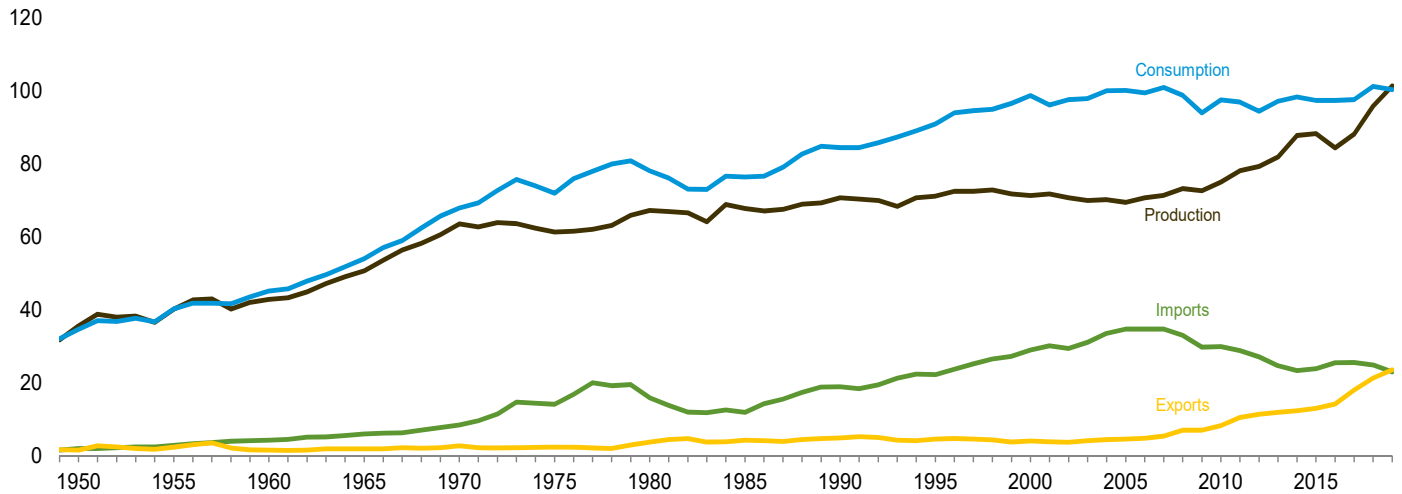


1. Energy Overview

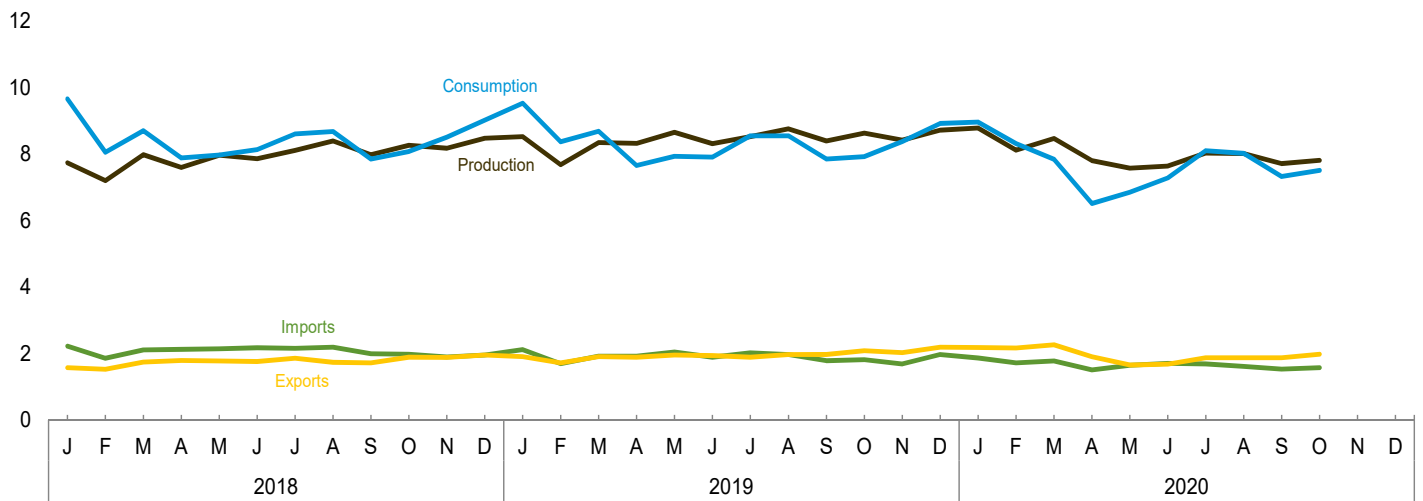
Figure 1.1 Primary Energy Overview

(Quadrillion Btu)

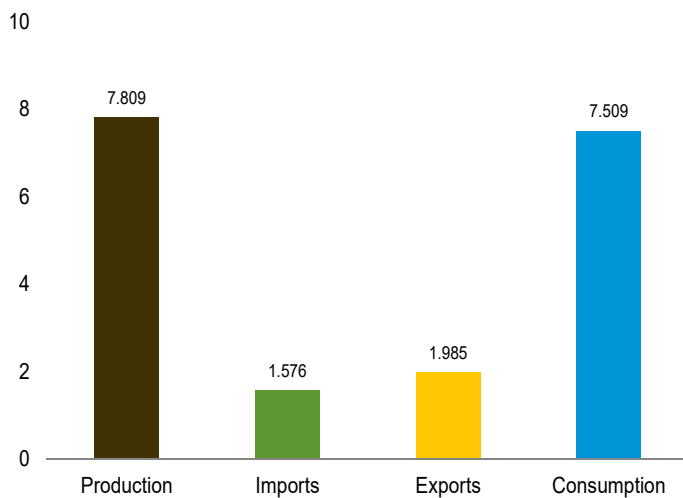
Overview, 1949–2019



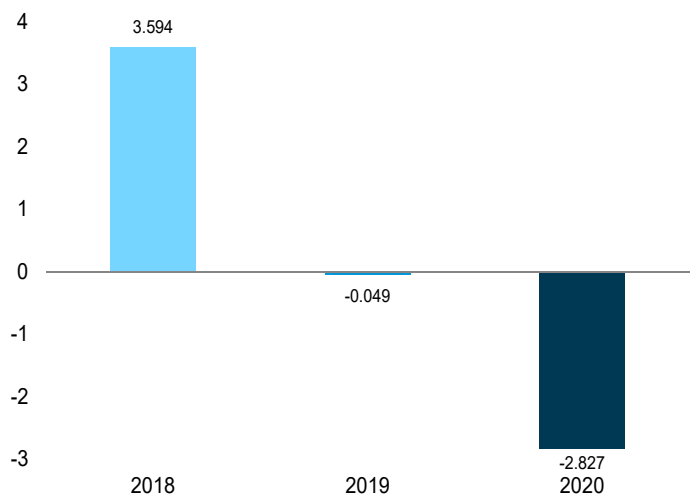
Overview, Monthly



Overview, October 2020



Net Imports, January–October



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	32.553	0.000	2.978	35.531	1.913	1.465	0.448	-1.380	31.615	0.000	2.978	34.599
1955 Total	37.347	.000	2.784	40.131	2.790	2.286	.504	-.457	37.380	.000	2.784	40.178
1960 Total	39.855	.006	2.928	42.789	4.188	1.477	2.710	-.458	42.091	.006	2.928	45.041
1965 Total	47.205	.043	3.396	50.644	5.892	1.829	4.063	-.754	50.515	.043	3.396	53.953
1970 Total	59.152	.239	4.070	63.462	8.342	2.632	5.709	-1.354	63.501	.239	4.070	67.817
1975 Total	54.697	1.900	4.687	61.284	14.032	2.323	11.709	-1.062	65.323	1.900	4.687	71.931
1980 Total	58.979	2.739	5.428	67.147	15.796	3.695	12.101	-1.227	69.782	2.739	5.428	78.021
1985 Total	57.502	4.076	6.084	67.661	11.781	4.196	7.584	1.088	66.035	4.076	6.084	76.334
1990 Total	58.523	6.104	6.040	70.668	18.817	4.752	14.065	-.299	72.281	6.104	6.040	84.433
1995 Total	57.496	7.075	6.557	71.129	22.180	4.496	17.684	2.118	77.162	7.075	6.559	90.931
2000 Total	57.307	7.862	6.102	71.271	28.865	3.962	24.904	2.528	84.620	7.862	6.104	98.702
2001 Total	58.485	8.029	5.162	71.675	30.052	3.731	26.321	-1.933	82.800	8.029	5.160	96.064
2002 Total	56.777	8.145	5.731	70.653	29.331	3.608	25.722	1.160	83.592	8.145	5.726	97.535
2003 Total	55.983	7.960	5.942	69.885	31.007	4.013	26.994	.956	83.909	7.960	5.944	97.835
2004 Total	55.884	8.223	6.063	70.169	33.492	4.351	29.141	.692	85.666	8.223	6.075	100.002
2005 Total	54.995	8.161	6.221	69.377	34.659	4.462	30.197	.527	85.623	8.161	6.234	100.102
2006 Total	55.877	8.215	6.586	70.678	34.649	4.727	29.921	-1.207	84.477	8.215	6.637	99.392
2007 Total	56.369	8.459	6.510	71.338	34.679	5.338	29.341	.215	85.805	8.459	6.523	100.893
2008 Total	57.527	8.426	7.192	73.145	32.970	6.949	26.021	-.412	83.041	8.426	7.175	98.754
2009 Total	56.612	8.355	7.625	72.592	29.690	6.920	22.770	-1.420	77.862	8.355	7.608	93.942
2010 Total	58.159	8.434	8.314	74.907	29.866	8.176	21.690	.916	80.723	8.434	8.267	97.513
2011 Total	60.515	8.269	9.300	78.083	28.748	10.373	18.375	.404	79.263	8.269	9.204	96.863
2012 Total	62.291	8.062	8.886	79.239	27.068	11.267	15.801	-.666	77.304	8.062	8.847	94.374
2013 Total	64.177	8.244	9.418	81.839	24.623	11.788	12.835	2.443	79.224	8.244	9.451	97.117
2014 Total	69.616	8.338	9.767	87.720	23.241	12.270	10.971	-.415	80.017	8.338	9.740	98.276
2015 Total	70.201	8.337	9.729	88.267	23.794	12.902	10.892	-1.783	79.090	8.337	9.721	97.375
2016 Total	65.445	8.427	10.423	84.295	25.378	14.119	11.259	1.781	78.319	8.427	10.363	97.335
2017 Total	68.478	8.419	11.196	88.092	25.458	17.946	7.512	1.990	77.907	8.419	11.077	97.595
2018 January	5.988	.780	.972	7.741	2.228	1.572	.655	1.263	7.911	.780	.954	9.660
February	5.605	.677	.918	7.200	1.861	1.525	.336	.521	6.476	.677	.892	8.057
March	6.267	.701	1.011	7.979	2.114	1.742	.372	.351	6.990	.701	.996	8.701
April	5.960	.618	1.018	7.597	2.125	1.792	.333	-.049	6.251	.618	1.001	7.881
May	6.212	.704	1.049	7.966	2.142	1.775	.367	-.356	6.219	.704	1.040	7.977
June	6.098	.729	1.030	7.857	2.176	1.762	.414	-.134	6.380	.729	1.015	8.137
July	6.408	.758	.945	8.110	2.161	1.863	.298	.195	6.903	.758	.928	8.604
August	6.692	.756	.949	8.397	2.192	1.737	.454	-.169	6.976	.756	.934	8.683
September	6.443	.677	.865	7.985	1.999	1.723	.275	-.406	6.322	.677	.845	7.854
October	6.743	.621	.902	8.266	1.982	1.894	.088	-.275	6.564	.621	.884	8.078
November	6.603	.669	.905	8.177	1.896	1.884	.012	-.319	6.943	.669	.887	8.508
December	6.787	.749	.943	8.480	1.958	1.955	.003	.539	7.336	.749	.925	9.021
Total	75.807	8.438	11.508	95.754	24.833	21.224	3.610	1.798	81.271	8.438	11.301	101.162
2019 January	6.814	.770	.944	8.528	2.122	1.910	.212	.791	7.830	.770	.920	9.531
February	6.134	.676	.873	7.683	1.700	1.725	-.024	.717	6.828	.676	.860	8.375
March	6.679	.680	.990	8.349	1.925	1.912	.013	.329	7.025	.680	.978	8.691
April	6.660	.633	1.030	8.323	1.925	1.893	.032	-.694	6.007	.633	1.013	7.661
May	6.888	.701	1.064	8.653	2.046	1.954	.092	-.809	6.171	.701	1.053	7.935
June	6.597	.718	1.000	8.315	1.889	1.940	-.051	-.360	6.186	.718	.988	7.905
July	6.783	.754	.988	8.525	2.021	1.889	.132	-.109	6.807	.754	.973	8.547
August	7.064	.751	.945	8.760	1.975	1.969	.006	-.215	6.857	.751	.929	8.551
September	6.804	.690	.903	8.397	1.789	1.977	-.188	-.357	6.260	.690	.890	7.852
October	7.052	.648	.930	8.630	1.816	2.088	-.272	-.432	6.351	.648	.921	7.927
November	6.849	.670	.901	8.420	1.688	2.028	-.340	.296	6.807	.670	.887	8.376
December	7.015	.763	.939	8.718	1.969	2.190	-.221	.427	7.227	.763	.920	8.924
Total	81.339	8.452	11.509	101.299	22.865	23.474	-.609	-.417	80.357	8.452	11.332	100.274
2020 January	7.011	.774	.995	8.781	1.866	2.180	-.314	.495	7.206	.774	.971	8.963
February	6.434	.689	.996	8.118	1.719	2.169	-.450	.643	6.639	.689	.974	8.311
March	6.810	.668	.995	8.472	1.779	2.261	-.482	-.148	6.198	.668	.963	7.842
April	6.269	.618	.918	7.805	1.507	1.911	-.404	-.885	4.978	.618	.910	6.517
May	5.872	.672	1.037	7.580	1.649	1.653	-.004	-.719	5.136	.672	1.038	6.858
June	5.892	.702	1.051	7.644	1.704	1.684	.020	-.383	5.523	.702	1.044	7.281
July	R 6.300	.725	1.006	R 8.031	1.689	1.875	-.186	R .259	R 6.364	.725	.998	R 8.105
August	R 6.330	.720	.966	R 8.016	1.614	1.879	-.265	R .270	R 6.329	.720	.952	R 8.022
September	R 6.132	.686	R 7.713	1.539	R 1.874	R -.335	R -.055	R .574	R 5.741	.686	.883	R 7.324
October	6.239	.620	.950	7.809	1.576	1.985	-.410	.110	5.947	.620	.930	7.509
10-Month Total	63.289	6.874	9.808	79.971	16.643	19.471	-2.827	-.413	60.060	6.874	9.663	76.731
2019 10-Month Total	67.475	7.019	9.668	84.162	19.208	19.257	-.049	-1.139	66.322	7.019	9.526	82.974
2018 10-Month Total	62.417	7.020	9.660	79.097	20.980	17.385	3.594	.941	66.991	7.020	9.489	83.633

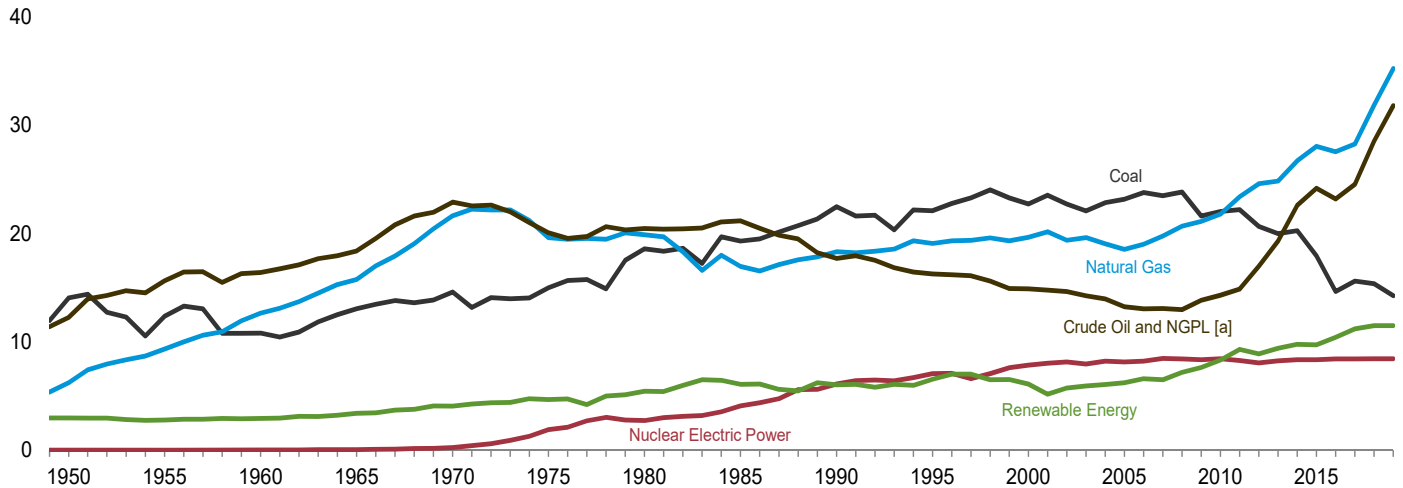
^a Coal, natural gas (dry), crude oil, and natural gas plant liquids.
^b See Tables 10.1–10.2c for notes on series components and estimation; and see Note, "Renewable Energy Production and Consumption," at end of Section 10.
^c Net imports equal imports minus exports.
^d Includes petroleum stock change 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.

