.320
1980 Total	18.598	19.908	18.249	2.254	59.008	2.739	2.900	.053	NA	NA	2.475	5.428	67.175
1985 Total	19.325	16.980	18.992	2.241	57.539	4.076	2.970	.097	(s)	(s)	3.016	6.084	67.698
1990 Total	22.488	18.326	15.571	2.175	58.560	6.104	3.046	.171	.059	.029	2.735	6.040	70.704
1995 Total	22.130	19.082	13.887	2.442	57.540	7.075	3.205	.152	.068	.033	3.099	6.557	71.173
2000 Total	22.735	19.662	12.358	2.611	57.366	7.862	2.811	.164	.063	.057	3.006	6.102	71.330
2001 Total	23.547	20.166	12.282	2.547	58.541	8.029	2.242	.164	.062	.070	2.624	5.162	71.732
2002 Total	22.732	19.382	12.160	2.559	56.834	8.145	2.689	.171	.060	.105	2.705	5.731	70.710
2003 Total	22.094	19.633	11.960	2.346	56.033	7.960	2.793	.173	.058	.113	2.805	5.942	69.935
2004 Total	22.852	19.074	11.550	2.466	55.942	8.223	2.688	.178	.058	.142	2.996	6.063	70.228
2005 Total	23.185	18.556	10.974	2.334	55.049	8.161	2.703	.181	.058	.178	3.101	6.221	69.431
2006 Total	23.790	19.022	10.767	2.356	55.934	8.215	2.869	.181	.061	.264	3.212	6.586	70.735
2007 Total	23.493	19.786	10.747	2.409	56.435	8.459	2.446	.186	.065	.341	3.472	6.510	71.404
2008 Total	23.851	20.703	10.614	2.419	57.588	8.426	2.511	.192	.074	.546	3.868	7.191	73.205
2009 Total	21.624	21.139	11.332	2.574	56.669	8.355	2.669	.200	.078	.721	3.953	7.620	72.645
2010 Total	22.038	21.806	11.591	2.781	58.216	8.434	2.539	.208	.090	.923	4.316	8.077	74.728
2011 Total	22.221	23.406	11.952	2.970	60.550	8.269	3.103	.212	.111	1.168	4.501	9.095	77.913
2012 Total	20.677	24.610	13.770	3.246	62.303	8.062	2.629	.212	.157	1.340	4.406	8.743	79.108
2013 Total	20.001	24.859	15.809	3.532	64.201	8.244	2.562	.214	.225	1.601	4.647	9.250	81.696
2014 Total	20.286	26.718	18.552	4.096	69.653	8.338	2.467	.214	.337	1.728	4.861	9.607	87.597
2015 January	1.734	2.334	1.662	.355	6.084	.777	.225	.018	.021	.141	.403	.808	7.669
February	1.448	2.140	1.523	.331	5.443	.664	.208	.017	.025	.139	.364	.753	6.859
March	1.628	2.380	1.695	.376	6.080	.675	.226	.018	.035	.143	.395	.817	7.572
April	1.502	2.334	1.651	.379	5.866	.625	.209	.017	.040	.167	.381	.814	7.305
May	1.409	2.385	1.679	.387	5.860	.688	.188	.018	.043	.160	.398	.807	7.355
June	1.341	2.311	1.598	.373	5.623	.717	.190	.017	.043	.125	.397	.773	7.112
July	1.531	2.389	1.669	.389	5.978	.747	.196	.018	.045	.127	.411	.798	7.523
August	1.654	2.387	1.663	.397	6.101	.757	.178	.018	.045	.122	.408	.772	7.630
September	1.555	2.332	1.616	.386	5.890	.695	.150	.016	.039	.130	.387	.723	7.308
October	1.510	2.383	1.658	.405	5.956	.633	.155	.018	.034	.153	.395	.755	7.345
November	1.373	2.305	1.596	.393	5.667	.630	.180	.018	.030	.183	.396	.807	7.104
December	1.262	2.380	1.635	.397	5.673	.728	.216	.018	.027	.187	.414	.862	7.264
Total	17.946	28.061	19.647	4.567	70.221	8.337	2.321	.212	.426	1.777	4.751	9.487	88.045
2016 January	1.214	E 2.357	E 1.631	.381	5.582	.758	.237	.019	.027	.173	.401	.856	7.197
February	1.148	E 2.242	E 1.518	.359	5.267	.686	.225	.018	.038	.188	.376	.845	6.798
March	1.107	E 2.356	E 1.627	.405	5.495	.692	.252	.019	.045	R .205	.397	R .918	R 7.104
April	.963	E 2.267	E 1.536	.391	5.157	.652	.237	.018	.050	R .193	.372	R .870	R 6.679
May	1.061	E 2.331	E 1.576	.414	5.382	.696	.236	.019	.058	.175	.392	.880	6.959
June	1.189	E 2.225	E 1.495	.404	5.314	.703	.213	.018	.059	.152	.394	.836	6.853
July	1.238	E 2.292	E 1.542	.412	5.484	.736	.198	.019	.064	.164	.407	.852	7.072
August	1.367	E 2.322	E 1.554	.392	5.635	.748	.180	.019	.062	.126	.410	.798	7.181
September	1.302	E 2.233	E 1.471	.382	5.387	.684	.152	.019	.057	.153	.385	.766	6.837
October	1.374	E 2.271	E 1.558	.408	5.612	.635	.161	.019	.050	.190	.393	.813	7.060
November	1.344	E 2.230	E 1.521	.402	5.497	.682	.175	.019	.042	.180	.396	.812	6.991
December	1.271	RE 2.285	E 1.557	.386	R 5.499	.749	.210	.020	.037	.214	.420	.901	R 7.149
Total	14.578	RE 27.412	RE 18.586	4.735	R 65.310	8.422	2.477	.226	.587	R 2.114	4.743	R 10.148	R 83.880
2017 January	1.391	RE 2.271	RE 1.568	.388	5.618	.765	R .258	.020	.036	R .190	.410	.913	7.296
February	1.310	E 2.091	E 1.447	.375	5.224	.670	.229	.018	.041	.202	.370	.861	6.754
2-Month Total	2.702	E 4.362	E 3.015	.763	10.842	1.435	.488	.037	.077	.392	.780	1.774	14.051
2016 2-Month Total	2.361	4.599	3.149	.740	10.849	1.445	.462	.037	.065	.361	.777	1.701	13.995
2015 2-Month Total	3.182	4.474	3.186	.686	11.527	1.440	.433	.035	.046	.280	.767	1.561	14.528

<sup>a</sup> Most data are estimates. See Tables 10.1–10.2c for notes on series components and estimation; and see Note, "Renewable Energy Production and Consumption," at end of Section 10.

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

<sup>c</sup> Includes lease condensate.

<sup>d</sup> Natural gas plant liquids.

<sup>e</sup> Conventional hydroelectric power.

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

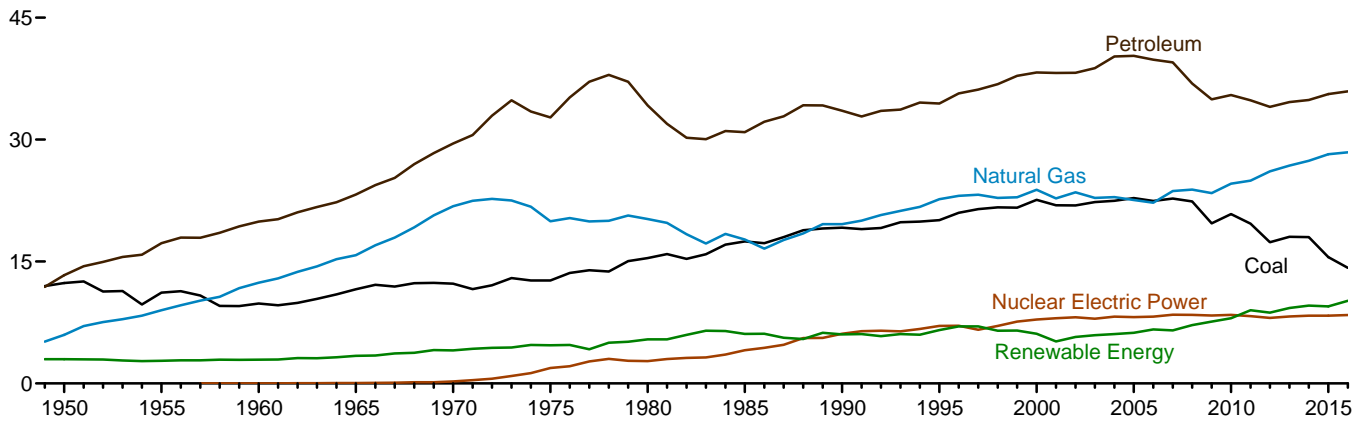
Notes: • See "Primary Energy Production" in Glossary. • Totals may not equal sum of components due to independent rounding. • Geographic coverage is the 50 states and the District of Columbia.

Web Page: See <http://www.eia.gov/totalenergy/data/monthly/#summary> (Excel and CSV files) for all available annual data beginning in 1949 and monthly data beginning in 1973.

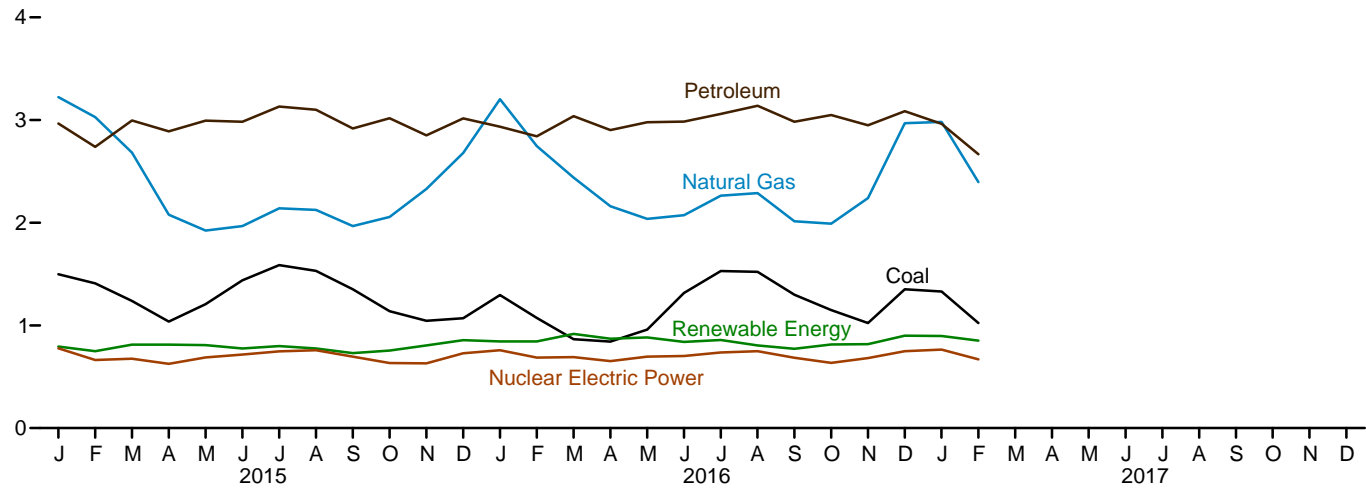
Sources: See end of section.

**Figure 1.3 Primary Energy Consumption**  
(Quadrillion Btu)

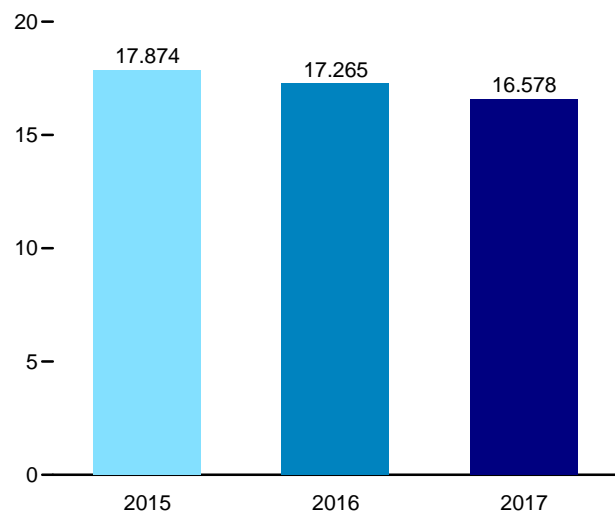
By Source,<sup>a</sup> 1949–2016



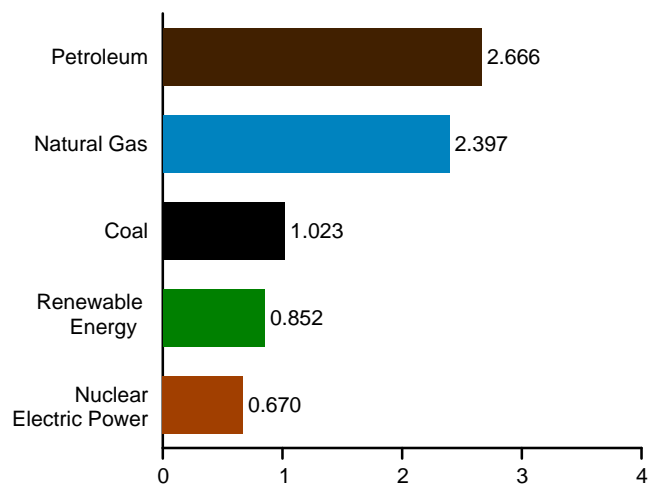
By Source,<sup>a</sup> Monthly



Total, January–February



By Source,<sup>a</sup> February 2017



<sup>a</sup> Small quantities of net imports of coal coke and electricity are not shown.  
Web Page: <http://www.eia.gov/totalenergy/data/monthly/#summary>.  
Source: Table 1.3.

**Table 1.3 Primary Energy Consumption by Source**  
(Quadrillion Btu)

	Fossil Fuels				Nuclear Electric Power	Renewable Energy <sup>a</sup>						Total <sup>f</sup>
	Coal	Natural Gas <sup>b</sup>	Petroleum <sup>c</sup>	Total <sup>d</sup>		Hydroelectric Power <sup>e</sup>	Geothermal	Solar	Wind	Biomass	Total	
1950 Total	12.347	5.968	13.315	31.632	0.000	1.415	NA	NA	NA	1.562	2.978	34.616
1955 Total	11.167	8.998	17.255	37.410	.000	1.360	NA	NA	NA	1.424	2.784	40.208
1960 Total	9.838	12.385	19.919	42.137	.006	1.608	(s)	NA	NA	1.320	2.928	45.086
1965 Total	11.581	15.769	23.246	50.577	.043	2.059	.002	NA	NA	1.335	3.396	54.015
1970 Total	12.265	21.795	29.521	63.522	.239	2.634	.006	NA	NA	1.431	4.070	67.838
1975 Total	12.663	19.948	32.732	65.357	1.900	3.155	.034	NA	NA	1.499	4.687	71.965
1980 Total	15.423	20.235	34.205	69.828	2.739	2.900	.053	NA	NA	2.475	5.428	78.067
1985 Total	17.478	17.703	30.925	66.093	4.076	2.970	.097	(s)	(s)	3.016	6.084	76.392
1990 Total	19.173	19.603	33.552	72.332	6.104	3.046	.171	.059	.029	2.735	6.040	84.484
1995 Total	20.089	22.671	34.441	77.262	7.075	3.205	.152	.068	.033	3.101	6.559	91.031
2000 Total	22.580	23.824	38.266	84.735	7.862	2.811	.164	.063	.057	3.008	6.104	98.817
2001 Total	21.914	22.773	38.190	82.906	8.029	2.242	.164	.062	.070	2.622	5.160	96.170
2002 Total	21.904	23.510	38.226	83.700	8.145	2.689	.171	.060	.105	2.701	5.726	97.643
2003 Total	22.321	22.831	38.790	83.992	7.960	2.793	.173	.058	.113	2.806	5.944	97.918
2004 Total	22.466	22.923	40.227	85.754	8.223	2.688	.178	.058	.142	3.008	6.075	100.090
2005 Total	22.797	22.565	40.303	85.709	8.161	2.703	.181	.058	.178	3.114	6.233	100.188
2006 Total	22.447	22.239	39.824	84.570	8.215	2.869	.181	.061	.264	3.262	6.637	99.485
2007 Total	22.749	23.663	39.489	85.927	8.459	2.446	.186	.065	.341	3.485	6.523	101.015
2008 Total	22.387	23.843	36.907	83.178	8.426	2.511	.192	.074	.546	3.851	7.174	98.891
2009 Total	19.691	23.416	34.959	78.042	8.355	2.669	.200	.078	.721	3.936	7.604	94.118
2010 Total	20.834	24.575	35.489	80.891	8.434	2.539	.208	.090	.923	4.270	8.030	97.445
2011 Total	19.658	24.955	34.824	79.447	8.269	3.103	.212	.111	1.168	4.405	8.999	96.842
2012 Total	17.378	26.089	34.016	77.487	8.062	2.629	.212	.157	1.340	4.369	8.706	94.416
2013 Total	18.039	26.805	34.613	79.440	8.244	2.562	.214	.225	1.601	4.673	9.276	97.157
2014 Total	17.998	27.383	34.881	80.240	8.338	2.467	.214	.337	1.728	4.825	9.570	98.329
2015 January	1.498	3.223	2.966	7.685	.777	.225	.018	.021	.141	.388	.793	9.273
February	1.409	3.028	2.739	7.175	.664	.208	.017	.025	.139	.360	.748	8.601
March	1.238	2.682	2.996	6.917	.675	.226	.018	.035	.143	.391	.813	8.424
April	1.037	2.078	2.890	6.003	.625	.209	.017	.040	.167	.380	.812	7.460
May	1.206	1.923	2.995	6.122	.688	.188	.018	.043	.160	.400	.808	7.639
June	1.439	1.967	2.983	6.386	.717	.190	.017	.043	.125	.399	.775	7.897
July	1.587	2.140	3.132	6.858	.747	.196	.018	.045	.127	.413	.799	8.425
August	1.531	2.124	3.099	6.753	.757	.178	.018	.045	.122	.413	.776	8.308
September	1.351	1.968	2.917	6.237	.695	.150	.016	.039	.130	.394	.730	7.682
October	1.138	2.056	3.017	6.210	.633	.155	.018	.034	.153	.396	.755	7.614
November	1.045	2.328	2.851	6.222	.630	.180	.018	.030	.183	.393	.804	7.674
December	1.070	2.679	3.016	6.764	.728	.216	.018	.027	.187	.408	.857	8.367
Total	15.549	28.196	35.603	79.330	8.337	2.321	.212	.426	1.777	4.734	9.471	97.365
2016 January	1.296	3.204	2.935	7.434	.758	.237	.019	.027	.173	.388	.844	9.058
February	1.073	2.746	2.841	6.659	.686	.225	.018	.038	.188	.375	.844	8.207
March	1.866	2.439	3.037	6.342	.692	.252	.019	.045	.205	.395	.916	7.968
April	.842	2.160	2.902	5.902	.652	.237	.018	.050	.193	.372	.870	7.439
May	.960	2.038	2.979	5.976	.696	.236	.019	.058	.175	.395	.883	7.574
June	1.316	2.074	2.985	6.375	.703	.213	.018	.059	.152	.397	.839	7.939
July	1.530	2.264	3.059	6.851	.736	.198	.019	.064	.164	.414	.858	8.471
August	1.521	2.289	3.139	6.946	.748	.180	.019	.062	.126	.417	.804	8.523
September	1.298	2.015	2.984	6.295	.684	.152	.019	.057	.153	.391	.772	7.771
October	1.148	1.990	3.048	6.183	.635	.161	.019	.050	.190	.394	.813	7.650
November	1.022	2.241	2.948	6.207	.682	.175	.019	.042	.180	.400	.817	7.726
December	1.351	2.968	3.085	7.403	.749	.210	.020	.037	.214	.419	.900	9.074
Total	14.225	28.426	35.942	78.574	8.422	2.477	.226	.587	2.114	4.756	10.161	97.399
2017 January	1.329	2.981	2.963	7.270	.765	.258	.020	.036	.190	.393	.897	8.955
February	1.023	2.397	2.666	6.084	.670	.229	.018	.041	.202	.362	.852	7.624
2-Month Total	2.352	5.377	5.630	13.355	1.435	.488	.037	.077	.392	.755	1.749	16.578
2016 2-Month Total	2.369	5.949	5.776	14.093	1.445	.462	.037	.065	.361	.763	1.688	17.265
2015 2-Month Total	2.907	6.251	5.705	14.860	1.440	.433	.035	.046	.280	.748	1.542	17.874

