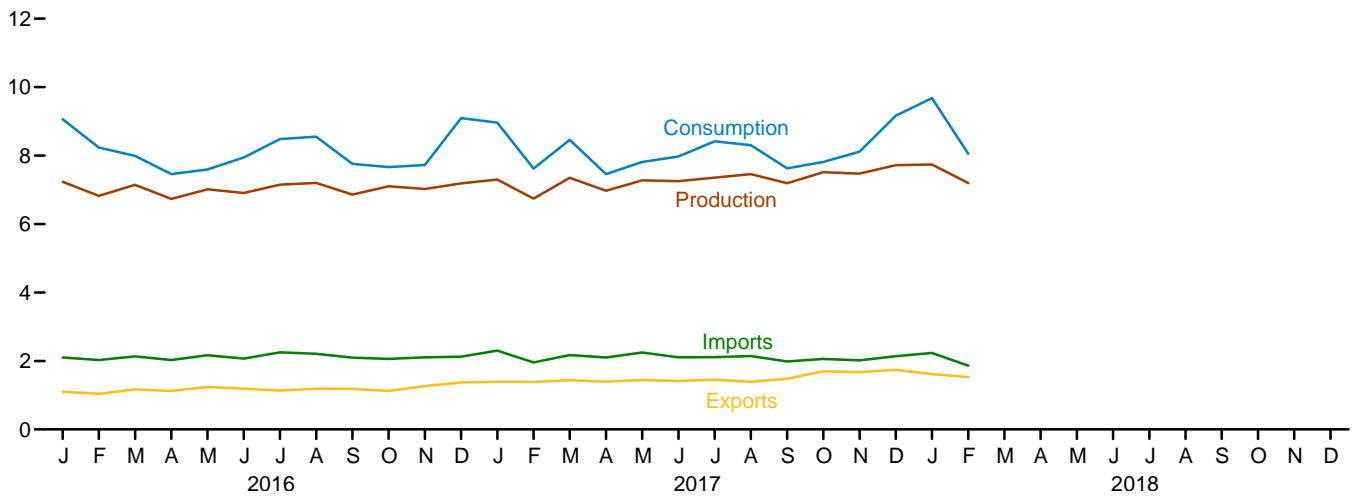
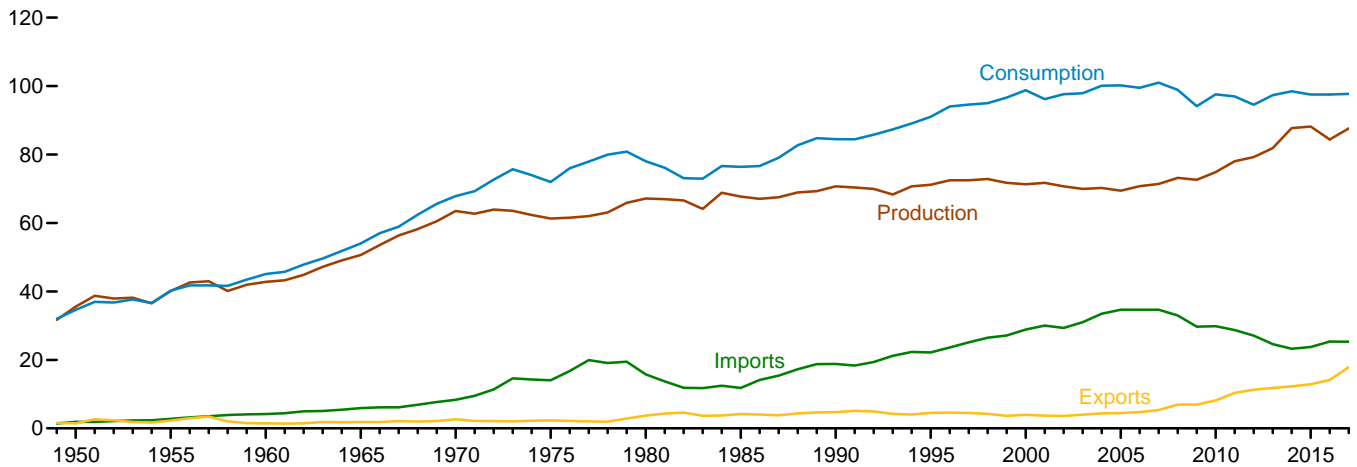


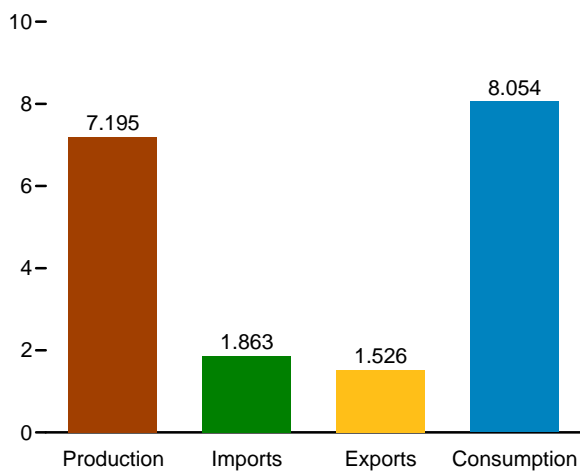
1. Energy Overview

Figure 1.1 Primary Energy Overview
(Quadrillion Btu)

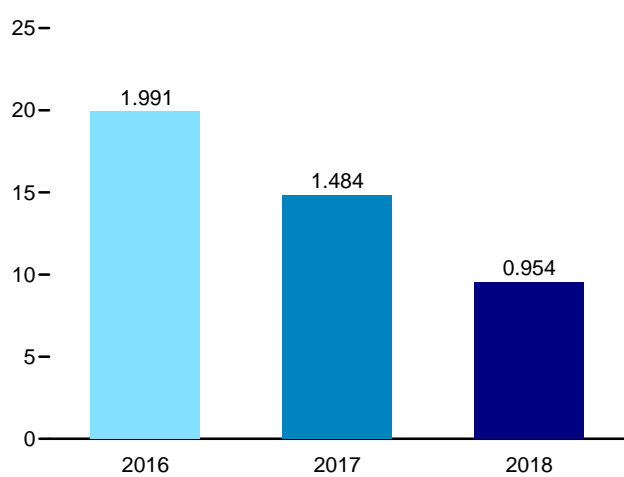
Overview, 1949–2017



Overview, February 2018



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)

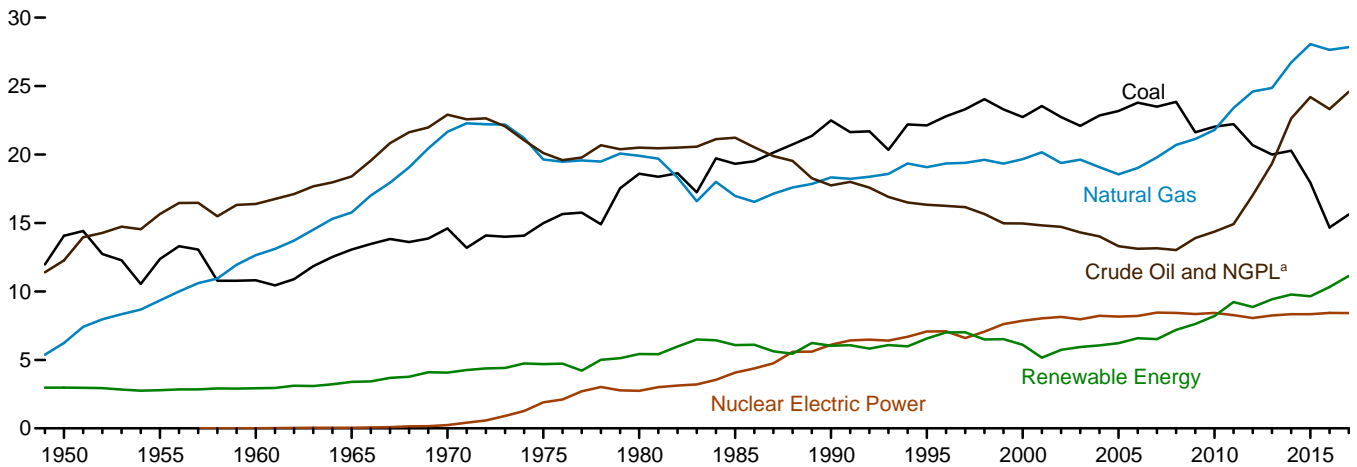
	Production				Trade			Stock Change and Other ^d	Consumption			
	Fossil Fuels ^a	Nuclear Electric Power	Renewable Energy ^b	Total	Imports	Exports	Net Imports ^c		Fossil Fuels ^e	Nuclear Electric Power	Renewable Energy ^b	Total ^f
1950 Total	32.563	0.000	2.978	35.540	1.913	1.465	0.448	-1.372	31.632	0.000	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	99.484
2007 Total	56.429	8.459	6.510	71.398	34.679	5.338	29.341	-.276	85.927	8.459	6.523	101.015
2008 Total	57.583	8.426	7.191	73.200	32.970	6.949	26.021	-.331	83.178	8.426	7.174	98.891
2009 Total	56.660	8.355	7.620	72.636	29.690	6.920	22.770	-1.288	78.042	8.355	7.604	94.118
2010 Total	58.216	8.434	8.212	74.863	29.866	8.176	21.690	1.027	80.891	8.434	8.166	97.580
2011 Total	60.543	8.269	9.224	78.036	28.748	10.373	18.375	R .565	R 79.452	8.269	9.128	96.976
2012 Total	62.324	8.062	8.866	79.251	27.068	11.267	15.801	R -.517	R 77.483	8.062	8.829	94.535
2013 Total	64.199	8.244	9.426	81.869	24.623	11.788	12.835	2.636	79.446	8.244	9.452	97.340
2014 Total	69.631	8.338	9.774	87.743	23.241	12.270	10.971	R -.223	R 80.234	8.338	9.738	R 98.491
2015 Total	70.213	8.337	9.650	88.200	23.794	12.902	10.892	-1.566	79.328	8.337	9.634	97.526
2016 January	5.609	.759	.867	7.234	2.102	1.100	1.003	.826	7.437	.759	.848	9.063
February	5.277	.687	.857	6.821	2.026	1.038	.988	.428	6.687	.687	.848	8.237
March	5.522	.692	.933	7.147	2.135	1.168	.967	-.122	6.359	.692	.924	7.991
April	5.195	.656	.883	6.734	2.026	1.123	.902	-.179	5.911	.656	.877	7.457
May	5.426	.696	.894	7.016	2.165	1.243	.921	-.344	5.990	.696	.891	7.593
June	5.356	.703	.850	6.909	2.070	1.191	.879	.156	6.377	.703	.845	7.944
July	5.551	.736	.862	7.149	2.253	1.132	1.121	.213	6.863	.736	.863	8.483
August	5.640	.748	.814	7.202	2.210	1.188	1.023	.327	6.969	.748	.813	8.551
September	5.395	.685	.780	6.860	2.097	1.186	.911	-.012	6.282	.685	.780	7.760
October	5.643	.635	.827	7.105	2.057	1.125	.932	-.375	6.189	.635	.822	7.662
November	5.516	.682	.827	7.025	2.104	1.264	.841	-.139	6.202	.682	.825	7.727
December	5.506	.750	.933	7.188	2.123	1.372	.751	1.154	7.404	.750	.924	9.093
Total	65.635	8.427	10.328	84.390	25.368	14.130	11.238	1.933	78.669	8.427	10.260	97.561
2017 January	5.604	.765	.932	7.300	2.302	1.392	.910	.755	7.277	.765	.907	8.965
February	R 5.201	.665	.877	R 6.743	1.959	1.385	.573	R .305	6.084	.665	.861	7.622
March	R 5.639	.681	1.030	R 7.349	2.171	1.440	.731	R -.378	6.748	.681	1.017	8.458
April	R 5.385	.593	.995	R 6.974	2.100	1.394	.706	R -.222	5.860	.593	.990	7.458
May	R 5.614	.641	1.022	R 7.278	2.248	1.444	.804	R -.266	6.139	.641	1.020	7.815
June	R 5.572	.701	.980	R 7.253	2.104	1.414	.690	R .029	6.274	.701	.981	7.972
July	R 5.700	.746	.908	R 7.354	2.111	1.450	.662	R .401	6.750	.746	.905	8.416
August	R 5.850	.757	.850	R 7.458	2.144	R 1.390	.754	R .092	6.685	.757	.844	8.303
September	R 5.646	.712	.833	R 7.192	1.986	1.479	.508	R -.072	6.077	.712	.825	7.628
October	R 5.926	.690	.897	R 7.513	2.058	1.699	.359	R -.060	6.222	.690	.888	7.813
November	R 5.887	.697	.889	R 7.473	2.016	1.672	.344	R .297	6.528	.697	.874	8.114
December	R 6.028	.771	.922	R 7.721	2.138	1.741	.396	R 1.047	7.475	.771	.903	R 9.164
Total	R 68.052	8.419	11.137	R 87.607	25.336	17.899	7.437	R 2.684	78.120	8.419	11.016	97.728
2018 January	R 5.973	.781	.985	R 7.738	2.231	R 1.614	R .617	R 1.323	7.912	.781	.970	9.678
February	5.584	.678	.933	7.195	1.863	1.526	.338	.522	6.455	.678	.908	8.054
2-Month Total	11.557	1.458	1.918	14.933	4.094	3.140	.954	1.844	14.367	1.458	1.878	17.732
2017 2-Month Total	10.805	1.430	1.808	14.043	4.261	2.777	1.484	1.060	13.361	1.430	1.768	16.587
2016 2-Month Total	10.886	1.445	1.724	14.055	4.129	2.138	1.991	1.254	14.123	1.445	1.696	17.299

^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.