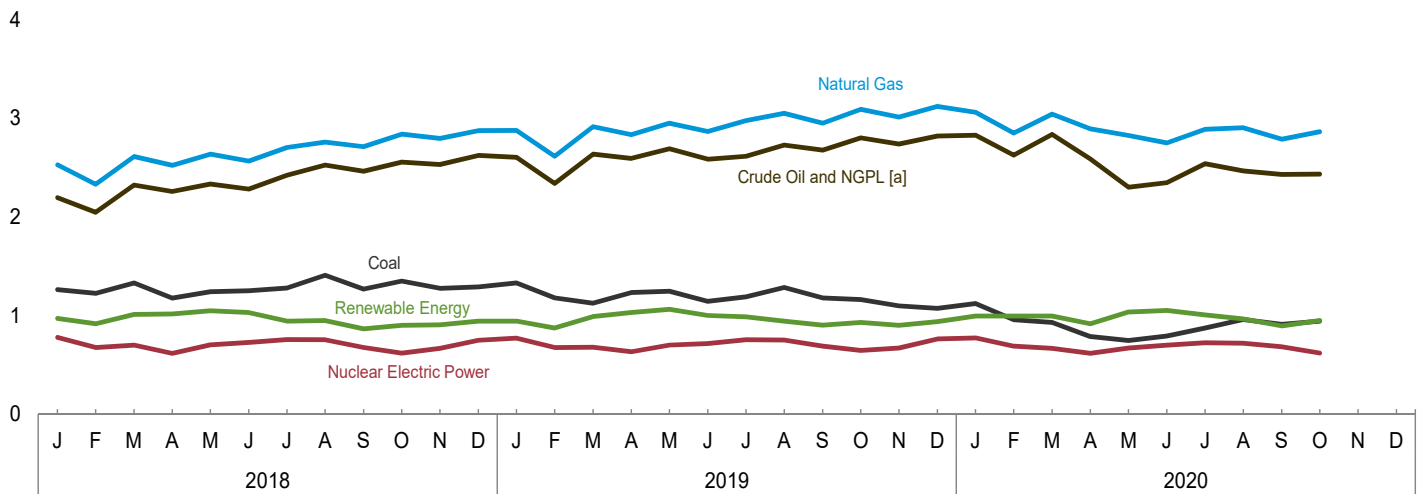
Figure 1.2 Primary Energy Production

(Quadrillion Btu)

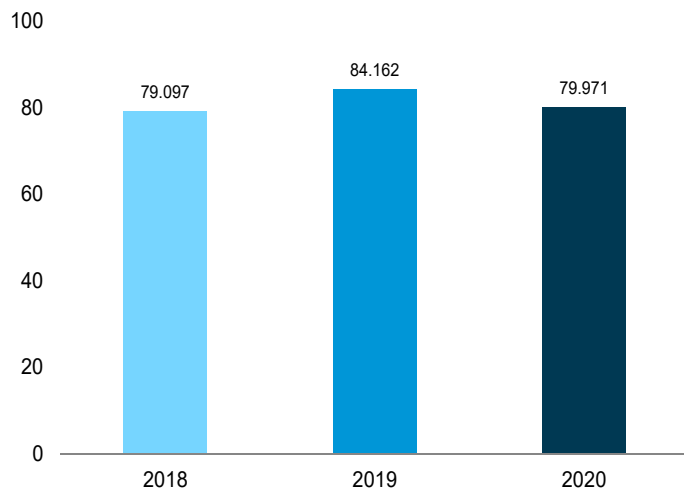
By Source, 1949–2019



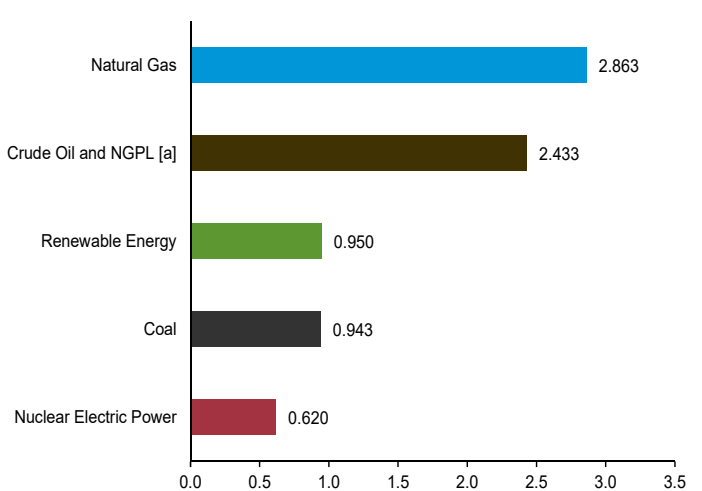
By Source, Monthly



Total, January–October



By Source, October 2020



[a] National 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		Hydroelectric Power ^e	Geo-thermal	Solar	Wind	Bio-mass	Total	
1950 Total	14.060	6.233	11.447	0.813	32.553	0.000	1.415	NA	NA	NA	1.562	2.978	35.531
1955 Total	12.370	9.345	14.410	1.223	37.347	.000	1.360	NA	NA	NA	1.424	2.784	40.131
1960 Total	10.817	12.656	14.935	1.447	39.855	.006	1.608	(s)	NA	NA	1.320	2.928	42.789
1965 Total	13.055	15.775	16.521	1.853	47.205	.043	2.059	.002	NA	NA	1.335	3.396	50.644
1970 Total	14.607	21.666	20.401	2.478	59.152	.239	2.634	.006	NA	NA	1.431	4.070	63.462
1975 Total	14.989	19.640	17.729	2.338	54.697	1.900	3.155	.034	NA	NA	1.499	4.687	61.284
1980 Total	18.598	19.908	18.249	2.225	58.979	2.739	2.900	.053	NA	NA	2.475	5.428	67.147
1985 Total	19.325	16.980	18.992	2.204	57.502	4.076	2.970	.097	(s)	(s)	3.016	6.084	67.661
1990 Total	22.488	18.326	15.571	2.138	58.523	6.104	3.046	.171	.059	.029	2.735	6.040	70.668
1995 Total	22.130	19.082	13.887	2.398	57.496	7.075	3.205	.152	.068	.033	3.099	6.557	71.129
2000 Total	22.735	19.662	12.358	2.551	57.307	7.862	2.811	.164	.063	.057	3.006	6.102	71.271
2001 Total	23.547	20.166	12.282	2.491	58.485	8.029	2.242	.164	.062	.070	2.624	5.162	71.675
2002 Total	22.732	19.382	12.160	2.502	56.777	8.145	2.689	.171	.060	.105	2.705	5.731	70.653
2003 Total	22.094	19.633	11.960	2.296	55.983	7.960	2.793	.173	.058	.113	2.805	5.942	69.885
2004 Total	22.852	19.074	11.550	2.408	55.884	8.223	2.688	.178	.058	.142	2.996	6.063	70.169
2005 Total	23.185	18.556	10.974	2.280	54.995	8.161	2.703	.182	.058	.178	3.101	6.212	69.377
2006 Total	23.790	19.022	10.767	2.299	55.877	8.215	2.869	.181	.061	.264	3.212	6.586	70.678
2007 Total	23.493	19.786	10.741	2.349	56.369	8.459	2.446	.186	.066	.341	3.472	6.510	71.338
2008 Total	23.851	20.703	10.613	2.359	57.527	8.426	2.511	.192	.074	.546	3.868	7.192	73.145
2009 Total	21.624	21.139	11.340	2.508	56.612	8.355	2.669	.200	.078	.721	3.957	7.625	72.592
2010 Total	22.038	21.806	11.610	2.705	58.159	8.434	2.539	.208	.091	.923	4.553	8.314	74.907
2011 Total	22.221	23.406	11.998	2.890	60.515	8.269	3.103	.212	.112	1.168	4.704	9.300	78.083
2012 Total	20.677	24.610	13.842	3.162	62.291	8.062	2.629	.212	.159	1.340	4.547	8.886	79.239
2013 Total	20.001	24.859	15.865	3.451	64.177	8.244	2.562	.214	.225	1.601	4.816	9.418	81.839
2014 Total	20.286	26.718	18.607	4.005	69.616	8.338	2.467	.214	.338	1.728	5.020	9.767	87.720
2015 Total	17.946	28.067	19.712	4.476	70.201	8.337	2.321	.212	.427	1.777	4.992	9.729	88.267
2016 Total	14.667	27.576	18.537	4.665	65.445	8.427	2.472	.210	.570	2.096	5.075	10.423	84.295
2017 Total	15.625	28.289	19.576	4.987	68.478	8.419	2.767	.210	.777	2.343	5.099	11.196	88.092
2018 January	1.262	2.529	1.769	.429	5.988	.780	.228	.018	.049	.233	.445	.972	7.741
February	1.225	2.332	1.639	.408	5.605	.677	.227	.016	.055	.211	.408	.918	7.200
March	1.332	2.612	1.855	.468	6.267	.701	.235	.018	.074	.241	.443	1.011	7.979
April	1.178	2.523	1.797	.462	5.960	.618	.256	.016	.086	.241	.420	1.018	7.597
May	1.241	2.637	1.850	.484	6.212	.704	.277	.018	.096	.218	.440	1.049	7.966
June	1.251	2.565	1.815	.467	6.098	.729	.251	.017	.102	.225	.435	1.030	7.857
July	1.280	2.704	1.929	.496	6.408	.758	.229	.018	.097	.150	.452	.945	8.110
August	1.408	2.758	2.014	.512	6.692	.756	.200	.018	.095	.181	.455	.949	8.397
September	1.268	2.713	1.962	.500	6.443	.677	.174	.017	.085	.169	.421	.865	7.985
October	1.350	2.839	2.044	.511	6.743	.621	.178	.017	.072	.193	.441	.902	8.266
November	1.278	2.795	2.038	.492	6.603	.669	.199	.017	.056	.200	.432	.905	8.177
December	1.291	2.874	2.123	.499	6.787	.749	.208	.019	.048	.221	.447	.943	8.480
Total	15.363	31.882	22.835	5.727	75.807	8.438	2.663	.209	.916	2.482	5.238	11.508	95.754
2019 January	1.331	2.878	2.096	.509	6.814	.770	.221	.018	.052	.216	.437	.944	8.528
February	1.179	2.616	1.863	.476	6.134	.676	.204	.016	.056	.211	.396	.873	7.683
March	1.126	2.915	2.109	.529	6.679	.680	.234	.018	.084	.229	.425	.990	8.349
April	1.234	2.833	2.074	.518	6.660	.633	.248	.016	.095	.257	.414	1.030	8.323
May	1.248	2.950	2.148	.541	6.888	.701	.285	.017	.102	.229	.431	1.064	8.653
June	1.145	2.866	2.066	.519	6.597	.718	.250	.017	.110	.199	.424	1.000	8.315
July	1.191	2.978	2.088	.526	6.783	.754	.221	.018	.113	.196	.439	.988	8.525
August	1.286	3.051	2.195	.533	7.064	.751	.201	.018	.109	.178	.439	.945	8.760
September	1.180	2.949	2.136	.540	6.804	.690	.165	.017	.095	.218	.408	.903	8.397
October	1.162	3.090	2.238	.562	7.052	.648	.163	.016	.085	.245	.422	.930	8.630
November	1.098	3.012	2.198	.540	6.849	.670	.180	.014	.063	.223	.421	.901	8.420
December	1.075	3.121	2.261	.558	7.015	.763	.191	.016	.053	.236	.443	.939	8.718
Total	14.256	35.258	25.473	6.352	81.339	8.452	2.563	.201	1.018	2.626	5.100	11.509	101.299
2020 January	1.123	E 3.060	E 2.253	.575	7.011	.774	.226	.017	.066	.251	.436	.995	8.781
February	.958	E 2.851	E 2.106	.519	6.434	.689	.235	.016	.078	.259	.407	.996	8.118
March	.930	E 3.043	E 2.250	.587	6.810	.668	.209	.019	.093	.260	.414	.995	8.472
April	.788	E 2.894	E 2.053	.534	6.269	.618	.196	.018	.112	.261	.332	.918	R 7.805
May	.746	E 2.825	E 1.770	.531	5.872	.672	.272	.018	.131	.251	.364	1.037	7.580
June	.793	E 2.751	E 1.785	.562	5.892	.702	.259	.017	.130	.266	.378	1.051	7.644
July	.874	E 2.888	E 1.938	.600	R 6.300	.725	.247	.018	.139	.201	.401	1.006	R 8.031
August	R .960	RE 2.905	RE 1.870	.595	R 6.330	.720	.216	.018	.128	.201	.403	.966	R 8.016
September	R .912	RE 2.789	RE 1.857	.574	R 6.132	.686	.171	.018	.109	.206	R .392	R .895	R 7.713
October	.943	E 2.863	E 1.840	.593	6.239	.620	.163	.018	.101	.262	.406	.950	7.809
10-Month Total	9.027	E 28.869	E 19.721	5.672	63.289	6.874	2.194	.177	1.087	2.418	3.931	9.808	79.971
2019 10-Month Total	12.083	29.125	21.013	5.253	67.475	7.019	2.192	.171	.902	2.167	4.235	9.668	84.162
2018 10-Month Total	12.795	26.213	18.673	4.736	62.417	7.020	2.256	.173	.811	2.061	4.359	9.660	79.097

^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 processing plant production of natural gas liquids (ethane, propane, normal butane, isobutane, and natural gasoline). Through 1980, also includes natural gas processing plant production of finished petroleum products (aviation gasoline, distillate fuel oil, jet fuel, kerosene, motor gasoline, special

naphthas, and miscellaneous products).

^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.

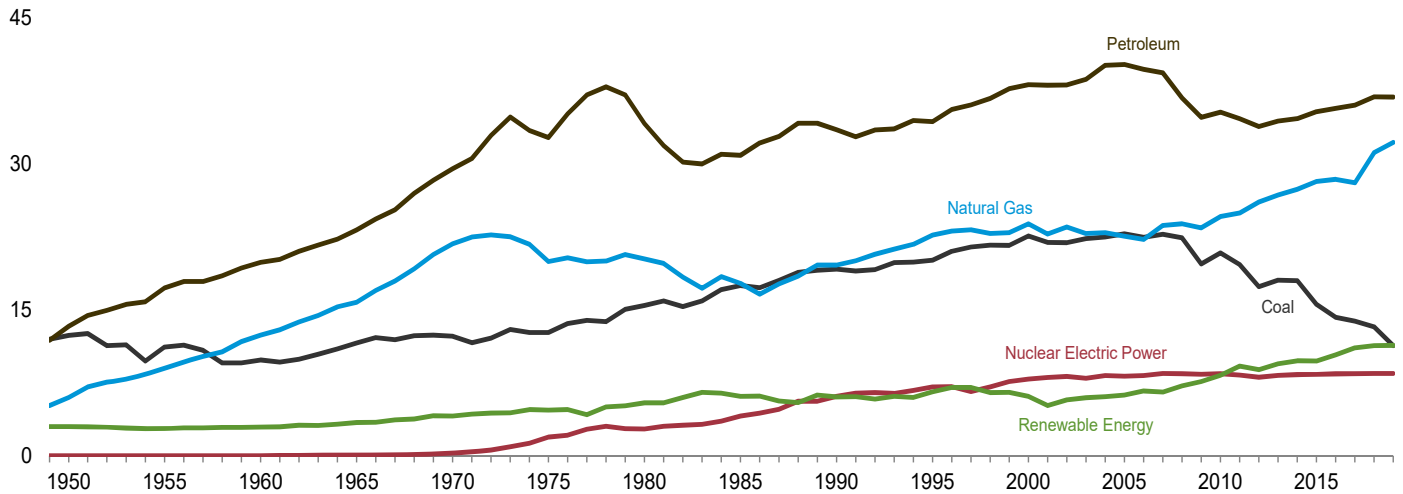
Web Page: See <http://www.eia.gov/totalenergy/data/monthly/#summary> (Excel and CSV files) for all available annual data beginning in 1949 and monthly data beginning in 1973.