<sup>a</sup> Most data are estimates. See Tables 10.1–10.2c for notes on series components and estimation; and see Note, "Renewable Energy Production and Consumption," at end of Section 10.

<sup>b</sup> Natural gas only; excludes supplemental gaseous fuels. See Note 3, "Supplemental Gaseous Fuels," at end of Section 4.

<sup>c</sup> Petroleum products supplied, including natural gas plant liquids and crude oil burned as fuel. Does not include biofuels that have been blended with petroleum—biofuels are included in "Biomass."

<sup>d</sup> Includes coal coke net imports. See Tables 1.4a and 1.4b.

<sup>e</sup> Conventional hydroelectric power.

<sup>f</sup> Includes coal coke net imports and electricity net imports, which are not

separately displayed. See Tables 1.4a and 1.4b.

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

Notes: • See "Primary Energy Consumption" in Glossary.

• See Table D1 for estimated energy consumption for 1635–1945. • Totals may not equal sum of components due to independent rounding.

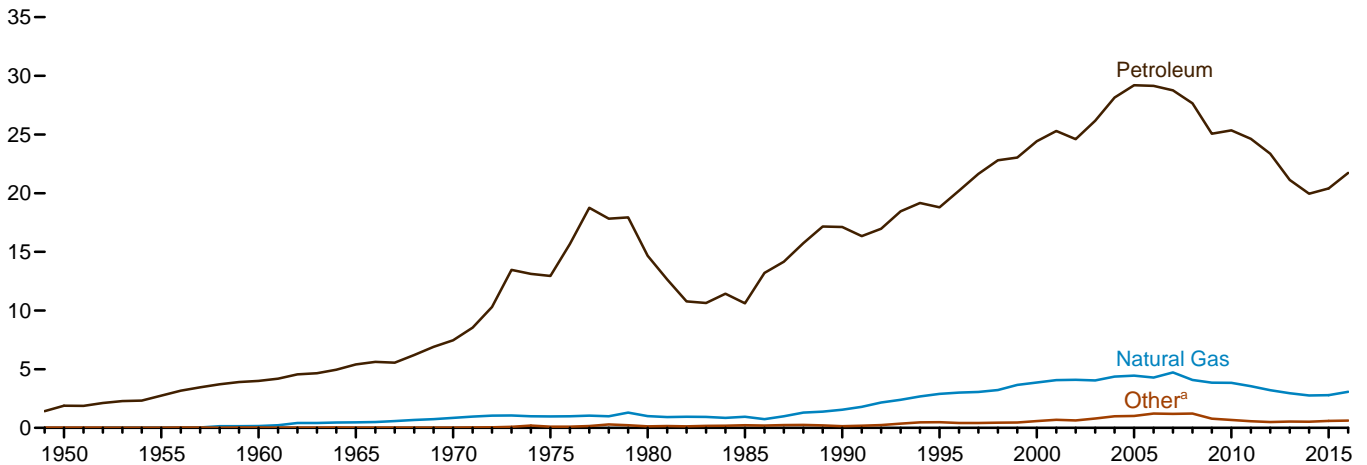
• Geographic coverage is the 50 states and the District of Columbia.

Web Page: See <http://www.eia.gov/totalenergy/data/monthly/#summary> (Excel and CSV files) for all available annual data beginning in 1949 and monthly data beginning in 1973.

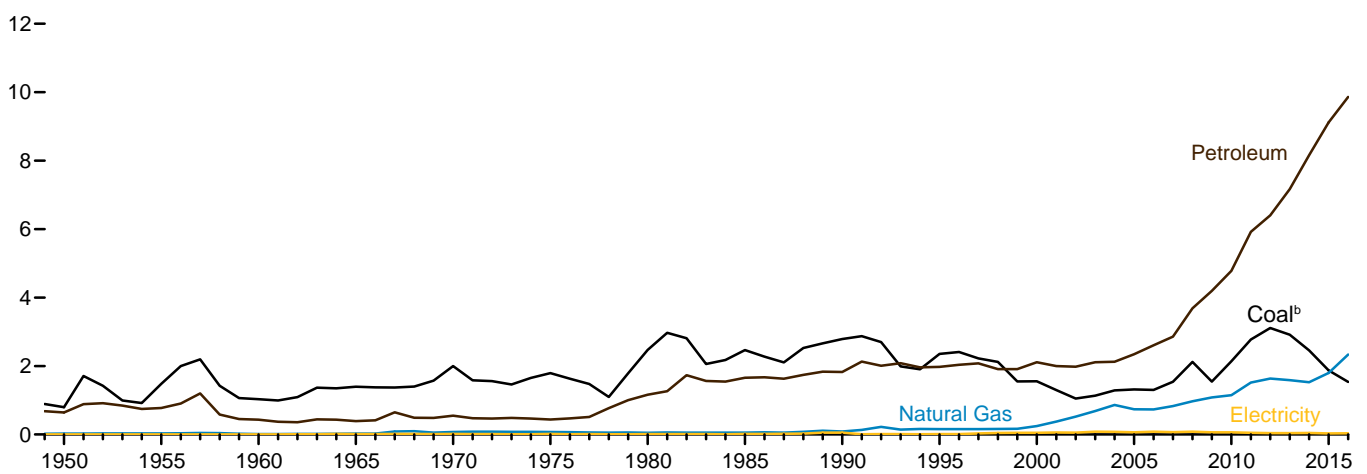
Sources: See end of section.

**Figure 1.4a Primary Energy Imports and Exports**  
(Quadrillion Btu)

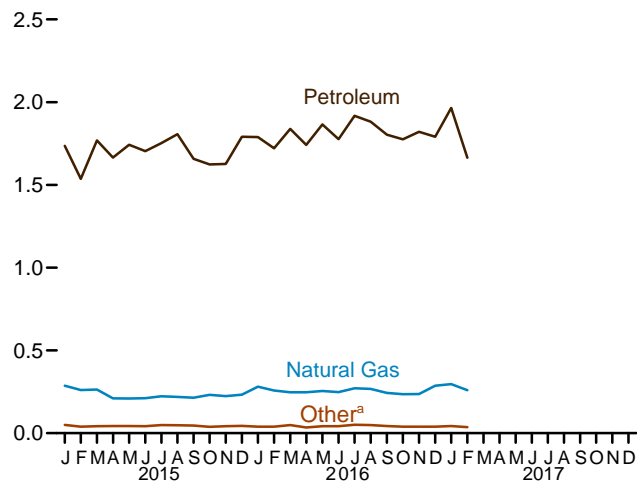
Imports by Source, 1949–2016



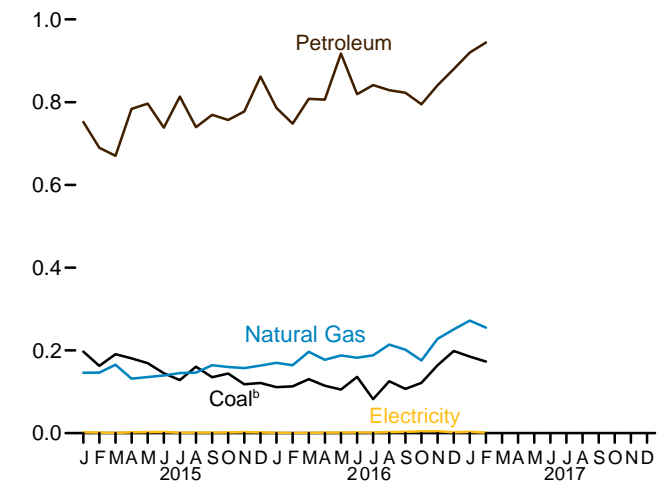
Exports by Source, 1949–2016



Imports by Source, Monthly



Exports by Major Source, Monthly



<sup>a</sup> Coal, coal coke, biofuels, and electricity.

<sup>b</sup> Includes coal coke.

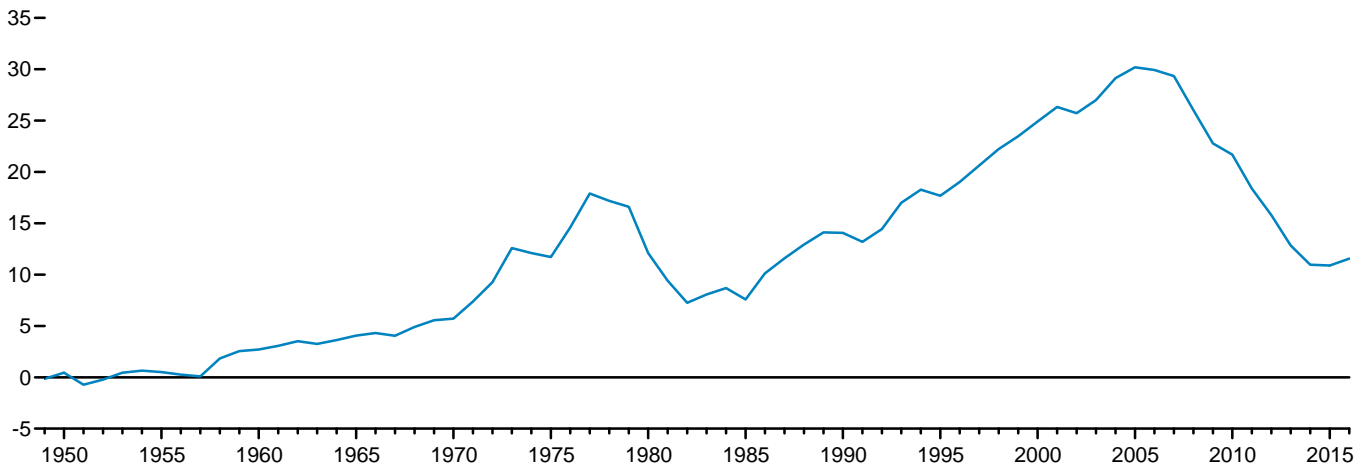
Web Page: <http://www.eia.gov/totalenergy/data/monthly/#summary>.

Sources: Tables 1.4a and 1.4b.

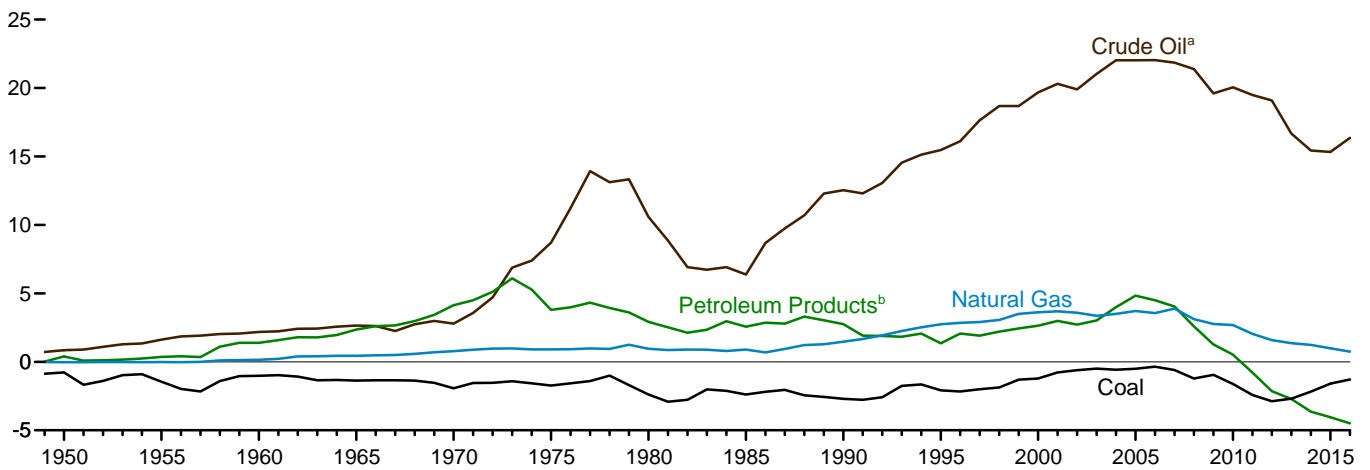


**Figure 1.4b Primary Energy Net Imports**  
(Quadrillion Btu)

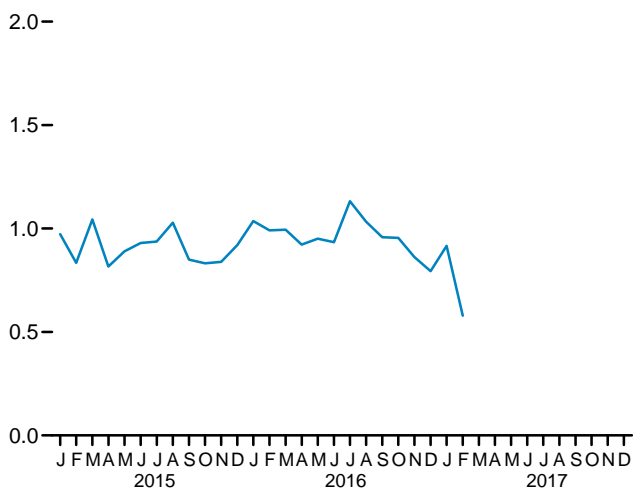
Total, 1949–2016



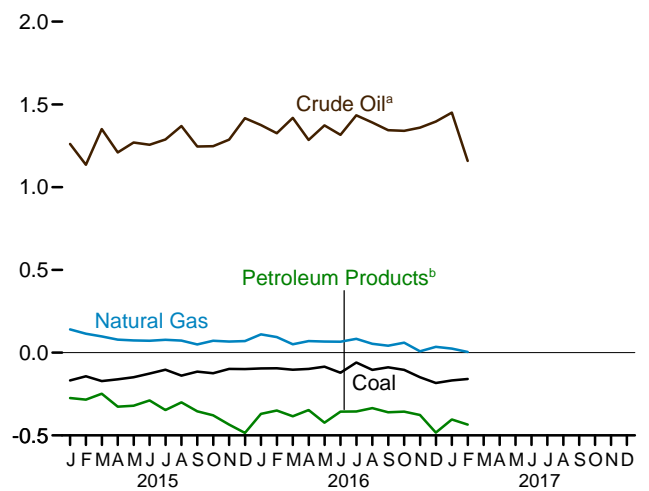
By Major Source, 1949–2016



Total, Monthly



By Major Source, Monthly



<sup>a</sup> Crude oil and lease condensate. Includes imports into the Strategic Petroleum Reserve, which began in 1977.

<sup>b</sup> Petroleum products, unfinished oils, pentanes plus, and gasoline

blending components. Does not include biofuels.

Web Page: <http://www.eia.gov/totalenergy/data/monthly/#summary>.

Sources: Tables 1.4a and 1.4b.