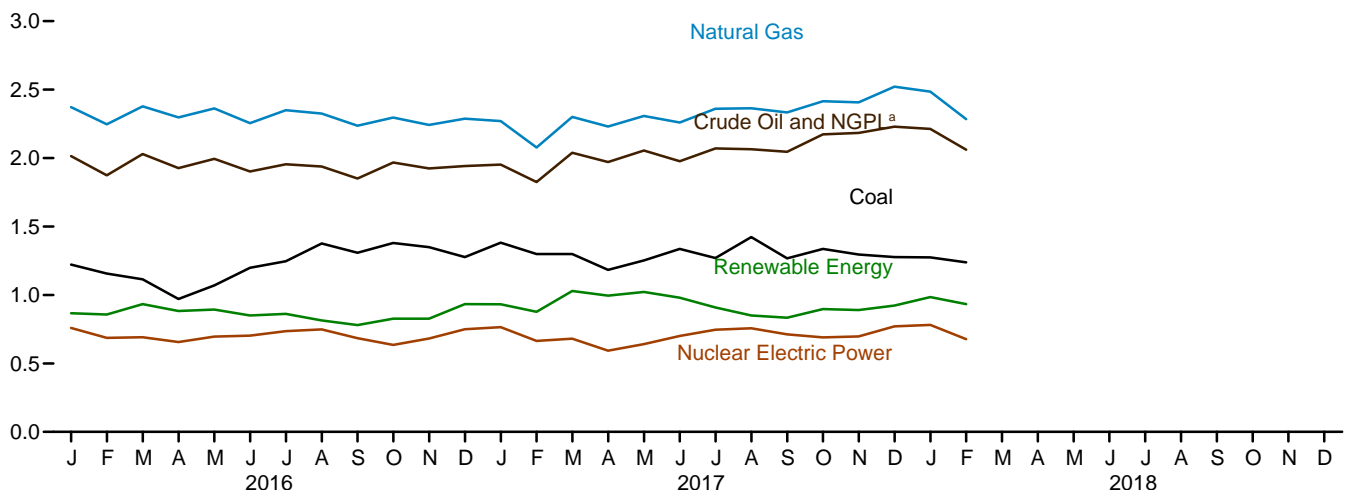
Notes: • See "Primary Energy," "Primary Energy Production," and "Primary Energy Consumption," in Glossary. • Totals may not equal sum of components due to independent rounding. • Geographic coverage is the 50 states and the District of Columbia.
Web Page: See <http://www.eia.gov/totalenergy/data/monthly/#summary> (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)

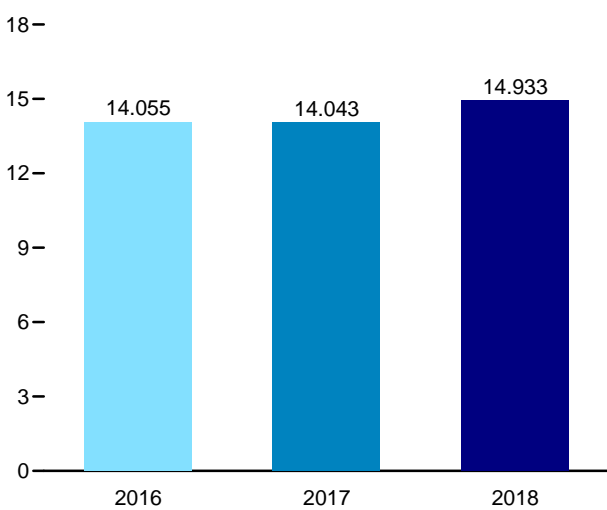
By Source, 1949–2017



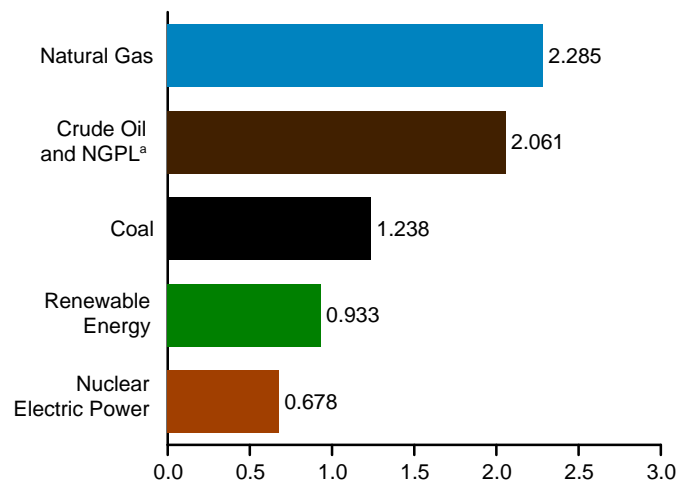
By Source, Monthly



Total, January–February



By Source, February 2018



^a 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 ^a						Total
	Coal ^b	Natural Gas (Dry)	Crude Oil ^c	NGPL ^d	Total		Hydro-electric Power ^e	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	10.741	2.409	56.429	8.459	2.446	.186	.065	.341	3.472	6.510	71.398
2008 Total	23.851	20.703	10.609	2.419	57.583	8.426	2.511	.192	.074	.546	3.868	7.191	73.200
2009 Total	21.624	21.139	11.323	2.574	56.660	8.355	2.669	.200	.078	.721	3.953	7.620	72.636
2010 Total	22.038	21.806	11.591	2.781	58.216	8.434	2.539	.208	.090	.923	4.452	8.212	74.863
2011 Total	22.221	23.406	11.946	2.970	60.543	8.269	3.103	.212	.111	1.168	4.630	9.224	78.036
2012 Total	20.677	24.610	13.791	3.246	62.324	8.062	2.629	.212	.157	1.340	4.529	8.866	79.251
2013 Total	20.001	24.859	15.806	3.532	64.199	8.244	2.562	.214	.225	1.601	4.824	9.426	81.869
2014 Total	20.286	26.718	18.531	4.096	69.631	8.338	2.467	.214	.337	1.728	5.029	9.774	87.743
2015 Total	17.946	28.067	19.632	4.567	70.213	8.337	2.321	.212	.426	1.777	4.914	9.650	88.200
2016 January	1.222	2.372	1.630	.385	5.609	.759	.236	.018	.026	.170	.417	.867	7.234
February	1.156	2.247	1.511	.363	5.277	.687	.223	.017	.035	.186	.396	.857	6.821
March	1.115	2.377	1.620	.409	5.522	.692	.253	.018	.043	.203	.417	.933	7.147
April	.971	2.297	1.529	.398	5.195	.656	.239	.016	.048	.192	.388	.883	6.734
May	1.069	2.363	1.571	.423	5.426	.696	.235	.018	.055	.174	.411	.894	7.016
June	1.198	2.255	1.494	.408	5.356	.703	.215	.017	.056	.151	.412	.850	6.909
July	1.246	2.350	1.540	.415	5.551	.736	.198	.017	.061	.163	.422	.862	7.149
August	1.376	2.325	1.546	.393	5.640	.748	.181	.018	.061	.125	.429	.814	7.202
September	1.309	2.237	1.468	.382	5.395	.685	.151	.017	.055	.151	.405	.780	6.860
October	1.379	2.296	1.559	.408	5.643	.635	.160	.018	.049	.188	.412	.827	7.105
November	1.350	2.242	1.524	.401	5.516	.682	.174	.018	.041	.179	.415	.827	7.025
December	1.276	2.288	1.556	.386	5.506	.750	.208	.019	.037	.214	.456	.933	7.188
Total	14.667	27.649	18.548	4.770	65.635	8.427	2.472	.210	.569	2.096	4.982	10.328	84.390
2017 January	1.381	RE 2.270	RE 1.566	.386	5.604	.765	.257	.018	.035	.192	.430	.932	7.300
February	1.299	RE 2.077	RE 1.451	.373	R 5.201	.665	.227	.016	.039	.205	.389	.877	R 6.743
March	1.298	RE 2.301	RE 1.621	.418	R 5.639	.681	.279	.018	.064	.241	.427	1.030	R 7.349
April	1.183	E 2.231	RE 1.568	.403	R 5.385	.593	.271	.018	.070	.238	.399	.995	R 6.974
May	1.252	E 2.308	RE 1.628	.427	R 5.614	.641	.297	.017	.082	.209	.417	1.022	R 7.278
June	1.336	E 2.260	RE 1.560	.416	R 5.572	.701	.281	.017	.087	.182	.413	.980	R 7.253
July	1.270	E 2.360	RE 1.639	.431	R 5.700	.746	.238	.018	.081	.146	.426	.908	R 7.354
August	1.422	RE 2.364	RE 1.639	.425	R 5.850	.757	.196	.018	.079	.121	.436	.850	R 7.458
September	1.267	E 2.334	RE 1.636	.410	R 5.646	.712	.175	.017	.074	.159	.407	.833	R 7.192
October	1.337	E 2.416	RE 1.718	.455	R 5.926	.690	.159	.017	.068	.229	.424	.897	R 7.513
November	1.296	E 2.407	RE 1.734	.450	R 5.887	.697	.183	.018	.047	.215	.426	.889	R 7.473
December	1.277	RE 2.522	RE 1.778	.451	R 6.028	.771	.208	.018	.046	.210	.440	.922	R 7.721
Total	15.620	E 27.848	RE 19.538	5.046	R 68.052	8.419	2.770	.211	.774	2.347	5.034	11.137	R 87.607
2018 January	1.275	RE 2.485	RE 1.775	.439	R 5.973	.781	.235	.018	.049	.248	.436	.985	R 7.738
February	1.238	E 2.285	E 1.644	.417	5.584	.678	.236	.017	.057	.221	.401	.933	7.195
2-Month Total	2.513	E 4.769	E 3.419	.855	11.557	1.458	.471	.035	.106	.469	.837	1.918	14.933
2017 2-Month Total	2.681	E 4.348	E 3.017	.759	10.805	1.430	.484	.035	.074	.397	.819	1.808	14.043
2016 2-Month Total	2.378	4.619	3.141	.748	10.886	1.445	.459	.034	.061	.356	.813	1.724	14.055

^a 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.

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

^c Includes lease condensate.

^d Natural gas plant liquids.

^e Conventional hydroelectric power.

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

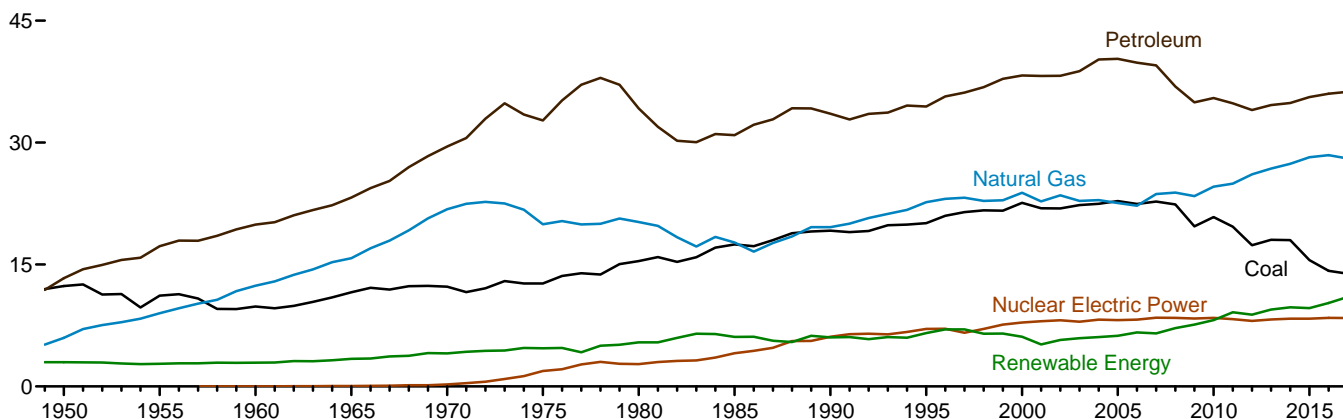
Notes: • See "Primary Energy Production" in Glossary. • Totals may not equal sum of components due to independent rounding. • Geographic coverage is the 50 states and the District of Columbia.

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.

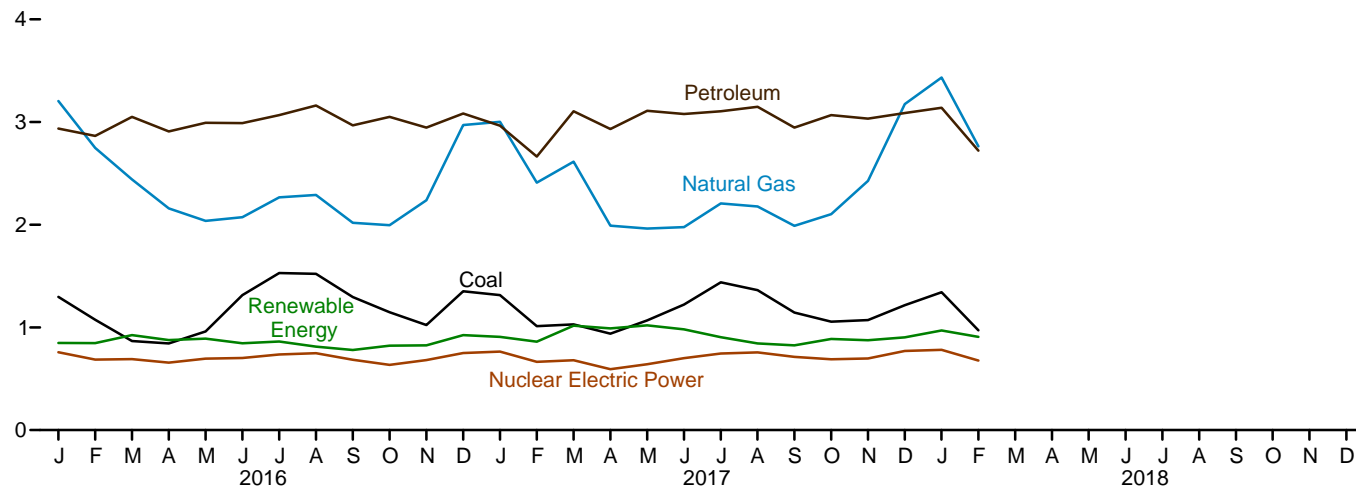
Sources: See end of section.