Sources: See end of section.

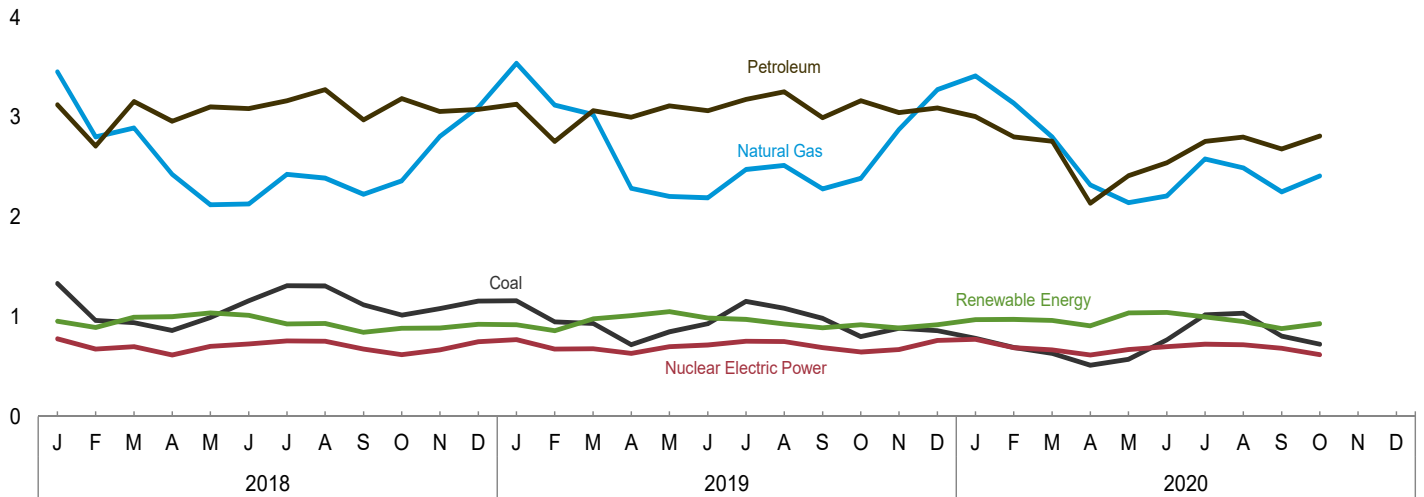
Figure 1.3 Primary Energy Consumption

(Quadrillion Btu)

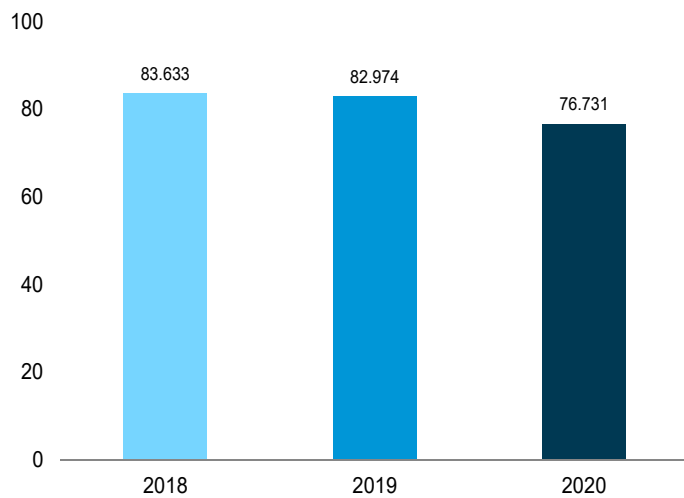
By Source, [a] 1949–2020



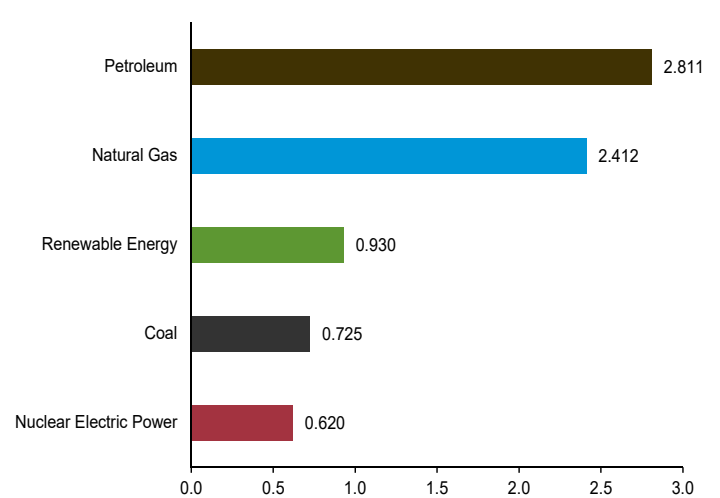
By Source, [a] Monthly



Total, January–October



By Source, [a] October 2020



[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 ⁹
	Coal	Natural Gas ^c	Petroleum ^d	Total ^e		Hydro-electric Power ^f	Geo-thermal	Solar	Wind	Bio-mass	Total	
1950 Total	12.347	5.968	13.298	31.615	0.000	1.415	NA	NA	NA	1.562	2.978	34.599
1955 Total	11.167	8.998	17.225	37.380	.000	1.360	NA	NA	NA	1.424	2.784	40.178
1960 Total	9.838	12.385	19.874	42.091	.006	1.608	(s)	NA	NA	1.320	2.928	45.041
1965 Total	11.581	15.769	23.184	50.515	.043	2.059	.002	NA	NA	1.335	3.396	53.953
1970 Total	12.265	21.795	29.499	63.501	.239	2.634	.006	NA	NA	1.431	4.070	67.817
1975 Total	12.663	19.948	32.699	65.323	1.900	3.155	.034	NA	NA	1.499	4.687	71.931
1980 Total	15.423	20.235	34.159	69.782	2.739	2.900	.053	NA	NA	2.475	5.428	78.021
1985 Total	17.478	17.703	30.866	66.035	4.076	2.970	.097	(s)	(s)	3.016	6.084	76.334
1990 Total	19.173	19.603	33.500	72.281	6.104	3.046	.171	.059	.029	2.735	6.040	84.433
1995 Total	20.089	22.671	34.341	77.162	7.075	3.205	.152	.068	.033	3.101	6.559	90.931
2000 Total	22.580	23.824	38.152	84.620	7.862	2.811	.164	.063	.057	3.008	6.104	98.702
2001 Total	21.914	22.773	38.084	82.800	8.029	2.242	.164	.062	.070	2.622	5.160	96.064
2002 Total	21.904	23.510	38.117	83.592	8.145	2.689	.171	.060	.105	2.701	5.726	97.535
2003 Total	22.321	22.831	38.707	83.909	7.960	2.793	.173	.058	.113	2.806	5.944	97.835
2004 Total	22.466	22.923	40.139	85.666	8.223	2.688	.178	.058	.142	3.008	6.075	100.002
2005 Total	22.797	22.565	40.217	85.623	8.161	2.703	.181	.058	.178	3.114	6.234	100.102
2006 Total	22.447	22.239	39.731	84.477	8.215	2.869	.181	.061	.264	3.262	6.637	99.392
2007 Total	22.749	23.663	39.368	85.805	8.459	2.446	.186	.066	.341	3.485	6.523	100.893
2008 Total	22.387	23.843	36.769	83.041	8.426	2.511	.192	.074	.546	3.851	7.175	98.754
2009 Total	19.691	23.416	34.779	77.862	8.355	2.669	.200	.078	.721	3.940	7.608	93.942
2010 Total	20.834	24.575	35.321	80.723	8.434	2.539	.208	.091	.923	4.506	8.267	97.513
2011 Total	19.658	24.955	34.639	79.263	8.269	3.103	.212	.112	1.168	4.609	9.204	96.863
2012 Total	17.378	26.089	33.833	77.304	8.062	2.629	.212	.159	1.340	4.508	8.847	94.374
2013 Total	18.039	26.805	34.398	79.224	8.244	2.562	.214	.225	1.601	4.848	9.451	97.117
2014 Total	17.998	27.383	34.658	80.017	8.338	2.467	.214	.338	1.728	4.994	9.740	98.276
2015 Total	15.549	28.191	35.368	79.090	8.337	2.321	.212	.427	1.777	4.983	9.721	97.375
2016 Total	14.226	28.400	35.712	78.319	8.427	2.472	.210	.570	2.096	5.015	10.363	97.335
2017 Total	13.837	28.055	36.043	77.907	8.419	2.767	.210	.777	2.343	4.979	11.077	97.595
2018 January	1.334	3.456	3.126	7.911	.780	.228	.018	.049	.233	.426	.954	9.660
February	.963	2.803	2.711	6.476	.677	.227	.016	.055	.211	.382	.892	8.057
March	.941	2.892	3.159	6.990	.701	.235	.018	.074	.241	.428	.996	8.701
April	.863	2.429	2.962	6.251	.618	.256	.016	.086	.241	.402	1.001	7.881
May	.993	2.123	3.104	6.219	.704	.277	.018	.096	.218	.430	1.040	7.977
June	1.160	2.132	3.089	6.380	.729	.251	.017	.102	.225	.419	1.015	8.137
July	1.311	2.429	3.165	6.903	.758	.229	.018	.097	.150	.435	.928	8.604
August	1.309	2.391	3.277	6.976	.756	.200	.018	.095	.181	.440	.934	8.683
September	1.120	2.228	2.975	6.322	.677	.174	.017	.085	.169	.400	.845	7.854
October	1.017	2.362	3.187	6.564	.621	.178	.017	.072	.193	.423	.884	8.078
November	1.082	2.808	3.057	6.943	.669	.199	.017	.056	.200	.414	.887	8.508
December	1.158	3.101	3.080	7.336	.749	.208	.019	.048	.221	.429	.925	9.021
Total	13.252	31.153	36.892	81.271	8.438	2.663	.209	.916	2.482	5.031	11.301	101.162
2019 January	1.161	3.542	3.130	7.830	.770	.221	.018	.052	.216	.413	.920	9.531
February	.949	3.123	2.757	6.828	.676	.204	.016	.056	.201	.383	.860	8.375
March	.933	3.028	3.065	7.025	.680	.234	.018	.084	.229	.413	.978	8.691
April	.719	2.288	3.001	6.007	.633	.248	.016	.095	.257	.397	1.013	7.661
May	.850	2.207	3.116	6.171	.701	.285	.017	.102	.229	.420	1.053	7.935
June	.931	2.192	3.065	6.186	.718	.250	.017	.110	.199	.412	.988	7.905
July	1.154	2.476	3.179	6.807	.754	.221	.018	.113	.196	.425	.973	8.547
August	1.086	2.517	3.255	6.857	.751	.201	.018	.109	.178	.423	.929	8.551
September	.986	2.282	2.995	6.260	.690	.165	.017	.095	.218	.395	.890	7.852
October	.801	2.387	3.165	6.351	.648	.163	.016	.085	.245	.412	.921	7.927
November	.885	2.878	3.046	6.807	.670	.180	.014	.063	.223	.407	.887	8.376
December	.860	3.277	3.093	7.227	.763	.191	.016	.053	.236	.424	.920	8.924
Total	11.316	32.196	36.866	80.357	8.452	2.563	.201	1.018	2.626	4.924	11.332	100.274
2020 January	.785	3.415	3.007	7.206	.774	.226	.017	.066	.251	.412	.971	8.963
February	.694	3.141	2.805	6.639	.689	.235	.016	.078	.259	.386	.974	8.311
March	.633	2.805	2.761	6.198	.668	.209	.019	.093	.260	.383	.963	7.842
April	.515	2.324	2.140	4.978	.618	.196	.018	.112	.261	.323	.910	6.517
May	.575	2.144	2.416	5.136	.672	.272	.018	.131	.251	.365	1.038	6.858
June	.769	2.211	2.544	5.523	.702	.259	.017	.130	.266	.371	1.044	7.281
July	^R 1.021	2.583	2.759	^R 6.364	.725	.247	.018	.139	.201	.392	.998	^R 8.105
August	^R 1.035	2.494	2.801	^R 6.329	.720	.216	.018	.128	.201	.390	.952	^R 8.022
September	^R .807	^R 2.252	2.683	^R 5.741	.686	.171	.018	.109	.206	.380	.883	^R 7.324
October	.725	2.412	2.811	5.947	.620	.163	.018	.101	.262	.386	.930	7.509
10-Month Total	7.559	25.783	26.727	60.060	6.874	2.194	.177	1.087	2.418	3.787	9.663	76.731
2019 10-Month Total	9.571	26.040	30.727	66.322	7.019	2.192	.171	.902	2.167	4.093	9.526	82.974
2018 10-Month Total	11.011	25.245	30.755	66.991	7.020	2.256	.173	.811	2.061	4.187	9.489	83.633

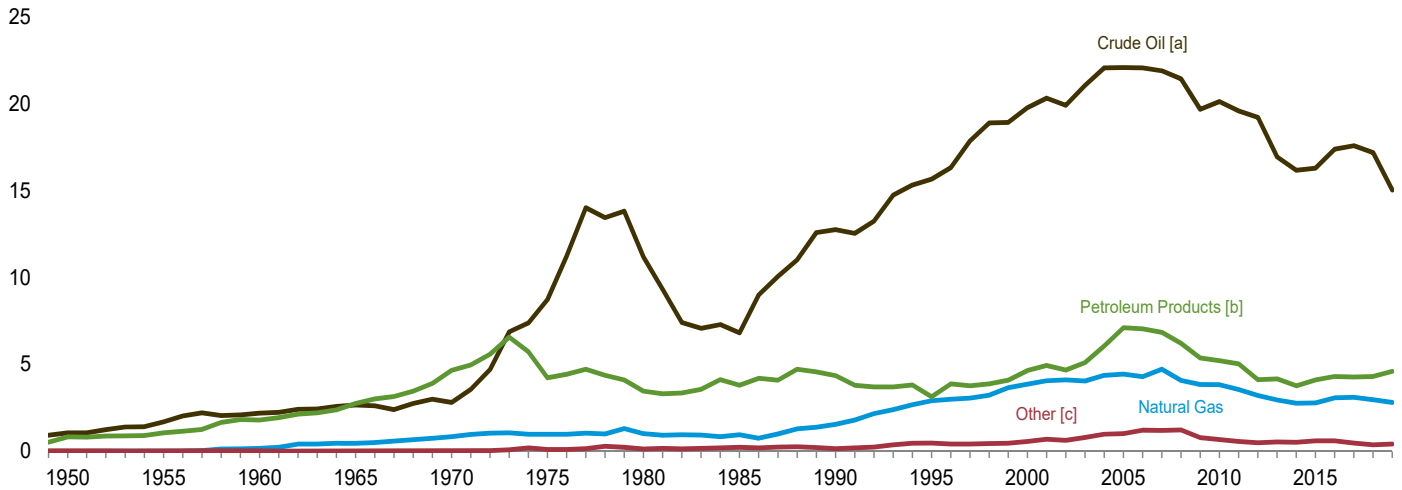
^a Includes non-combustion use of fossil fuels.
^b Most data are estimates. See Tables 10.1–10.2c for notes on series components and estimation; and see Note, "Renewable Energy Production and Consumption," at end of Section 10.
^c Natural gas only; excludes supplemental gaseous fuels. See Note 3, "Supplemental 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 1.4c.
^f Conventional hydroelectric power.
⁹ Includes coal coke net imports and electricity net imports, which are not

separately displayed. See Tables 1.4c.
^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.