**Table 1.4a Primary Energy Imports by Source**  
(Quadrillion Btu)

	Imports								
	Coal	Coal Coke	Natural Gas	Petroleum			Biofuels <sup>c</sup>	Electricity	Total
				Crude Oil <sup>a</sup>	Petroleum Products <sup>b</sup>	Total			
<b>1950 Total</b> .....	<b>0.009</b>	<b>0.011</b>	<b>0.000</b>	<b>1.056</b>	<b>0.830</b>	<b>1.886</b>	NA	<b>0.007</b>	<b>1.913</b>
<b>1955 Total</b> .....	<b>.008</b>	<b>.003</b>	<b>.011</b>	<b>1.691</b>	<b>1.061</b>	<b>2.752</b>	NA	<b>.016</b>	<b>2.790</b>
<b>1960 Total</b> .....	<b>.007</b>	<b>.003</b>	<b>.161</b>	<b>2.196</b>	<b>1.802</b>	<b>3.999</b>	NA	<b>.018</b>	<b>4.188</b>
<b>1965 Total</b> .....	<b>.005</b>	<b>.002</b>	<b>.471</b>	<b>2.654</b>	<b>2.748</b>	<b>5.402</b>	NA	<b>.012</b>	<b>5.892</b>
<b>1970 Total</b> .....	<b>.001</b>	<b>.004</b>	<b>.846</b>	<b>2.814</b>	<b>4.656</b>	<b>7.470</b>	NA	<b>.021</b>	<b>8.342</b>
<b>1975 Total</b> .....	<b>.024</b>	<b>.045</b>	<b>.978</b>	<b>8.721</b>	<b>4.227</b>	<b>12.948</b>	NA	<b>.038</b>	<b>14.032</b>
<b>1980 Total</b> .....	<b>.030</b>	<b>.016</b>	<b>1.006</b>	<b>11.195</b>	<b>3.463</b>	<b>14.658</b>	NA	<b>.085</b>	<b>15.796</b>
<b>1985 Total</b> .....	<b>.049</b>	<b>.014</b>	<b>.952</b>	<b>6.814</b>	<b>3.796</b>	<b>10.609</b>	NA	<b>.157</b>	<b>11.781</b>
<b>1990 Total</b> .....	<b>.067</b>	<b>.019</b>	<b>1.551</b>	<b>12.766</b>	<b>4.351</b>	<b>17.117</b>	NA	<b>.063</b>	<b>18.817</b>
<b>1995 Total</b> .....	<b>.237</b>	<b>.095</b>	<b>2.901</b>	<b>15.669</b>	<b>3.131</b>	<b>18.800</b>	.001	<b>.146</b>	<b>22.180</b>
<b>2000 Total</b> .....	<b>.313</b>	<b>.094</b>	<b>3.869</b>	<b>19.783</b>	<b>4.641</b>	<b>24.424</b>	(s)	<b>.166</b>	<b>28.865</b>
<b>2001 Total</b> .....	<b>.495</b>	<b>.063</b>	<b>4.068</b>	<b>20.348</b>	<b>4.946</b>	<b>25.294</b>	.002	<b>.131</b>	<b>30.052</b>
<b>2002 Total</b> .....	<b>.422</b>	<b>.080</b>	<b>4.104</b>	<b>19.920</b>	<b>4.677</b>	<b>24.597</b>	.002	<b>.125</b>	<b>29.331</b>
<b>2003 Total</b> .....	<b>.626</b>	<b>.068</b>	<b>4.042</b>	<b>21.060</b>	<b>5.105</b>	<b>26.165</b>	.002	<b>.104</b>	<b>31.007</b>
<b>2004 Total</b> .....	<b>.682</b>	<b>.170</b>	<b>4.365</b>	<b>22.082</b>	<b>6.063</b>	<b>28.145</b>	.013	<b>.117</b>	<b>33.492</b>
<b>2005 Total</b> .....	<b>.762</b>	<b>.088</b>	<b>4.450</b>	<b>22.091</b>	<b>7.108</b>	<b>29.198</b>	.012	<b>.150</b>	<b>34.659</b>
<b>2006 Total</b> .....	<b>.906</b>	<b>.101</b>	<b>4.291</b>	<b>22.085</b>	<b>7.054</b>	<b>29.139</b>	.066	<b>.146</b>	<b>34.649</b>
<b>2007 Total</b> .....	<b>.909</b>	<b>.061</b>	<b>4.723</b>	<b>21.914</b>	<b>6.842</b>	<b>28.756</b>	.055	<b>.175</b>	<b>34.679</b>
<b>2008 Total</b> .....	<b>.855</b>	<b>.089</b>	<b>4.084</b>	<b>21.448</b>	<b>6.214</b>	<b>27.662</b>	.085	<b>.195</b>	<b>32.970</b>
<b>2009 Total</b> .....	<b>.566</b>	<b>.009</b>	<b>3.845</b>	<b>19.699</b>	<b>5.367</b>	<b>25.066</b>	.027	<b>.178</b>	<b>29.690</b>
<b>2010 Total</b> .....	<b>.484</b>	<b>.030</b>	<b>3.834</b>	<b>20.140</b>	<b>5.219</b>	<b>25.359</b>	.004	<b>.154</b>	<b>29.866</b>
<b>2011 Total</b> .....	<b>.327</b>	<b>.035</b>	<b>3.555</b>	<b>19.595</b>	<b>5.038</b>	<b>24.633</b>	.019	<b>.178</b>	<b>28.748</b>
<b>2012 Total</b> .....	<b>.212</b>	<b>.028</b>	<b>3.216</b>	<b>19.239</b>	<b>4.122</b>	<b>23.361</b>	.049	<b>.202</b>	<b>27.068</b>
<b>2013 Total</b> .....	<b>.199</b>	<b>.003</b>	<b>2.955</b>	<b>16.957</b>	<b>4.169</b>	<b>21.126</b>	.102	<b>.236</b>	<b>24.623</b>
<b>2014 Total</b> .....	<b>.252</b>	<b>.002</b>	<b>2.763</b>	<b>16.178</b>	<b>3.773</b>	<b>19.951</b>	.046	<b>.227</b>	<b>23.241</b>
<b>2015 January</b> .....	<b>.029</b>	(s)	<b>.286</b>	<b>1.348</b>	<b>.388</b>	<b>1.736</b>	<b>.003</b>	<b>.021</b>	<b>2.075</b>
February .....	<b>.020</b>	(s)	<b>.261</b>	<b>1.206</b>	<b>.331</b>	<b>1.536</b>	<b>.004</b>	<b>.019</b>	<b>1.840</b>
March .....	<b>.019</b>	(s)	<b>.264</b>	<b>1.427</b>	<b>.342</b>	<b>1.769</b>	<b>.004</b>	<b>.023</b>	<b>2.079</b>
April .....	<b>.020</b>	(s)	<b>.210</b>	<b>1.311</b>	<b>.354</b>	<b>1.665</b>	<b>.004</b>	<b>.022</b>	<b>1.922</b>
May .....	<b>.021</b>	(s)	<b>.209</b>	<b>1.362</b>	<b>.380</b>	<b>1.743</b>	<b>.005</b>	<b>.023</b>	<b>2.000</b>
June .....	<b>.019</b>	(s)	<b>.211</b>	<b>1.332</b>	<b>.372</b>	<b>1.704</b>	<b>.006</b>	<b>.023</b>	<b>1.963</b>
July .....	<b>.025</b>	(s)	<b>.222</b>	<b>1.384</b>	<b>.368</b>	<b>1.752</b>	<b>.009</b>	<b>.024</b>	<b>2.032</b>
August .....	<b>.022</b>	(s)	<b>.219</b>	<b>1.451</b>	<b>.356</b>	<b>1.807</b>	<b>.010</b>	<b>.024</b>	<b>2.082</b>
September .....	<b>.020</b>	.002	<b>.214</b>	<b>1.315</b>	<b>.343</b>	<b>1.658</b>	<b>.009</b>	<b>.023</b>	<b>1.925</b>
October .....	<b>.019</b>	(s)	<b>.232</b>	<b>1.335</b>	<b>.288</b>	<b>1.623</b>	<b>.009</b>	<b>.018</b>	<b>1.901</b>
November .....	<b>.020</b>	(s)	<b>.224</b>	<b>1.341</b>	<b>.286</b>	<b>1.627</b>	<b>.008</b>	<b>.020</b>	<b>1.899</b>
December .....	<b>.022</b>	.001	<b>.233</b>	<b>1.486</b>	<b>.305</b>	<b>1.790</b>	<b>.009</b>	<b>.020</b>	<b>2.076</b>
<b>Total</b> .....	<b>.256</b>	<b>.003</b>	<b>2.786</b>	<b>16.299</b>	<b>4.111</b>	<b>20.410</b>	<b>.079</b>	<b>.259</b>	<b>23.794</b>
<b>2016 January</b> .....	<b>.016</b>	(s)	<b>.280</b>	<b>1.440</b>	<b>.349</b>	<b>1.789</b>	<b>.003</b>	<b>.024</b>	<b>2.111</b>
February .....	<b>.019</b>	(s)	<b>.258</b>	<b>1.388</b>	<b>.333</b>	<b>1.722</b>	<b>.003</b>	<b>.021</b>	<b>2.022</b>
March .....	<b>.027</b>	(s)	<b>.247</b>	<b>1.509</b>	<b>.330</b>	<b>1.839</b>	<b>.005</b>	<b>.022</b>	<b>2.139</b>
April .....	<b>.017</b>	(s)	<b>.247</b>	<b>1.387</b>	<b>.355</b>	<b>1.741</b>	<b>.007</b>	<b>.018</b>	<b>2.031</b>
May .....	<b>.021</b>	.001	<b>.255</b>	<b>1.491</b>	<b>.374</b>	<b>1.865</b>	<b>.008</b>	<b>.021</b>	<b>2.169</b>
June .....	<b>.015</b>	.002	<b>.248</b>	<b>1.382</b>	<b>.395</b>	<b>1.776</b>	<b>.013</b>	<b>.025</b>	<b>2.078</b>
July .....	<b>.022</b>	(s)	<b>.272</b>	<b>1.518</b>	<b>.400</b>	<b>1.918</b>	<b>.012</b>	<b>.028</b>	<b>2.252</b>
August .....	<b>.021</b>	(s)	<b>.267</b>	<b>1.508</b>	<b>.375</b>	<b>1.882</b>	<b>.014</b>	<b>.027</b>	<b>2.211</b>
September .....	<b>.018</b>	.002	<b>.243</b>	<b>1.463</b>	<b>.341</b>	<b>1.804</b>	<b>.012</b>	<b>.023</b>	<b>2.101</b>
October .....	<b>.017</b>	.001	<b>.236</b>	<b>1.427</b>	<b>.348</b>	<b>1.775</b>	<b>.013</b>	<b>.021</b>	<b>2.063</b>
November .....	<b>.016</b>	(s)	<b>.236</b>	<b>1.462</b>	<b>.359</b>	<b>1.821</b>	<b>.015</b>	<b>.023</b>	<b>2.111</b>
December .....	<b>.015</b>	(s)	<b>.286</b>	<b>1.475</b>	<b>.316</b>	<b>1.791</b>	<b>.017</b>	<b>.024</b>	<b>2.134</b>
<b>Total</b> .....	<b>.223</b>	<b>.006</b>	<b>3.076</b>	<b>17.449</b>	<b>4.274</b>	<b>21.723</b>	<b>.121</b>	<b>.275</b>	<b>25.423</b>
<b>2017 January</b> .....	<b>.017</b>	(s)	<sup>R</sup> <b>.296</b>	<b>1.583</b>	<b>.382</b>	<b>1.965</b>	<b>.004</b>	<b>.025</b>	<b>2.306</b>
February .....	<b>.014</b>	(s)	<b>.259</b>	<b>1.337</b>	<b>.328</b>	<b>1.665</b>	<b>.006</b>	<b>.021</b>	<b>1.964</b>
<b>2-Month Total</b> .....	<b>.031</b>	(s)	<b>.555</b>	<b>2.920</b>	<b>.710</b>	<b>3.629</b>	<b>.010</b>	<b>.046</b>	<b>4.271</b>
<b>2016 2-Month Total</b> .....	<b>.034</b>	(s)	<b>.539</b>	<b>2.828</b>	<b>.682</b>	<b>3.510</b>	<b>.006</b>	<b>.044</b>	<b>4.134</b>
<b>2015 2-Month Total</b> .....	<b>.049</b>	(s)	<b>.547</b>	<b>2.554</b>	<b>.719</b>	<b>3.273</b>	<b>.007</b>	<b>.040</b>	<b>3.915</b>

<sup>a</sup> Crude oil and lease condensate. Includes imports into the Strategic Petroleum Reserve, which began in 1977.

<sup>b</sup> Petroleum products, unfinished oils, pentanes plus, and gasoline blending components. Does not include biofuels.

<sup>c</sup> Fuel ethanol (minus denaturant) and biodiesel.

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

Notes: • See "Primary Energy" in Glossary. • Totals may not equal sum of

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

Web Page: See <http://www.eia.gov/totalenergy/data/monthly/#summary> (Excel and CSV files) for all available annual data beginning in 1949 and monthly data beginning in 1973.

Sources: See end of section.

**Table 1.4b Primary Energy Exports by Source and Total Net Imports**  
(Quadrillion Btu)

	Exports									Net Imports <sup>a</sup>
	Coal	Coal Coke	Natural Gas	Petroleum			Biofuels <sup>d</sup>	Electricity	Total	
				Crude Oil <sup>b</sup>	Petroleum Products <sup>c</sup>	Total				
<b>1950 Total</b> .....	<b>0.786</b>	<b>0.010</b>	<b>0.027</b>	<b>0.202</b>	<b>0.440</b>	<b>0.642</b>	NA	<b>0.001</b>	<b>1.465</b>	<b>0.448</b>
1955 Total .....	1.465	.013	.032	.067	.707	.774	NA	.002	2.286	.504
1960 Total .....	1.023	.009	.012	.018	.413	.431	NA	.003	1.477	2.710
1965 Total .....	1.376	.021	.027	.006	.386	.392	NA	.013	1.829	4.063
1970 Total .....	1.936	.061	.072	.029	.520	.549	NA	.014	2.632	5.709
1975 Total .....	1.761	.032	.074	.012	.427	.439	NA	.017	2.323	11.709
1980 Total .....	2.421	.051	.049	.609	.551	1.160	NA	.014	3.695	12.101
1985 Total .....	2.438	.028	.056	.432	1.225	1.657	NA	.017	4.196	7.584
1990 Total .....	2.772	.014	.087	.230	1.594	1.824	NA	.055	4.752	14.065
1995 Total .....	2.318	.034	.156	.200	1.776	1.976	NA	.012	4.496	17.684
2000 Total .....	1.528	.028	.245	.106	2.003	2.110	NA	.051	3.962	24.904
2001 Total .....	1.265	.033	.377	.043	1.956	1.999	(s)	.056	3.731	26.321
2002 Total .....	1.032	.020	.520	.019	1.963	1.982	(s)	.054	3.608	25.722
2003 Total .....	1.117	.018	.686	.026	2.083	2.110	.001	.082	4.013	26.994
2004 Total .....	1.253	.033	.862	.057	2.068	2.125	.001	.078	4.351	29.141
2005 Total .....	1.273	.043	.735	.067	2.276	2.344	.001	.065	4.462	30.197
2006 Total .....	1.264	.040	.730	.052	2.554	2.606	.005	.083	4.727	29.921
2007 Total .....	1.507	.036	.830	.058	2.803	2.861	.036	.069	5.338	29.341
2008 Total .....	2.071	.049	.972	.061	3.626	3.686	.089	.083	6.949	26.021
2009 Total .....	1.515	.032	1.082	.093	4.101	4.194	.035	.062	6.920	22.770
2010 Total .....	2.101	.036	1.147	.088	4.691	4.780	.047	.065	8.176	21.690
2011 Total .....	2.751	.024	1.519	.100	5.820	5.919	.108	.051	10.373	18.375
2012 Total .....	3.087	.024	1.633	.143	6.261	6.404	.078	.041	11.267	15.801
2013 Total .....	2.895	.021	1.587	.284	6.886	7.170	.076	.039	11.788	12.835
2014 Total .....	2.435	.023	1.528	.744	7.414	8.158	.081	.045	12.270	10.971
<b>2015</b> January .....	.197	.002	.146	.087	.662	.749	.006	.003	1.103	.972
February .....	.163	.001	.146	.070	.615	.685	.006	.005	1.006	.834
March .....	.191	.001	.165	.077	.590	.667	.008	.003	1.035	1.044
April .....	.181	.002	.132	.102	.680	.782	.007	.002	1.105	.816
May .....	.169	.003	.135	.093	.701	.794	.007	.002	1.110	.890
June .....	.145	.003	.139	.076	.660	.736	.007	.002	1.032	.930
July .....	.128	.001	.145	.096	.715	.811	.007	.002	1.095	.937
August .....	.161	.001	.146	.081	.656	.737	.006	.002	1.054	1.028
September .....	.135	.002	.164	.070	.697	.767	.006	.002	1.076	.849
October .....	.144	.002	.160	.088	.667	.755	.007	.002	1.070	.832
November .....	.118	.002	.157	.055	.721	.775	.005	.002	1.060	.839
December .....	.121	.002	.163	.069	.790	.859	.008	.003	1.156	.920
<b>Total</b> .....	<b>1.852</b>	<b>.021</b>	<b>1.800</b>	<b>.964</b>	<b>8.153</b>	<b>9.118</b>	<b>.080</b>	<b>.031</b>	<b>12.902</b>	<b>10.892</b>
<b>2016</b> January .....	.111	.001	.170	.065	.719	.784	.007	.002	1.075	1.036
February .....	.113	(s)	.164	.062	.683	.745	.006	.003	1.031	.991
March .....	.130	.001	.197	.090	.714	.804	.009	.004	1.145	.994
April .....	.115	.001	.177	.102	.701	.803	.009	.003	1.109	.922
May .....	.105	.001	.188	.117	.798	.915	.006	.003	1.218	.951
June .....	.136	.002	.182	.066	.751	.817	.005	.002	1.144	.934
July .....	.082	.001	.188	.084	.755	.839	.007	.002	1.120	1.132
August .....	.125	.003	.214	.117	.710	.826	.008	.003	1.179	1.033
September .....	.107	.003	.202	.119	.701	.820	.009	.003	1.144	.958
October .....	.122	.004	.176	.087	.705	.792	.011	.003	1.109	.955
November .....	.164	.005	.228	.103	.736	.838	.011	.002	1.249	.862
December .....	.199	.002	.251	.078	.799	.877	.009	.002	1.340	.794
<b>Total</b> .....	<b>1.510</b>	<b>.025</b>	<b>2.336</b>	<b>1.089</b>	<b>8.771</b>	<b>9.860</b>	<b>.098</b>	<b>.033</b>	<b>13.862</b>	<b>11.561</b>
<b>2017</b> January .....	.185	.003	.272	.132	.785	.918	.010	.002	1.390	.916
February .....	.173	.001	.255	.179	.762	.941	.012	.003	1.385	.579
<b>2-Month Total</b> .....	<b>.358</b>	<b>.004</b>	<b>.527</b>	<b>.311</b>	<b>1.548</b>	<b>1.859</b>	<b>.022</b>	<b>.005</b>	<b>2.776</b>	<b>1.495</b>
<b>2016 2-Month Total</b> .....	<b>.224</b>	<b>.001</b>	<b>.334</b>	<b>.127</b>	<b>1.402</b>	<b>1.528</b>	<b>.013</b>	<b>.005</b>	<b>2.107</b>	<b>2.027</b>
<b>2015 2-Month Total</b> .....	<b>.360</b>	<b>.003</b>	<b>.292</b>	<b>.158</b>	<b>1.277</b>	<b>1.434</b>	<b>.012</b>	<b>.007</b>	<b>2.108</b>	<b>1.807</b>

<sup>a</sup> Net imports equal imports minus exports.