Figure 1.3 Primary Energy Consumption
(Quadrillion Btu)

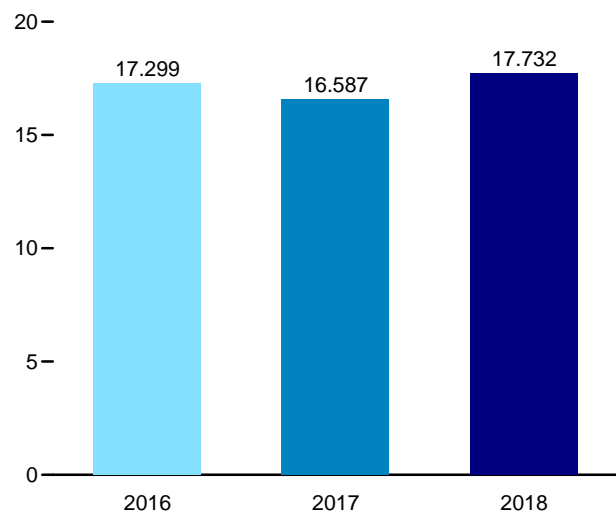
By Source,^a 1949–2017



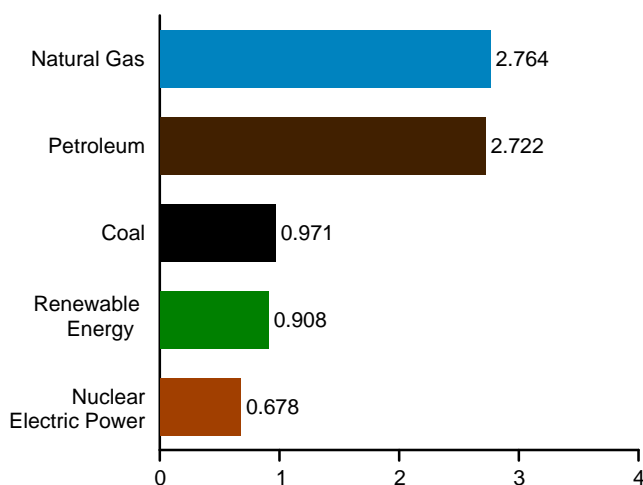
By Source,^a Monthly



Total, January–February



By Source,^a February 2018



^a 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 ^a				Nuclear Electric Power	Renewable Energy ^b						Total ^g
	Coal	Natural Gas ^c	Petroleum ^d	Total ^e		Hydroelectric Power ^f	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	99.484
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	R 35.489	80.891	8.434	2.539	.208	.090	.923	4.405	8.166	97.580
2011 Total	19.658	24.955	R 34.829	79.452	8.269	3.103	.212	.111	1.168	4.534	9.128	96.976
2012 Total	17.378	26.089	R 34.012	R 77.483	8.062	2.629	.212	.157	1.340	4.492	8.829	94.535
2013 Total	18.039	26.805	R 34.620	R 79.446	8.244	2.562	.214	.225	1.601	4.850	9.452	97.643
2014 Total	17.998	27.383	R 34.875	R 80.234	8.338	2.467	.214	.337	1.728	4.992	9.738	R 98.491
2015 Total	15.549	28.191	R 35.606	79.328	8.337	2.321	.212	.426	1.777	4.898	9.634	97.526
2016 January	1.297	3.204	2.936	7.437	.759	.236	.018	.026	.170	.398	.848	9.063
February	1.074	2.748	2.864	6.687	.687	.223	.017	.035	.186	.387	.848	8.237
March	.867	2.442	3.051	6.359	.692	.253	.018	.043	.203	.408	.924	7.991
April	.844	2.159	2.908	5.911	.656	.239	.016	.048	.192	.382	.877	7.457
May	.960	2.038	2.993	5.990	.696	.235	.018	.055	.174	.408	.891	7.593
June	1.314	2.074	2.989	6.377	.703	.215	.017	.056	.151	.407	.845	7.944
July	1.529	2.267	3.068	6.863	.736	.198	.017	.061	.163	.423	.863	8.483
August	1.521	2.290	3.161	6.969	.748	.181	.018	.061	.125	.429	.813	8.551
September	1.296	2.019	2.968	6.282	.685	.151	.017	.055	.151	.404	.780	7.760
October	1.147	1.995	3.050	6.189	.635	.160	.018	.049	.188	.407	.822	7.662
November	1.022	2.238	2.946	6.202	.682	.174	.018	.041	.179	.413	.825	7.727
December	1.352	2.971	3.083	7.404	.750	.208	.019	.037	.214	.447	.924	9.093
Total	14.226	28.445	36.017	78.669	8.427	2.472	.210	.569	2.096	4.913	10.260	97.561
2017 January	1.315	3.001	2.964	7.277	.765	.257	.018	.035	.192	.405	.907	8.965
February	1.012	2.410	2.663	6.084	.665	.227	.016	.039	.205	.374	.861	7.622
March	1.030	2.614	3.106	6.748	.681	.279	.018	.064	.241	.414	1.017	8.458
April	.939	1.990	2.932	5.860	.593	.271	.018	.070	.238	.393	.990	7.458
May	1.068	1.963	3.110	6.139	.641	.297	.017	.082	.209	.415	1.020	7.815
June	1.222	1.976	3.079	6.274	.701	.281	.017	.087	.182	.414	.981	7.972
July	1.439	2.207	3.106	6.750	.746	.238	.018	.081	.146	.423	.905	8.416
August	1.362	2.178	3.148	6.685	.757	.196	.018	.079	.121	.430	.844	8.303
September	1.145	1.989	2.946	6.077	.712	.175	.017	.074	.159	.399	.825	7.628
October	1.056	2.103	3.067	6.222	.690	.159	.017	.068	.229	.414	.888	7.813
November	1.071	2.428	3.033	6.528	.697	.183	.018	.047	.215	.411	.874	8.114
December	1.216	R 3.176	3.087	7.475	.771	.208	.018	.046	.210	.421	.903	R 9.164
Total	13.873	28.035	36.241	78.120	8.419	2.770	.211	.774	2.347	4.913	11.016	97.728
2018 January	1.343	R 3.434	3.139	7.912	.781	.235	.018	.049	.248	.421	.970	9.678
February	.971	2.764	2.722	6.455	.678	.236	.017	.057	.221	.377	.908	8.054
2-Month Total	2.313	6.198	5.860	14.367	1.458	.471	.035	.106	.469	.798	1.878	17.732
2017 2-Month Total	2.327	5.411	5.628	13.361	1.430	.484	.035	.074	.397	.779	1.768	16.587
2016 2-Month Total	2.372	5.953	5.800	14.123	1.445	.459	.034	.061	.356	.785	1.696	17.299

^a Includes non-combustion use of fossil fuels.

^b 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.

^c Natural gas only; excludes supplemental gaseous fuels. See Note 3, "Supplemental Gaseous Fuels," at end of Section 4.

^d Petroleum products supplied; excludes biofuels that have been blended with petroleum—biofuels are included in "Biomass."

^e Includes coal coke net imports. See Tables 1.4a and 1.4b.

^f Conventional hydroelectric power.

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

separately displayed. See Tables 1.4a and 1.4b.

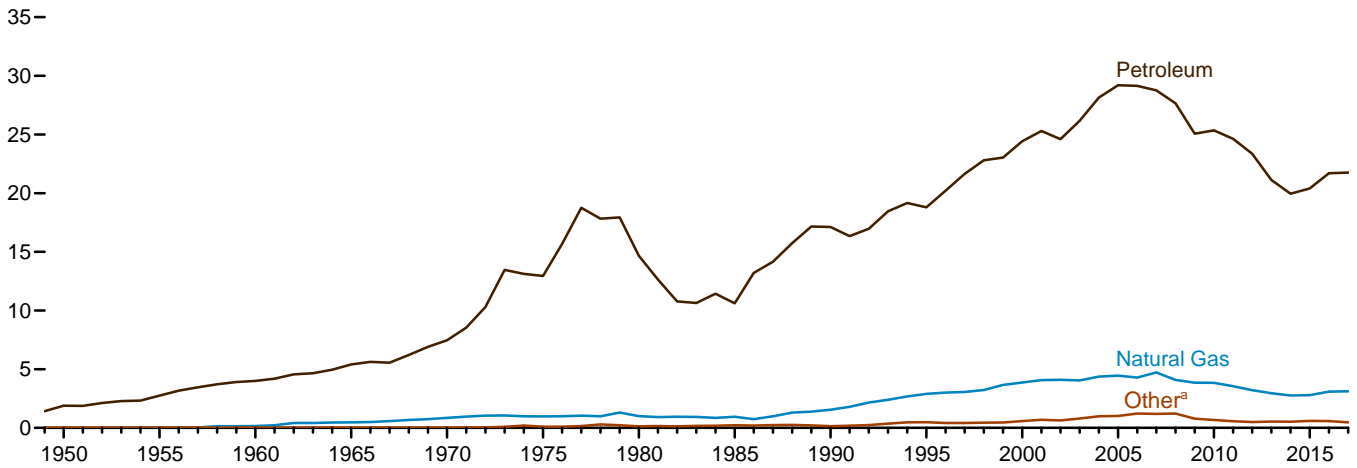
R=Revised. NA=Not available. (s)=Less than 0.5 trillion Btu.

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.

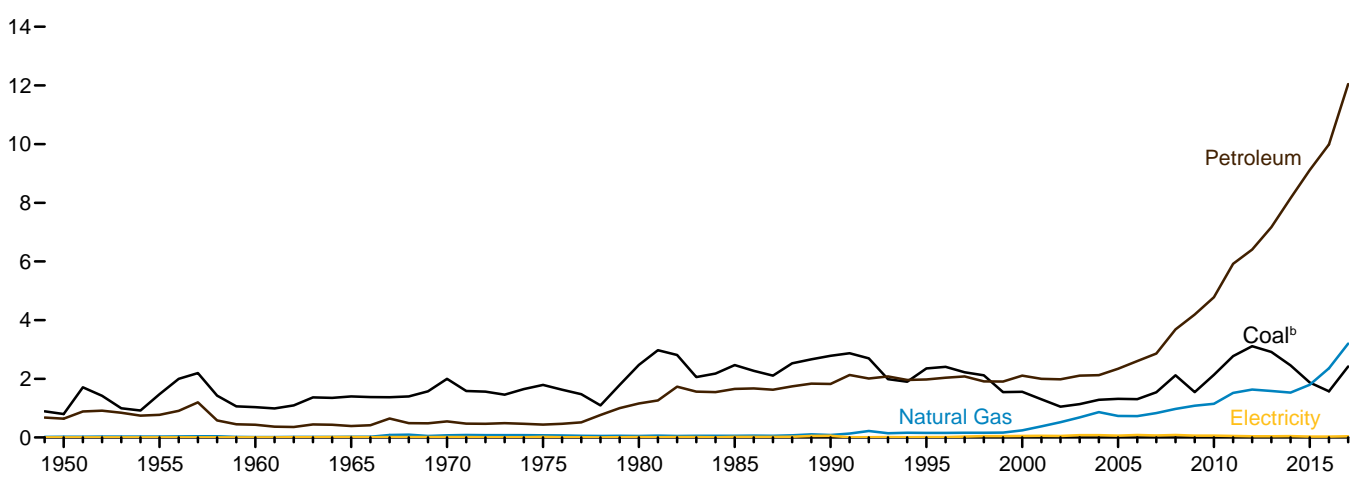
Sources: See end of section.

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

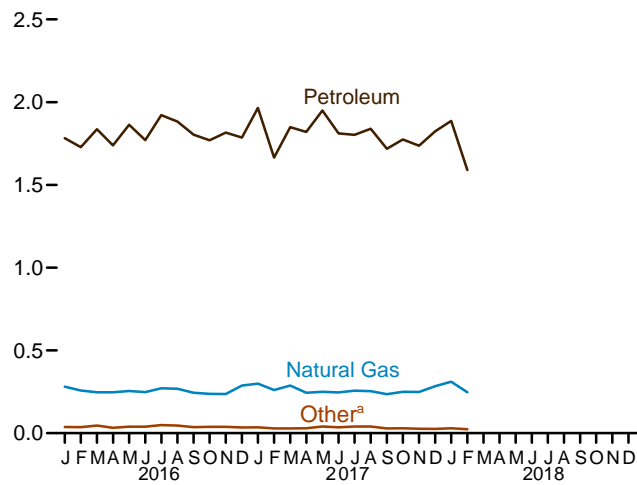
Imports by Source, 1949–2017



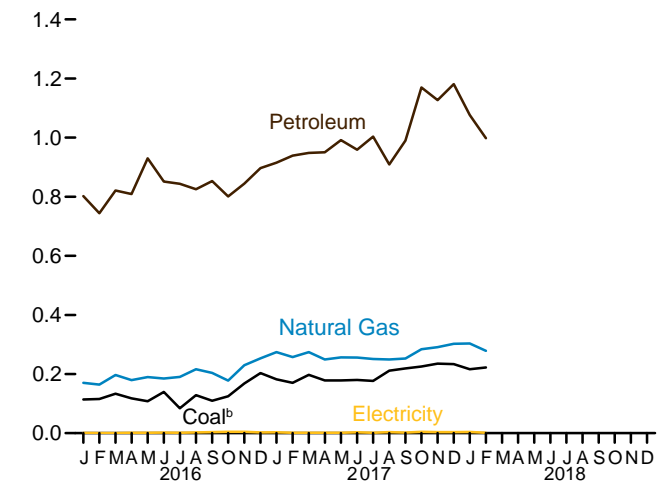
Exports by Source, 1949–2017



Imports by Source, Monthly



Exports by Major Source, Monthly



^a Coal, coal coke, biomass, and electricity.

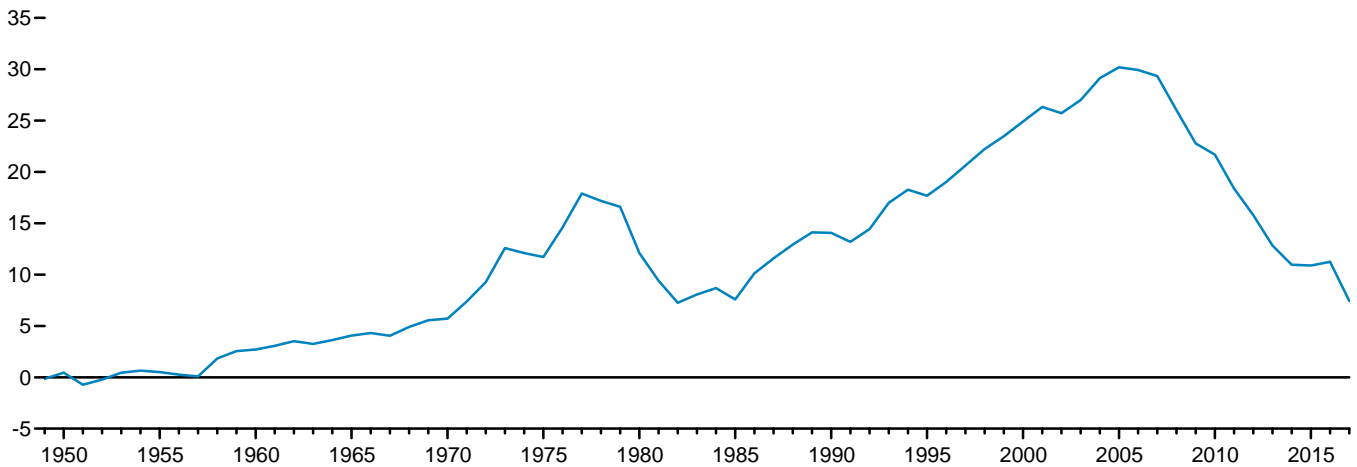
^b Includes coal coke.