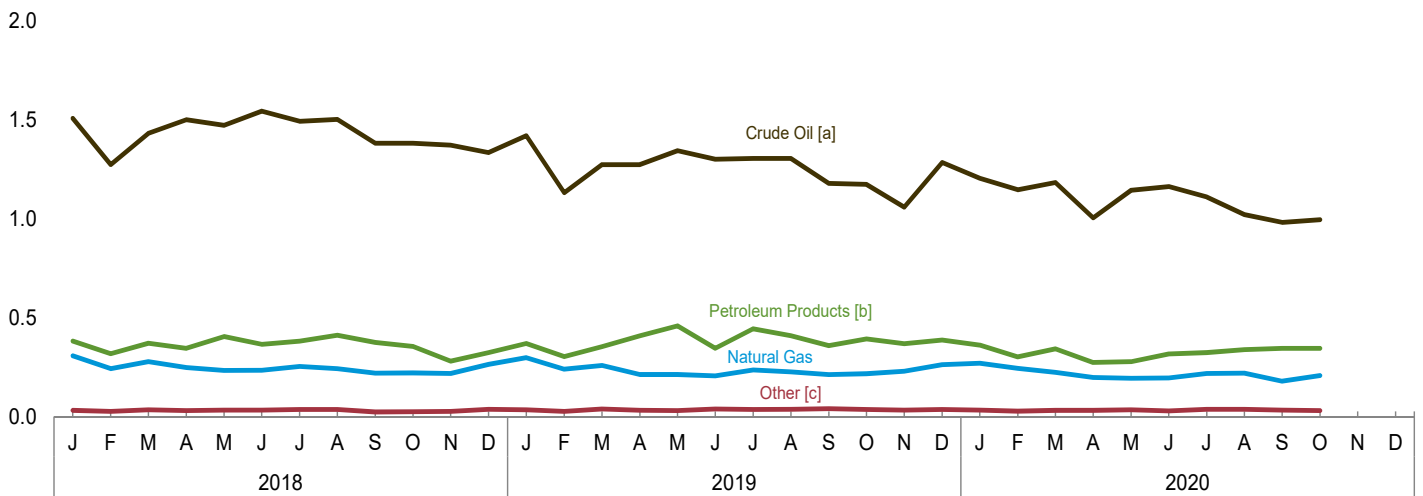
Figure 1.4a Primary Energy Imports

(Quadrillion Btu)

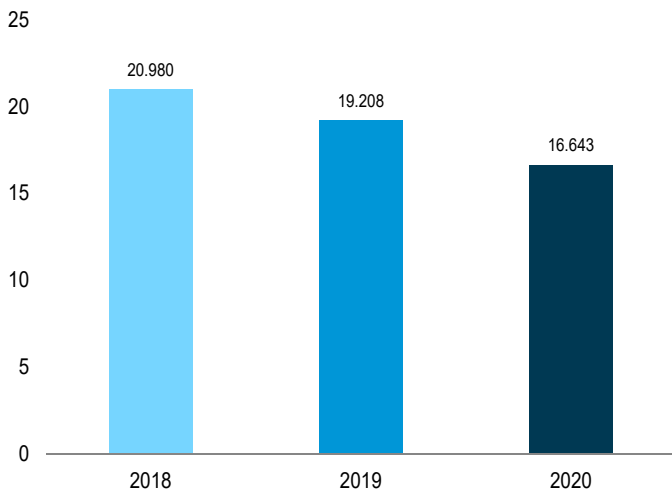
By Source, 1949–2019



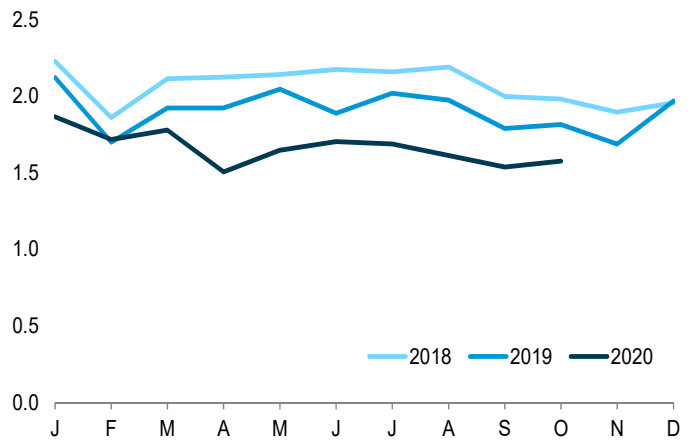
By Source, Monthly



Total, January–October



Total, 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.

[c] Coal, coal coke, biomass, and electricity.

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

Source: Table 1.4a.

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 Total .....	.220	.006	3.082	17.392	4.309	21.700	.123	.248	25.378
2017 Total .....	.168	.001	3.109	17.597	4.277	21.874	.081	.224	25.458
2018 January .....	.010	(s)	.307	1.507	.381	1.888	.004	.018	2.228
February .....	.007	(s)	.243	1.273	.318	1.591	.003	.016	1.861
March .....	.011	(s)	.278	1.432	.371	1.803	.004	.019	2.114
April .....	.010	.001	.248	1.501	.345	1.847	.004	.015	2.125
May .....	.011	.001	.233	1.472	.404	1.876	.004	.018	2.142
June .....	.010	(s)	.234	1.544	.365	1.909	.004	.019	2.176
July .....	.014	(s)	.253	1.492	.382	1.873	.002	.018	2.161
August .....	.010	(s)	.243	1.502	.411	1.913	.005	.021	2.192
September .....	.005	(s)	.219	1.381	.375	1.756	.003	.015	1.999
October .....	.006	.001	.221	1.382	.354	1.736	.006	.013	1.982
November .....	.008	(s)	.218	1.372	.280	1.652	.005	.013	1.896
December .....	.018	(s)	.264	1.334	.323	1.657	.004	.014	1.958
Total .....	.122	.003	2.961	17.192	4.309	21.501	.048	.199	24.833
2019 January .....	.013	(s)	.298	1.420	.370	1.790	.005	.016	2.122
February .....	.007	(s)	.239	1.132	.303	1.435	.003	.016	1.700
March .....	.015	(s)	.259	1.274	.353	1.628	.006	.017	1.925
April .....	.011	.001	.212	1.273	.409	1.681	.006	.015	1.925
May .....	.008	(s)	.213	1.344	.459	1.803	.005	.016	2.046
June .....	.014	(s)	.206	1.300	.345	1.645	.007	.018	1.889
July .....	.011	(s)	.236	1.304	.444	1.748	.007	.019	2.021
August .....	.011	.001	.226	1.305	.408	1.713	.006	.020	1.975
September .....	.013	(s)	.213	1.179	.358	1.537	.007	.018	1.789
October .....	.015	(s)	.216	1.173	.392	1.565	.007	.012	1.816
November .....	.010	.001	.229	1.058	.368	1.426	.006	.017	1.688
December .....	.011	(s)	.262	1.284	.387	1.671	.007	.018	1.969
Total .....	.138	.003	2.810	15.045	4.596	19.641	.072	.201	22.865
2020 January .....	.011	(s)	.269	1.204	.361	1.565	.006	.016	1.866
February .....	.007	(s)	.244	1.146	.302	1.448	.005	.015	1.719
March .....	.009	(s)	.223	1.183	.342	1.525	.005	.017	1.779
April .....	.007	(s)	.198	1.004	.274	1.278	.007	.016	1.507
May .....	.010	.001	.194	1.144	.278	1.421	.005	.018	1.649
June .....	.006	(s)	.195	1.163	.317	1.480	.006	.018	1.704
July .....	.010	(s)	.218	1.110	.324	1.434	.005	.023	1.689
August .....	.006	(s)	.219	1.021	.338	1.358	.007	.023	1.614
September .....	.010	.001	.179	.981	.345	1.327	.006	.016	1.539
October .....	.005	.002	.207	.995	.345	1.339	.007	.015	1.576
10-Month Total .....	.083	.004	2.145	10.950	3.226	14.176	.058	.177	16.643
2019 10-Month Total .....	.118	.002	2.318	12.704	3.840	16.544	.058	.167	19.208
2018 10-Month Total .....	.095	.003	2.480	14.486	3.706	18.192	.039	.172	20.980

^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.

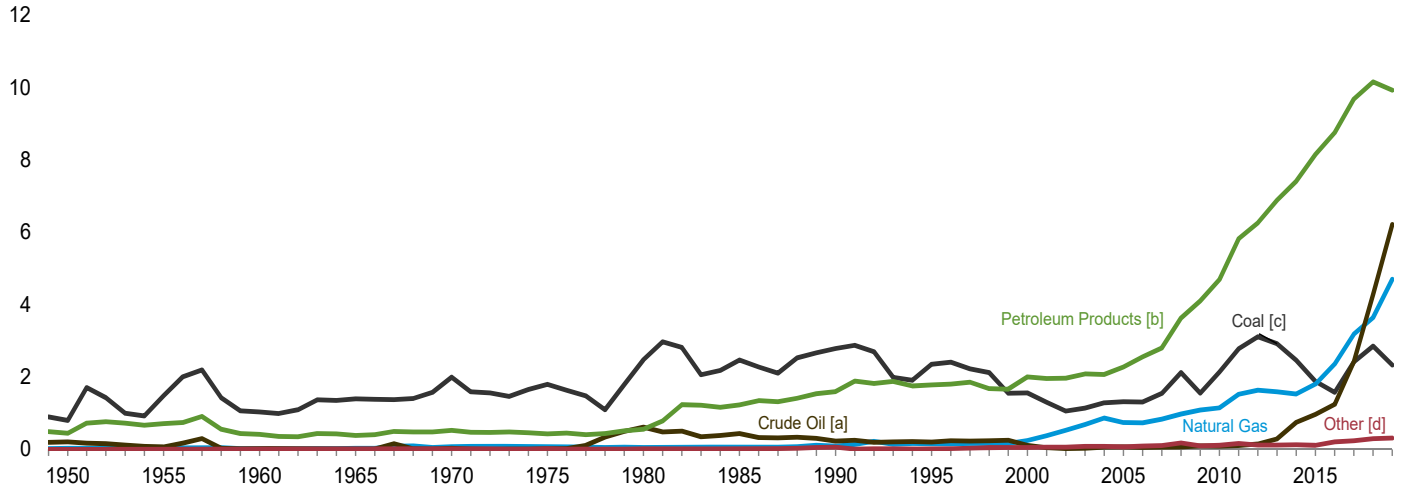
Web Page: See <http://www.eia.gov/totalenergy/data/monthly/#summary> (Excel and CSV files) for all available annual data beginning in 1949 and monthly data beginning in 1973.

Sources: See end of section.

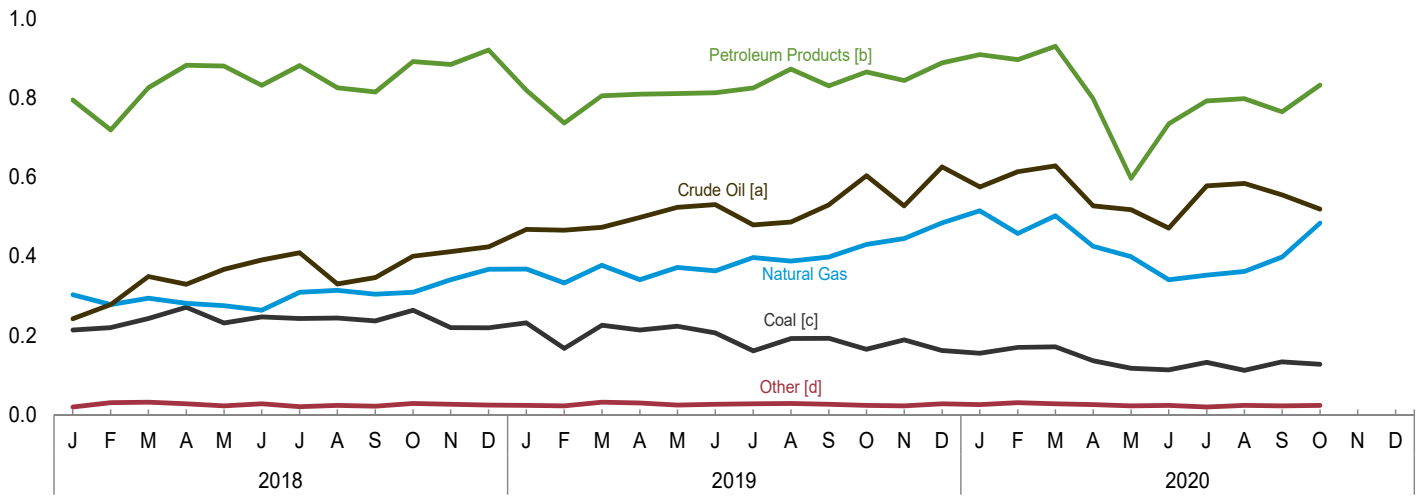
Figure 1.4b Primary Energy Exports

(Quadrillion Btu)

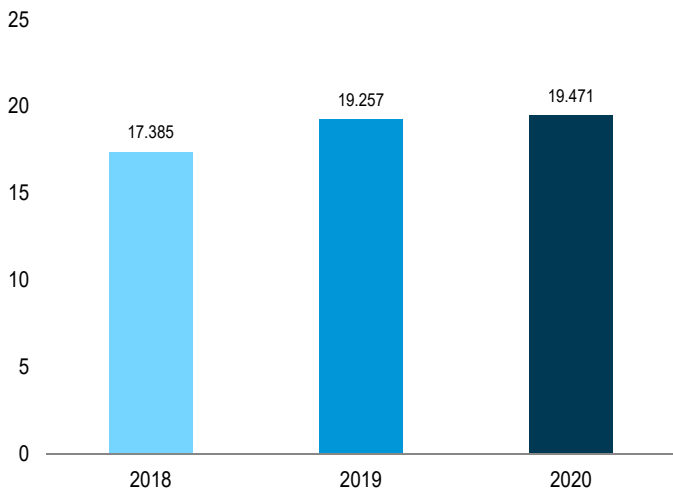
By Source, 1949-2019



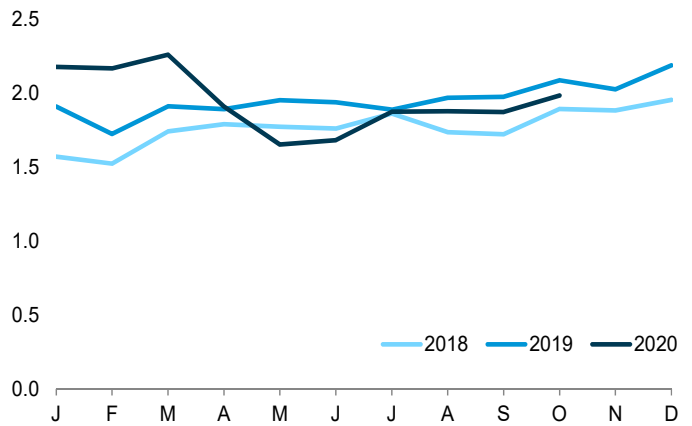
By Source, Monthly



Total, January–October



Total, Monthly



[a] Crude oil and lease condensate.

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

[c] Includes coal coke.

[d] Biomass and electricity

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

Source: Table 1.4b.