<sup>b</sup> Crude oil and lease condensate.

<sup>c</sup> Petroleum products, unfinished oils, pentanes plus, and gasoline blending components. Does not include biofuels.

<sup>d</sup> Through 2010, data are for biodiesel only. Beginning in 2011, data are for fuel ethanol (minus denaturant) and biodiesel.

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

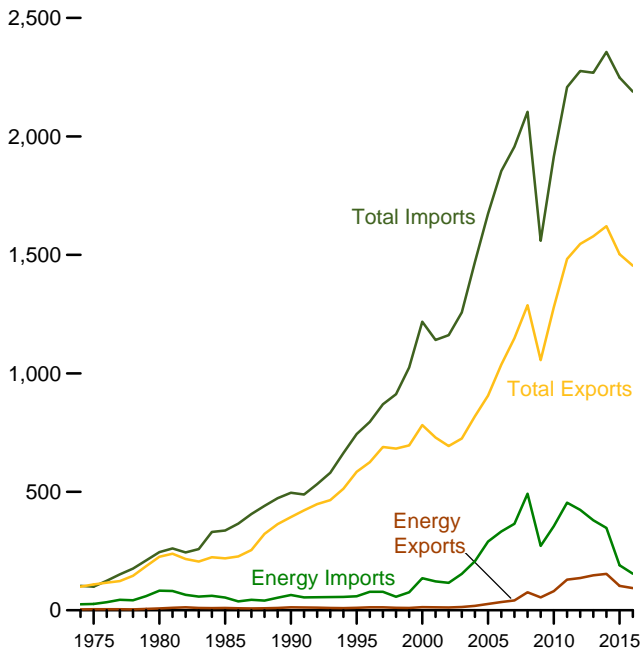
Notes: • See "Primary Energy" in Glossary. • Totals may not equal sum of components due to independent rounding. • Geographic coverage is the 50 states and the District of Columbia.

Web Page: See <http://www.eia.gov/totalenergy/data/monthly/#summary> (Excel and CSV files) for all available annual data beginning in 1949 and monthly data beginning in 1973.

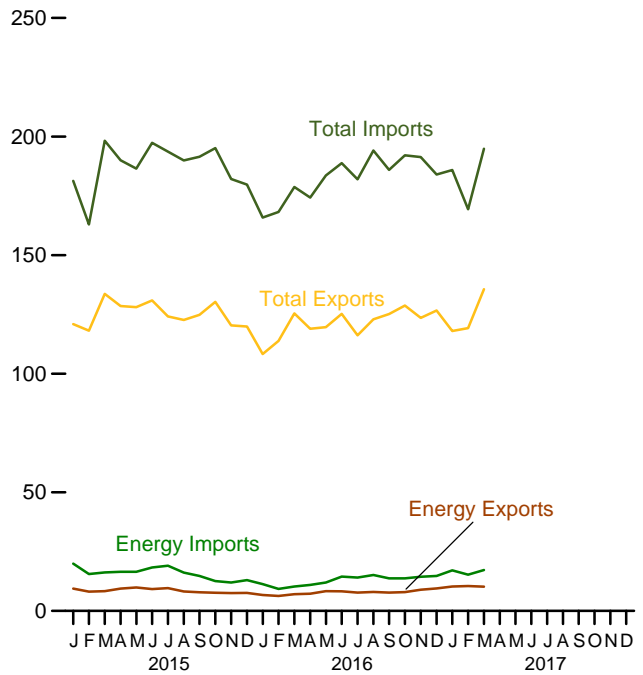
Sources: See end of section.

**Figure 1.5 Merchandise Trade Value**  
(Billion Dollars<sup>a</sup>)

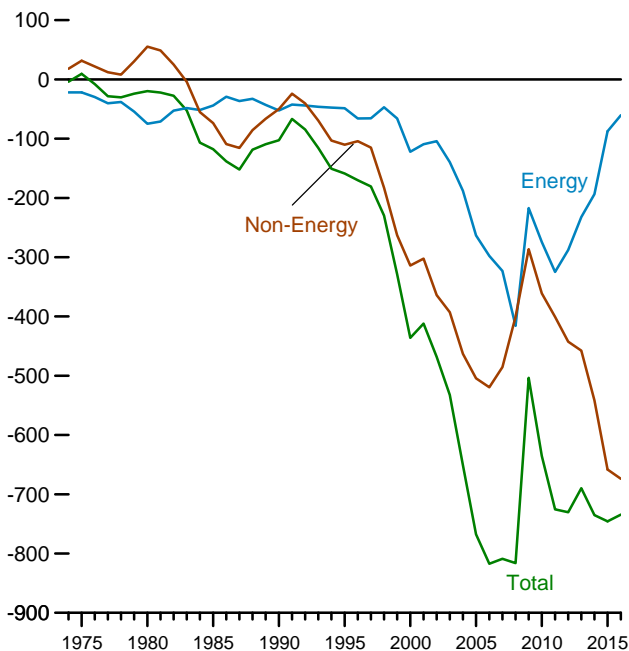
Imports and Exports, 1974–2016



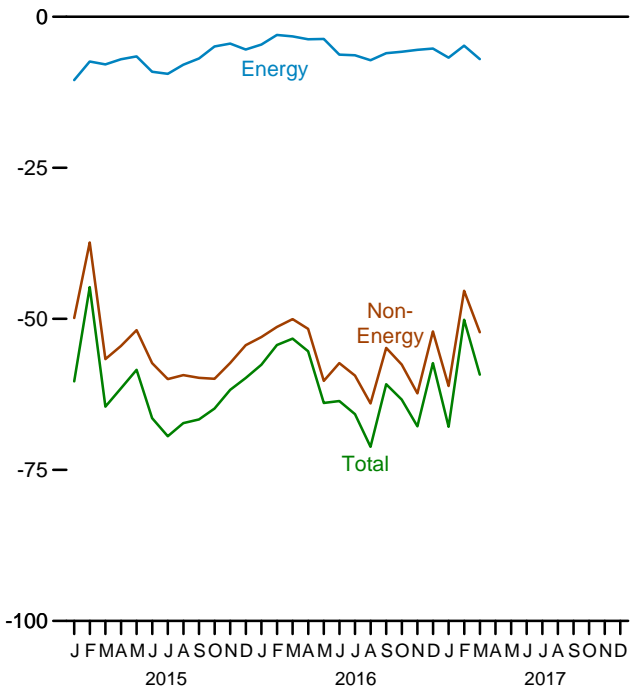
Imports and Exports, Monthly



Trade Balance, 1974–2016



Trade Balance, Monthly



<sup>a</sup> Prices are not adjusted for inflation. See "Nominal Dollars" in Glossary.  
Web Page: See <http://www.eia.gov/totalenergy/data/monthly/#summary>.  
Source: Table 1.5.

**Table 1.5 Merchandise Trade Value**  
(Million Dollars<sup>a</sup>)

	Petroleum <sup>b</sup>			Energy <sup>c</sup>			Non-Energy Balance	Total Merchandise		
	Exports	Imports	Balance	Exports	Imports	Balance		Exports	Imports	Balance
1974 Total	792	24,668	-23,876	3,444	25,454	-22,010	18,126	99,437	103,321	-3,884
1975 Total	907	25,197	-24,289	4,470	26,476	-22,006	31,557	108,856	99,305	9,551
1980 Total	2,833	78,637	-75,803	7,982	82,924	-74,942	55,246	225,566	245,262	-19,696
1985 Total	4,707	50,475	-45,768	9,971	53,917	-43,946	-73,765	218,815	336,526	-117,712
1990 Total	6,901	61,583	-54,682	12,233	64,661	-52,428	-50,068	393,592	496,088	-102,496
1995 Total	6,321	54,368	-48,047	10,358	59,109	-48,751	-110,050	584,742	743,543	-158,801
2000 Total	10,192	119,251	-109,059	13,179	135,367	-122,188	-313,916	781,918	1,218,022	-436,104
2001 Total	8,868	102,747	-93,879	12,494	121,923	-109,429	-302,470	729,100	1,140,999	-411,899
2002 Total	8,569	102,663	-94,094	11,541	115,748	-104,207	-364,056	693,103	1,161,366	-468,263
2003 Total	10,209	132,433	-122,224	13,768	153,298	-139,530	-392,820	724,771	1,257,121	-532,350
2004 Total	13,130	179,266	-166,136	18,642	206,660	-188,018	-462,912	818,775	1,469,704	-650,930
2005 Total	19,155	250,068	-230,913	26,488	289,723	-263,235	-504,242	905,978	1,673,455	-767,477
2006 Total	28,171	299,714	-271,543	34,711	332,500	-297,789	-519,515	1,036,635	1,853,938	-817,304
2007 Total	33,293	327,620	-294,327	41,725	364,987	-323,262	-485,501	1,148,199	1,956,962	-808,763
2008 Total	61,695	449,847	-388,152	76,075	491,885	-415,810	-400,389	1,287,442	2,103,641	-816,199
2009 Total	44,509	251,833	-207,324	54,536	271,739	-217,203	-286,379	1,056,043	1,559,625	-503,582
2010 Total	64,753	333,472	-268,719	80,625	354,982	-274,357	-361,005	1,278,495	1,913,857	-635,362
2011 Total	<sup>b</sup> 102,180	<sup>b</sup> 431,866	<sup>b</sup> -329,686	128,989	453,839	-324,850	-400,597	1,482,508	2,207,954	-725,447
2012 Total	111,951	408,509	-296,558	136,054	423,862	-287,808	-442,638	1,545,821	2,276,267	-730,446
2013 Total	123,218	363,141	-239,923	147,539	379,758	-232,219	-457,712	1,578,439	2,268,370	-689,931
2014 Total	127,258	326,710	-199,452	153,936	347,473	-193,537	-541,657	1,621,172	2,356,366	-735,194
<b>2015</b> January	7,759	18,216	-10,457	9,423	19,909	-10,486	-49,857	120,920	181,263	-60,343
February	6,641	13,815	-7,174	8,145	15,545	-7,400	-37,343	118,181	162,925	-44,743
March	6,605	14,826	-8,221	8,349	16,228	-7,879	-56,659	133,660	198,198	-64,538
April	7,755	15,567	-7,812	9,441	16,469	-7,028	-54,481	128,508	190,017	-61,509
May	8,286	15,578	-7,292	9,905	16,472	-6,567	-51,859	128,075	186,501	-58,426
June	7,794	17,434	-9,640	9,215	18,309	-9,094	-57,334	130,904	197,331	-66,428
July	8,265	18,075	-9,810	9,606	19,040	-9,434	-59,984	124,188	193,606	-69,418
August	6,774	15,203	-8,429	8,206	16,148	-7,942	-59,309	122,684	189,936	-67,251
September	6,510	13,811	-7,301	7,857	14,754	-6,897	-59,756	124,827	191,480	-66,653
October	6,322	11,657	-5,335	7,680	12,588	-4,908	-59,924	130,300	195,132	-64,832
November	6,251	11,148	-4,897	7,538	11,966	-4,428	-57,306	120,385	182,119	-61,734
December	6,279	12,115	-5,836	7,590	13,008	-5,418	-54,368	119,939	179,725	-59,786
<b>Total</b>	<b>85,241</b>	<b>177,445</b>	<b>-92,204</b>	<b>102,955</b>	<b>190,436</b>	<b>-87,481</b>	<b>-658,179</b>	<b>1,502,572</b>	<b>2,248,232</b>	<b>-745,660</b>
<b>2016</b> January	5,513	10,281	-4,768	6,719	11,312	-4,593	-53,006	108,273	165,873	-57,599
February	5,137	8,379	-3,242	6,293	9,290	-2,997	-51,344	113,841	168,182	-54,341
March	5,760	9,334	-3,574	7,023	10,262	-3,239	-50,039	125,445	178,723	-53,278
April	5,995	10,103	-4,108	7,228	10,944	-3,716	-51,643	118,943	174,302	-55,359
May	6,867	11,346	-4,479	8,334	12,000	-3,666	-60,255	119,663	183,583	-63,921
June	6,730	13,735	-7,005	8,237	14,497	-6,260	-57,334	125,208	188,801	-63,594
July	6,353	13,155	-6,802	7,703	14,081	-6,378	-59,389	116,218	181,985	-65,767
August	6,548	14,129	-7,581	7,961	15,153	-7,192	-63,986	122,933	194,112	-71,178
September	6,415	12,791	-6,376	7,700	13,712	-6,012	-54,802	125,142	185,955	-60,814
October	6,233	12,810	-6,577	7,899	13,697	-5,798	-57,569	128,722	192,089	-63,367
November	6,901	13,496	-6,595	8,906	14,370	-5,464	-62,325	123,557	191,345	-67,789
December	7,006	13,297	-6,291	9,469	14,723	-5,254	-52,071	126,663	183,989	-57,325
<b>Total</b>	<b>75,458</b>	<b>142,856</b>	<b>-67,398</b>	<b>93,472</b>	<b>154,041</b>	<b>-60,569</b>	<b>-673,762</b>	<b>1,454,607</b>	<b>2,188,938</b>	<b>-734,331</b>
<b>2017</b> January	7,552	15,713	-8,161	10,321	17,077	-6,756	-61,104	118,004	185,863	-67,860
February	7,779	14,167	-6,388	10,522	15,293	-4,771	<sup>R</sup> -45,365	<sup>R</sup> 119,238	<sup>R</sup> 169,375	<sup>R</sup> -50,136
March	7,415	15,917	-8,502	10,215	17,215	-7,000	-52,217	135,648	194,865	-59,217
<b>3-Month Total</b>	<b>22,745</b>	<b>45,797</b>	<b>-23,051</b>	<b>31,059</b>	<b>49,586</b>	<b>-18,527</b>	<b>-158,686</b>	<b>372,890</b>	<b>550,103</b>	<b>-177,213</b>
<b>2016 3-Month Total</b>	<b>16,410</b>	<b>27,993</b>	<b>-11,584</b>	<b>20,036</b>	<b>30,864</b>	<b>-10,829</b>	<b>-154,389</b>	<b>347,559</b>	<b>512,777</b>	<b>-165,218</b>
<b>2015 3-Month Total</b>	<b>21,005</b>	<b>46,857</b>	<b>-25,852</b>	<b>25,917</b>	<b>51,682</b>	<b>-25,765</b>	<b>-143,859</b>	<b>372,761</b>	<b>542,385</b>	<b>-169,624</b>

<sup>a</sup> Prices are not adjusted for inflation. See "Nominal Dollars" in Glossary.

<sup>b</sup> Through 2010, data are for crude oil, petroleum preparations, liquefied propane and butane, and other mineral fuels. Beginning in 2011, data are for petroleum products and preparations.

<sup>c</sup> Petroleum, coal, natural gas, and electricity.

<sup>R</sup>=Revised.