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

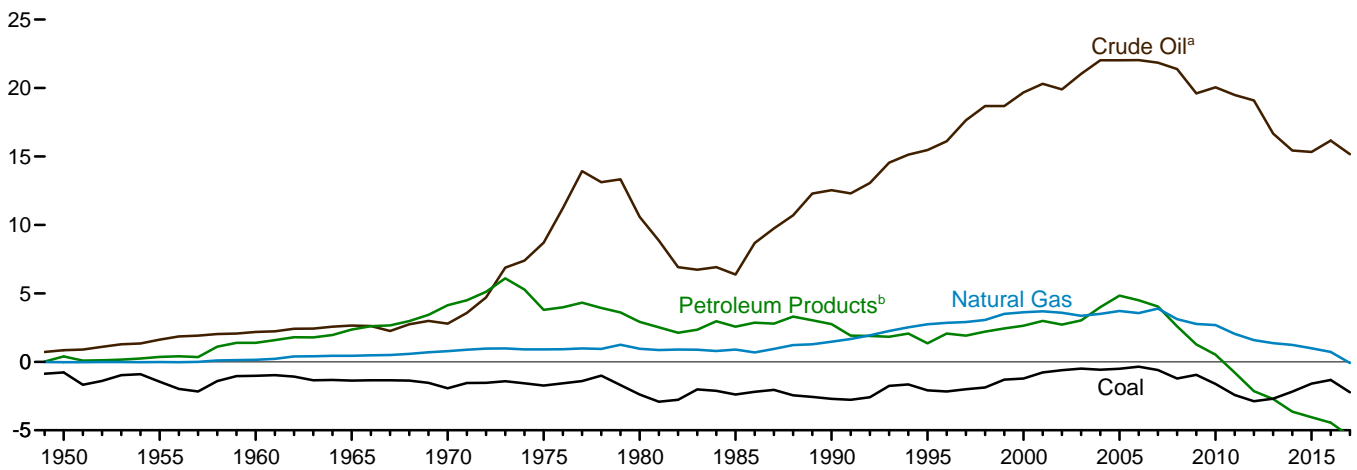
Sources: Tables 1.4a and 1.4b.

Figure 1.4b Primary Energy Net Imports
(Quadrillion Btu)

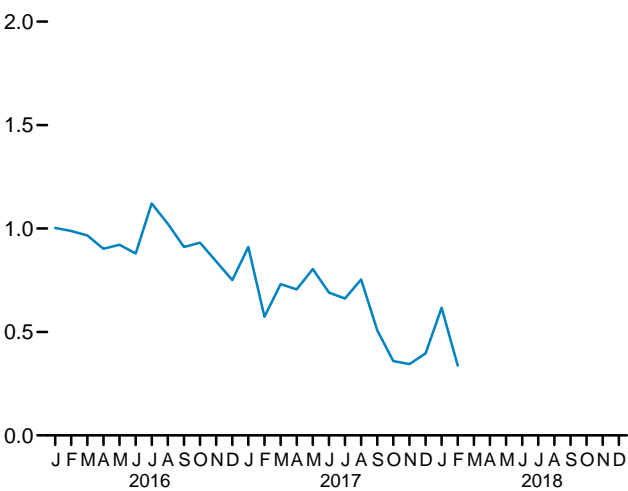
Total, 1949–2017



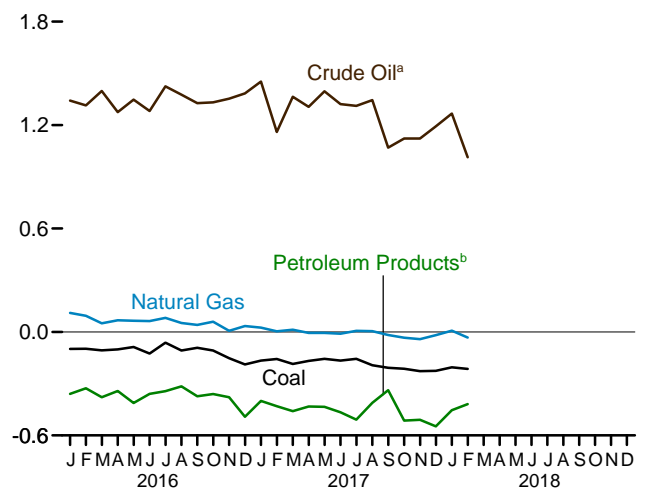
By Major Source, 1949–2017



Total, Monthly



By Major Source, Monthly



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

^b Petroleum products, unfinished oils, natural gasoline, 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			Biomass ^c	Electricity	Total
				Crude Oil ^a	Petroleum Products ^b	Total			
1950 Total	0.009	0.011	0.000	1.056	0.830	1.886	NA	0.007	1.913
1955 Total .....	.008	.003	.011	1.691	1.061	2.752	NA	.016	2.790
1960 Total .....	.007	.003	.161	2.196	1.802	3.999	NA	.018	4.188
1965 Total .....	.005	.002	.471	2.654	2.748	5.402	NA	.012	5.892
1970 Total .....	.001	.004	.846	2.814	4.656	7.470	NA	.021	8.342
1975 Total .....	.024	.045	.978	8.721	4.227	12.948	NA	.038	14.032
1980 Total .....	.030	.016	1.006	11.195	3.463	14.658	NA	.085	15.796
1985 Total .....	.049	.014	.952	6.814	3.796	10.609	NA	.157	11.781
1990 Total .....	.067	.019	1.551	12.766	4.351	17.117	NA	.063	18.817
1995 Total .....	.237	.095	2.901	15.669	3.131	18.800	.001	.146	22.180
2000 Total .....	.313	.094	3.869	19.783	4.641	24.424	(s)	.166	28.865
2001 Total .....	.495	.063	4.068	20.348	4.946	25.294	.002	.131	30.052
2002 Total .....	.422	.080	4.104	19.920	4.677	24.597	.002	.125	29.331
2003 Total .....	.626	.068	4.042	21.060	5.105	26.165	.002	.104	31.007
2004 Total .....	.682	.170	4.365	22.082	6.063	28.145	.013	.117	33.492
2005 Total .....	.762	.088	4.450	22.091	7.108	29.198	.012	.150	34.659
2006 Total .....	.906	.101	4.291	22.085	7.054	29.139	.066	.146	34.649
2007 Total .....	.909	.061	4.723	21.914	6.842	28.756	.055	.175	34.679
2008 Total .....	.855	.089	4.084	21.448	6.214	27.662	.085	.195	32.970
2009 Total .....	.566	.009	3.845	19.699	5.367	25.066	.027	.178	29.690
2010 Total .....	.484	.030	3.834	20.140	5.219	25.359	.004	.154	29.866
2011 Total .....	.327	.035	3.555	19.595	5.038	24.633	.019	.178	28.748
2012 Total .....	.212	.028	3.216	19.239	4.122	23.361	.049	.202	27.068
2013 Total .....	.199	.003	2.955	16.957	4.169	21.126	.102	.236	24.623
2014 Total .....	.252	.002	2.763	16.178	3.773	19.951	.046	.227	23.241
2015 Total .....	.256	.003	2.786	16.299	4.111	20.410	.079	.259	23.794
2016 January .....	.015	(s)	.280	1.429	.353	1.782	.003	.021	2.102
February .....	.018	(s)	.258	1.389	.339	1.728	.003	.018	2.026
March .....	.026	(s)	.247	1.503	.333	1.837	.005	.019	2.135
April .....	.017	(s)	.247	1.382	.357	1.739	.008	.015	2.026
May .....	.020	.001	.255	1.488	.376	1.864	.008	.018	2.165
June .....	.014	.002	.248	1.373	.398	1.771	.013	.022	2.070
July .....	.022	(s)	.272	1.519	.402	1.921	.012	.025	2.253
August .....	.021	(s)	.269	1.504	.379	1.883	.014	.024	2.210
September .....	.018	.002	.244	1.460	.343	1.804	.012	.017	2.097
October .....	.017	.001	.237	1.420	.350	1.770	.013	.019	2.057
November .....	.016	(s)	.237	1.457	.359	1.816	.015	.021	2.104
December .....	.015	(s)	.288	1.467	.319	1.786	.017	.018	2.123
Total .....	.220	.006	3.082	17.392	4.309	21.700	.123	.237	25.368
2017 January .....	.016	(s)	.299	1.585	.380	1.965	.003	.019	2.302
February .....	.013	(s)	.261	1.339	.326	1.665	.004	.015	1.959
March .....	.012	(s)	.288	1.512	.336	1.849	.006	.016	2.171
April .....	.011	(s)	.244	1.478	.342	1.820	.006	.019	2.100
May .....	.023	(s)	.250	1.578	.372	1.950	.008	.017	2.248
June .....	.014	.001	.246	1.457	.355	1.811	.013	.020	2.104
July .....	.021	(s)	.257	1.470	.333	1.803	.012	.019	2.111
August .....	.018	(s)	.254	1.482	.357	1.840	.011	.021	2.144
September .....	.011	(s)	.235	1.323	.395	1.718	.005	.017	1.986
October .....	.012	(s)	.250	1.430	.345	1.775	.004	.016	2.058
November .....	.008	(s)	.249	1.386	.351	1.737	.005	.017	2.016
December .....	.009	(s)	.283	1.462	.362	1.824	.004	.017	2.138
Total .....	.167	.001	3.116	17.503	4.254	21.756	.083	.213	25.336
2018 January .....	.011	(s)	.311	1.505	.381	1.886	.004	.019	2.231
February .....	.008	(s)	.247	1.272	.318	1.590	.003	.016	1.863
2-Month Total .....	.018	(s)	.558	2.777	.699	3.476	.007	.035	4.094
2017 2-Month Total .....	.029	(s)	.560	2.924	.706	3.630	.007	.034	4.261
2016 2-Month Total .....	.034	(s)	.539	2.818	.693	3.511	.006	.039	4.129

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

^b Petroleum products, unfinished oils, natural gasoline, and gasoline blending components. Does not include biofuels.

^c 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.

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

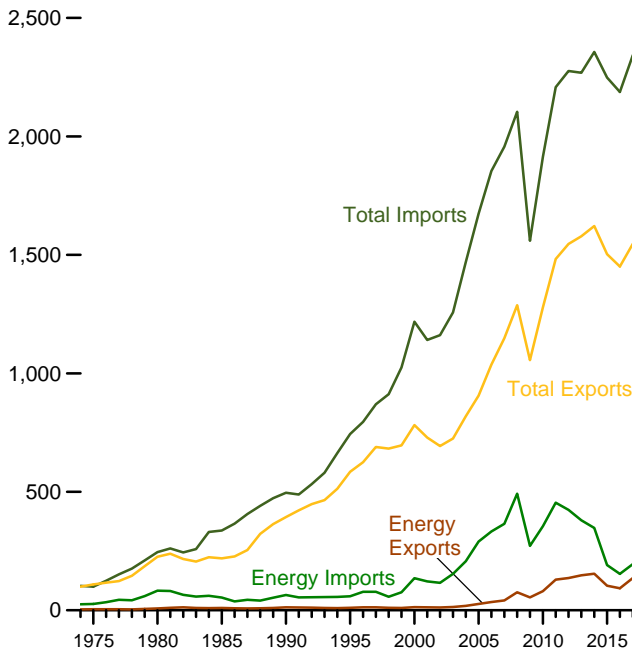
	Exports									Net Imports ^a
	Coal	Coal Coke	Natural Gas	Petroleum			Biomass ^d	Electricity	Total	
				Crude Oil ^b	Petroleum Products ^c	Total				
1950 Total	0.786	0.010	0.027	0.202	0.440	0.642	NA	0.001	1.465	0.448
1955 Total	1.465	.013	.032	.067	.707	.774	NA	.002	2.286	.504
1960 Total	1.023	.009	.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	12.311
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
2015 Total	1.852	.021	1.800	.964	8.153	9.118	.080	.031	12.902	10.892
2016 January .....	.114	.001	.170	.087	.713	.800	.013	.002	1.100	1.003
February .....	.116	(s)	.164	.075	.666	.742	.014	.002	1.038	.988
March .....	.134	.001	.197	.106	.712	.818	.016	.003	1.168	.967
April .....	.118	.001	.179	.107	.699	.807	.016	.002	1.123	.902
May .....	.108	.001	.190	.140	.788	.928	.014	.002	1.243	.921
June .....	.139	.002	.185	.091	.757	.848	.014	.003	1.191	.879
July .....	.084	.001	.190	.095	.746	.841	.012	.003	1.132	1.121
August .....	.128	.003	.216	.128	.694	.822	.015	.003	1.188	1.023
September .....	.110	.003	.204	.133	.716	.850	.016	.003	1.186	.911
October .....	.125	.004	.178	.089	.710	.799	.017	.003	1.125	.932
November .....	.168	.005	.230	.104	.738	.842	.016	.002	1.264	.841
December .....	.203	.002	.253	.083	.811	.894	.017	.003	1.372	.751
Total	1.546	.025	2.356	1.238	8.752	9.990	.181	.032	14.130	11.238
2017 January .....	.182	.003	.274	.133	.780	.912	.017	.003	1.392	.910
February .....	.170	.001	.257	.179	.757	.936	.017	.003	1.385	.573
March .....	.197	.002	.274	.148	.796	.944	.018	.004	1.440	.731
April .....	.178	.001	.249	.172	.774	.946	.015	.004	1.394	.706
May .....	.178	.001	.256	.182	.807	.989	.017	.003	1.444	.804
June .....	.180	.003	.256	.135	.820	.955	.016	.004	1.414	.690
July .....	.177	.001	.251	.159	.841	1.000	.018	.004	1.450	.662
August .....	.211	.004	.249	.137	.768	.906	.017	.004	1.390	.754
September .....	.219	.002	.253	.253	.733	.986	.015	.004	1.479	.508
October .....	.226	.005	.284	.308	.859	1.167	.015	.003	1.699	.359
November .....	.235	.003	.291	.264	.860	1.124	.015	.003	1.672	.344
December .....	.234	.003	.302	.269	.909	1.178	.021	.003	1.741	.396
Total	2.388	.030	3.196	2.340	9.704	12.044	.201	.040	17.899	7.437
2018 January .....	.216	.004	^R .304	.239	.835	1.073	.014	.003	^R 1.614	^R .617
February .....	.222	.001	.279	.258	.737	.995	.025	.003	1.526	.338
2-Month Total .....	.438	.005	.582	.496	1.572	2.068	.039	.007	3.140	.954
2017 2-Month Total .....	.352	.004	.532	.312	1.537	1.848	.034	.006	2.777	1.484
2016 2-Month Total .....	.229	.001	.334	.162	1.379	1.541	.027	.005	2.138	1.991

^a Net imports equal imports minus exports.
^b Crude oil and lease condensate.
^c Petroleum products, unfinished oils, natural gasoline, and gasoline blending components. Does not include biofuels.
^d Beginning in 2001, includes biodiesel. Beginning in 2010, also includes fuel ethanol (minus denaturant). Beginning in 2016, also includes wood and wood-derived fuels.
R=Revised. NA=Not available. (s)=Less than 0.5 trillion Btu.