Table 1.4b Primary Energy Exports by Source
(Quadrillion Btu)

	Exports								
	Coal	Coal Coke	Natural Gas	Petroleum			Biomass ^c	Electricity	Total
				Crude Oil ^a	Petroleum Products ^b	Total			
1950 Total	0.786	0.010	0.027	0.202	0.440	0.642	NA	0.001	1.465
1955 Total	1.465	.013	.032	.067	.707	.774	NA	.002	2.286
1960 Total	1.023	.009	.012	.018	.413	.431	NA	.003	1.477
1965 Total	1.376	.021	.027	.006	.386	.392	NA	.013	1.829
1970 Total	1.936	.061	.072	.029	.520	.549	NA	.014	2.632
1975 Total	1.761	.032	.074	.012	.427	.439	NA	.017	2.323
1980 Total	2.421	.051	.049	.609	.551	1.160	NA	.014	3.695
1985 Total	2.438	.028	.056	.432	1.225	1.657	NA	.017	4.196
1990 Total	2.772	.014	.087	.230	1.594	1.824	NA	.055	4.752
1995 Total	2.318	.034	.156	.200	1.776	1.976	NA	.012	4.496
2000 Total	1.528	.028	.245	.106	2.003	2.110	NA	.051	3.962
2001 Total	1.265	.033	.377	.043	1.956	1.999	(s)	.056	3.731
2002 Total	1.032	.020	.520	.019	1.963	1.982	(s)	.054	3.608
2003 Total	1.117	.018	.686	.026	2.083	2.110	.001	.082	4.013
2004 Total	1.253	.033	.862	.057	2.068	2.125	.001	.078	4.351
2005 Total	1.273	.043	.735	.067	2.276	2.344	.001	.065	4.462
2006 Total	1.264	.040	.730	.052	2.554	2.606	.005	.083	4.727
2007 Total	1.507	.036	.830	.058	2.803	2.861	.036	.069	5.338
2008 Total	2.071	.049	.972	.061	3.626	3.686	.089	.083	6.949
2009 Total	1.515	.032	1.082	.093	4.101	4.194	.035	.062	6.920
2010 Total	2.101	.036	1.147	.088	4.691	4.780	.047	.065	8.176
2011 Total	2.751	.024	1.519	.100	5.820	5.919	.108	.051	10.373
2012 Total	3.087	.024	1.633	.143	6.261	6.404	.078	.041	11.267
2013 Total	2.895	.021	1.587	.284	6.886	7.170	.076	.039	11.788
2014 Total	2.435	.023	1.528	.744	7.414	8.158	.081	.045	12.270
2015 Total	1.852	.021	1.800	.964	8.153	9.118	.080	.031	12.902
2016 Total	1.546	.025	2.356	1.238	8.752	9.990	.181	.021	14.119
2017 Total	2.388	.030	3.182	2.424	9.684	12.108	.206	.032	17.946
2018 January .....	.210	.004	.303	.242	.795	1.037	.015	.004	1.572
February .....	.218	.001	.278	.278	.719	.997	.025	.004	1.525
March .....	.240	.002	.294	.349	.826	1.175	.026	.004	1.742
April .....	.268	.003	.281	.329	.883	1.213	.021	.006	1.792
May .....	.228	.002	.275	.367	.881	1.248	.018	.004	1.775
June .....	.246	.002	.264	.391	.832	1.224	.023	.004	1.762
July .....	.241	.002	.309	.409	.882	1.291	.017	.003	1.863
August .....	.243	.001	.314	.330	.826	1.155	.019	.004	1.737
September .....	.235	.001	.304	.346	.815	1.161	.018	.004	1.723
October .....	.262	.002	.309	.400	.892	1.293	.025	.003	1.894
November .....	.217	.003	.341	.412	.885	1.297	.022	.004	1.884
December .....	.216	.003	.367	.424	.921	1.345	.021	.003	1.955
Total	2.824	.029	3.640	4.277	10.158	14.434	.249	.047	21.224
2019 January .....	.229	.003	.368	.468	.820	1.287	.018	.005	1.910
February .....	.166	.001	.333	.466	.737	1.203	.017	.005	1.725
March .....	.225	.001	.377	.473	.806	1.279	.022	.009	1.912
April .....	.212	.002	.341	.498	.810	1.309	.022	.007	1.893
May .....	.221	.002	.372	.524	.811	1.335	.019	.006	1.954
June .....	.204	.002	.363	.531	.813	1.344	.021	.005	1.940
July .....	.159	.002	.397	.479	.825	1.304	.020	.007	1.889
August .....	.190	.002	.388	.487	.873	1.360	.022	.006	1.969
September .....	.190	.003	.398	.530	.831	1.360	.019	.006	1.977
October .....	.162	.003	.430	.604	.866	1.470	.018	.005	2.088
November .....	.186	.002	.445	.527	.844	1.372	.018	.004	2.028
December .....	.160	.003	.485	.626	.889	1.515	.023	.004	2.190
Total	2.305	.024	4.698	6.212	9.926	16.139	.240	.068	23.474
2020 January .....	.153	.002	.515	.575	.910	1.485	.020	.005	2.180
February .....	.168	.002	.458	.614	.897	1.511	.025	.006	2.169
March .....	.170	.001	.502	.629	.931	1.561	.023	.004	2.261
April .....	.135	.001	.425	.527	.798	1.325	.020	.005	1.911
May .....	.116	.001	.399	.518	.597	1.115	.016	.005	1.653
June .....	.113	(s)	.341	.471	.735	1.206	.019	.004	1.684
July .....	.132	.001	.352	.578	.793	1.371	.015	.004	1.875
August .....	.111	.001	.362	.584	.798	1.382	.020	.003	1.879
September .....	.132	.001	.398	.555	.765	1.320	^R .019	.003	^R 1.874
October .....	.124	.003	.484	.519	.833	1.352	.020	.003	1.985
10-Month Total	1.353	.013	4.236	5.570	8.059	13.629	.196	.043	19.471
2019 10-Month Total	1.959	.019	3.768	5.059	8.193	13.252	.199	.060	19.257
2018 10-Month Total	2.391	.022	2.932	3.441	8.352	11.793	.207	.040	17.385

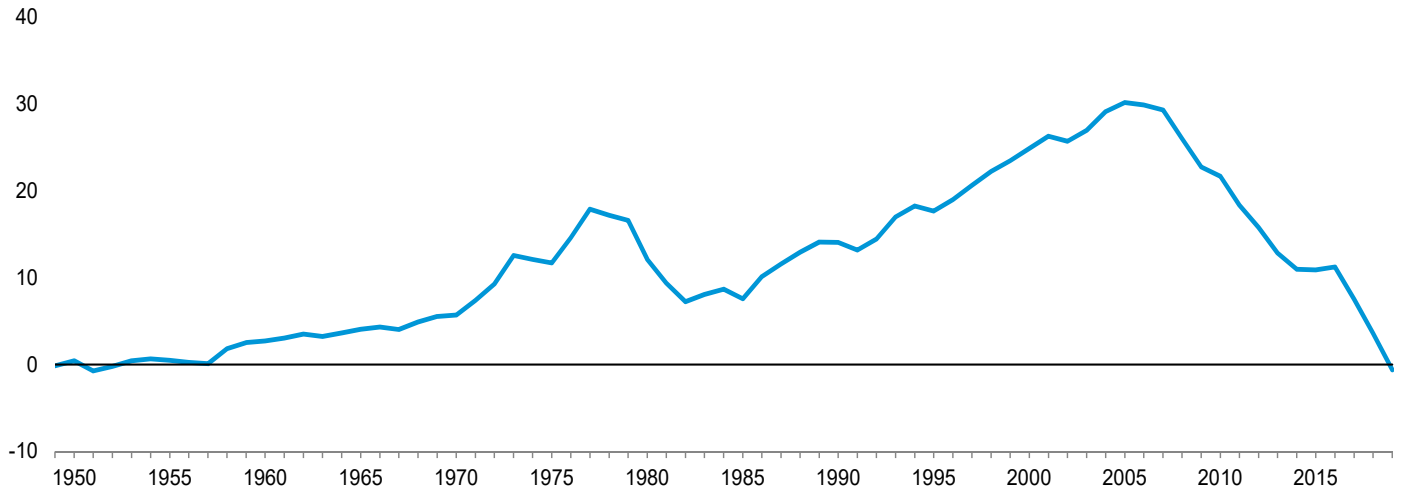
^a Crude oil and lease condensate.
^b Petroleum products, unfinished oils, natural gasoline, and gasoline blending components. Does not include biofuels.
^c Beginning in 2001, includes biodiesel. Beginning in 2010, also includes fuel ethanol (minus denaturant). Beginning in 2016, also includes wood and 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.

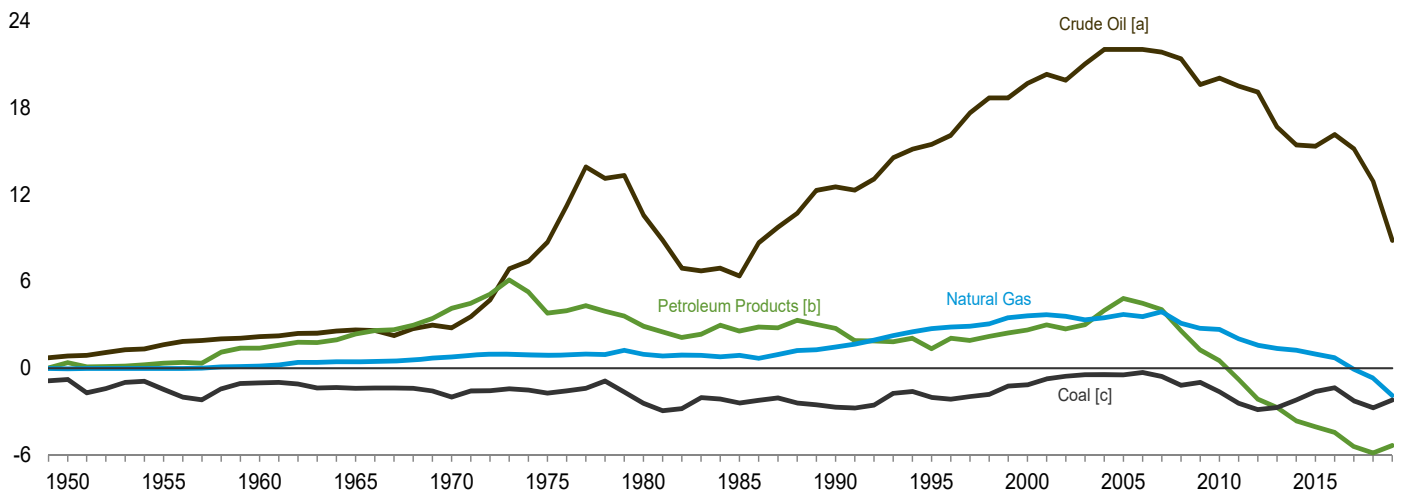
Figure 1.4c Primary Energy Net Imports

(Quadrillion Btu)

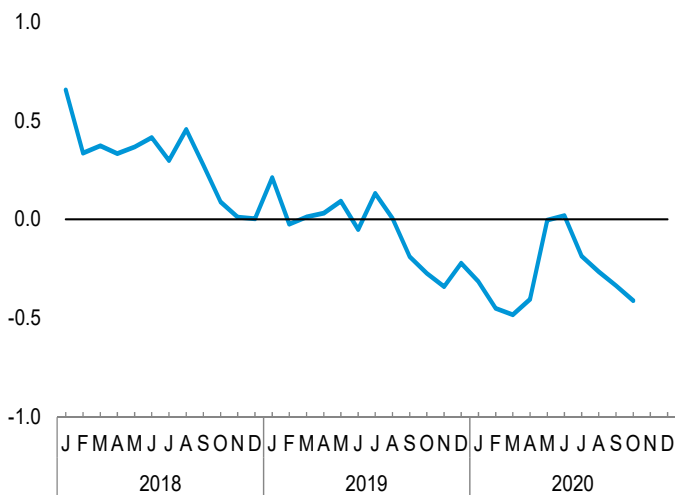
Total, 1949–2019



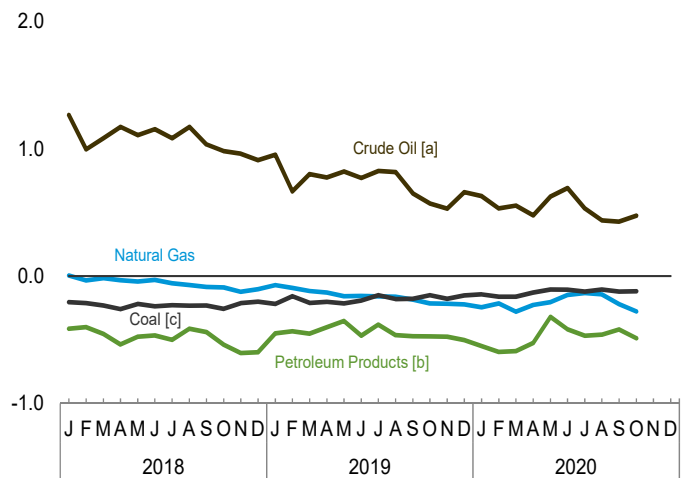
By Major Source, 1949–2019



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.

[c] Includes coal coke.

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

Source: Table 1.4c.

Table 1.4c Primary Energy Net Imports by Source
(Quadrillion Btu)

	Net Imports ^a								
	Coal	Coal Coke	Natural Gas	Petroleum			Biomass ^d	Electricity	Total
				Crude Oil ^b	Petroleum Products ^c	Total			
1950 Total	-0.777	0.001	-0.027	0.854	0.390	1.244	NA	0.006	0.448
1955 Total	-1.456	-0.010	-0.021	1.624	.354	1.978	NA	.014	.504
1960 Total	-1.017	-0.006	.149	2.178	1.389	3.568	NA	.015	2.710
1965 Total	-1.372	-0.018	.444	2.648	2.362	5.010	NA	(s)	4.063
1970 Total	-1.935	-0.058	.774	2.785	4.136	6.921	NA	.007	5.709
1975 Total	-1.738	.014	.904	8.708	3.800	12.508	NA	.021	11.709
1980 Total	-2.391	-0.035	.957	10.586	2.912	13.499	NA	.071	12.101
1985 Total	-2.389	-0.013	.896	6.381	2.570	8.952	NA	.140	7.584
1990 Total	-2.705	.005	1.464	12.536	2.757	15.293	NA	.008	14.065
1995 Total	-2.081	.061	2.745	15.469	1.355	16.824	.001	.134	17.684
2000 Total	-1.215	.065	3.623	19.676	2.638	22.314	(s)	.115	24.904
2001 Total	-.771	.029	3.691	20.305	2.990	23.294	.001	.075	26.321
2002 Total	-.610	.061	3.583	19.901	2.714	22.615	.002	.072	25.722
2003 Total	-.491	.051	3.356	21.034	3.021	24.055	.001	.022	26.994
2004 Total	-.571	.138	3.503	22.025	3.995	26.020	.012	.039	29.141
2005 Total	-.512	.044	3.714	22.023	4.831	26.855	.011	.085	30.197
2006 Total	-.358	.061	3.560	22.032	4.501	26.533	.062	.063	29.921
2007 Total	-.598	.025	3.893	21.855	4.040	25.895	.019	.107	29.341
2008 Total	-1.215	.041	3.112	21.388	2.588	23.976	-.004	.112	26.021
2009 Total	-.949	-.024	2.763	19.606	1.266	20.872	-.009	.116	22.770
2010 Total	-1.617	-.006	2.687	20.052	.528	20.580	-.042	.089	21.690
2011 Total	-2.423	.011	2.036	19.495	-.781	18.714	-.089	.127	18.375
2012 Total	-2.875	.004	1.583	19.096	-2.139	16.957	-.029	.161	15.801
2013 Total	-2.696	-.017	1.369	16.673	-2.717	13.956	-.026	.197	12.835
2014 Total	-2.183	-.022	1.235	15.434	-3.641	11.793	-.034	.182	10.971
2015 Total	-1.596	-.018	.986	15.335	-4.042	11.292	-.001	.227	10.892
2016 Total	-1.326	-.019	.725	16.154	-4.443	11.710	-.058	.227	11.259
2017 Total	-2.220	-.029	-.073	15.173	-5.407	9.766	-.124	.192	7.512
2018									
January	-.200	-.004	.004	1.265	-.414	.851	-.011	.014	.655
February	-.211	-.001	-.035	.995	-.401	.594	-.023	.012	.336
March	-.230	-.002	-.017	1.083	-.455	.628	-.022	.015	.372
April	-.258	-.002	-.033	1.172	-.538	.634	-.017	.010	.333
May	-.217	-.002	-.042	1.106	-.477	.628	-.014	.014	.367
June	-.235	-.001	-.030	1.153	-.467	.685	-.019	.015	.414
July	-.227	-.002	-.056	1.082	-.500	.582	-.014	.015	.298
August	-.233	-.001	-.071	1.172	-.414	.758	-.015	.017	.454
September	-.230	-.001	-.085	1.035	-.440	.595	-.014	.011	.275
October	-.255	-.002	-.089	.982	-.539	.444	-.019	.010	.088
November	-.209	-.003	-.123	.960	-.605	.355	-.016	.009	.012
December	-.198	-.003	-.104	.910	-.598	.312	-.016	.011	.003
Total	-2.702	-.026	-.679	12.915	-5.849	7.066	-.201	.152	3.610
2019									
January	-.217	-.003	-.070	.952	-.450	.503	-.013	.011	-.212
February	-.159	-.001	-.094	.666	-.434	.232	-.014	.011	-.024
March	-.210	-.001	-.118	.801	-.453	.349	-.016	.008	.013
April	-.201	-.001	-.130	.774	-.402	.373	-.017	.008	.032
May	-.212	-.002	-.159	.821	-.352	.468	-.013	.010	.092
June	-.191	-.002	-.157	.770	-.469	.301	-.014	.012	-.051
July	-.149	-.002	-.161	.825	-.381	.444	-.014	.013	.132
August	-.180	-.001	-.163	.817	-.465	.353	-.017	.014	.006
September	-.177	-.002	-.185	.649	-.473	.176	-.012	.012	-.188
October	-.147	-.002	-.214	.569	-.474	.095	-.011	.007	-.272
November	-.177	-.002	-.216	.530	-.476	.055	-.012	.012	-.340
December	-.149	-.003	-.223	.658	-.502	.156	-.016	.014	-.221
Total	-2.167	-.021	-1.888	8.833	-5.331	3.502	-.168	.133	-6.099
2020									
January	-.142	-.001	-.246	.629	-.549	.080	-.014	.011	-.314
February	-.161	-.002	-.214	.532	-.595	-.063	-.020	.010	-.450
March	-.160	-.001	-.279	.554	-.589	-.036	-.018	.013	-.482
April	-.127	-.001	-.226	.477	-.524	-.047	-.013	.011	-.404
May	-.106	(s)	-.205	.625	-.320	.306	-.011	.012	-.004
June	-.107	(s)	-.147	.692	-.418	.274	-.013	.013	.020
July	-.122	(s)	-.134	.532	-.469	.063	-.011	.019	-.186
August	-.105	-.001	-.143	.437	-.461	-.023	-.013	.020	-.265
September	-.122	-.001	-.220	.427	-.420	.007	R-.013	.013	R-.335
October	-.119	-.001	-.277	.475	-.488	-.017	-.013	.013	-.410
10-Month Total	-1.270	-.009	-2.091	5.380	-4.833	.547	-.137	.134	-2.827
2019 10-Month Total	-1.842	-.016	-1.449	7.645	-4.353	3.292	-.141	.107	-.049
2018 10-Month Total	-2.296	-.020	-.453	11.045	-4.646	6.399	-.168	.132	3.594

^a Net imports equal imports minus exports.