Notes: • Monthly data are not adjusted for seasonal variations. • See Note, "Merchandise Trade Value," at end of section. • Totals may not equal sum of

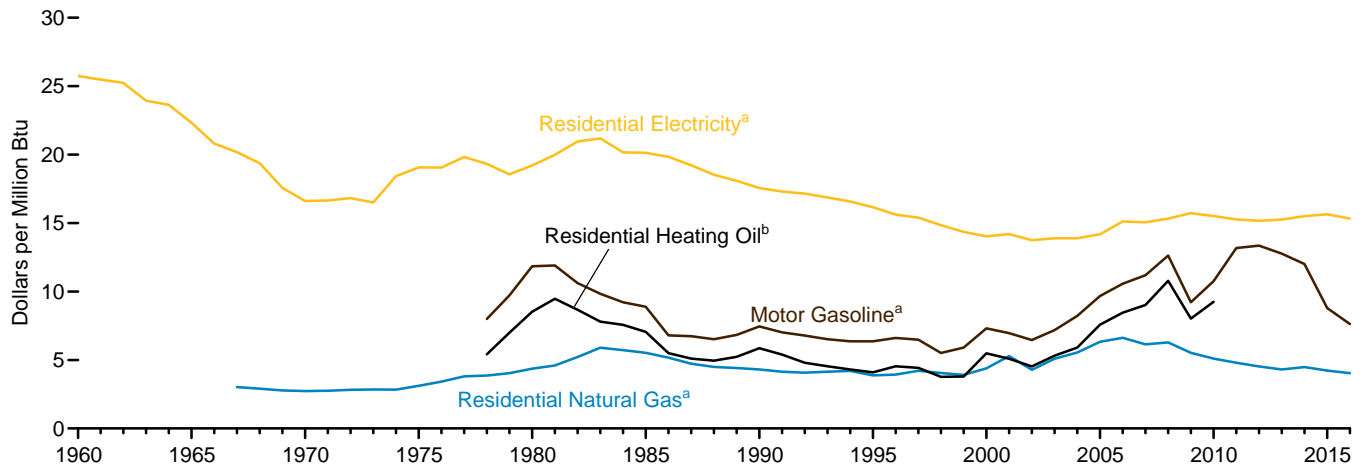
components due to independent rounding. • The U.S. import statistics reflect both government and nongovernment imports of merchandise from foreign countries into the U.S. customs territory, which comprises the 50 states, the District of Columbia, Puerto Rico, and the Virgin Islands.

Web Page: See <http://www.eia.gov/totalenergy/data/monthly/#summary> (Excel and CSV files) for all available annual and monthly data beginning in 1974.

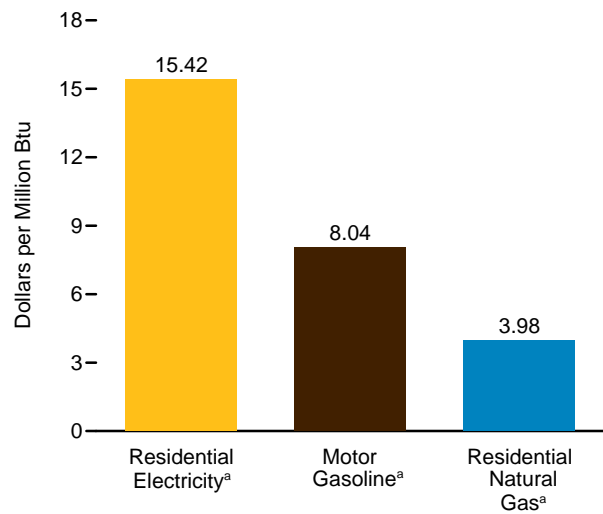
Sources: See end of section.

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

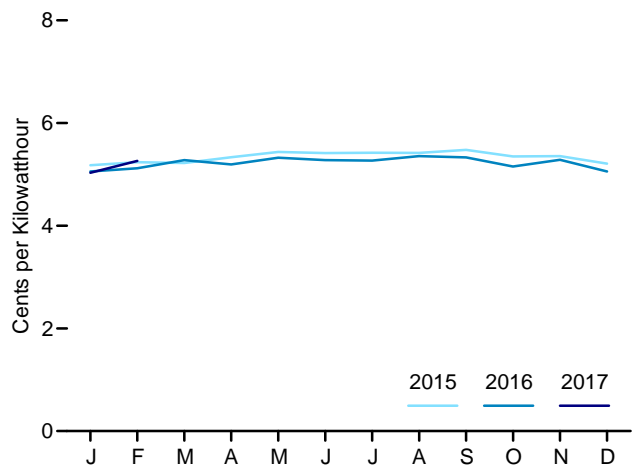
Costs, 1960–2016



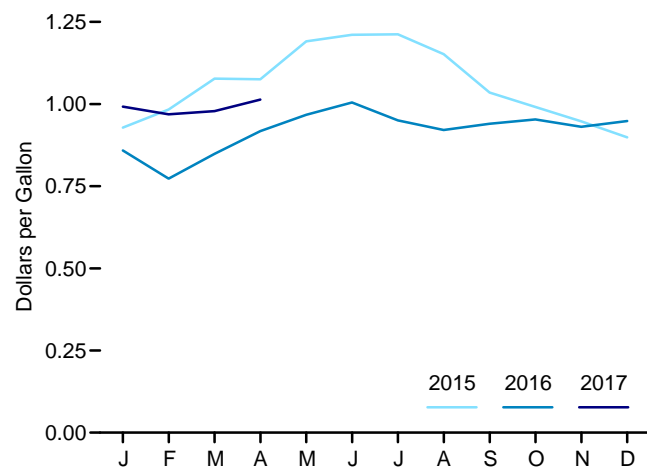
Costs, February 2017



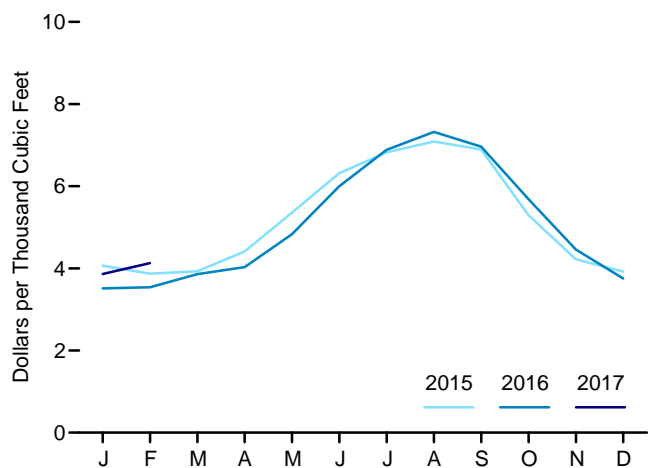
Residential Electricity,<sup>a</sup> Monthly



Motor Gasoline,<sup>a</sup> Monthly



Residential Natural Gas,<sup>a</sup> Monthly



<sup>a</sup> Includes taxes.

<sup>b</sup> Excludes taxes.

Note: See "Real Dollars" in Glossary.

Web Page: <http://www.eia.gov/totalenergy/data/monthly/#summary>.

Source: Table 1.6.

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

	Consumer Price Index, All Urban Consumers <sup>a</sup>	Motor Gasoline <sup>b</sup>		Residential Heating Oil <sup>c</sup>		Residential Natural Gas <sup>b</sup>		Residential Electricity <sup>b</sup>	
	Index 1982–1984=100	Dollars per Gallon	Dollars per Million Btu	Dollars per Gallon	Dollars per Million Btu	Dollars per Thousand Cubic Feet	Dollars per Million Btu	Cents per Kilowatt-hour	Dollars per Million Btu
1960 Average	29.6	NA	NA	NA	NA	NA	NA	8.8	25.74
1965 Average	31.5	NA	NA	NA	NA	NA	NA	7.6	22.33
1970 Average	38.8	NA	NA	NA	NA	2.81	2.72	5.7	16.62
1975 Average	53.8	NA	NA	NA	NA	3.18	3.12	6.5	19.07
1980 Average	82.4	1.482	11.85	1.182	8.52	4.47	4.36	6.6	19.21
1985 Average	107.6	1.112	8.89	0.979	7.06	5.69	5.52	6.87	20.13
1990 Average	130.7	0.931	7.44	0.813	5.86	4.44	4.31	5.99	17.56
1995 Average	152.4	0.791	6.36	0.569	4.10	3.98	3.87	5.51	16.15
2000 Average	172.2	0.908	7.31	0.761	5.49	4.51	4.39	4.79	14.02
2001 Average	177.1	0.864	6.96	0.706	5.09	5.44	5.28	4.84	14.20
2002 Average	179.9	0.801	6.46	0.628	4.52	4.39	4.28	4.69	13.75
2003 Average	184.0	0.890	7.19	0.736	5.31	5.23	5.09	4.74	13.89
2004 Average	188.9	1.018	8.22	0.819	5.91	5.69	5.55	4.74	13.89
2005 Average	195.3	1.197	9.67	1.051	7.58	6.50	6.33	4.84	14.18
2006 Average	201.6	1.307	10.58	1.173	8.46	6.81	6.63	5.16	15.12
2007 Average	207.342	1.374	11.20	1.250	9.01	6.31	6.14	5.14	15.05
2008 Average	215.303	1.541	12.62	1.495	10.78	6.45	6.28	5.23	15.33
2009 Average	214.537	1.119	9.21	1.112	8.02	5.66	5.52	5.37	15.72
2010 Average	218.056	1.301	10.76	1.283	9.25	5.22	5.11	5.29	15.51
2011 Average	224.939	1.590	13.18	NA	NA	4.90	4.80	5.21	15.27
2012 Average	229.594	1.609	13.35	NA	NA	4.64	4.53	5.17	15.17
2013 Average	232.957	1.538	12.76	NA	NA	4.43	4.31	5.21	15.26
2014 Average	236.736	1.447	12.01	NA	NA	4.63	4.49	5.29	15.50
2015 January	233.707	0.929	7.71	NA	NA	4.07	3.92	5.18	15.17
February	234.722	0.983	8.16	NA	NA	3.87	3.73	5.24	15.35
March	236.119	1.077	8.94	NA	NA	3.93	3.79	5.22	15.30
April	236.599	1.076	8.93	NA	NA	4.41	4.26	5.33	15.63
May	237.805	1.191	9.88	NA	NA	5.35	5.16	5.44	15.94
June	238.638	1.211	10.05	NA	NA	6.32	6.09	5.41	15.87
July	238.654	1.212	10.06	NA	NA	6.82	6.58	5.42	15.89
August	238.316	1.152	9.56	NA	NA	7.09	6.83	5.42	15.88
September	237.945	1.035	8.59	NA	NA	6.89	6.65	5.48	16.05
October	237.838	0.991	8.23	NA	NA	5.30	5.11	5.35	15.67
November	237.336	0.948	7.87	NA	NA	4.22	4.07	5.36	15.70
December	236.525	0.898	7.46	NA	NA	3.92	3.78	5.21	15.27
Average	237.017	1.059	8.79	NA	NA	4.38	4.22	5.34	15.64
2016 January	236.916	0.859	7.13	NA	NA	<sup>R</sup> 3.51	<sup>R</sup> 3.39	5.06	14.82
February	237.111	0.773	6.42	NA	NA	<sup>R</sup> 3.54	3.41	5.12	15.01
March	238.132	0.849	7.05	NA	NA	<sup>R</sup> 3.86	<sup>R</sup> 3.72	5.28	15.47
April	239.261	0.918	7.62	NA	NA	4.03	3.89	5.20	15.23
May	240.229	0.967	8.03	NA	NA	4.83	4.66	5.32	15.60
June	241.018	1.005	8.34	NA	NA	6.00	<sup>R</sup> 5.78	5.28	15.47
July	240.628	0.950	7.89	NA	NA	6.89	6.64	5.27	15.44
August	240.849	0.921	7.65	NA	NA	7.32	7.06	5.36	15.70
September	241.428	0.940	7.80	NA	NA	6.96	6.71	5.33	15.62
October	241.729	0.953	7.91	NA	NA	5.68	5.48	5.15	15.11
November	241.353	0.931	7.73	NA	NA	4.46	4.30	5.28	15.48
December	241.432	0.948	7.87	NA	NA	3.75	3.62	5.06	14.82
Average	240.007	0.918	7.62	NA	NA	4.19	4.04	5.23	15.33
2017 January	242.839	0.992	8.24	NA	NA	3.86	3.72	5.03	14.75
February	243.603	0.969	8.04	NA	NA	<sup>R</sup> 4.13	<sup>R</sup> 3.98	<sup>R</sup> 5.26	<sup>R</sup> 15.42
March	243.801	0.979	8.12	NA	NA	NA	NA	NA	NA
April	244.524	1.014	8.42	NA	NA	NA	NA	NA	NA

<sup>a</sup> Data are U.S. city averages for all items, and are not seasonally adjusted.

<sup>b</sup> Includes taxes.

<sup>c</sup> Excludes taxes.

R=Revised. NA=Not available.

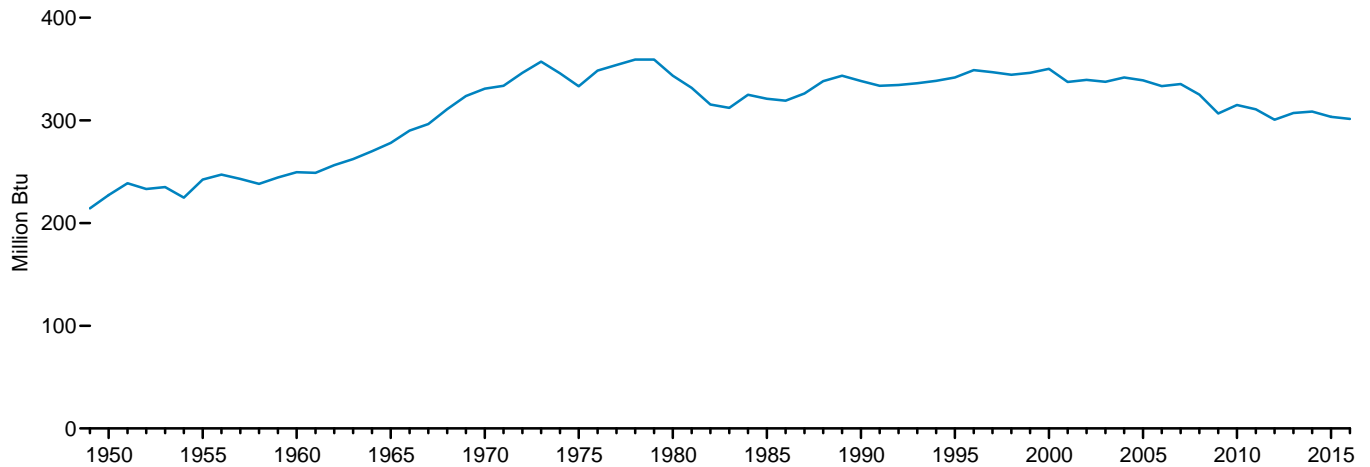
Notes: • See "Real Dollars" in Glossary. • Fuel costs are calculated by using the Urban Consumer Price Index (CPI) developed by the Bureau of Labor Statistics. • Annual averages may not equal average of months due to independent rounding. • Geographic coverage is the 50 states and the District of Columbia.

Web Page: See <http://www.eia.gov/totalenergy/data/monthly/#summary> (Excel and CSV files) for all available annual data beginning in 1960 and monthly data beginning in 1995.

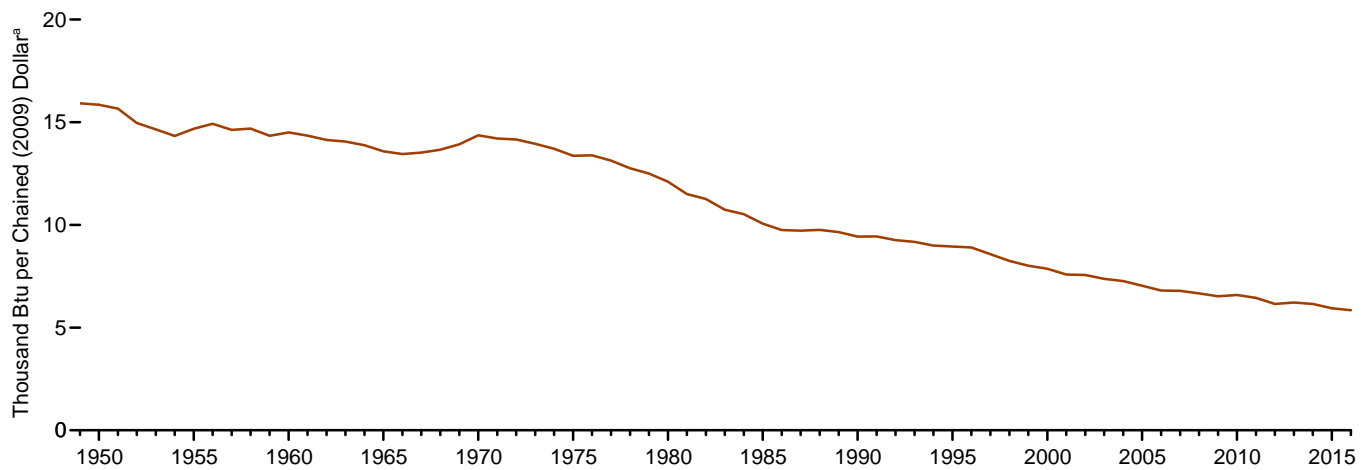
Sources: • **Fuel Prices:** Tables 9.4 (All Grades), 9.8, and 9.10, adjusted by the CPI; and *Monthly Energy Review*, September 2012, Table 9.8c. • **Consumer Price Index, All Urban Consumers:** U.S. Department of Labor, Bureau of Labor Statistics, series ID CUUR0000SA0. • **Conversion Factors:** Tables A1, A3, A4, and A6.