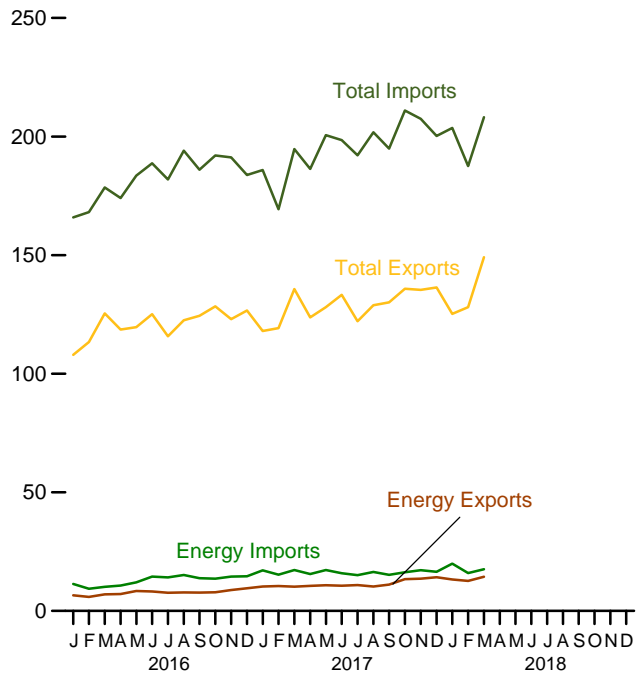
Notes: • See "Primary Energy" in Glossary. • Totals may not equal sum of components due to independent rounding. • Geographic coverage is the 50 states and the District of Columbia.
Web Page: See <http://www.eia.gov/totalenergy/data/monthly/#summary> (Excel and CSV files) for all available annual data beginning in 1949 and monthly data beginning in 1973.
Sources: See end of section.

Figure 1.5 Merchandise Trade Value
(Billion Dollars^a)

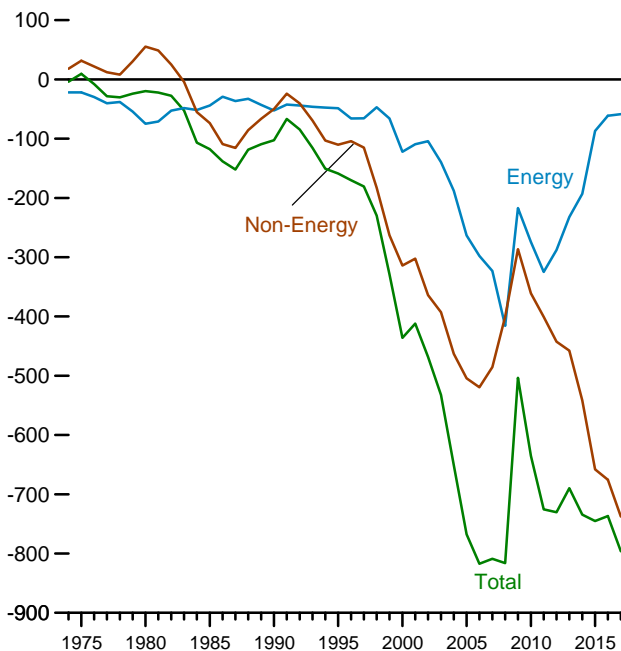
Imports and Exports, 1974–2017



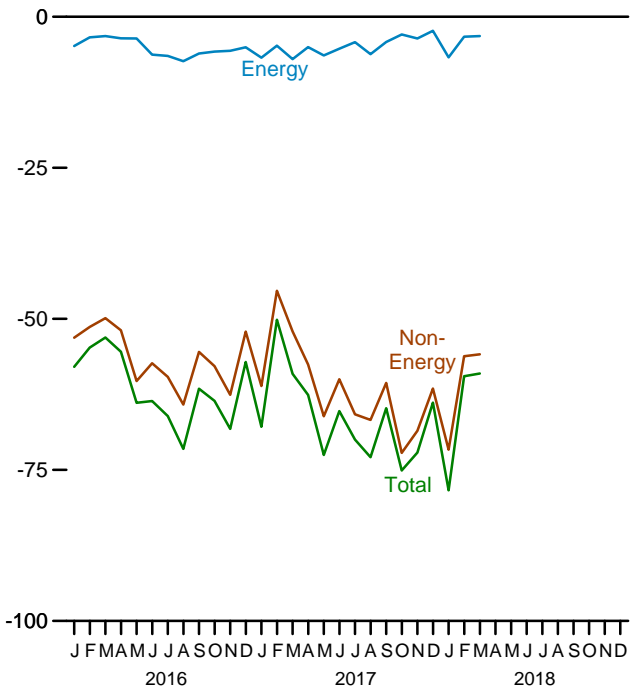
Imports and Exports, Monthly



Trade Balance, 1974–2017



Trade Balance, Monthly



^a 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^a)

	Petroleum ^b			Energy ^c			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	^b 102,180	^b 431,866	^b -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	127,818	326,709	-198,891	154,498	347,474	-192,976	-541,506	1,621,874	2,356,356	-734,482
2015 Total	85,733	177,455	-91,722	103,458	190,501	-87,043	-658,039	1,503,101	2,248,183	-745,082
2016 January	5,342	10,256	-4,914	6,549	11,380	-4,831	-53,100	107,968	165,899	-57,931
February	4,775	8,416	-3,641	5,921	9,327	-3,406	-51,348	113,363	168,117	-54,754
March	5,712	9,395	-3,683	6,970	10,164	-3,194	-49,888	125,425	178,508	-53,082
April	5,865	10,041	-4,176	7,119	10,668	-3,549	-51,902	118,645	174,096	-55,451
May	6,961	11,349	-4,388	8,412	12,013	-3,601	-60,287	119,625	183,512	-63,888
June	6,728	13,733	-7,005	8,203	14,474	-6,271	-57,339	125,098	188,708	-63,610
July	6,313	13,173	-6,860	7,665	14,151	-6,486	-59,594	115,810	181,890	-66,080
August	6,381	14,184	-7,803	7,815	15,159	-7,344	-64,173	122,529	194,046	-71,517
September	6,418	12,917	-6,499	7,740	13,827	-6,087	-55,477	124,431	185,995	-61,564
October	6,187	12,705	-6,518	7,857	13,625	-5,768	-57,815	128,440	192,023	-63,583
November	6,850	13,503	-6,653	8,818	14,445	-5,627	-62,577	123,034	191,239	-68,204
December	7,102	13,260	-6,158	9,552	14,589	-5,037	-52,093	126,642	183,772	-57,130
Total	74,636	142,933	-68,297	92,623	153,822	-61,199	-675,595	1,451,011	2,187,805	-736,794
2017 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	-45,365	119,238	189,375	-50,136
March	7,415	15,917	-8,502	10,215	17,215	-7,000	-52,086	135,663	194,750	-59,086
April	7,953	14,412	-6,459	10,537	15,558	-5,021	-57,561	123,765	186,347	-62,582
May	8,297	16,220	-7,923	10,826	17,234	-6,408	-66,118	128,052	200,577	-72,526
June	8,325	14,930	-6,605	10,593	15,866	-5,273	-59,989	133,267	198,529	-65,262
July	8,664	14,024	-5,360	10,892	15,090	-4,198	-65,792	122,120	192,110	-69,990
August	7,781	15,420	-7,639	10,272	16,457	-6,185	-66,711	128,892	201,788	-72,896
September	8,376	14,184	-5,808	11,070	15,235	-4,165	-60,617	130,112	194,895	-64,782
October	10,294	15,231	-4,937	13,366	16,281	-2,915	-72,188	135,856	210,959	-75,103
November	10,445	16,123	-5,678	13,569	17,149	-3,580	-68,536	135,370	207,486	-72,116
December	10,921	14,978	-4,057	14,174	16,488	-2,314	-61,540	136,386	200,240	-63,854
Total	103,801	181,320	-77,519	136,358	194,945	-58,587	-737,607	1,546,725	2,342,919	-796,194
2018 January	10,139	18,086	-7,947	13,231	19,944	-6,713	-71,661	125,219	203,593	-78,374
February	9,504	14,996	-5,492	12,643	15,947	-3,304	^R -56,179	^R 128,057	^R 187,540	^R -59,483
March	11,130	16,622	-5,492	14,373	17,567	-3,194	-55,853	149,083	208,129	-59,047
3-Month Total	30,773	49,704	-18,931	40,247	53,458	-13,211	-183,693	402,359	599,262	-196,904
2017 3-Month Total	22,745	45,797	-23,051	31,059	49,586	-18,527	-158,555	372,905	549,988	-177,083
2016 3-Month Total	15,829	28,067	-12,238	19,440	30,871	-11,431	-154,336	346,756	512,524	-165,768

^a Prices are not adjusted for inflation. See "Nominal Dollars" in Glossary.

^b 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.

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

R=Revised.

Notes: • Monthly data are not adjusted for seasonal variations. • See Note 1, "Merchandise Trade Value," at end of section. • Totals may not equal sum of

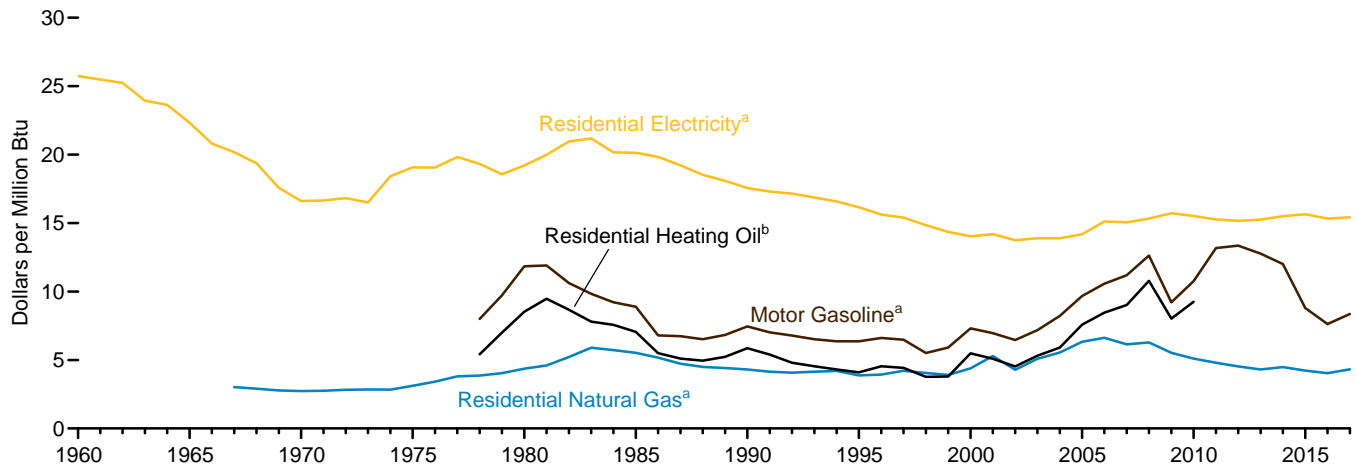
components due to independent rounding. • The U.S. import statistics reflect both government and nongovernment imports of merchandise from foreign countries into the U.S. customs territory, which comprises the 50 states, the District of Columbia, Puerto Rico, and the Virgin Islands.

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.

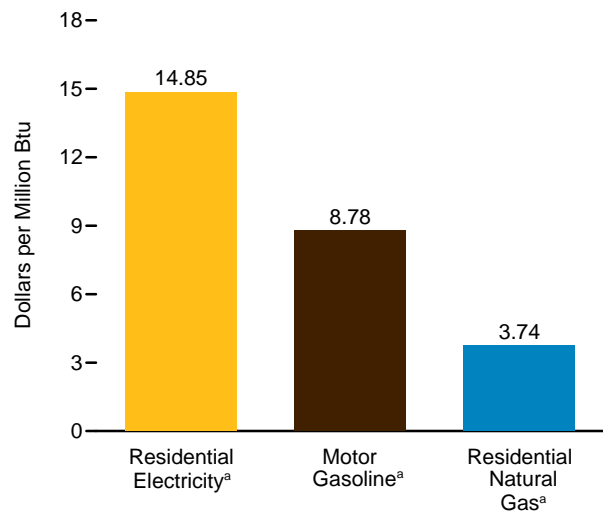
Sources: See end of section.

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

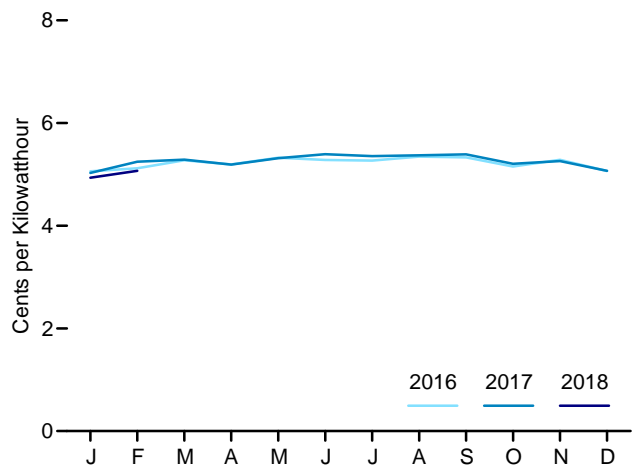
Costs, 1960–2017



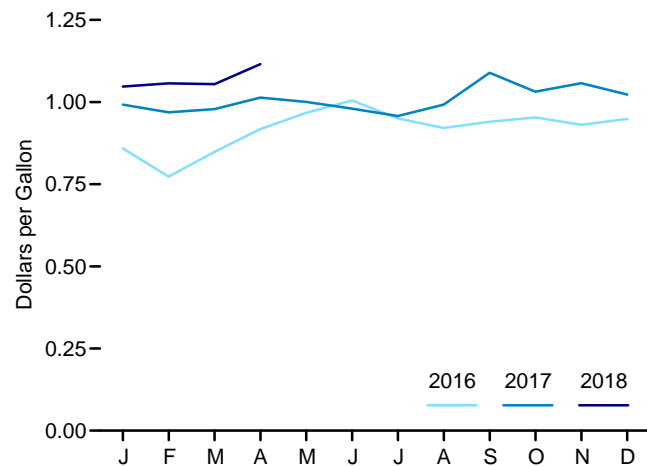
Costs, February 2018



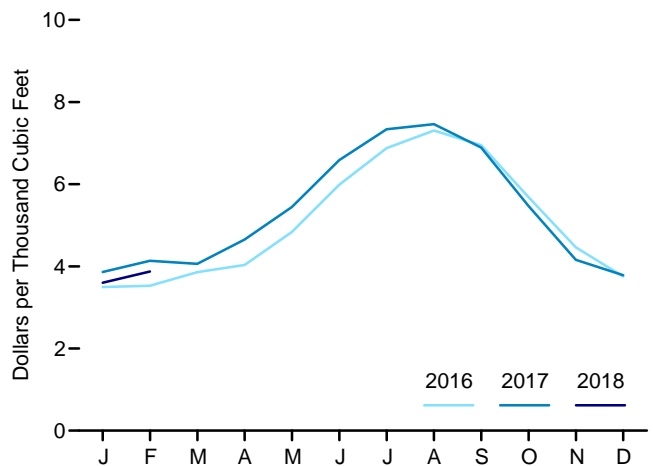
Residential Electricity,^a Monthly



Motor Gasoline,^a Monthly



Residential Natural Gas,^a Monthly



^a Includes taxes.