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

^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.

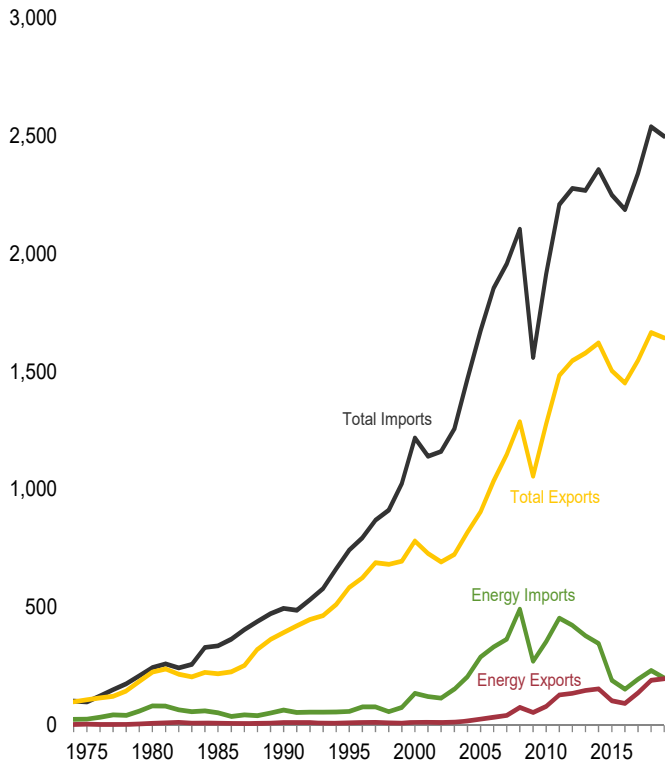
Web Page: See <http://www.eia.gov/totalenergy/data/monthly/#summary> (Excel and CSV files) for all available annual data beginning in 1949 and monthly data beginning in 1973.

Sources: Tables 1.4a and 1.4b.

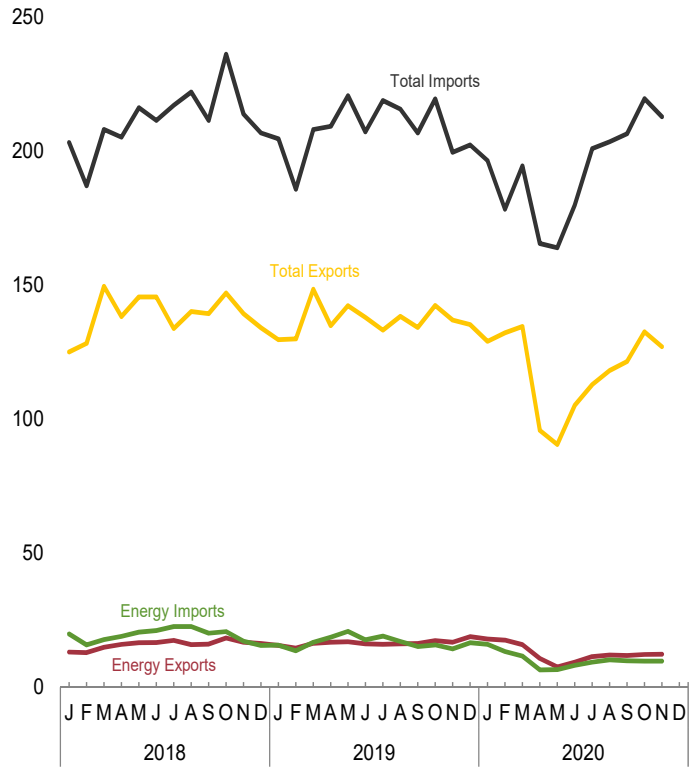
Figure 1.5 Merchandise Trade Value

(Billion Dollars[a])

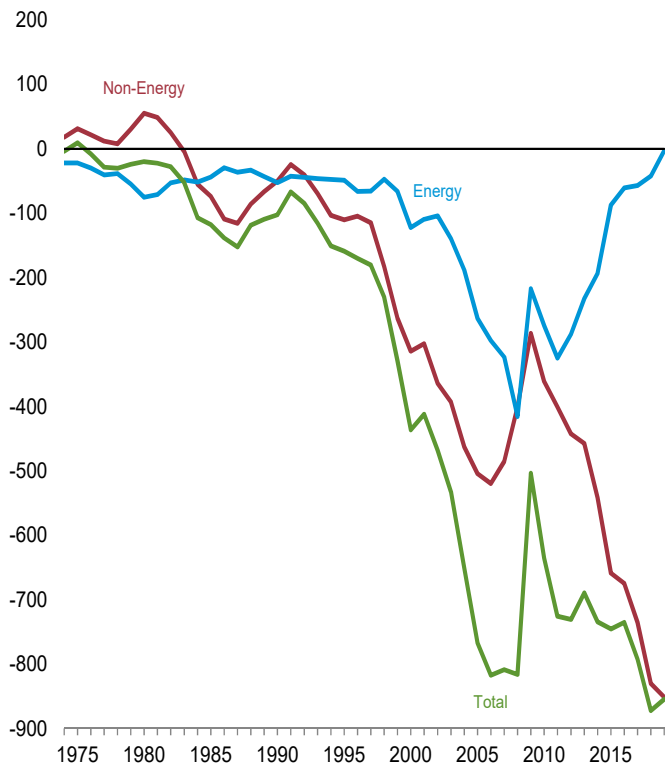
Imports and Exports, 1974–2019



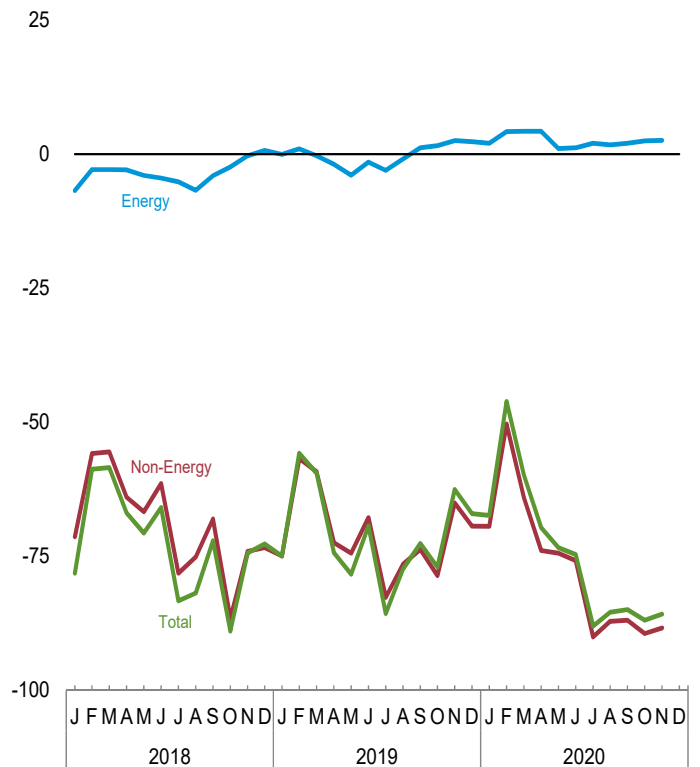
Imports and Exports, Monthly



Trade Balance, 1974–2019



Trade Balance, Monthly



[a] Prices are not adjusted for inflation. See “Nominal Dollars” in Glossary.
 Web Page: <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	111,949	408,509	-296,560	136,054	423,860	-287,806	-442,640	1,545,821	2,276,267	-730,446
2013 Total	123,244	363,141	-239,897	147,572	379,758	-232,186	-457,284	1,578,517	2,267,987	-689,470
2014 Total	127,818	326,709	-198,891	154,988	347,474	-192,976	-541,506	1,621,874	2,356,356	-734,482
2015 Total	85,890	177,455	-91,565	103,612	190,501	-86,889	-658,594	1,503,328	2,248,811	-745,483
2016 Total	74,921	142,920	-67,999	92,971	153,800	-60,829	-674,497	1,451,460	2,186,786	-735,326
2017 Total	104,975	181,672	-76,697	137,920	194,790	-56,870	-735,526	1,547,195	2,339,591	-792,396
2018 January	10,015	18,086	-8,071	13,086	19,870	-6,784	-71,369	125,034	203,187	-78,153
February	9,786	14,623	-4,837	12,859	15,746	-2,887	-55,844	128,235	186,966	-58,731
March	11,571	16,733	-5,162	14,880	17,788	-2,908	-55,534	149,547	207,989	-58,442
April	12,710	18,028	-5,318	15,953	18,898	-2,945	-63,956	138,235	205,136	-66,901
May	13,118	19,738	-6,620	16,587	20,544	-3,957	-66,696	145,513	216,167	-70,653
June	13,477	20,295	-6,818	16,609	21,082	-4,473	-61,415	145,503	211,391	-65,888
July	13,777	21,605	-7,828	17,476	22,624	-5,148	-78,139	133,740	217,027	-83,287
August	12,248	21,597	-9,349	15,870	22,621	-6,751	-75,119	140,118	221,988	-81,870
September	12,708	19,282	-6,574	16,088	20,123	-4,035	-68,044	139,331	211,410	-72,079
October	14,637	19,760	-5,123	18,362	20,760	-2,398	-86,564	147,077	236,040	-88,962
November	13,193	15,809	-2,616	16,794	17,113	-319	-74,071	139,337	213,727	-74,390
December	12,420	13,932	-1,512	16,280	15,574	706	-73,391	134,018	206,702	-72,685
Total	149,661	219,489	-69,828	190,843	232,741	-41,898	-830,143	1,665,688	2,537,729	-872,041
2019 January	11,965	14,077	-2,112	15,609	15,674	-65	-74,915	129,608	204,587	-74,980
February	11,642	12,273	-631	14,555	13,581	974	-56,750	129,919	185,694	-55,776
March	12,896	15,335	-2,439	16,389	16,707	-318	-59,179	148,472	207,969	-59,497
April	12,953	17,808	-4,855	16,746	18,631	-1,885	-72,450	134,838	209,174	-74,335
May	13,369	20,087	-6,718	16,948	20,860	-3,912	-74,442	142,237	220,591	-78,354
June	12,771	16,978	-4,207	16,142	17,657	-1,515	-67,782	137,870	207,167	-69,297
July	12,669	18,265	-5,596	16,000	19,036	-3,036	-82,634	133,129	218,799	-85,670
August	13,196	16,240	-3,044	16,122	17,009	-887	-76,449	138,310	215,647	-77,336
September	12,912	14,396	-1,484	16,289	15,131	1,158	-73,721	134,162	206,725	-72,563
October	13,925	15,027	-1,102	17,376	15,804	1,572	-78,569	142,418	219,414	-76,997
November	13,187	13,281	-94	16,798	14,279	2,519	-65,055	136,940	199,476	-62,536
December	15,069	15,307	-238	18,863	16,531	2,332	-69,364	135,258	202,289	-67,032
Total	156,553	189,075	-32,522	197,836	200,900	-3,064	-851,307	1,643,161	2,497,531	-854,371
2020 January	14,000	14,873	-873	17,912	15,914	1,998	-69,402	128,993	196,397	-67,404
February	14,074	12,543	1,531	17,509	13,286	4,223	-50,326	132,182	178,285	-46,103
March	12,407	11,023	1,384	15,863	11,628	4,235	-64,057	134,560	194,382	-59,822
April	7,904	5,966	1,938	10,749	6,485	4,264	-73,916	95,799	165,452	-69,652
May	4,960	5,907	-947	7,559	6,518	1,041	-74,423	90,549	163,931	-73,382
June	6,722	7,555	-833	9,275	8,108	1,167	-75,820	105,056	179,709	-74,653
July	8,712	8,644	68	11,391	9,348	2,043	-90,055	112,827	200,839	-88,012
August	9,177	9,445	-268	11,946	10,230	1,716	-87,131	118,044	203,459	-85,415
September	8,878	9,156	-278	11,836	9,833	2,003	-86,929	121,469	206,395	-84,926
October	8,603	8,927	-324	12,197	9,715	2,482	^R -89,413	^R 132,571	^R 219,502	^R -86,931
November	8,027	8,716	-689	12,294	9,717	2,577	-88,345	126,966	212,734	-85,768
11-Month Total	103,465	102,755	709	138,531	110,782	27,749	-849,817	1,299,016	2,121,084	-822,068
2019 11-Month Total	141,484	173,767	-32,282	178,973	184,368	-5,395	-781,946	1,507,903	2,295,242	-787,339
2018 11-Month Total	137,240	205,556	-68,316	174,564	217,169	-42,605	-756,751	1,531,671	2,331,027	-799,356

^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.