## Figure 1.7 Primary Energy Consumption and Energy Expenditures Indicators

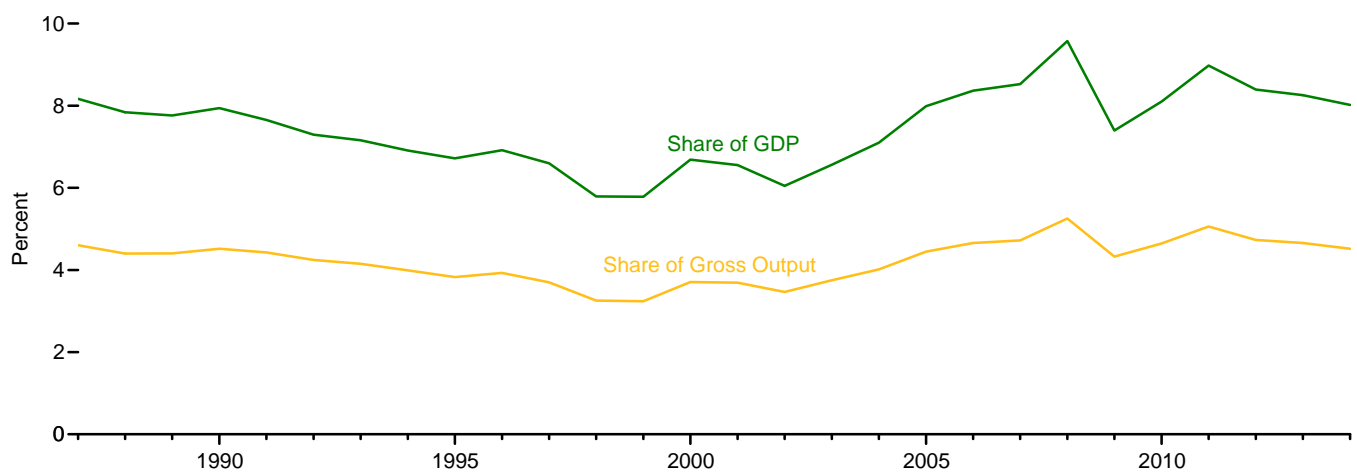
### Energy Consumption per Capita, 1949–2016



### Primary Energy Consumption per Real Dollar<sup>a</sup> of Gross Domestic Product, 1949–2016



### Energy Expenditures as Share of Gross Domestic Product and Gross Output,<sup>b</sup> 1987–2014



<sup>a</sup> See "Chained Dollars" and "Real Dollars" in Glossary.

<sup>b</sup> Gross output is the value of gross domestic product (GDP) plus the value of intermediate inputs used to produce GDP.

Web Page: <http://www.eia.gov/totalenergy/data/monthly/#summary>.  
Source: Table 1.7.



**Table 1.7 Primary Energy Consumption, Energy Expenditures, and Carbon Dioxide Emissions Indicators**

	Primary Energy Consumption <sup>a</sup>			Energy Expenditures <sup>b</sup>				Carbon Dioxide Emissions <sup>c</sup>		
	Consumption	Consumption per Capita	Consumption per Real Dollar <sup>d</sup> of GDP <sup>e</sup>	Expenditures	Expenditures per Capita	Expenditures as Share of GDP <sup>e</sup>	Expenditures as Share of Gross Output <sup>f</sup>	Emissions	Emissions per Capita	Emissions per Real Dollar <sup>d</sup> of GDP <sup>e</sup>
	Quadrillion Btu	Million Btu	Thousand Btu per Chained (2009) Dollar <sup>d</sup>	Million Nominal Dollars <sup>g</sup>	Nominal Dollars <sup>g</sup>	Percent	Percent	Million Metric Tons Carbon Dioxide	Metric Tons Carbon Dioxide	Metric Tons Carbon Dioxide per Million Chained (2009) Dollars <sup>d</sup>
1950 .....	34.616	227	15.85	NA	NA	NA	NA	2,382	15.6	1,091
1955 .....	40.208	242	14.68	NA	NA	NA	NA	2,685	16.2	980
1960 .....	45.086	250	14.50	NA	NA	NA	NA	2,914	16.1	937
1965 .....	54.015	278	13.58	NA	NA	NA	NA	3,462	17.8	871
1970 .....	67.838	331	14.37	82,875	404	7.7	NA	4,261	20.8	902
1975 .....	71.965	333	13.36	171,851	796	10.2	NA	4,439	20.6	824
1980 .....	78.067	344	12.10	374,347	1,647	13.1	NA	4,771	21.0	740
1981 .....	76.106	332	11.50	427,898	1,865	13.3	NA	4,646	20.2	702
1982 .....	73.099	316	11.26	426,479	1,841	12.7	NA	4,405	19.0	679
1983 .....	72.971	312	10.74	411,617	1,786	11.5	NA	4,377	18.7	644
1984 .....	76.632	325	10.52	435,371	1,846	10.8	NA	4,614	19.6	633
1985 .....	76.392	321	10.06	438,531	1,843	10.1	NA	4,600	19.3	606
1986 .....	76.647	319	9.75	384,284	1,600	8.4	NA	4,608	19.2	586
1987 .....	79.054	326	9.72	397,819	1,642	8.2	4.6	4,766	19.7	586
1988 .....	82.709	338	9.76	411,739	1,684	7.8	4.4	4,984	20.4	588
1989 .....	84.785	344	9.65	439,235	1,780	7.8	4.4	5,070	20.5	577
1990 .....	84.484	338	9.43	474,831	1,902	7.9	4.5	5,039	20.2	563
1991 .....	84.437	334	9.44	472,543	1,868	7.7	4.4	4,993	19.7	558
1992 .....	85.782	334	9.26	477,024	1,860	7.3	4.2	5,087	19.8	549
1993 .....	87.365	336	9.18	492,383	1,894	7.2	4.2	5,185	19.9	545
1994 .....	89.087	339	8.99	504,988	1,919	6.9	4.0	5,261	20.0	531
1995 .....	91.031	342	8.95	514,755	1,933	6.7	3.8	5,323	20.0	523
1996 .....	94.021	349	8.90	560,409	2,080	6.9	3.9	5,510	20.5	522
1997 .....	94.600	347	8.57	568,075	2,084	6.6	3.7	5,584	20.5	506
1998 .....	95.018	344	8.24	526,394	1,908	5.8	3.3	5,635	20.4	489
1999 .....	96.648	346	8.01	558,739	2,002	5.8	3.2	5,688	20.4	471
2000 .....	98.817	350	7.87	687,824	2,438	6.7	3.7	5,868	20.8	467
2001 .....	96.170	337	7.58	696,347	2,444	6.6	3.7	5,761	20.2	454
2002 .....	97.643	339	7.56	664,072	2,309	6.0	3.5	5,804	20.2	450
2003 .....	97.918	338	7.38	755,213	2,603	6.6	3.8	5,853	20.2	441
2004 .....	100.090	342	7.27	871,344	2,976	7.1	4.0	5,970	20.4	433
2005 .....	100.188	339	7.04	1,045,917	3,539	8.0	4.4	5,993	20.3	421
2006 .....	99.485	333	6.81	1,159,027	3,884	8.4	4.7	5,910	19.8	404
2007 .....	101.015	335	6.79	1,234,044	4,097	8.5	4.7	6,000	19.9	403
2008 .....	98.891	325	6.67	1,408,990	4,633	9.6	5.3	5,809	19.1	392
2009 .....	94.118	307	6.53	1,066,523	3,477	7.4	4.3	5,386	17.6	374
2010 .....	97.445	315	6.59	1,212,094	3,918	8.1	4.6	5,582	18.0	378
2011 .....	96.842	311	6.45	1,393,001	4,470	9.0	5.1	5,445	17.5	362
2012 .....	94.416	301	6.15	1,356,104	4,319	8.4	4.7	5,232	16.7	341
2013 .....	97.157	307	6.22	1,378,360	4,359	8.3	4.7	5,360	17.0	343
2014 .....	98.329	309	6.15	1,394,974	4,379	8.0	4.5	5,406	17.0	338
2015 .....	97.365	303	5.94	NA	NA	NA	NA	5,259	16.4	321
2016 .....	<sup>R</sup> 97.399	301	5.85	NA	NA	NA	NA	5,171	16.0	310

<sup>a</sup> See "Primary Energy Consumption" in Glossary.

<sup>b</sup> Expenditures include taxes where data are available.

<sup>c</sup> Carbon dioxide emissions from energy consumption. See Table 12.1.

<sup>d</sup> See "Chained Dollars" and "Real Dollars" in Glossary.

<sup>e</sup> See "Gross Domestic Product (GDP)" in Glossary.

<sup>f</sup> Gross output is the value of GDP plus the value of intermediate inputs used to produce GDP.

<sup>g</sup> See "Nominal Dollars" in Glossary.

R=Revised. NA=Not available.

Notes: • Data are estimates. • Geographic coverage is the 50 states and the District of Columbia.

Web Page: See <http://www.eia.gov/totalenergy/data/monthly/#summary> (Excel and CSV files) for all available annual data beginning in 1949.

Sources: • **Consumption:** Table 1.3. • **Consumption per Capita:** Calculated as energy consumption divided by U.S. population (see Table C1).

• **Consumption per Real Dollar of GDP:** Calculated as energy consumption divided by U.S. gross domestic product in chained (2009) dollars (see Table C1).

• **Expenditures:** U.S. Energy Information Administration, "State Energy Price and Expenditure Estimates, 1970 Through 2014" (June 2016), U.S. Table ET1.

• **Expenditures per Capita:** Calculated as energy expenditures divided by U.S. population (see Table C1).

• **Expenditures as Share of GDP:** Calculated as energy expenditures divided by U.S. gross domestic product in nominal dollars (see Table C1).

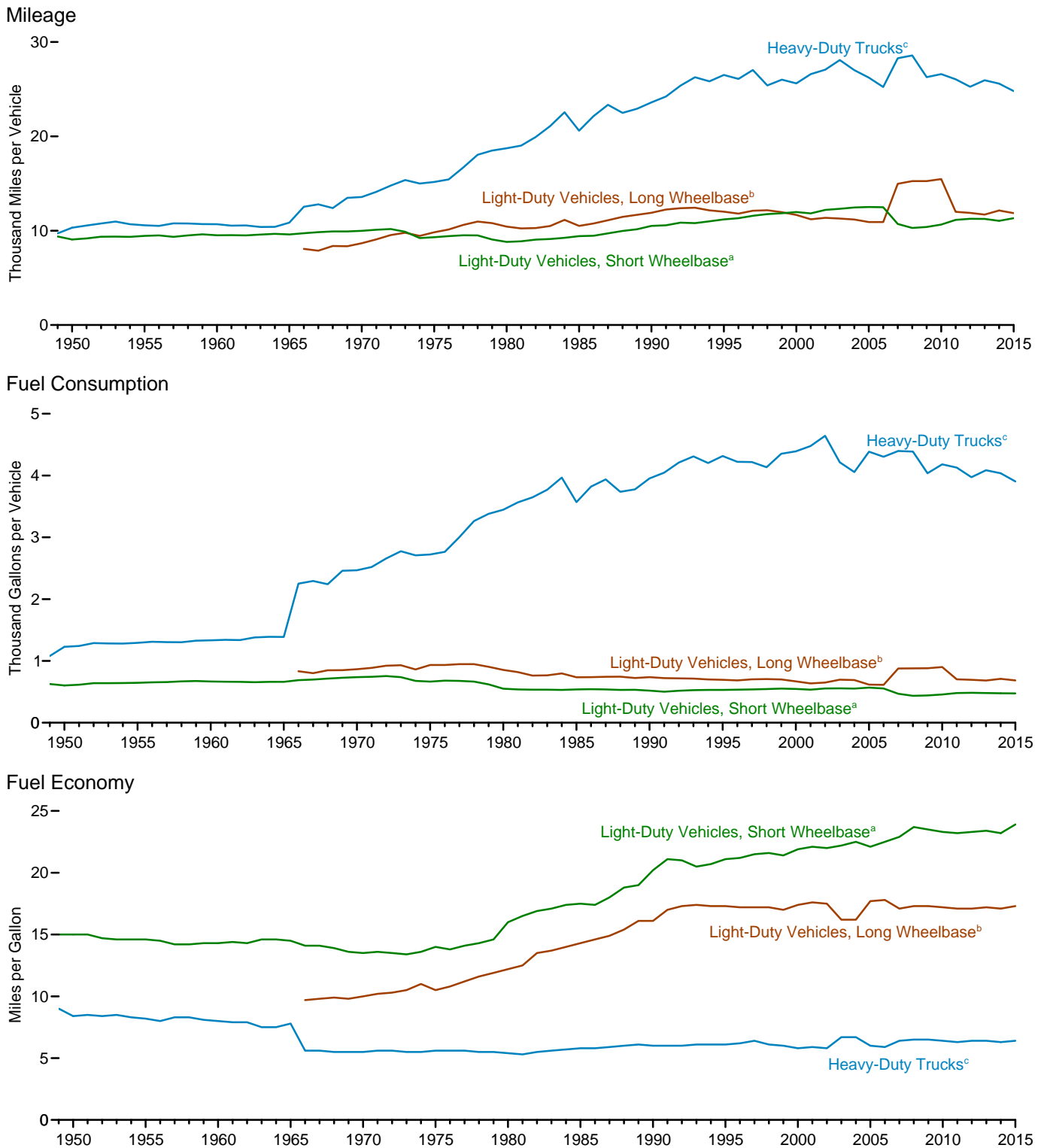
• **Expenditures as Share of Gross Output:** Calculated as energy expenditures divided by U.S. gross output (see Table C1).

• **Emissions: 1949–1972—**U.S. Energy Information Administration, *Annual Energy Review 2011*, Table 11.1. **1973 forward—**Table 12.1.

• **Emissions per Capita:** Calculated as carbon dioxide emissions divided by U.S. population (see Table C1).

• **Emissions per Real Dollar of GDP:** Calculated as carbon dioxide emissions divided by U.S. gross domestic product in chained (2009) dollars (see Table C1).

**Figure 1.8 Motor Vehicle Mileage, Fuel Consumption, and Fuel Economy, 1949–2015**



<sup>a</sup> Through 1989, data are for passenger cars and motorcycles. For 1990–2006, data are for passenger cars only. Beginning in 2007, data are for light-duty vehicles (passenger cars, light trucks, vans, and sport utility vehicles) with a wheelbase less than or equal to 121 inches.

<sup>b</sup> For 1966–2000, data are for vans, pickup trucks, and sport utility vehicles. Beginning in 2007, data are for light-duty vehicles (passenger cars, light trucks, vans, and sport utility vehicles) with a wheelbase greater than 121 inches.

<sup>c</sup> For 1949–1965, data are for single-unit trucks with 2 axles and 6 or more tires, combination trucks, and other vehicles with 2 axles and 4

tires that are not passenger cars. For 1966–2006 data are for single-unit trucks with 2 axles and 6 or more tires, and combination trucks. Beginning in 2007, data are for single-unit trucks with 2 axles and 6 or more tires (or a gross vehicle weight rating exceeding 10,000 pounds), and combination trucks.

Note: Through 1965, “Light-Duty Vehicles, Long Wheelbase” data are included in “Heavy-Duty Trucks.”

Web Page: <http://www.eia.gov/totalenergy/data/monthly/#summary>.

Source: Table 1.8.

**Table 1.8 Motor Vehicle Mileage, Fuel Consumption, and Fuel Economy**

	Light-Duty Vehicles, Short Wheelbase <sup>a</sup>			Light-Duty Vehicles, Long Wheelbase <sup>b</sup>			Heavy-Duty Trucks <sup>c</sup>			All Motor Vehicles <sup>d</sup>		
	Mileage	Fuel Consumption	Fuel Economy	Mileage	Fuel Consumption	Fuel Economy	Mileage	Fuel Consumption	Fuel Economy	Mileage	Fuel Consumption	Fuel Economy
	Miles per Vehicle	Gallons per Vehicle	Miles per Gallon	Miles per Vehicle	Gallons per Vehicle	Miles per Gallon	Miles per Vehicle	Gallons per Vehicle	Miles per Gallon	Miles per Vehicle	Gallons per Vehicle	Miles per Gallon
1950	9,060	603	15.0	(e)	(e)	(e)	10,316	1,229	8.4	9,321	725	12.8
1955	9,447	645	14.6	(e)	(e)	(e)	10,576	1,293	8.2	9,661	761	12.7
1960	9,518	668	14.3	(e)	(e)	(e)	10,693	1,333	8.0	9,732	784	12.4
1965	9,603	661	14.5	(e)	(e)	(e)	10,851	1,387	7.8	9,826	787	12.5
1970	9,989	737	13.5	8,676	866	10.0	13,565	2,467	5.5	9,976	830	12.0
1975	9,309	665	14.0	9,829	934	10.5	15,167	2,722	5.6	9,627	790	12.2
1980	8,813	551	16.0	10,437	854	12.2	18,736	3,447	5.4	9,458	712	13.3
1981	8,873	538	16.5	10,244	819	12.5	19,016	3,565	5.3	9,477	697	13.6
1982	9,050	535	16.9	10,276	762	13.5	19,931	3,647	5.5	9,644	686	14.1
1983	9,118	534	17.1	10,497	767	13.7	21,083	3,769	5.6	9,760	686	14.2
1984	9,248	530	17.4	11,151	797	14.0	22,550	3,967	5.7	10,017	691	14.5
1985	9,419	538	17.5	10,506	735	14.3	20,597	3,570	5.8	10,020	685	14.6
1986	9,464	543	17.4	10,764	738	14.6	22,143	3,821	5.8	10,143	692	14.7
1987	9,720	539	18.0	11,114	744	14.9	23,349	3,937	5.9	10,453	694	15.1
1988	9,972	531	18.8	11,465	745	15.4	22,485	3,736	6.0	10,721	688	15.6
1989	10,157	533	19.0	11,676	724	16.1	22,926	3,776	6.1	10,932	688	15.9
1990	10,504	520	20.2	11,902	738	16.1	23,603	3,953	6.0	11,107	677	16.4
1991	10,571	501	21.1	12,245	721	17.0	24,229	4,047	6.0	11,294	669	16.9
1992	10,857	517	21.0	12,381	717	17.3	25,373	4,210	6.0	11,558	683	16.9
1993	10,804	527	20.5	12,430	714	17.4	26,262	4,309	6.1	11,595	693	16.7
1994	10,992	531	20.7	12,156	701	17.3	25,838	4,202	6.1	11,683	698	16.7
1995	11,203	530	21.1	12,018	694	17.3	26,514	4,315	6.1	11,793	700	16.8
1996	11,330	534	21.2	11,811	685	17.2	26,092	4,221	6.2	11,813	700	16.9
1997	11,581	539	21.5	12,115	703	17.2	27,032	4,218	6.4	12,107	711	17.0
1998	11,754	544	21.6	12,173	707	17.2	25,397	4,135	6.1	12,211	721	16.9
1999	11,848	553	21.4	11,957	701	17.0	26,014	4,352	6.0	12,206	732	16.7
2000	11,976	547	21.9	11,672	669	17.4	25,617	4,391	5.8	12,164	720	16.9
2001	11,831	534	22.1	11,204	636	17.6	26,602	4,477	5.9	11,887	695	17.1
2002	12,202	555	22.0	11,364	650	17.5	27,071	4,642	5.8	12,171	719	16.9
2003	12,325	556	22.2	11,287	697	16.2	28,093	4,215	6.7	12,208	718	17.0
2004	12,460	553	22.5	11,184	690	16.2	27,023	4,057	6.7	12,200	714	17.1
2005	12,510	567	22.1	10,920	617	17.7	26,235	4,385	6.0	12,082	706	17.1
2006	12,485	554	22.5	10,920	612	17.8	25,231	4,304	5.9	12,017	698	17.2
2007	<sup>a</sup> 10,710	<sup>a</sup> 468	<sup>a</sup> 22.9	<sup>b</sup> 14,970	<sup>b</sup> 877	<sup>b</sup> 17.1	<sup>c</sup> 28,290	<sup>c</sup> 4,398	6.4	11,915	693	17.2
2008	10,290	435	23.7	15,256	880	17.3	28,573	4,387	6.5	11,631	667	17.4
2009	10,391	442	23.5	15,252	882	17.3	26,274	4,037	6.5	11,631	661	17.6
2010	10,650	456	23.3	15,474	901	17.2	26,604	4,180	6.4	11,866	681	17.4
2011	11,150	481	23.2	12,007	702	17.1	26,054	4,128	6.3	11,652	665	17.5
2012	11,262	484	23.3	11,885	694	17.1	25,255	3,973	6.4	11,707	665	17.6
2013	11,244	480	23.4	11,712	683	17.2	25,951	4,086	6.4	11,679	663	17.6
2014	11,048	476	23.2	12,138	710	17.1	25,594	4,036	6.3	11,621	666	17.5
2015 <sup>P</sup>	11,327	475	23.9	11,855	684	17.3	24,797	3,904	6.4	11,742	656	17.9

<sup>a</sup> Through 1989, data are for passenger cars and motorcycles. For 1990–2006, data are for passenger cars only. Beginning in 2007, data are for light-duty vehicles (passenger cars, light trucks, vans, and sport utility vehicles) with a wheelbase less than or equal to 121 inches.