^b 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 ^a	Motor Gasoline ^b		Residential Heating Oil ^c		Residential Natural Gas ^b		Residential Electricity ^b	
	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 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	3.50	3.37	5.06	14.83
February	237.111	0.773	6.42	NA	NA	3.53	3.40	5.12	15.01
March	238.132	0.849	7.05	NA	NA	3.86	3.72	5.27	15.46
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	4.84	4.66	5.32	15.60
June	241.018	1.005	8.34	NA	NA	5.99	5.77	5.28	15.48
July	240.628	0.950	7.89	NA	NA	6.88	6.63	5.27	15.44
August	240.849	0.921	7.65	NA	NA	7.31	7.05	5.35	15.67
September	241.428	0.940	7.80	NA	NA	6.95	6.70	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	5.07	14.85
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	14.74
February	243.603	0.969	8.04	NA	NA	4.13	3.99	5.25	15.38
March	243.801	0.979	8.13	NA	NA	4.06	3.92	5.29	15.50
April	244.524	1.014	8.42	NA	NA	4.65	4.49	5.19	15.21
May	244.733	1.000	8.31	NA	NA	5.44	5.25	5.32	15.58
June	244.955	0.980	8.14	NA	NA	6.59	6.35	5.39	15.81
July	244.786	0.958	7.95	NA	NA	7.34	7.08	5.36	15.70
August	245.519	0.992	8.24	NA	NA	7.46	7.20	5.37	15.75
September	246.819	1.089	9.04	NA	NA	6.89	6.65	5.39	15.79
October	246.663	1.032	8.57	NA	NA	5.47	5.28	5.21	15.26
November	246.669	1.057	8.78	NA	NA	4.16	4.01	5.26	15.41
December	246.524	1.023	8.49	NA	NA	3.79	3.65	5.07	14.86
Average	245.120	1.007	8.36	NA	NA	4.48	4.32	5.26	15.42
2018 January	247.867	1.047	8.70	NA	NA	3.60	3.47	4.93	14.46
February	248.991	1.057	8.78	NA	NA	^R 3.88	^R 3.74	^R 5.07	^R 14.85
March	249.554	1.054	8.75	NA	NA	NA	NA	NA	NA
April	250.546	1.116	9.26	NA	NA	NA	NA	NA	NA

^a Data are U.S. city averages for all items, and are not seasonally adjusted.

^b Includes taxes.

^c Excludes taxes.

R=Revised. NA=Not available.

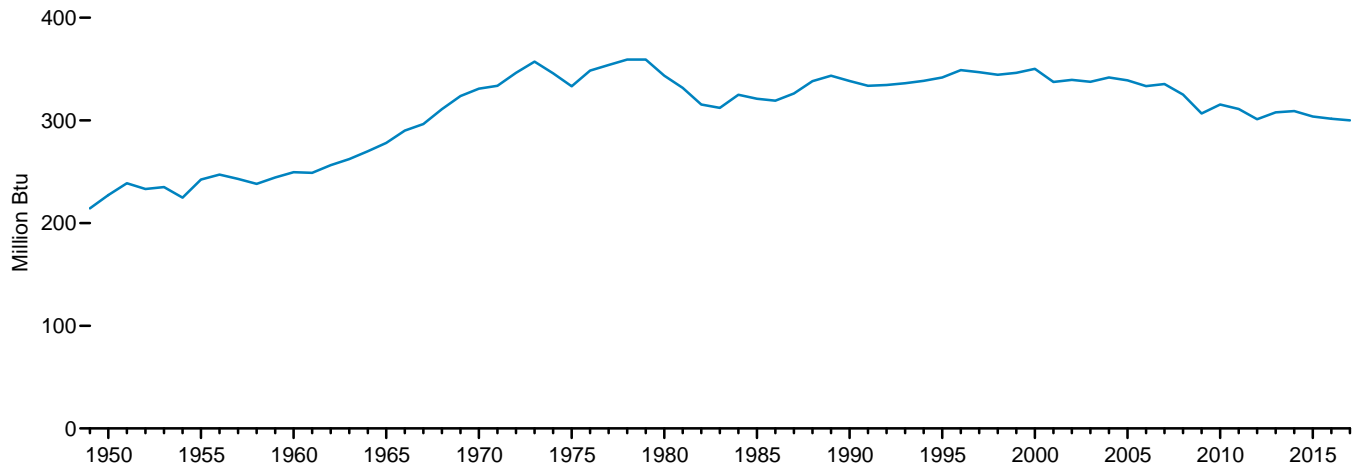
Notes: • See "Real Dollars" in Glossary. • Fuel costs are calculated by using the Urban Consumer Price Index (CPI) developed by the Bureau of Labor Statistics. • Annual averages may not equal average of months due to independent rounding. • Geographic coverage is the 50 states and the District of Columbia.

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.

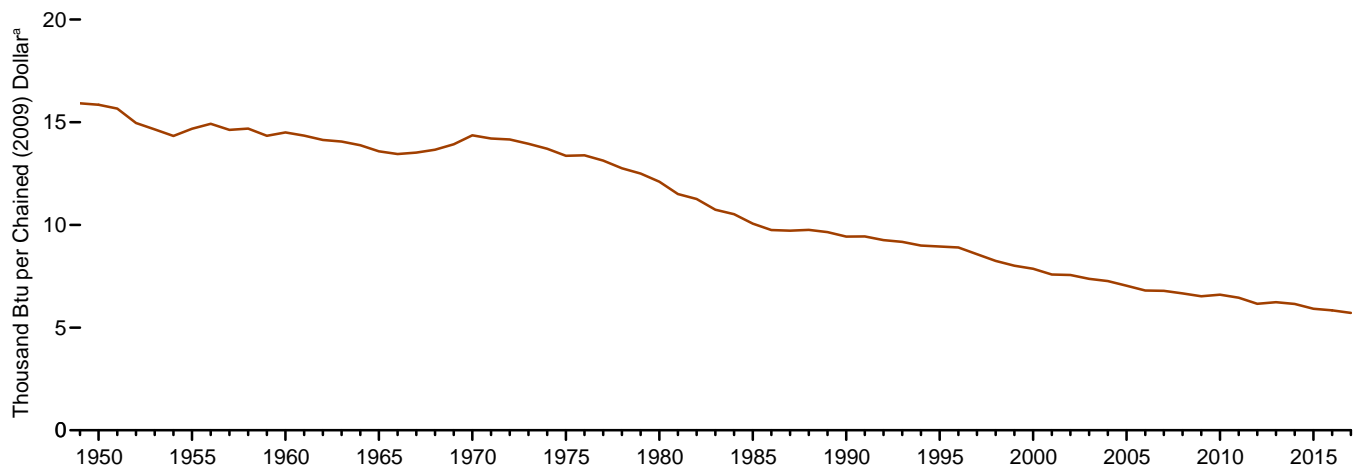
Sources: • **Fuel Prices:** Tables 9.4 (All Grades), 9.8, and 9.10, adjusted by the CPI; and *Monthly Energy Review*, September 2012, Table 9.8c. • **Consumer Price Index, All Urban Consumers:** U.S. Department of Labor, Bureau of Labor Statistics, series ID CUUR0000SA0. • **Conversion Factors:** Tables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

Figure 1.7 Primary Energy Consumption and Energy Expenditures Indicators

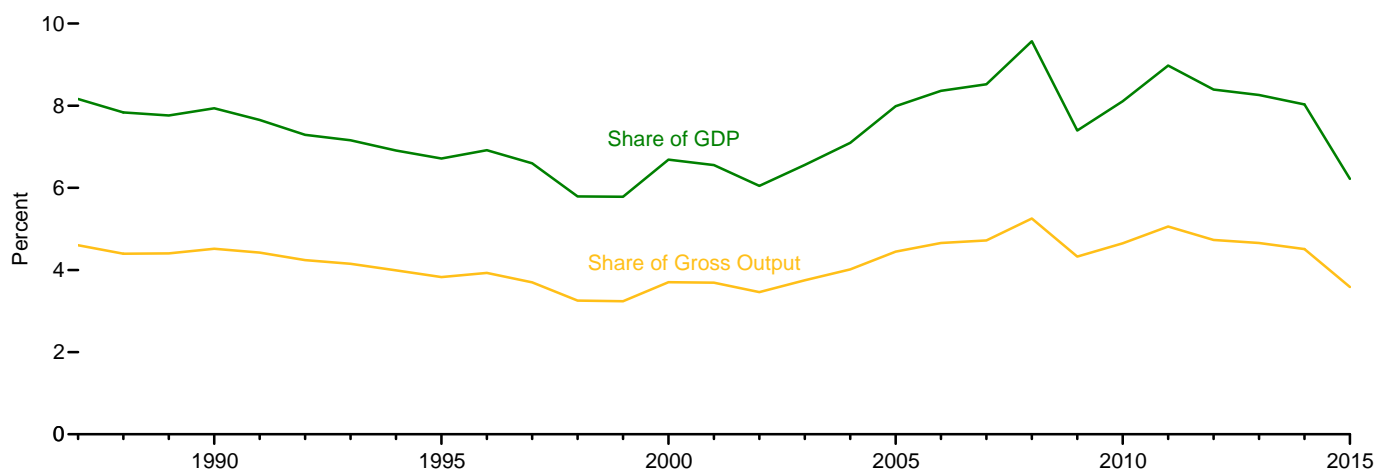
Energy Consumption per Capita, 1949–2017



Primary Energy Consumption per Real Dollar^a of Gross Domestic Product, 1949–2017



Energy Expenditures as Share of Gross Domestic Product and Gross Output,^b 1987–2015



^a See "Chained Dollars" and "Real Dollars" in Glossary.

^b 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 ^a			Energy Expenditures ^b				Carbon Dioxide Emissions ^c		
	Consumption	Consumption per Capita	Consumption per Real Dollar ^d of GDP ^e	Expenditures	Expenditures per Capita	Expenditures as Share of GDP ^e	Expenditures as Share of Gross Output ^f	Emissions	Emissions per Capita	Emissions per Real Dollar ^d of GDP ^e
	Quadrillion Btu	Million Btu	Thousand Btu per Chained (2009) Dollar ^d	Million Nominal Dollars ^g	Nominal Dollars ^g	Percent	Percent	Million Metric Tons Carbon Dioxide	Metric Tons Carbon Dioxide	Metric Tons Carbon Dioxide per Million Chained (2009) Dollars ^d
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	4,421	20.5	821
1980	78.067	344	12.10	374,347	1,647	13.1	NA	4,750	20.9	736
1981	76.106	332	11.50	427,898	1,865	13.3	NA	4,625	20.2	699
1982	73.099	316	11.26	426,479	1,841	12.7	NA	4,393	19.0	677
1983	72.971	312	10.74	411,617	1,786	11.5	NA	4,371	18.7	644
1984	76.632	325	10.52	435,309	1,846	10.8	NA	4,600	19.5	631
1985	76.392	321	10.06	438,339	1,842	10.1	NA	4,593	19.3	605
1986	76.647	319	9.75	384,088	1,599	8.4	NA	4,598	19.1	585
1987	79.054	326	9.72	397,623	1,641	8.2	4.6	4,757	19.6	585
1988	82.709	338	9.76	411,565	1,683	7.8	4.4	4,982	20.4	588
1989	84.785	344	9.65	439,046	1,779	7.8	4.4	5,065	20.5	577
1990	84.484	338	9.43	474,647	1,901	7.9	4.5	5,039	20.2	563
1991	84.437	334	9.44	472,434	1,867	7.7	4.4	4,993	19.7	558
1992	85.782	334	9.26	476,840	1,859	7.3	4.2	5,090	19.8	549
1993	87.365	336	9.18	492,267	1,894	7.2	4.2	5,184	19.9	545
1994	89.087	339	8.99	504,854	1,919	6.9	4.0	5,261	20.0	531
1995	91.031	342	8.95	514,622	1,933	6.7	3.8	5,324	20.0	523
1996	94.021	349	8.90	560,292	2,080	6.9	3.9	5,511	20.5	522
1997	94.600	347	8.57	567,960	2,083	6.6	3.7	5,584	20.5	506
1998	95.018	344	8.24	526,280	1,908	5.8	3.3	5,637	20.4	489
1999	96.648	346	8.01	558,624	2,002	5.8	3.2	5,690	20.4	472
2000	98.817	350	7.87	687,708	2,437	6.7	3.7	5,867	20.8	467
2001	96.170	337	7.58	696,240	2,443	6.6	3.7	5,762	20.2	454
2002	97.643	339	7.56	663,962	2,308	6.0	3.5	5,805	20.2	450
2003	97.918	338	7.38	755,068	2,603	6.6	3.8	5,855	20.2	441
2004	100.090	342	7.27	871,209	2,975	7.1	4.0	5,971	20.4	433
2005	100.188	339	7.04	1,045,729	3,539	8.0	4.4	5,992	20.3	421
2006	99.484	333	6.81	1,158,819	3,884	8.4	4.7	5,912	19.8	405
2007	101.015	335	6.79	1,233,864	4,096	8.5	4.7	6,005	19.9	404
2008	98.891	325	6.67	1,408,750	4,633	9.6	5.3	5,815	19.1	392
2009	94.118	307	6.53	1,066,275	3,476	7.4	4.3	5,396	17.6	374
2010	97.580	315	6.60	1,213,336	3,922	8.1	4.6	5,591	18.1	378
2011	96.976	311	6.46	1,392,945	4,470	9.0	5.1	5,454	17.5	363
2012	94.535	301	6.16	1,356,215	4,319	8.4	4.7	5,243	16.7	341
2013	97.340	308	6.23	1,378,885	4,360	8.3	4.7	5,372	17.0	344
2014	^R 98.491	309	6.15	1,399,486	4,392	8.0	4.5	5,419	17.0	338
2015	97.526	304	5.92	1,127,132	3,511	6.2	3.6	5,274	16.4	320
2016	97.561	302	5.84	NA	NA	NA	NA	5,188	16.0	310
2017	97.728	300	5.72	NA	NA	NA	NA	5,140	15.8	301

^a See "Primary Energy Consumption" in Glossary.

^b Expenditures include taxes where data are available.

^c Carbon dioxide emissions from energy consumption. See Table 12.1.

^d See "Chained Dollars" and "Real Dollars" in Glossary.

^e See "Gross Domestic Product (GDP)" in Glossary.

^f Gross output is the value of GDP plus the value of intermediate inputs used to produce GDP.

^g See "Nominal Dollars" in Glossary.

^RRevised. 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).