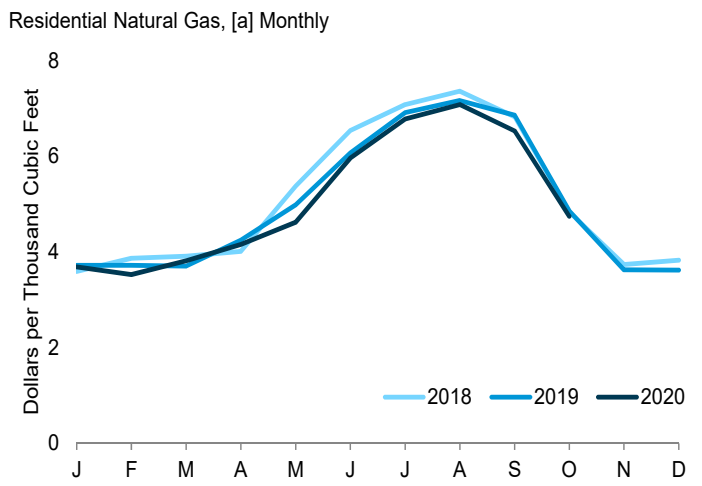
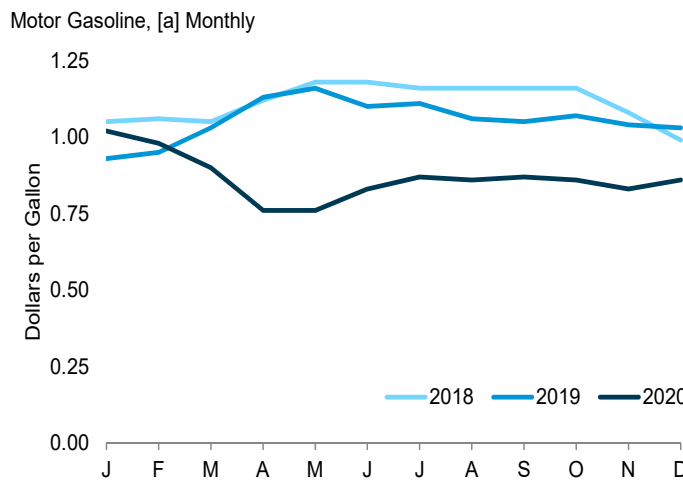
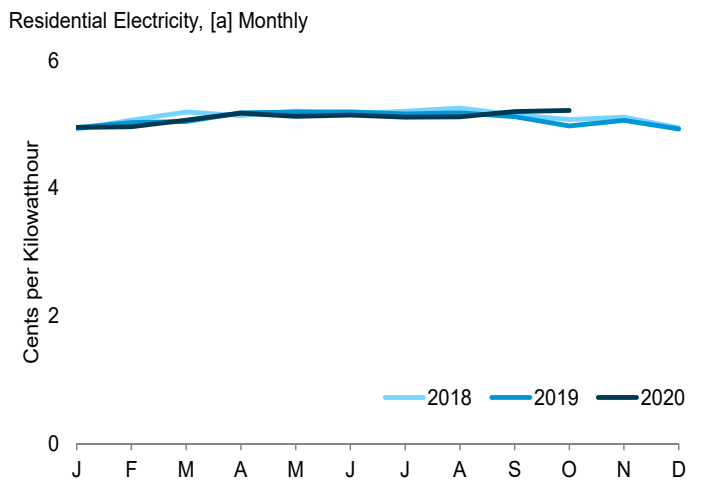
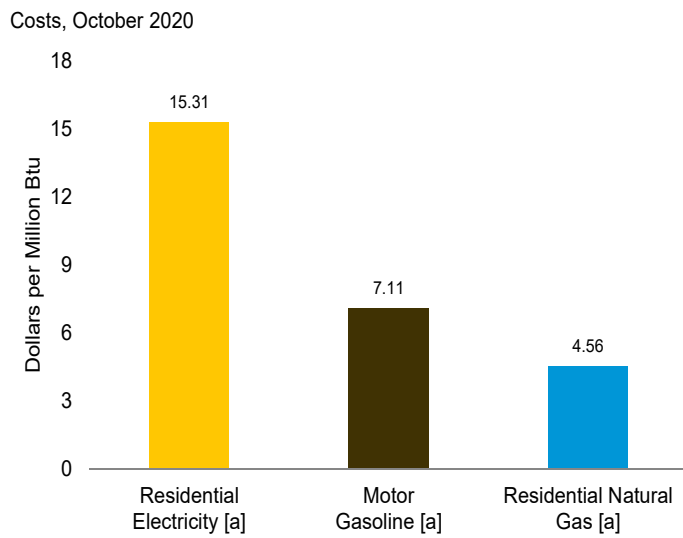
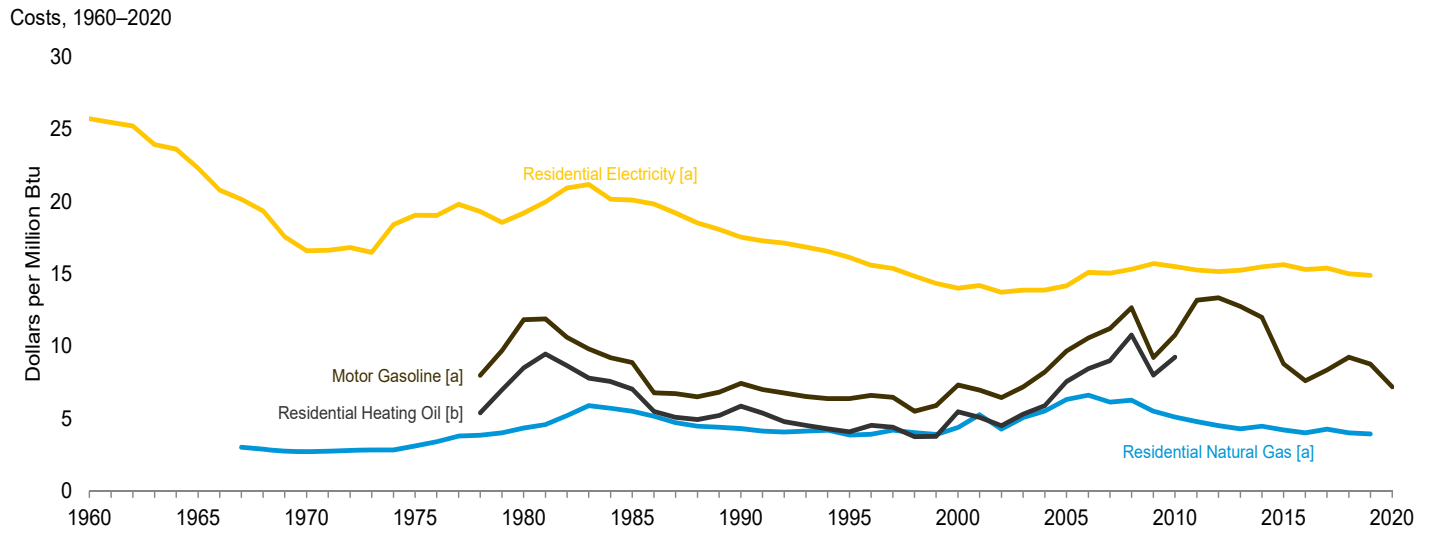
Notes: • Monthly data are not adjusted for seasonal variations. • See Note 1, "Merchandise Trade Value," at end of section. • Totals may not equal sum of

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



[a] Includes Taxes.
 [b] Excludes Taxes.
 Note: See "Real Dollars" in Glossary.

Web Page: <http://www.eia.gov/totalenergy/data/monthly/#summary>.
 Source: Tables 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 Kilowatthour	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	6.38	0.569	4.10	3.98	3.87	5.51	16.15
2000 Average	172.2	0.908	7.33	0.761	5.49	4.51	4.39	4.79	14.02
2001 Average	177.1	0.864	6.98	0.706	5.09	5.44	5.28	4.84	14.20
2002 Average	179.9	0.801	6.47	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	8.23	0.819	5.91	5.69	5.55	4.74	13.89
2005 Average	195.3	1.197	9.68	1.051	7.58	6.50	6.33	4.84	14.18
2006 Average	201.6	1.307	10.59	1.173	8.46	6.81	6.63	5.16	15.12
2007 Average	207.342	1.374	11.22	1.250	9.01	6.31	6.14	5.14	15.05
2008 Average	215.303	1.541	12.67	1.495	10.78	6.45	6.28	5.23	15.33
2009 Average	214.537	1.119	9.23	1.112	8.02	5.66	5.52	5.37	15.72
2010 Average	218.056	1.301	10.78	1.283	9.25	5.22	5.11	5.29	15.51
2011 Average	224.939	1.590	13.19	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	12.77	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	8.80	NA	NA	4.38	4.22	5.34	15.64
2016 Average	240.007	0.918	7.63	NA	NA	4.19	4.03	5.23	15.33
2017 Average	245.120	1.007	8.37	NA	NA	4.45	4.29	5.26	15.41
2018 January	247.867	1.047	8.70	NA	NA	3.59	3.46	4.93	14.45
February	248.991	1.057	8.78	NA	NA	3.87	3.73	5.07	14.87
March	249.554	1.054	8.76	NA	NA	3.91	3.77	5.20	15.23
April	250.546	1.116	9.27	NA	NA	4.01	3.86	5.14	15.07
May	251.588	1.178	9.79	NA	NA	5.37	5.18	5.21	15.28
June	251.989	1.179	9.79	NA	NA	6.54	6.30	5.17	15.15
July	252.006	1.163	9.66	NA	NA	7.08	6.82	5.21	15.27
August	252.146	1.158	9.62	NA	NA	7.36	7.09	5.26	15.41
September	252.439	1.161	9.65	NA	NA	6.83	6.58	5.15	15.10
October	252.885	1.165	9.68	NA	NA	4.83	4.66	5.08	14.89
November	252.038	1.084	9.01	NA	NA	3.74	3.60	5.12	15.00
December	251.233	0.987	8.20	NA	NA	3.83	3.69	4.95	14.50
Average	251.107	1.113	9.25	NA	NA	4.18	4.03	5.13	15.02
2019 January	251.712	0.934	7.77	NA	NA	3.72	3.58	4.95	14.52
February	252.776	0.954	7.93	NA	NA	3.72	3.58	5.03	14.75
March	254.202	1.031	8.57	NA	NA	3.71	3.56	5.05	14.80
April	255.548	1.132	9.41	NA	NA	4.25	4.08	5.18	15.20
May	256.092	1.157	9.62	NA	NA	4.98	4.79	5.20	15.23
June	256.143	1.099	9.13	NA	NA	6.07	5.84	5.20	15.24
July	256.571	1.105	9.19	NA	NA	6.91	6.65	5.17	15.15
August	256.558	1.059	8.80	NA	NA	7.16	6.89	5.18	15.19
September	256.759	1.049	8.72	NA	NA	6.86	6.59	5.13	15.02
October	257.346	1.065	8.85	NA	NA	4.86	4.67	4.98	14.59
November	257.208	1.045	8.68	NA	NA	3.63	3.49	5.07	14.85
December	256.974	1.032	8.58	NA	NA	3.62	3.48	4.93	14.46
Average	255.657	1.055	8.77	NA	NA	4.11	3.95	5.09	14.91
2020 January	257.971	1.020	8.48	NA	NA	3.69	3.54	4.96	14.53
February	258.678	0.978	8.13	NA	NA	3.53	3.39	4.97	14.56
March	258.115	0.904	7.52	NA	NA	3.82	3.67	5.07	14.86
April	256.389	0.759	6.31	NA	NA	4.16	4.00	5.18	15.18
May	256.394	0.759	6.31	NA	NA	4.62	4.44	5.13	15.03
June	257.797	0.830	6.90	NA	NA	5.96	5.73	5.15	15.10
July	259.101	0.866	7.20	NA	NA	6.78	6.52	5.12	15.00
August	259.918	0.864	7.18	NA	NA	7.08	6.81	5.12	15.01
September	260.280	0.868	7.22	NA	NA	6.53	6.28	5.21	15.26
October	260.388	0.856	7.11	NA	NA	R 4.74	R 4.56	R 5.22	R 15.31
November	260.229	0.830	6.90	NA	NA	NA	NA	NA	NA
December	260.474	0.858	7.13	NA	NA	NA	NA	NA	NA
Average	258.811	0.866	7.20	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.

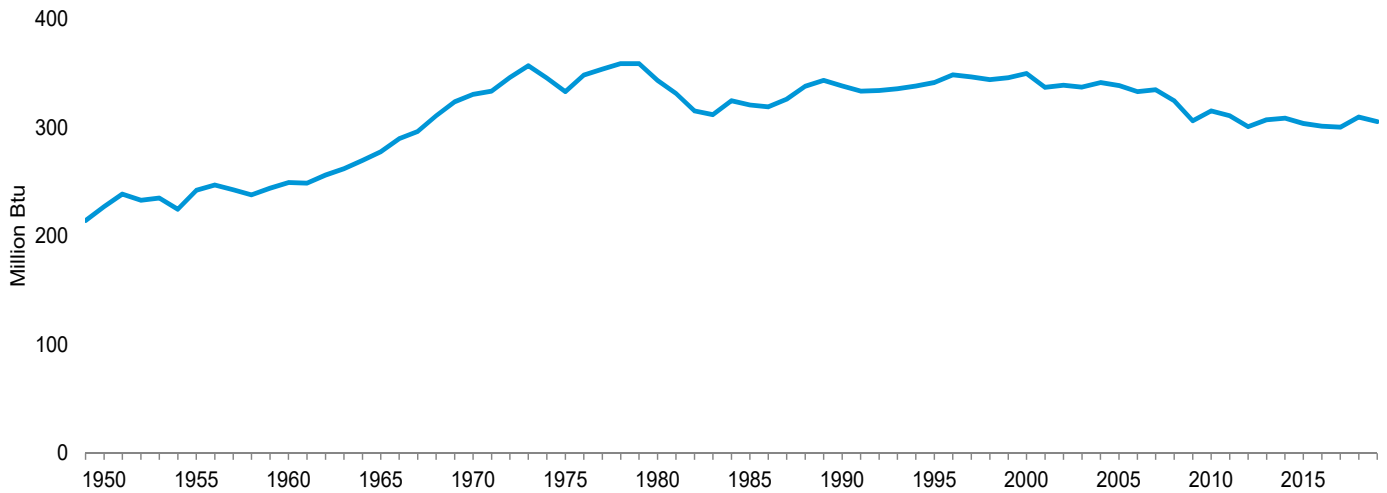
Notes: • See "Real Dollars" in Glossary. • Fuel costs are calculated by using the Urban Consumer Price Index (CPI) developed by the Bureau of Labor Statistics. • Annual averages may not equal average of months due to independent rounding. • Geographic coverage is the 50 states and the District of Columbia.

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.

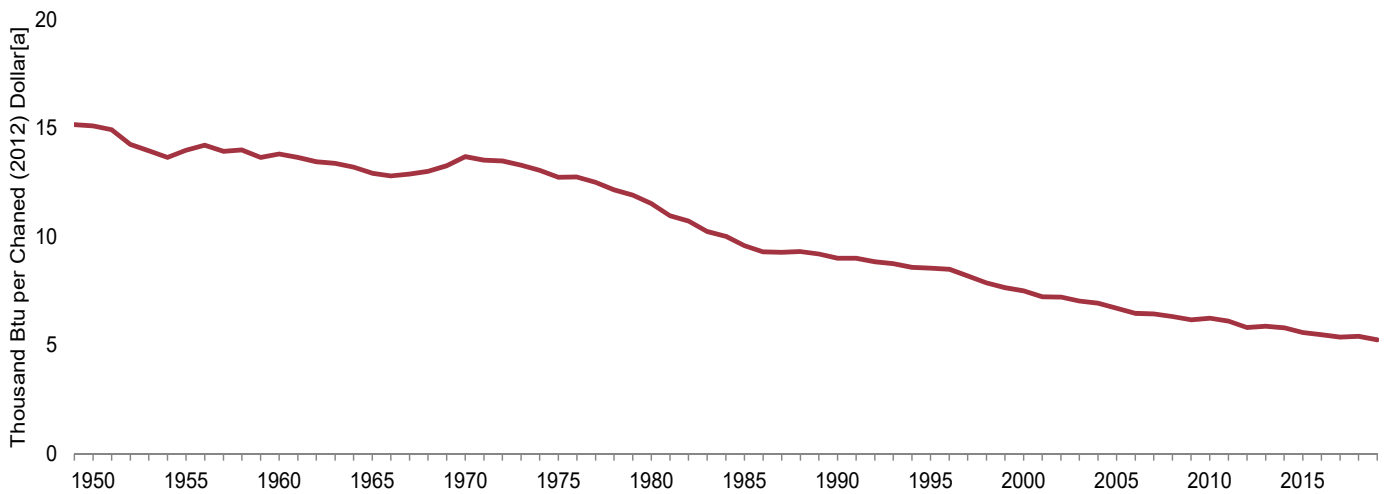
Sources: • **Fuel Prices:** Tables 9.4 (All Grades), 9.8, and 9.10, adjusted by the CPI; and *Monthly Energy Review*, September 2012, Table 9.8c. • **Consumer Price Index, All Urban Consumers:** U.S. Department of Labor, Bureau of Labor Statistics, series ID CUUR0000SA0. • **Conversion Factors:** Tables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

Figure 1.7 Primary Energy Consumption and Energy Expenditures Indicators

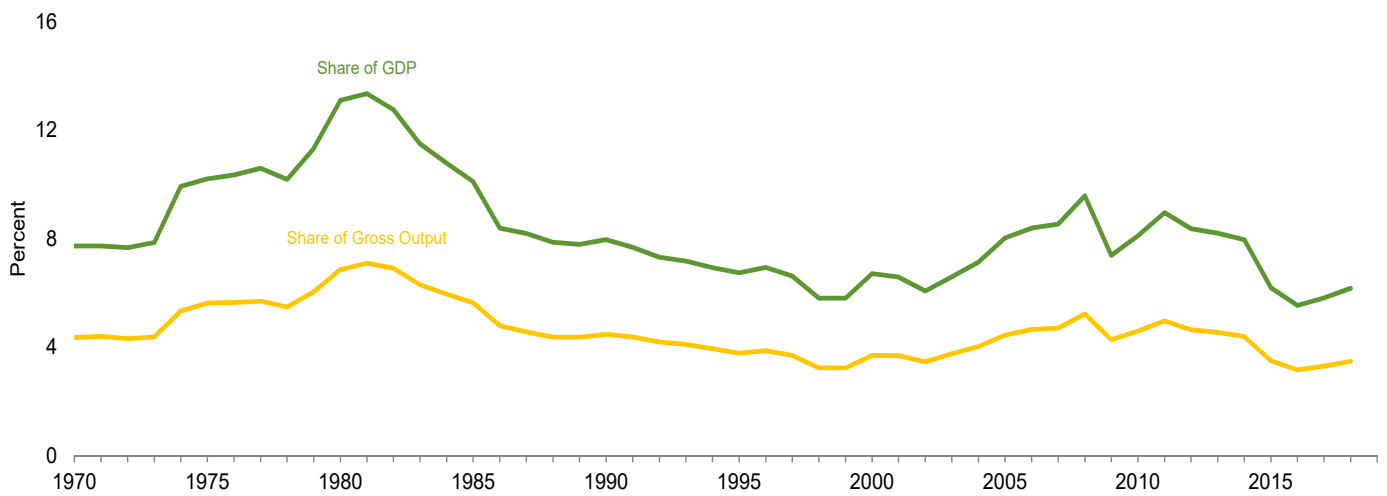
Energy Consumption per Capita, 1949–2019



Primary Energy Consumption per Real Dollar [a] of Gross Domestic Product, 1949–2019



Energy Expenditures as Share of Gross Domestic Product and Gross Output,[b] 1970–2018



[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.