<sup>b</sup> For 1966–2006, data are for vans, pickup trucks, and sport utility vehicles. Beginning in 2007, data are for light-duty vehicles (passenger cars, light trucks, vans, and sport utility vehicles) with a wheelbase greater than 121 inches.

<sup>c</sup> For 1949–1965, data are for single-unit trucks with 2 axles and 6 or more tires, combination trucks, and other vehicles with 2 axles and 4 tires that are not passenger cars. For 1966–2006, data are for single-unit trucks with 2 axles and 6 or more tires, and combination trucks. Beginning in 2007, data are for single-unit trucks with 2 axles and 6 or more tires (or a gross vehicle weight rating exceeding 10,000 pounds), and combination trucks.

<sup>d</sup> Includes buses and motorcycles, which are not separately displayed.

<sup>e</sup> Included in "Heavy-Duty Trucks."

P=Preliminary.

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

Web Page: See <http://www.eia.gov/totalenergy/data/monthly/#summary> (Excel and CSV files) for all available annual data beginning in 1949.

Sources: • **Light-Duty Vehicles, Short Wheelbase: 1990–1994**—U.S. Department of Transportation, Bureau of Transportation Statistics, *National Transportation Statistics 1998*, Table 4-13. • **All Other Data: 1949–1994**—Federal Highway Administration (FHWA), *Highway Statistics Summary to 1995*, Table VM-201A. **1995 forward**—FHWA, *Highway Statistics*, annual reports, Table VM-1.

**Table 1.9 Heating Degree Days by Census Division**

	New England <sup>a</sup>	Middle Atlantic <sup>b</sup>	East North Central <sup>c</sup>	West North Central <sup>d</sup>	South Atlantic <sup>e</sup>	East South Central <sup>f</sup>	West South Central <sup>g</sup>	Mountain <sup>h</sup>	Pacific <sup>i</sup>	United States
1950 Total	6,794	6,324	7,027	7,455	3,521	3,547	2,277	6,341	3,906	5,367
1955 Total	6,872	6,231	6,486	6,912	3,508	3,513	2,294	6,704	4,320	5,246
1960 Total	6,828	6,391	6,908	7,184	3,780	4,134	2,767	6,281	3,799	5,404
1965 Total	7,029	6,393	6,587	6,932	3,372	3,501	2,237	6,086	3,819	5,146
1970 Total	7,022	6,388	6,721	7,090	3,452	3,823	2,558	6,119	3,726	5,218
1975 Total	6,547	5,892	6,406	6,880	2,970	3,437	2,312	6,260	4,117	4,905
1980 Total	7,071	6,477	6,975	6,836	3,378	3,964	2,494	5,554	3,539	5,080
1985 Total	6,749	5,971	6,668	7,262	2,899	3,660	2,535	6,059	3,935	4,889
1990 Total	5,987	5,252	5,780	6,137	2,307	2,942	1,968	5,391	3,603	4,180
1995 Total	6,684	6,093	6,740	6,911	2,988	3,648	2,147	5,101	3,269	4,640
2000 Total	6,625	5,999	6,315	6,500	2,905	3,551	2,153	4,971	3,460	4,494
2001 Total	6,202	5,541	5,844	6,221	2,604	3,327	2,162	5,004	3,545	4,257
2002 Total	6,234	5,550	6,128	6,485	2,664	3,443	2,292	5,197	3,510	4,356
2003 Total	6,975	6,258	6,536	6,593	2,884	3,559	2,205	4,817	3,355	4,544
2004 Total	6,709	5,892	6,178	6,329	2,715	3,291	2,041	5,010	3,346	4,344
2005 Total	6,644	5,950	6,222	6,213	2,775	3,380	1,985	4,896	3,377	4,348
2006 Total	5,885	5,211	5,703	5,821	2,475	3,211	1,802	4,915	3,557	4,040
2007 Total	6,537	5,756	6,074	6,384	2,525	3,187	2,105	4,939	3,506	4,268
2008 Total	6,434	5,782	6,677	7,118	2,712	3,600	2,125	5,233	3,566	4,494
2009 Total	6,644	5,922	6,512	6,841	2,812	3,536	2,152	5,139	3,538	4,481
2010 Total	5,934	5,553	6,185	6,565	3,167	3,948	2,449	5,082	3,624	4,463
2011 Total	6,114	5,483	6,172	6,565	2,565	3,343	2,114	5,322	3,818	4,312
2012 Total	5,561	4,970	5,356	5,515	2,306	2,876	1,650	4,574	3,411	3,769
2013 Total	6,426	5,838	6,621	7,135	2,736	3,648	2,326	5,273	3,362	4,465
2014 Total	6,675	6,203	7,194	7,304	2,951	3,932	2,422	4,744	2,774	4,550
<b>2015</b> January	1,336	1,260	1,334	1,266	643	835	623	818	R 471	890
February	1,412	1,318	1,404	1,305	666	864	498	600	334	867
March	1,101	1,002	951	802	357	445	R 279	R 484	285	584
April	588	481	454	398	131	147	55	396	295	300
May	147	100	159	215	22	37	14	268	208	119
June	84	30	45	40	1	1	0	42	26	24
July	7	4	12	12	0	0	0	24	8	6
August	8	8	24	33	0	1	0	21	13	11
September	43	27	39	50	8	13	1	78	58	32
October	R 459	391	R 365	355	143	164	42	R 247	R 111	227
November	610	529	R 604	650	R 236	R 312	218	R 686	471	445
December	R 725	625	R 775	960	R 279	401	R 357	937	619	581
<b>Total</b>	<b>R 6,521</b>	<b>R 5,775</b>	<b>R 6,166</b>	<b>6,088</b>	<b>R 2,486</b>	<b>R 3,220</b>	<b>R 2,088</b>	<b>4,600</b>	<b>2,899</b>	<b>4,086</b>
<b>2016</b> January	R 1,129	R 1,120	R 1,240	R 1,304	659	857	564	R 918	R 569	R 871
February	R 958	R 902	R 958	936	R 482	R 573	R 307	R 620	340	R 627
March	755	643	R 669	654	239	323	179	R 542	R 393	449
April	606	R 516	506	424	151	R 161	62	381	R 242	309
May	R 253	R 214	222	R 208	58	R 71	17	254	179	150
June	45	22	25	28	1	0	0	42	44	21
July	4	1	3	11	0	0	0	15	19	6
August	5	1	5	17	0	0	0	31	12	6
September	R 69	37	R 40	75	2	5	1	115	65	39
October	R 390	R 317	R 284	305	R 91	R 89	22	265	R 198	197
November	672	609	R 581	569	289	339	154	R 512	R 331	R 418
December	R 1,055	R 977	R 1,166	R 1,258	479	672	R 444	926	R 626	R 783
<b>Total</b>	<b>R 5,941</b>	<b>R 5,358</b>	<b>R 5,699</b>	<b>R 5,787</b>	<b>2,451</b>	<b>R 3,092</b>	<b>R 1,750</b>	<b>R 4,620</b>	<b>R 3,019</b>	<b>R 3,877</b>
<b>2017</b> January	R 1,041	R 973	R 1,081	R 1,212	477	R 578	417	R 960	R 667	R 767
February	908	782	776	817	324	410	209	627	497	548
<b>2-Month Total</b>	<b>1,948</b>	<b>1,754</b>	<b>1,857</b>	<b>2,029</b>	<b>801</b>	<b>988</b>	<b>626</b>	<b>1,588</b>	<b>1,164</b>	<b>1,315</b>
<b>2016 2-Month Total</b>	<b>2,087</b>	<b>2,021</b>	<b>2,198</b>	<b>2,240</b>	<b>1,141</b>	<b>1,431</b>	<b>871</b>	<b>1,538</b>	<b>909</b>	<b>1,498</b>
<b>2015 2-Month Total</b>	<b>2,748</b>	<b>2,578</b>	<b>2,738</b>	<b>2,572</b>	<b>1,309</b>	<b>1,698</b>	<b>1,121</b>	<b>1,418</b>	<b>805</b>	<b>1,757</b>

<sup>a</sup> Connecticut, Maine, Massachusetts, New Hampshire, Rhode Island, and Vermont.

<sup>b</sup> New Jersey, New York, and Pennsylvania.

<sup>c</sup> Illinois, Indiana, Michigan, Ohio, and Wisconsin.

<sup>d</sup> Iowa, Kansas, Minnesota, Missouri, Nebraska, North Dakota, and South Dakota.

<sup>e</sup> Delaware, Florida, Georgia, Maryland (and the District of Columbia), North Carolina, South Carolina, Virginia, and West Virginia.

<sup>f</sup> Alabama, Kentucky, Mississippi, and Tennessee.

<sup>g</sup> Arkansas, Louisiana, Oklahoma, and Texas.

<sup>h</sup> Arizona, Colorado, Idaho, Montana, Nevada, New Mexico, Utah, and Wyoming.

<sup>i</sup> Alaska, California, Hawaii, Oregon, and Washington.

R=Revised.

Notes: • Degree days are relative measurements of outdoor air temperature used as an index for heating and cooling energy requirements. Heating degree days are the number of degrees that the daily average temperature falls below 65 degrees Fahrenheit (°F). Cooling degree days are the number of degrees that the

daily average temperature rises above 65°F. The daily average temperature is the mean of the maximum and minimum temperatures in a 24-hour period. For example, a weather station recording an average daily temperature of 40°F would report 25 heating degree days for that day (and 0 cooling degree days). If a weather station recorded an average daily temperature of 78°F, cooling degree days for that station would be 13 (and 0 heating degree days). • Totals may not equal sum of components due to independent rounding. • Geographic coverage is the 50 states and the District of Columbia.

Web Page: See <http://www.eia.gov/totalenergy/data/monthly/#summary> (Excel and CSV files) for all available annual data beginning in 1949 and monthly data beginning in 1973.

Source: State-level degree day data are from U.S. Department of Commerce, National Oceanic and Atmospheric Administration, National Centers for Environmental Information. Using these state-level data, the U.S. Energy Information Administration calculates population-weighted census-division and U.S. degree day averages using state populations from the same year the degree days are measured. See methodology at [http://www.eia.gov/forecasts/steo/special/pdf/2012\\_sp\\_04.pdf](http://www.eia.gov/forecasts/steo/special/pdf/2012_sp_04.pdf).

**Table 1.10 Cooling Degree Days by Census Division**

	New England <sup>a</sup>	Middle Atlantic <sup>b</sup>	East North Central <sup>c</sup>	West North Central <sup>d</sup>	South Atlantic <sup>e</sup>	East South Central <sup>f</sup>	West South Central <sup>g</sup>	Mountain <sup>h</sup>	Pacific <sup>i</sup>	United States
1950 Total	295	401	505	647	1,414	1,420	2,282	682	629	871
1955 Total	532	761	922	1,139	1,636	1,674	2,508	780	558	1,144
1960 Total	318	487	626	871	1,583	1,532	2,367	974	796	1,000
1965 Total	310	498	618	832	1,613	1,552	2,461	780	577	979
1970 Total	423	615	747	980	1,744	1,571	2,282	971	734	1,079
1975 Total	422	584	721	937	1,791	1,440	2,162	903	597	1,049
1980 Total	438	680	769	1,158	1,911	1,754	2,651	1,071	653	1,214
1985 Total	324	509	602	780	1,878	1,522	2,519	1,095	761	1,121
1990 Total	429	562	602	913	2,054	1,563	2,526	1,212	838	1,200
1995 Total	471	704	877	928	2,028	1,613	2,398	1,213	794	1,261
2000 Total	279	458	632	983	1,925	1,674	2,775	1,480	772	1,232
2001 Total	464	623	722	994	1,897	1,478	2,543	1,508	861	1,255
2002 Total	508	772	899	1,045	2,182	1,757	2,515	1,467	783	1,363
2003 Total	475	615	619	907	1,980	1,452	2,496	1,553	978	1,268
2004 Total	368	591	585	722	2,038	1,517	2,482	1,290	828	1,217
2005 Total	598	892	944	1,063	2,098	1,676	2,647	1,372	777	1,388
2006 Total	485	693	734	1,034	2,053	1,648	2,786	1,466	922	1,360
2007 Total	447	694	881	1,102	2,219	1,892	2,475	1,564	828	1,392
2008 Total	462	667	683	818	1,993	1,537	2,501	1,385	918	1,282
2009 Total	350	524	534	698	2,029	1,479	2,590	1,393	894	1,241
2010 Total	635	908	964	1,096	2,269	1,977	2,757	1,358	674	1,456
2011 Total	554	836	859	1,074	2,259	1,727	3,112	1,450	736	1,470
2012 Total	565	815	974	1,221	2,162	1,762	2,915	1,573	917	1,495
2013 Total	540	683	690	892	2,000	1,441	2,536	1,462	892	1,306
2014 Total	420	596	610	814	2,009	1,493	2,474	1,431	1,068	1,299
2015 January	0	0	0	0	34	3	5	2	10	9
February	0	0	0	0	19	0	6	11	13	7
March	0	0	0	3	84	21	39	32	27	29
April	0	0	1	8	131	52	141	40	23	53
May	31	72	82	R 56	242	175	260	75	28	126
June	40	R 115	139	203	394	353	R 454	313	176	255
July	193	R 251	202	289	456	443	R 585	325	218	336
August	206	230	R 169	202	R 410	340	561	362	262	R 315
September	R 86	136	128	168	296	R 236	424	231	193	223
October	0	1	7	13	135	59	188	84	R 98	77
November	0	0	0	0	103	16	52	3	12	30
December	0	1	2	0	100	24	25	0	10	26
Total	R 555	805	R 729	942	R 2,405	R 1,721	R 2,740	1,479	R 1,068	R 1,488
2016 January	0	0	0	0	R 24	2	9	0	8	7
February	0	0	0	0	24	4	26	10	15	11
March	0	0	R 3	9	89	36	R 86	24	13	35
April	0	0	1	8	R 87	38	122	R 42	27	R 42
May	7	17	42	R 48	R 185	R 124	R 238	R 90	38	R 97
June	R 72	R 129	187	263	R 379	372	475	R 332	166	271
July	R 242	R 308	277	306	R 508	475	R 620	R 409	236	384
August	R 239	R 310	R 297	R 268	R 484	461	R 550	R 306	R 234	362
September	R 60	115	131	138	353	R 320	R 430	175	R 123	220
October	0	R 5	19	28	R 157	R 113	232	R 99	48	87
November	0	0	0	2	R 56	12	80	R 14	17	26
December	0	0	0	0	R 65	4	17	0	8	17
Total	R 620	R 885	R 958	R 1,071	R 2,412	R 1,961	R 2,885	R 1,501	R 933	R 1,559
2017 January	0	0	0	0	50	20	R 36	0	7	17
February	0	0	0	3	54	18	67	5	7	22
2-Month Total	0	0	0	3	104	38	102	5	14	38
2016 2-Month Total	0	0	0	0	48	6	36	10	23	19
2015 2-Month Total	0	0	0	0	53	3	11	13	23	16

<sup>a</sup> Connecticut, Maine, Massachusetts, New Hampshire, Rhode Island, and Vermont.

<sup>b</sup> New Jersey, New York, and Pennsylvania.

<sup>c</sup> Illinois, Indiana, Michigan, Ohio, and Wisconsin.