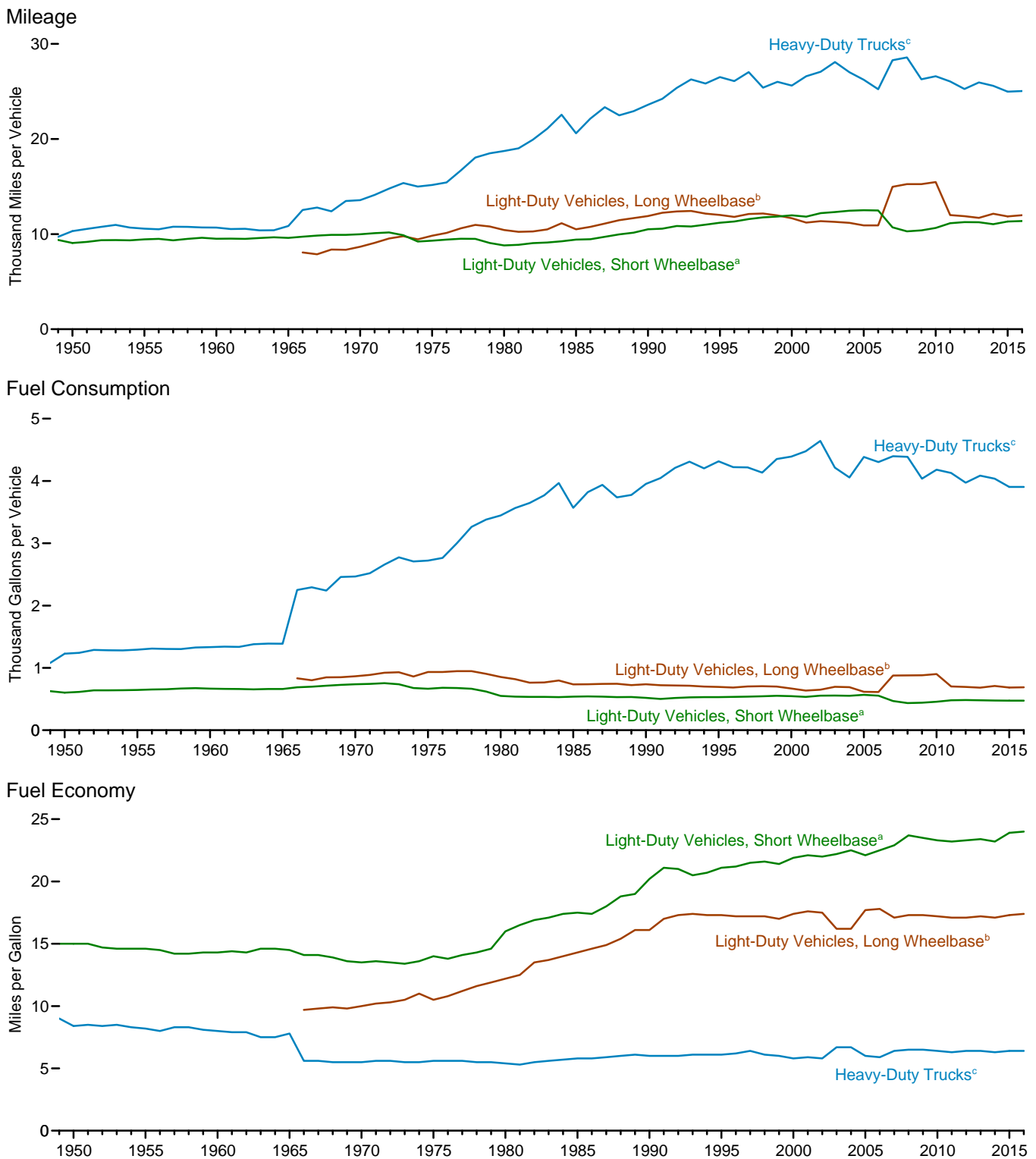
• **Expenditures:** U.S. Energy Information Administration, "State Energy Price and Expenditure Estimates, 1970 Through 2015" (June 2017), U.S. Table ET.1.

• **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, 1949–2016



^a 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.

^b 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.

^c 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 ^a			Light-Duty Vehicles, Long Wheelbase ^b			Heavy-Duty Trucks ^c			All Motor Vehicles ^d		
	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	^a 10,710	^a 468	^a 22.9	^b 14,970	^b 877	^b 17.1	^c 28,290	^c 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	11,327	475	23.9	11,855	684	17.3	24,979	3,904	6.4	11,742	656	17.9
2016 ^P	11,370	475	24.0	11,991	689	17.4	25,037	3,904	6.4	11,810	658	17.9

^a 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.

^b 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.

^c 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.

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

^e 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 ^a	Middle Atlantic ^b	East North Central ^c	West North Central ^d	South Atlantic ^e	East South Central ^f	West South Central ^g	Mountain ^h	Pacific ⁱ	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
2015 Total	6,521	5,777	6,165	6,088	2,487	3,222	2,087	4,602	2,898	4,087
2016 January	1,127	1,119	1,241	1,303	659	857	565	918	569	871
February	957	901	957	937	483	574	310	619	341	628
March	754	644	670	653	240	324	179	543	395	450
April	605	515	506	424	152	162	61	381	242	309
May	251	213	221	207	58	71	17	254	181	151
June	45	22	25	27	1	0	0	42	44	21
July	4	1	2	11	0	0	0	15	20	6
August	5	1	5	17	0	0	0	31	12	6
September	67	38	40	75	2	5	1	115	66	39
October	388	316	285	304	91	89	22	265	200	198
November	672	609	582	569	290	339	154	513	331	418
December	1,053	975	1,166	1,257	479	672	444	927	627	783
Total	5,928	5,353	5,701	5,786	2,456	3,094	1,752	4,621	3,029	3,879
2017 January	R 1,039	R 971	1,082	1,211	478	R 580	R 419	R 962	668	767
February	906	R 778	775	R 817	323	410	209	627	498	548
March	R 1,039	908	834	R 782	R 348	387	R 147	468	394	R 543
April	R 453	342	R 350	401	76	94	52	R 405	R 309	248
May	305	233	250	224	47	57	14	235	R 172	154
June	R 45	25	28	37	2	3	0	59	50	25
July	9	3	7	10	0	0	0	6	14	5
August	R 26	18	34	50	1	1	0	27	9	15
September	57	R 51	65	78	14	24	3	R 121	45	R 44
October	R 238	215	R 291	363	89	147	59	R 360	R 176	193
November	746	699	774	805	322	408	180	R 490	351	491
December	R 1,191	1,088	1,198	R 1,218	535	R 725	502	R 818	R 500	R 797
Total	R 6,056	R 5,330	5,687	R 5,996	R 2,236	2,834	R 1,584	R 4,577	R 3,186	R 3,831
2018 January	R 1,258	1,217	1,308	R 1,373	R 701	R 930	R 660	R 773	458	R 897
February	873	813	980	1,179	310	411	346	747	490	625
2-Month Total	2,131	2,030	2,288	2,551	1,011	1,341	1,006	1,520	948	1,522
2017 2-Month Total	1,945	1,749	1,857	2,028	801	989	628	1,589	1,167	1,315
2016 2-Month Total	2,084	2,020	2,198	2,241	1,142	1,431	875	1,536	911	1,499

^a Connecticut, Maine, Massachusetts, New Hampshire, Rhode Island, and Vermont.

^b New Jersey, New York, and Pennsylvania.

^c Illinois, Indiana, Michigan, Ohio, and Wisconsin.

^d Iowa, Kansas, Minnesota, Missouri, Nebraska, North Dakota, and South Dakota.

^e Delaware, Florida, Georgia, Maryland (and the District of Columbia), North Carolina, South Carolina, Virginia, and West Virginia.

^f Alabama, Kentucky, Mississippi, and Tennessee.

^g Arkansas, Louisiana, Oklahoma, and Texas.

^h Arizona, Colorado, Idaho, Montana, Nevada, New Mexico, Utah, and Wyoming.

ⁱ 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.

Table 1.10 Cooling Degree Days by Census Division

	New England ^a	Middle Atlantic ^b	East North Central ^c	West North Central ^d	South Atlantic ^e	East South Central ^f	West South Central ^g	Mountain ^h	Pacific ⁱ	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 Total	555	804	729	941	2,405	1,718	2,741	1,478	1,068	1,488
2016 January	0	0	0	0	25	2	9	0	8	7
February	0	0	0	0	24	3	25	10	15	11
March	0	0	3	10	89	36	86	24	13	35
April	0	0	1	8	87	37	123	42	27	42
May	7	17	42	49	185	124	238	90	37	R 98
June	75	129	188	263	379	371	475	331	166	271
July	242	310	277	306	509	473	R 620	408	236	384
August	241	312	297	268	484	460	547	305	234	362
September	61	114	131	138	352	321	429	173	122	219
October	0	6	19	28	156	113	233	99	47	86
November	0	0	0	2	56	12	80	14	17	26
December	0	0	0	0	65	4	17	0	8	17
Total	R 888	R 888	958	1,073	2,412	1,957	2,882	1,496	929	1,558
2017 January	0	0	0	0	R 49	20	35	0	7	16
February	0	0	0	3	54	18	66	5	7	R 21
March	0	0	1	6	R 54	28	112	R 31	17	32
April	0	2	R 7	9	R 122	74	R 142	R 49	R 25	R 55
May	R 2	14	37	51	R 210	R 135	240	R 110	46	105
June	73	R 123	167	205	336	271	R 446	307	149	241
July	R 169	250	241	330	R 468	430	R 583	412	R 284	363
August	127	R 163	R 147	166	R 406	R 341	508	R 328	R 279	R 291
September	R 67	R 88	R 92	128	281	194	R 368	178	R 137	184
October	11	22	15	14	R 157	R 65	R 144	89	R 70	77
November	0	0	0	0	66	6	67	29	21	27
December	0	0	0	0	38	2	R 6	1	10	10
Total	R 449	662	707	911	R 2,241	R 1,585	2,718	R 1,540	R 1,050	R 1,424
2018 January	0	0	0	0	20	1	4	5	15	7
February	0	0	0	0	80	21	34	3	8	23
2-Month Total	0	0	0	0	100	22	38	7	23	30
2017 2-Month Total	0	0	0	3	103	37	101	5	14	38
2016 2-Month Total	0	0	0	0	48	6	35	10	23	19

^a Connecticut, Maine, Massachusetts, New Hampshire, Rhode Island, and Vermont.
^b New Jersey, New York, and Pennsylvania.
^c Illinois, Indiana, Michigan, Ohio, and Wisconsin.
^d Iowa, Kansas, Minnesota, Missouri, Nebraska, North Dakota, and South Dakota.
^e Delaware, Florida, Georgia, Maryland (and the District of Columbia), North Carolina, South Carolina, Virginia, and West Virginia.
^f Alabama, Kentucky, Mississippi, and Tennessee.
^g Arkansas, Louisiana, Oklahoma, and Texas.
^h Arizona, Colorado, Idaho, Montana, Nevada, New Mexico, Utah, and Wyoming.
ⁱ 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.

Table 1.11a Non-Combustion Use of Fossil Fuels in Physical Units

	Coal	Natural Gas	Petroleum							Total
			Asphalt and Road Oil	Hydrocarbon Gas Liquids ^a	Lubricants	Petro-chemical Feedstocks ^b	Petroleum Coke	Special Naphthas	Other ^c	
			Thousand Short Tons	Billion Cubic Feet	Thousand Barrels per Day					
1973 Total	3,345	792	522	736	162	375	42	88	134	2,059
1975 Total	2,972	674	419	702	137	330	41	75	159	1,863
1980 Total	2,370	674	396	871	159	709	39	100	176	2,451
1985 Total	1,050	572	425	980	145	364	43	83	114	2,154
1990 Total	641	712	483	1,067	164	553	56	56	94	2,473
1995 Total	921	868	486	1,347	156	593	55	37	87	2,762
1996 Total	884	896	484	1,420	151	593	54	39	87	2,828
1997 Total	842	909	505	1,452	160	691	40	38	86	2,982
1998 Total	786	938	521	1,375	168	693	69	56	107	2,978
1999 Total	784	906	547	1,605	169	654	98	76	99	3,248
2000 Total	807	918	525	1,586	166	666	45	51	103	3,142
2001 Total	727	839	519	1,422	153	592	79	41	104	2,911
2002 Total	660	836	512	1,504	151	630	66	53	103	3,020
2003 Total	676	808	503	1,436	140	676	56	42	101	2,954
2004 Total	660	818	537	1,481	141	784	99	27	98	3,167
2005 Total	654	761	546	1,399	141	729	85	33	102	3,034
2006 Total	640	584	521	1,454	137	726	97	37	112	3,084
2007 Total	634	598	494	1,461	142	664	91	41	104	2,997
2008 Total	616	608	417	1,340	131	574	102	44	107	2,714
2009 Total	427	524	360	1,456	118	507	82	24	99	2,648
2010 Total	588	654	362	^R 1,587	131	539	28	14	100	2,760
2011 Total	598	680	355	1,624	125	520	28	12	103	2,767
2012 Total	579	706	340	^R 1,642	114	444	31	8	94	2,673
2013 Total	599	721	323	^R 1,782	121	448	28	52	97	^R 2,853
2014 Total	594	725	327	1,780	126	410	28	55	101	^R 2,829
2015 Total	550	703	343	1,865	138	378	28	52	102	2,906
2016 January	37	69	195	2,075	136	377	31	47	107	2,968
February	38	63	230	1,970	148	373	29	53	95	2,899
March	40	63	254	1,932	143	368	29	58	108	2,892
April	37	59	301	1,840	131	370	22	46	109	2,820
May	38	58	394	1,828	132	359	21	59	101	2,894
June	39	55	482	1,751	146	363	18	40	107	2,907
July	40	57	472	1,853	115	384	25	47	112	3,007
August	39	58	524	1,760	124	371	36	43	110	2,968
September	37	56	439	1,817	125	364	21	56	107	2,928
October	37	58	417	1,920	131	365	26	41	90	2,991
November	37	62	310	1,865	121	373	42	49	108	2,868
December	40	70	195	1,969	115	390	32	45	107	2,853
Total	460	728	351	1,882	130	371	28	49	105	2,917
2017 January	40	70	192	2,106	105	368	34	49	104	2,958
February	38	61	241	1,938	123	409	21	58	106	2,896
March	40	66	265	1,952	133	435	13	50	111	2,959
April	40	59	318	1,878	105	429	29	43	105	2,907
May	41	59	365	1,878	108	438	28	51	112	2,981
June	39	57	477	1,948	108	442	21	56	113	3,164
July	42	58	441	1,956	98	403	39	49	110	3,097
August	43	59	542	1,644	91	383	25	55	107	2,848
September	41	58	447	1,717	108	356	30	45	98	2,800
October	41	62	413	1,926	124	372	14	57	102	3,008
November	41	66	307	2,121	113	373	34	59	119	3,126
December	43	72	218	2,258	92	381	31	55	108	3,143
Total	489	746	353	1,944	109	399	27	52	108	2,991
2018 January	47	^R 74	204	2,479	105	345	29	58	106	3,326
February	39	66	219	2,296	105	350	15	53	104	3,142
2-Month Total	86	140	211	2,392	105	347	22	55	105	3,239
2017 2-Month Total	78	131	215	2,027	114	387	28	53	105	2,929
2016 2-Month Total	75	132	212	2,024	141	375	30	50	101	2,934

^a Ethane, propane, normal butane, isobutane, natural gasoline, and refinery olefins (ethylene, propylene, butylene, and isobutylene).

^b Includes still gas not burned as refinery fuel.