<sup>d</sup> Iowa, Kansas, Minnesota, Missouri, Nebraska, North Dakota, and South Dakota.

<sup>e</sup> Delaware, Florida, Georgia, Maryland (and the District of Columbia), North Carolina, South Carolina, Virginia, and West Virginia.

<sup>f</sup> Alabama, Kentucky, Mississippi, and Tennessee.

<sup>g</sup> Arkansas, Louisiana, Oklahoma, and Texas.

<sup>h</sup> Arizona, Colorado, Idaho, Montana, Nevada, New Mexico, Utah, and Wyoming.

<sup>i</sup> Alaska, California, Hawaii, Oregon, and Washington.

R=Revised.

Notes: • Degree days are relative measurements of outdoor air temperature used as an index for heating and cooling energy requirements. Cooling degree days are the number of degrees that the daily average temperature rises above 65 degrees Fahrenheit (°F). Heating degree days are the number of degrees that the

daily average temperature falls below 65°F. The daily average temperature is the mean of the maximum and minimum temperatures in a 24-hour period. For example, if a weather station recorded an average daily temperature of 78°F, cooling degree days for that station would be 13 (and 0 heating degree days). A weather station recording an average daily temperature of 40°F would report 25 heating degree days for that day (and 0 cooling degree days).

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

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

Web Page: See <http://www.eia.gov/totalenergy/data/monthly/#summary> (Excel and CSV files) for all available annual data beginning in 1949 and monthly data beginning in 1973.

Source: State-level degree day data are from U.S. Department of Commerce, National Oceanic and Atmospheric Administration, National Centers for Environmental Information. Using these state-level data, the U.S. Energy Information Administration calculates population-weighted census-division and U.S. degree day averages using state populations from the same year the degree days are measured. See methodology at [http://www.eia.gov/forecasts/steo/special/pdf/2012\\_sp\\_04.pdf](http://www.eia.gov/forecasts/steo/special/pdf/2012_sp_04.pdf).

## Energy Overview

**Note. Merchandise Trade Value.** Imports data presented are based on the customs values. Those values do not include insurance and freight and are consequently lower than the cost, insurance, and freight (CIF) values, which are also reported by the Bureau of the Census. All exports data, and imports data through 1980, are on a free alongside ship (f.a.s.) basis.

“Balance” is exports minus imports; a positive balance indicates a surplus trade value and a negative balance indicates a deficit trade value. “Energy” includes mineral fuels, lubricants, and related material. “Non-Energy Balance” and “Total Merchandise” include foreign exports (i.e., re-exports) and nonmonetary gold and U.S. Department of Defense Grant-Aid shipments. The “Non-Energy Balance” is calculated by subtracting the “Energy” from the “Total Merchandise Balance.”

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

### Table 1.2 Sources

#### Coal

1949–1988: Coal production data from Table 6.1 are converted to Btu by multiplying by the coal production heat content factors in Table A5.

1989 forward: Coal production data from Table 6.1 are converted to Btu by multiplying by the coal production heat content factors in Table A5. Waste coal supplied data from Table 6.1 are converted to Btu by multiplying by the waste coal supplied heat content factors in Table A5. Coal production (including waste coal supplied) is equal to coal production plus waste coal supplied.

#### Natural Gas (Dry)

1949 forward: Natural gas (dry) production data from Table 4.1 are converted to Btu by multiplying by the natural gas (dry) production heat content factors in Table A4.

#### Crude Oil

1949 forward: Crude oil (including lease condensate) production data from Table 3.1 are converted to Btu by multiplying by the crude oil (including lease condensate) production heat content factors in Table A2.

#### NGPL

1949 forward: Natural gas plant liquids (NGPL) production data from Table 3.1 are converted to Btu by multiplying by the NGPL production heat content factors in Table A2.

#### Fossil Fuels Total

1949 forward: Total fossil fuels production is the sum of the production values for coal, natural gas (dry), crude oil, and NGPL.

#### Nuclear Electric Power

1949 forward: Nuclear electricity net generation data from Table 7.2a are converted to Btu by multiplying by the nuclear heat rate factors in Table A6.

#### Renewable Energy

1949 forward: Table 10.1.

#### Total Primary Energy Production

1949 forward: Total primary energy production is the sum of the production values for fossil fuels, nuclear electric power, and renewable energy.

### Table 1.3 Sources

#### Coal

1949 forward: Coal consumption data from Table 6.1 are converted to Btu by multiplying by the total coal consumption heat content factors in Table A5.

#### Natural Gas

1949–1979: Natural gas (including supplemental gaseous fuels) consumption data from Table 4.1 are converted to Btu by multiplying by the total natural gas consumption heat content factors in Table A4.

1980 forward: Natural gas (including supplemental gaseous fuels) consumption data from Table 4.1 are converted to Btu by multiplying by the total natural gas consumption heat content factors in Table A4. Supplemental gaseous fuels data in Btu are estimated using the method described in Note 3, “Supplemental Gaseous Fuels,” at the end of Section 4. Natural gas (excluding supplemental gaseous fuels) consumption is equal to natural gas (including supplemental gaseous fuels) consumption minus supplemental gaseous fuels.

#### Petroleum

1949–1992: Petroleum (excluding biofuels) consumption is equal to total petroleum products supplied from Table 3.6.

1993–2008: Petroleum (excluding biofuels) consumption is equal to total petroleum products supplied from Table 3.6 minus fuel ethanol consumption from Table 10.3.

2009 forward: Petroleum (excluding biofuels) consumption is equal to: total petroleum products supplied from Table 3.6; minus fuel ethanol (minus denaturant) consumption from Table 10.3; minus refinery and blender net inputs of renewable fuels (excluding fuel ethanol) from U.S. Energy Information Administration, *Petroleum Supply Annual/Petroleum Supply Monthly*, Table 1 (for biomass-based diesel fuel, the data are converted to Btu by multiplying by the biodiesel

heat content factor in Table A1; for other renewable diesel fuel, the data are converted to Btu by multiplying by the other renewable diesel fuel heat content factor in Table A1).

### **Coal Coke Net Imports**

1949 forward: Coal coke net imports are equal to coal coke imports from Table 1.4a minus coal coke exports from Table 1.4b.

### **Fossil Fuels Total**

1949 forward: Total fossil fuels consumption is the sum of the consumption values for coal, natural gas, and petroleum, plus coal coke net imports.

### **Nuclear Electric Power**

1949 forward: Nuclear electricity net generation data from Table 7.2a are converted to Btu by multiplying by the nuclear heat rate factors in Table A6.

### **Renewable Energy**

1949 forward: Table 10.1.

### **Electricity Net Imports**

1949 forward: Electricity net imports are equal to electricity imports from Table 1.4a minus electricity exports from Table 1.4b.

### **Total Primary Energy Consumption**

1949 forward: Total primary energy consumption is the sum of the consumption values for fossil fuels, nuclear electric power, and renewable energy, plus electricity net imports.

## **Table 1.4a Sources**

### **Coal**

1949 forward: Coal imports data from Table 6.1 are converted to Btu by multiplying by the coal imports heat content factors in Table A5.

### **Coal Coke**

1949 forward: Coal coke imports data from U.S. Department of Commerce, Bureau of the Census, Monthly Report IM 145, are converted to Btu by multiplying by the coal coke imports heat content factor in Table A5.

### **Natural Gas**

1949 forward: Natural gas imports data from Table 4.1 are converted to Btu by multiplying by the natural gas imports heat content factors in Table A4.

### **Crude Oil**

1949 forward: Crude oil imports data from Table 3.3b are converted to Btu by multiplying by the crude oil imports heat content factors in Table A2.

### **Petroleum Products**

1949–1992: Petroleum products (excluding biofuels) imports are equal to total petroleum imports from Table 3.3b minus

crude oil imports from Table 3.3b; petroleum products (excluding biofuels) imports data are converted to Btu by multiplying by the total petroleum products imports heat content factors in Table A2.

1993–2008: Petroleum products (excluding biofuels) imports are equal to petroleum products (including biofuels) imports (see 1949–1992 sources above) minus fuel ethanol (minus denaturant) imports (see “Biofuels—Fuel Ethanol (Minus Denaturant)” sources below).

2009 forward: Renewable fuels (excluding fuel ethanol) imports data are from U.S. Energy Information Administration, *Petroleum Supply Annual (PSA)*, Tables 1 and 25, and *Petroleum Supply Monthly (PSM)*, Tables 1 and 37 (for biomass-based diesel fuel and other renewable fuels, the data are converted to Btu by multiplying by the biodiesel heat content factor in Table A1; for other renewable diesel fuel, the data are converted to Btu by multiplying by the other renewable diesel fuel heat content factor in Table A1). Petroleum products (excluding biofuels) imports are equal to petroleum products (including biofuels) imports (see 1949–1992 sources above) minus fuel ethanol (minus denaturant) imports (see “Biofuels—Fuel Ethanol (Minus Denaturant)” sources below) minus renewable fuels (excluding fuel ethanol) imports.

### **Total Petroleum**

1949 forward: Total petroleum imports are equal to crude oil imports plus petroleum products imports.

### **Biofuels—Fuel Ethanol (Minus Denaturant)**

1993 forward: Fuel ethanol (including denaturant) imports data are from PSA/PSM Table 1. Fuel ethanol (minus denaturant) production is equal to fuel ethanol (including denaturant) production from Table 10.3 minus denaturant from Table 10.3. Fuel ethanol (minus denaturant) imports are equal to fuel ethanol (including denaturant) imports multiplied by the ratio of fuel ethanol (minus denaturant) production to fuel ethanol (including denaturant) production. Fuel ethanol (minus denaturant) imports data are converted to Btu by multiplying by 3.539 million Btu per barrel, the undenatured ethanol heat content factor in Table A3.

### **Biofuels—Biodiesel**

2001 forward: Biodiesel imports data are from Table 10.4, and are converted to Btu by multiplying by the biodiesel heat content factor in Table A1.

### **Biofuels—Other Renewable Fuels**

2009 forward: Other renewable fuels imports data are from PSA Table 25 and PSM Table 37. For other renewable diesel fuel, the data are converted to Btu by multiplying by the other renewable diesel fuel heat content factor in Table A1; for other renewable fuels, the data are converted to Btu by multiplying by the biodiesel heat content factor in Table A1.

### **Total Biofuels**

1993–2000: Total biofuels imports are equal to fuel ethanol (minus denaturant) imports.

2001–2008: Total biofuels imports are equal to fuel ethanol (minus denaturant) imports plus biodiesel imports.

2009 forward: Total biofuels imports are the sum of imports values for fuel ethanol (minus denaturant), biodiesel, and other renewable fuels.

### **Electricity**

1949 forward: Electricity imports data from Table 7.1 are converted to Btu by multiplying by the electricity heat content factor in Table A6.

### **Total Primary Energy Imports**

1949 forward: Total primary energy imports are the sum of the imports values for coal, coal coke, natural gas, total petroleum, total biofuels, and electricity.

## **Table 1.4b Sources**

### **Coal**

1949 forward: Coal exports data from Table 6.1 are converted to Btu by multiplying by the coal exports heat content factors in Table A5.

### **Coal Coke**

1949 forward: Coal coke exports data from U.S. Department of Commerce, Bureau of the Census, Monthly Report EM 545, are converted to Btu by multiplying by the coal coke exports heat content factor in Table A5.

### **Natural Gas**

1949 forward: Natural gas exports data from Table 4.1 are converted to Btu by multiplying by the natural gas exports heat content factors in Table A4.

### **Crude Oil**

1949 forward: Crude oil exports data from Table 3.3b are converted to Btu by multiplying by the crude oil exports heat content factor in Table A2.

### **Petroleum Products**

1949–2009: Petroleum products (excluding biofuels) exports are equal to total petroleum exports from Table 3.3b minus crude oil exports from Table 3.3b; petroleum products (excluding biofuels) exports data are converted to Btu by multiplying by the total petroleum products exports heat content factors in Table A2.

2010: Petroleum products (including biofuels) exports are equal to total petroleum exports from Table 3.3b minus crude oil exports from Table 3.3b; petroleum products (including biofuels) exports data are converted to Btu by multiplying by the total petroleum products exports heat content factors in Table A2. Petroleum products (excluding biofuels) exports are equal to petroleum products (including biofuels) exports minus fuel ethanol (minus denaturant) exports (see “Biofuels—Fuel Ethanol (Minus Denaturant)” sources below). 2011 forward: Biomass-based diesel fuel exports data are from U.S. Energy Information Administration, *Petroleum Supply Annual (PSA)*, Table 31, and *Petroleum Supply Monthly (PSM)*, Table 49, and are converted to Btu by

multiplying by the biodiesel heat content factor in Table A1. Petroleum products (excluding biofuels) exports are equal to petroleum products (including biofuels) exports (see 2010 sources above) minus fuel ethanol (minus denaturant) exports (see “Biofuels—Fuel Ethanol (Minus Denaturant)” sources below) minus biomass-based diesel fuel exports.

### **Total Petroleum**

1949 forward: Total petroleum exports are equal to crude oil exports plus petroleum products exports.

### **Biofuels—Fuel Ethanol (Minus Denaturant)**

2010 forward: Fuel ethanol (including denaturant) exports data are from PSA/PSM Table 1. Fuel ethanol (minus denaturant) production is equal to fuel ethanol (including denaturant) production from Table 10.3 minus denaturant from Table 10.3. Fuel ethanol (minus denaturant) exports are equal to fuel ethanol (including denaturant) exports multiplied by the ratio of fuel ethanol (minus denaturant) production to fuel ethanol (including denaturant) production. Fuel ethanol (minus denaturant) exports are converted to Btu by multiplying by 3.539 million Btu per barrel, the undenatured ethanol heat content factor in Table A3.

### **Biofuels—Biodiesel**

2001 forward: Biodiesel exports data are from Table 10.4, and are converted to Btu by multiplying by the biodiesel heat content factor in Table A1.

### **Total Biofuels**

2001–2009: Total biofuels exports are equal to biodiesel exports.

2010 forward: Total biofuels exports are equal to fuel ethanol (minus denaturant) exports plus biodiesel exports.

### **Electricity**

1949 forward: Electricity exports data from Table 7.1 are converted to Btu by multiplying by the electricity heat content factor in Table A6.

### **Total Primary Energy Exports**

1949 forward: Total primary energy exports are the sum of the exports values for coal, coal coke, natural gas, total petroleum, total biofuels, and electricity.

### **Total Primary Energy Net Imports**

1949 forward: Total primary energy net imports are equal to total primary energy imports from Table 1.4a minus total primary energy exports.

## **Table 1.5 Sources**

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

### **Petroleum Exports**

1974–1987: “U.S. Exports,” FT-410, December issues.

1988 and 1989: “Report on U.S. Merchandise Trade,” Final Revisions.



1990–1992: “U.S. Merchandise Trade,” Final Report.  
1993–2009: “U.S. International Trade in Goods and Services,” Annual Revisions.  
2010–2011: “U.S. International Trade in Goods and Services,” 2012 Annual Revisions.  
2012–2014: “U.S. International Trade in Goods and Services,” 2014 Annual Revisions.  
2015 forward: “U.S. International Trade in Goods and Services,” FT-900, monthly.

#### **Petroleum Imports**

1974–1987: “U.S. Merchandise Trade,” FT-900, December issues, 1975–1988.  
1988 and 1989: “Report on U.S. Merchandise Trade,” Final Revisions.  
1990–1993: “U.S. Merchandise Trade,” Final Report.  
1994–2009: “U.S. International Trade in Goods and Services,” Annual Revisions.  
2010–2011: “U.S. International Trade in Goods and Services,” 2012 Annual Revisions.  
2012–2014: “U.S. International Trade in Goods and Services,” 2014 Annual Revisions.  
2015 forward: “U.S. International Trade in Goods and Services,” FT-900, monthly.

#### **Energy Exports and Imports**

1974–1987: U.S. merchandise trade press releases and database printouts for adjustments.  
1988: January–July, monthly FT-900 supplement, 1989 issues. August–December, monthly FT-900, 1989 issues.  
1989: Monthly FT-900, 1990 issues.  
1990–1992: “U.S. Merchandise Trade,” Final Report.  
1993–2009: “U.S. International Trade in Goods and Services,” Annual Revisions.  
2010–2011: “U.S. International Trade in Goods and Services,” 2012 Annual Revisions.  
2012–2014: “U.S. International Trade in Goods and Services,” 2014 Annual Revisions.

2015 forward: “U.S. International Trade in Goods and Services,” FT-900, monthly.

#### **Petroleum Balance**

1974 forward: The petroleum balance is calculated by the U.S. Energy Information Administration (EIA) as petroleum imports minus petroleum exports.

#### **Energy Balance**

1974 forward: The energy balance is calculated by EIA as energy imports minus energy exports.

#### **Non-Energy Balance**

1974 forward: The non-energy balance is calculated by EIA as the total merchandise balance minus the energy balance.

#### **Total Merchandise**

1974–1987: U.S. merchandise trade press releases and database printouts for adjustments.  
1988: “Report on U.S. Merchandise Trade, 1988 Final Revisions,” August 18, 1989.  
1989: “Report on U.S. Merchandise Trade, 1989 Revisions,” July 10, 1990.  
1990: “U.S. Merchandise Trade, 1990 Final Report,” May 10, 1991, and “U.S. Merchandise Trade, December 1992,” February 18, 1993, page 3.  
1991: “U.S. Merchandise Trade, 1992 Final Report,” May 12, 1993.  
1992–2009: “U.S. International Trade in Goods and Services,” Annual Revisions.  
2010–2011: “U.S. International Trade in Goods and Services,” 2012 Annual Revisions.  
2012–2014: “U.S. International Trade in Goods and Services,” 2014 Annual Revisions.  
2015 forward: “U.S. International Trade in Goods and Services,” FT-900, monthly.

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