^c Distillate fuel oil, residual fuel oil, waxes, and miscellaneous products.

^R=Revised.

Notes: • Data are estimates. • Non-combustion use estimates are included in total energy consumption. See Table 1.3. • Non-combustion estimates are all for industrial sector consumption, except for some lubricants consumed by the

transportation sector. • Totals may not equal sum of components due to independent rounding. • Geographic coverage is the 50 states and the District of Columbia. • See Note 2, "Non-Combustion Use of Fossil Fuels," at end of section.

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

Sources: • See Note 2, "Non-Combustion Use of Fossil Fuels," at end of section.

Table 1.11b Heat Content of Non-Combustion Use of Fossil Fuels
(Quadrillion Btu)

	Coal	Natural Gas	Petroleum								Total	Total	Percent of Total Energy Consumption
			Asphalt and Road Oil	Hydro-carbon Gas Liquids ^a	Lubri-cants	Petro-chemical Feed-stocks ^b	Petro-leum Coke	Special Napthas	Other ^c	Total			
1973 Total	0.107	0.808	1.264	0.977	0.359	0.767	0.088	0.169	0.290	3.914	4.829	6.4	
1975 Total	.095	.688	1.014	.921	.304	.675	.085	.144	.341	3.485	4.268	5.9	
1980 Total	.076	.690	.962	1.147	.354	1.464	.081	.193	.379	4.580	5.345	6.8	
1985 Total	.034	.590	1.029	1.251	.322	.747	.090	.159	.242	3.841	4.465	5.8	
1990 Total	.021	.733	1.170	1.393	.362	1.138	.117	.107	.198	4.486	5.240	6.2	
1995 Total	.029	.892	1.178	1.764	.346	1.222	.115	.071	.185	4.879	5.800	6.4	
1996 Total	.028	.921	1.176	1.856	.335	1.211	.113	.075	.185	4.951	5.900	6.3	
1997 Total	.027	.933	1.224	1.894	.354	1.410	.083	.072	.183	5.220	6.181	6.5	
1998 Total	.025	.969	1.263	1.789	.371	1.409	.143	.107	.229	5.310	6.304	6.6	
1999 Total	.025	.932	1.324	2.098	.375	1.336	.205	.145	.211	5.695	6.652	6.9	
2000 Total	.026	.942	1.276	2.065	.369	1.353	.094	.097	.222	5.476	6.443	6.5	
2001 Total	.023	.863	1.257	1.844	.338	1.205	.165	.078	.223	5.112	5.998	6.2	
2002 Total	.021	.856	1.240	1.945	.334	1.276	.138	.102	.220	5.257	6.134	6.3	
2003 Total	.022	.832	1.220	1.869	.309	1.371	.117	.080	.217	5.183	6.037	6.2	
2004 Total	.021	.840	1.304	1.924	.313	1.592	.207	.051	.211	5.602	6.463	6.5	
2005 Total	.021	.782	1.323	1.812	.312	1.474	.177	.063	.218	5.380	6.183	6.2	
2006 Total	.020	.600	1.261	1.871	.303	1.477	.203	.070	.242	5.427	6.048	6.1	
2007 Total	.020	.614	1.197	1.872	.313	1.351	.191	.078	.223	5.224	5.859	5.8	
2008 Total	.020	.625	1.012	1.722	.291	1.172	.214	.085	.230	4.725	5.370	5.4	
2009 Total	.014	.537	.873	1.839	.262	1.031	.172	.046	.212	4.434	4.985	5.3	
2010 Total	.019	.669	.878	2.010	.291	1.096	.058	.026	.213	4.571	5.258	5.4	
2011 Total	.019	.695	.859	2.028	.276	1.057	.059	.023	.221	4.522	5.236	5.4	
2012 Total	.019	.724	.827	2.062	.254	.901	.064	.015	.201	4.324	5.066	5.4	
2013 Total	.019	.741	.783	2.248	.268	.901	.059	.100	.206	4.567	5.327	5.5	
2014 Total	.019	.749	.793	2.234	.280	.827	.058	.106	.214	4.512	5.280	5.4	
2015 Total	.018	.730	.832	2.351	.305	.760	.059	.099	.215	4.622	5.370	5.5	
2016 January	.001	.072	.040	.223	.026	.065	.006	.008	.019	.386	.458	5.1	
February	.001	.066	.044	.196	.026	.060	.005	.008	.016	.355	.422	5.1	
March	.001	.065	.052	.204	.027	.063	.005	.010	.019	.380	.447	5.6	
April	.001	.061	.060	.189	.024	.061	.004	.007	.019	.364	.426	5.7	
May	.001	.060	.081	.193	.025	.062	.004	.010	.018	.392	.453	6.0	
June	.001	.057	.096	.180	.027	.060	.003	.006	.019	.391	.449	5.6	
July	.001	.059	.097	.195	.022	.066	.004	.008	.020	.412	.473	5.6	
August	.001	.060	.108	.185	.023	.064	.006	.007	.020	.413	.475	5.6	
September	.001	.058	.087	.188	.023	.061	.004	.009	.019	.390	.450	5.8	
October	.001	.061	.086	.205	.025	.063	.005	.007	.016	.406	.467	6.1	
November	.001	.064	.062	.190	.022	.062	.007	.008	.019	.370	.435	5.6	
December	.001	.073	.040	.210	.022	.067	.006	.007	.019	.371	.445	4.9	
Total	.015	.755	.853	2.358	.289	.754	.058	.094	.223	4.629	5.399	5.5	
2017 January	.001	.072	.039	.225	.020	.063	.006	.008	.019	.380	.453	5.1	
February	.001	.064	.045	.183	.021	.063	.003	.009	.017	.341	.406	5.3	
March	.001	.068	.054	.207	.025	.075	.002	.008	.020	.392	.461	5.5	
April	.001	.061	.063	.193	.019	.072	.005	.007	.018	.377	.439	5.9	
May	.001	.061	.075	.197	.020	.076	.005	.008	.020	.402	.464	5.9	
June	.001	.059	.095	.197	.020	.074	.004	.009	.020	.417	.478	6.0	
July	.001	.060	.091	.207	.019	.070	.007	.008	.020	.420	.481	5.7	
August	.001	.062	.112	.172	.017	.066	.004	.009	.019	.399	.462	5.6	
September	.001	.060	.089	.176	.020	.060	.005	.007	.017	.373	.434	5.7	
October	.001	.064	.085	.203	.023	.064	.002	.009	.018	.406	.471	6.0	
November	.001	.068	.061	.215	.021	.062	.006	.009	.021	.395	.464	5.7	
December	.001	.075	.045	.238	.017	.065	.006	.009	.020	.399	.476	5.2	
Total	.016	.774	.854	2.412	.241	.808	.055	.100	.229	4.701	5.490	5.6	
2018 January	.002	.076	.042	.264	.020	.059	.005	.009	.019	.419	.496	5.1	
February	.001	.068	.041	.221	.018	.054	.002	.008	.017	.361	.430	5.3	
2-Month Total	.003	.145	.083	.485	.038	.113	.008	.017	.036	.779	.927	5.2	
2017 2-Month Total	.002	.136	.084	.408	.041	.126	.009	.017	.036	.721	.859	5.2	
2016 2-Month Total	.002	.137	.084	.419	.051	.125	.010	.016	.035	.741	.880	5.1	

^a Ethane, propane, normal butane, isobutane, natural gasoline, and refinery olefins (ethylene, propylene, butylene, and isobutylene).
^b Includes still gas not burned as refinery fuel.
^c Distillate fuel oil, residual fuel oil, waxes, and miscellaneous products.
R=Revised.
Notes: • Data are estimates. • Non-combustion use estimates are included in total energy consumption. See Table 1.3. • Non-combustion estimates are all for industrial sector consumption, except for some lubricants consumed by the transportation sector. • Totals may not equal sum of components due to

independent rounding. • Geographic coverage is the 50 states and the District of Columbia. • See Note 2, "Non-Combustion Use of Fossil Fuels," at end of section.
Web Page: See <http://www.eia.gov/totalenergy/data/monthly/#summary> for all available annual and monthly data beginning in 1973.
Sources: • See Note 2, "Non-Combustion Use of Fossil Fuels," at end of section. • **Percent of Total Energy Consumption:** Calculated as total non-combustion use of fossil fuels divided by total primary energy consumption (see Table 1.3).

Energy Overview

Note 1. 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.

Note 2. Non-Combustion Use of Fossil Fuels. Most fossil-fuels consumed in the United States and elsewhere are combusted to produce heat and power. However, some are used directly for non-combustion use as construction materials, chemical feedstocks, lubricants, solvents, and waxes. For example, coal tars from coal coke manufacturing are used as feedstock in the chemical industry, for metallurgical work, and in anti-dandruff shampoos; natural gas is used to make nitrogenous fertilizers and as chemical feedstocks; asphalt and road oil are used for roofing and paving; hydrocarbon gas liquids are used to create intermediate products that are used in making plastics; lubricants, including motor oil and greases, are used in vehicles and various industrial processes; petrochemical feedstocks are used to make plastics, synthetic fabrics, and related products.

Coal

The U.S. Energy Information Administration (EIA) assumes all non-combustion use of coal comes from the process of manufacturing coal coke. Among the byproducts of the process are “coal tars” or “coal liquids,” which typically are rich in aromatic hydrocarbons, such as benzene, and are used as chemical feedstock. EIA’s Office of Energy Analysis (OEA) estimates non-combustion use ratios of coal tar. Prior to 1995, estimate ratios are based on coal tar production data from the United States International Trade Commission’s

Synthetic Organic Chemicals. From 1995 forward, coal tar production is estimated using the ratio of EIA’s estimate of 1994 coke production, reported in EIA’s Quarterly Coal Report. Coal tar ratios prior to 1980 are assumed to be equal to the 1980 ratio. For Table 1.11b, coal tar values in Table 1.11a are multiplied by 32.0067 million Btu/barrel, which is the product of 4.95 (the conversion from barrels to short tons) and 6.466 (the approximate heat content of one barrel of coal tar).

Natural Gas

EIA assumes that all non-combustion use of natural gas takes place in the industrial sector. OEA estimates non-combustion ratios of natural gas using Form EIA-864A “Manufacturers Energy Consumption Survey” (MECS) and natural gas used as feedstock for hydrogen production using Form EIA-820 “Annual Refinery Report” data. For years when MECS data are unavailable, estimates are interpolated or extrapolated using chemical indices as scaling factors. Non-combustion ratios prior to 1980 are assumed to be equal to the 1980 ratio. For Table 1.11b, natural gas values in Table 1.11a are multiplied by the heat content factor for natural gas total consumption shown in Table A4.

Asphalt & Road Oil

EIA assumes all asphalt and road oil consumption is for non-combustion use. For Table 1.11b, asphalt and road oil values in Table 1.11a are multiplied by 6.636 million Btu/barrel (the approximate heat content of asphalt and road oil) and the number of days in the period.

Distillate & Residual Fuels

OEA estimates non-combustion ratios of distillate and residual fuels using chemical industry fuel product data reported in MECS. Values for years after the most recent MECS are assumed to be equal to the most recent MECS values. Non-combustion ratios prior to 1980 are assumed to be equal to the 1980 ratio. Distillate and residual fuel oils are included in “other” petroleum products. For Table 1.11b, distillate fuel values in Table 1.11a are multiplied by the appropriate values in Table A3 and the number of days in the period. Residual fuel values in Table 1.11a are multiplied by 6.287 million Btu/barrel (the approximate heat content of residual fuel oil) and the number of days in the period.

Hydrocarbon Gas Liquids (HGL)

OEA estimates non-combustion ratios of liquefied petroleum gas (LPG) components, including ethane, propane, and butane, using chemical industry fuel product data reported in MECS. Values for years after the most recent MECS are assumed to be equal to the most recent MECS values. OEA estimates non-combustion ratios of natural gasoline (pentanes plus) with annual surveys of natural gas liquids and refinery gases sold to the chemical industry published in EIA’s Petroleum Supply Annual (PSA). All non-combustion ratios prior to 1980 are assumed to be equal to the 1980 ratio. For Table 1.11b, HGL values in Table 1.11a are multiplied by the appropriate heat content factors in Table A1 and the number of days in the period.

Lubricants

EIA assumes all lubricants consumption are for non-combustion use in the industrial and transportation sectors. For Table 1.11b, lubricants values in Table 1.11a are multiplied by 6.065 million Btu/barrel (the approximate heat rate for lubricants) and the number of days in the period.

Petrochemical Feedstocks

EIA assumes all naphthas and other oils for petrochemical feedstock use are for non-combustion use. OEA estimates non-combustion ratios of still gas by deducting all known fuel uses (refinery fuel use from PSA and pipeline gas supplies from EIA's Natural Gas Annual) from the products supplied value from the PSA. The remainder is assumed to be dispatched to chemical plants as a feedstock. Non-combustion ratios prior to 1980 are assumed to be equal to the 1980 ratio. For Table 1.11b, petrochemical feedstock values in 1.11a are multiplied by the appropriate values in Table A1 and the number of days in the period.

Petroleum Coke

EIA assumes all petroleum coke consumption is for non-combustion use. For Table 1.11b, petroleum coke values in 1.11a are multiplied by 5.719 million Btu/barrel (the approximate heat content of petroleum coke) and the number of days in the period.

Special Naphthas

EIA assumes all special naphthas consumption is for non-combustion use. For Table 1.11b, special naphthas values in Table 1.11a are multiplied by 5.248 million Btu/barrel (the approximate heat content of special naphthas) and the number of days in the period.

Waxes

EIA assumes all waxes consumption is for non-combustion use. Waxes are included in "other" petroleum products. For Table 1.11b, waxes values in Table 1.11a are multiplied by 5.537 million Btu/barrel (the approximate heat content of waxes) and the number of days in the period.

Miscellaneous Petroleum Products

Miscellaneous products include all finished petroleum products not classified elsewhere. EIA assumes all miscellaneous petroleum products consumption are for non-combustion use and are included in "other" petroleum products. For Table 1.11b, miscellaneous petroleum values in Table 1.11a are multiplied by 5.796 million Btu/barrel (the approximate heat content of miscellaneous petroleum products) and the number of days in the period.

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 (EIA), *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 “Biomass—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 “Biomass—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.

Biomass—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.

Biomass—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.

Biomass—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 Biomass

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

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

2009 forward: Total biomass 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 biomass, 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 “Biomass—Fuel Ethanol (Minus Denaturant)” sources below).

2011 forward: Biomass-based diesel fuel exports data are from U.S. Energy Information Administration (EIA), *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 “Biomass—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.

Biomass—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.

Biomass—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.

Biomass—Densified Biomass

2016 forward: Densified biomass exports data are from EIA, Form EIA-63C, “Densified Biomass Fuel Report.”

Total Biomass

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

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

2016 forward: Total biomass exports are the sum of the exports values for fuel ethanol (minus denaturant), biodiesel, and densified biomass.

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 biomass, 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.