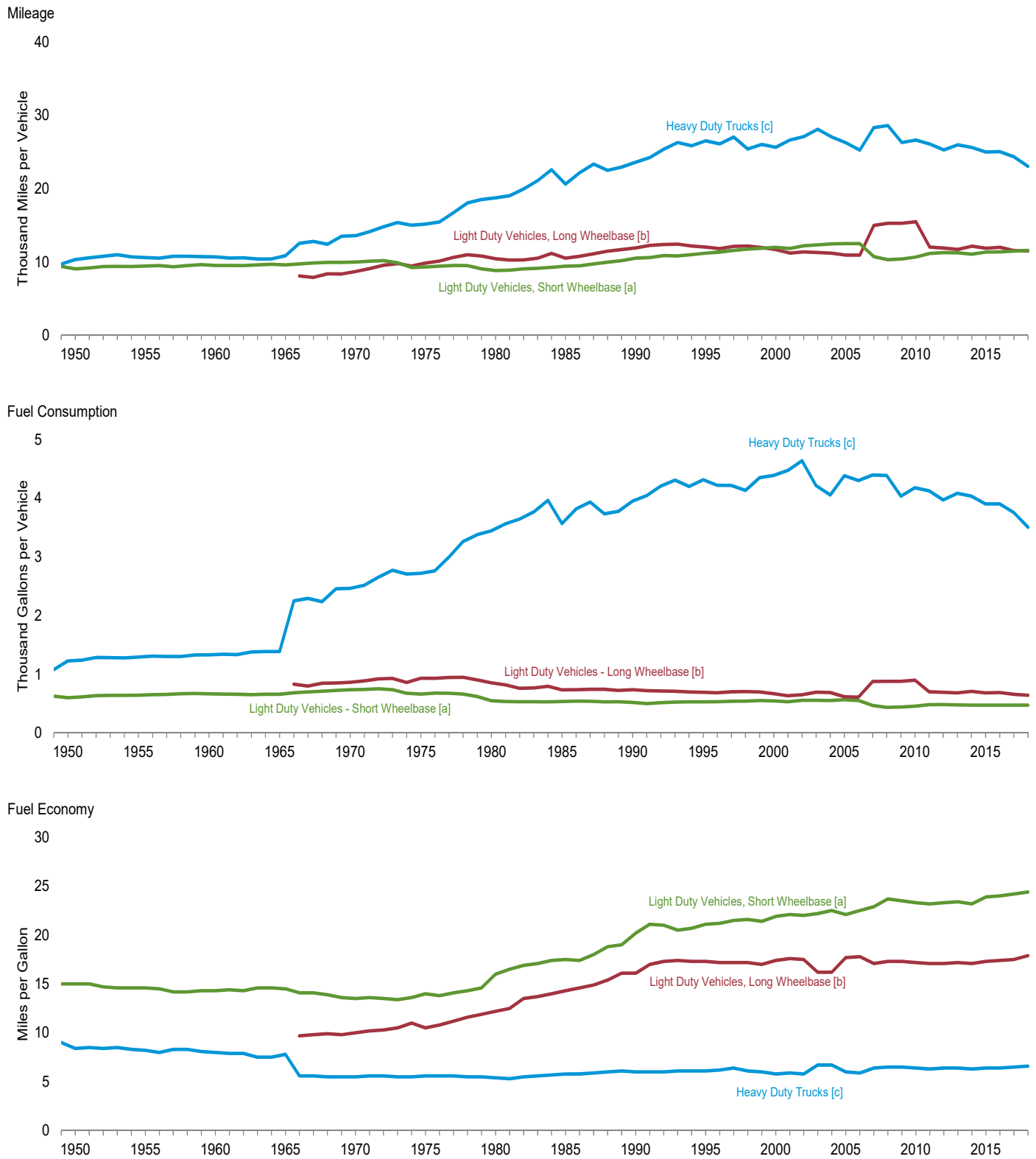
Table 1.7 Primary Energy Consumption, Energy Expenditures, and Carbon Dioxide Emissions Indicators

	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 (2012) 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 (2012) Dollars ^d
1950	34.599	227	15.11	NA	NA	NA	NA	2,382	15.6	1,040
1955	40.178	242	13.99	NA	NA	NA	NA	2,685	16.2	935
1960	45.041	249	13.82	NA	NA	NA	NA	2,914	16.1	894
1965	53.953	278	12.94	NA	NA	NA	NA	3,462	17.8	830
1970	67.817	331	13.70	82,875	404	7.7	4.4	4,261	20.8	861
1975	71.931	333	12.74	171,854	796	10.2	5.6	4,426	20.5	784
1980	78.021	343	11.54	374,350	1,647	13.1	6.9	4,750	20.9	703
1981	76.057	331	10.97	427,901	1,865	13.3	7.1	4,627	20.2	668
1982	73.046	315	10.73	426,482	1,841	12.8	6.9	4,394	19.0	646
1983	72.915	312	10.24	417,622	1,786	11.5	6.3	4,371	18.7	614
1984	76.571	325	10.03	435,313	1,846	10.8	6.0	4,596	19.5	602
1985	76.334	321	9.60	438,343	1,842	10.1	5.6	4,587	19.3	577
1986	76.599	319	9.31	384,091	1,599	8.4	4.8	4,598	19.1	559
1987	79.008	326	9.28	397,627	1,641	8.2	4.6	4,756	19.6	559
1988	82.659	338	9.32	411,568	1,683	7.9	4.4	4,981	20.4	562
1989	84.740	343	9.22	439,051	1,779	7.8	4.4	5,068	20.5	551
1990	84.433	338	9.02	474,652	1,901	8.0	4.5	5,040	20.2	538
1991	84.380	334	9.02	472,440	1,867	7.7	4.4	4,995	19.7	534
1992	85.725	334	8.85	476,845	1,859	7.3	4.2	5,095	19.9	526
1993	87.266	336	8.77	492,275	1,894	7.2	4.1	5,186	20.0	521
1994	88.983	338	8.60	504,856	1,919	6.9	3.9	5,264	20.0	508
1995	90.931	341	8.55	514,624	1,933	6.7	3.8	5,323	20.0	501
1996	93.935	349	8.52	560,293	2,080	6.9	3.9	5,512	20.5	500
1997	94.507	347	8.20	567,962	2,083	6.6	3.7	5,583	20.5	485
1998	94.920	344	7.88	526,283	1,908	5.8	3.2	5,631	20.4	468
1999	96.545	346	7.66	558,627	2,002	5.8	3.2	5,693	20.4	451
2000	98.702	350	7.52	687,711	2,437	6.7	3.7	5,867	20.8	447
2001	96.064	337	7.24	696,242	2,443	6.6	3.7	5,765	20.2	435
2002	97.535	339	7.23	663,964	2,308	6.1	3.5	5,809	20.2	431
2003	97.835	337	7.05	755,070	2,603	6.6	3.7	5,860	20.2	422
2004	100.002	342	6.94	871,210	2,975	7.1	4.0	5,979	20.4	415
2005	100.102	339	6.71	1,045,730	3,539	8.0	4.4	5,999	20.3	402
2006	99.392	333	6.48	1,158,821	3,884	8.4	4.6	5,914	19.8	386
2007	100.893	335	6.46	1,233,869	4,096	8.5	4.7	6,003	19.9	384
2008	98.754	325	6.33	1,408,759	4,633	9.6	5.2	5,817	19.1	373
2009	93.942	306	6.18	1,066,293	3,476	7.4	4.3	5,392	17.6	355
2010	97.513	315	6.25	1,214,045	3,925	8.1	4.6	5,585	18.1	358
2011	96.863	311	6.11	1,391,711	4,467	9.0	5.0	5,446	17.5	344
2012	94.374	301	5.83	1,355,033	4,318	8.4	4.6	5,229	16.7	323
2013	97.117	307	5.89	1,376,142	4,355	8.2	4.5	5,356	16.9	325
2014	98.276	309	5.81	1,394,926	4,382	8.0	4.4	5,413	17.0	320
2015	97.375	304	5.59	1,128,068	3,518	6.2	3.5	5,263	16.4	302
2016	97.335	301	5.49	1,038,272	3,215	5.5	3.2	5,171	16.0	292
2017	97.595	300	5.38	1,136,189	3,496	5.8	3.3	5,131	15.8	283
2018	101.162	310	5.41	1,271,064	3,891	6.2	3.5	5,284	16.2	283
2019	100.274	305	5.25	NA	NA	NA	NA	5,146	15.7	270

^a See "Primary Energy Consumption" in Glossary.
^b Expenditures include taxes where data are available.
^c Carbon dioxide emissions from energy consumption. See Table 11.1.
^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. Through 1996, data have been adjusted by EIA based on DOC/BEA's 2012 comprehensive revision.
^g See "Nominal Dollars" in Glossary.
 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 (2012) dollars (see Table C1).
 • **Expenditures:** U.S. Energy Information Administration, "State Energy Price and Expenditure Estimates, 1970 Through 2018" (June 2020), U.S. Table ET1.
 • **Expenditures per Capita:** Calculated as energy expenditures divided by U.S. population (see Table C1).
 • **Expenditures as Share of GDP:** Calculated as energy expenditures divided by U.S. gross domestic product in nominal dollars (see Table C1).
 • **Expenditures as Share of Gross Output:** Calculated as energy expenditures divided by U.S. gross output (see Table C1).
 • **Emissions:** 1949–1972—U.S. Energy Information Administration, *Annual Energy Review 2011*, Table 11.1. 1973 forward—Table 11.1. • **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 (2012) dollars (see Table C1).

Figure 1.8 Motor Vehicle Mileage, Fuel Consumption, and Fuel Economy, 1949-2018



[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 truck 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	11,370	475	24.0	11,991	689	17.4	25,037	3,904	6.4	11,810	658	17.9
2017	11,467	474	24.2	11,543	659	17.5	24,335	3,758	6.5	11,789	653	18.1
2018	11,576	475	24.4	11,486	643	17.9	23,037	3,507	6.6	11,843	651	18.2

^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."

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	6,223	6,213	2,775	3,380	1,985	4,896	3,377	4,348
2006 Total	5,885	5,211	5,702	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 Total	5,929	5,353	5,701	5,786	2,456	3,094	1,752	4,619	3,031	3,878
2017 Total	6,038	5,333	5,684	5,997	2,232	2,835	1,582	4,568	3,187	3,828
2018 January	1,257	1,216	1,308	1,373	700	929	660	770	458	896
February	869	813	980	1,178	307	410	348	747	496	625
March	926	913	922	869	435	474	186	604	487	609
April	674	618	703	716	205	312	142	380	299	410
May	168	108	99	89	12	13	0	163	176	85
June	61	29	24	23	1	0	0	56	65	26
July	2	1	4	11	0	0	0	9	8	4
August	3	2	8	20	0	0	0	25	14	7
September	65	34	48	90	2	3	3	89	62	38
October	457	355	420	494	99	138	70	384	187	254
November	818	766	913	1,003	380	566	372	678	354	594
December	1,026	929	1,003	1,103	488	634	472	897	564	732
Total	6,326	5,784	6,433	6,968	2,627	3,478	2,252	4,803	3,169	4,279
2019 January	R 1,220	R 1,154	1,303	1,359	583	748	R 545	893	542	859
February	R 1,030	R 943	1,062	1,284	377	459	R 356	R 866	R 655	R 719
March	976	891	961	R 1,002	376	505	R 306	667	R 489	R 632
April	R 526	R 414	475	454	110	166	78	375	275	288
May	313	188	236	272	16	R 24	11	314	239	158
June	R 54	32	49	46	2	3	0	97	R 60	34
July	2	1	1	8	0	0	0	15	R 20	5
August	16	10	20	R 33	0	0	0	17	12	10
September	117	R 58	42	67	2	1	0	95	63	41
October	R 386	R 304	390	526	77	128	R 84	478	R 235	R 253
November	830	R 789	912	924	392	572	R 345	R 618	370	R 589
December	1,060	R 971	976	1,097	450	573	R 419	871	R 573	715
Total	R 6,529	R 5,754	R 6,427	R 7,073	2,384	3,180	R 2,146	R 5,305	R 3,535	R 4,303
2020 January	R 1,030	R 958	1,052	1,224	R 481	R 634	431	R 850	563	739
February	R 925	R 842	1,002	1,070	396	R 554	R 401	764	446	652
March	R 777	R 670	734	744	231	R 294	R 139	R 602	R 527	484
April	654	R 569	R 567	533	177	248	89	415	R 308	R 359
May	288	252	R 257	246	74	R 85	13	186	146	R 156
June	28	R 16	23	21	2	3	0	72	69	R 25
July	1	0	1	6	0	0	0	14	19	5
August	R 10	4	13	R 18	0	0	0	9	R 15	7
September	R 103	R 82	R 111	143	17	R 20	8	R 104	R 30	58
October	398	338	465	555	95	154	83	326	130	247
10-Month Total ...	4,214	3,733	4,227	4,562	1,472	1,992	1,164	3,342	2,252	2,733
2019 10-Month Total ...	4,640	3,993	4,539	5,052	1,542	2,035	1,382	3,816	2,592	3,000
2018 10-Month Total ...	4,481	4,088	4,517	4,862	1,760	2,279	1,408	3,228	2,251	2,953

^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.

Sources: 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	942	2,405	1,718	2,741	1,478	1,068	1,488
2016 Total	626	888	958	1,073	2,412	1,957	2,882	1,497	928	1,559
2017 Total	450	661	709	911	2,254	1,585	2,718	1,548	1,053	1,428
2018 January	0	0	0	0	21	1	4	4	15	8
February	0	0	0	0	81	22	33	3	8	23
March	0	0	0	2	35	15	87	14	9	21
April	0	0	0	0	79	7	58	70	25	33
May	25	65	140	168	265	268	395	137	39	174
June	57	111	192	272	385	376	550	299	117	270
July	254	287	257	304	441	430	607	415	320	376
August	266	297	257	258	439	392	565	344	257	351
September	64	121	122	124	391	338	392	238	142	231
October	0	4	4	6	176	77	142	45	46	70
November	0	0	0	0	66	1	13	5	16	18
December	0	0	0	0	40	2	9	0	9	11
Total	667	885	972	1,134	2,418	1,928	2,856	1,573	1,002	1,585
2019 January	0	0	0	0	29	5	12	0	8	9
February	0	0	0	0	67	14	24	0	5	18
March	0	0	0	0	56	10	36	10	8	18
April	0	0	1	6	101	31	90	51	26	42
May	3	31	48	42	293	R 221	292	57	24	129
June	64	R 112	127	R 175	R 360	R 299	R 439	R 233	R 116	227
July	R 275	R 325	320	R 320	R 480	427	548	R 395	R 210	373
August	R 167	R 218	195	R 225	R 441	408	625	R 385	R 248	337
September	R 29	R 87	136	183	375	382	523	R 207	133	243
October	0	8	7	2	204	81	139	49	42	76
November	0	0	0	0	53	1	16	R 10	16	16
December	0	0	0	0	50	5	R 12	0	10	14
Total	R 538	R 782	833	R 952	2,511	R 1,884	2,757	R 1,398	R 848	1,503
2020 January	0	0	0	0	47	13	R 30	0	9	15
February	0	0	0	0	46	4	R 14	2	8	13
March	0	0	2	6	R 103	55	R 132	7	8	43
April	0	0	0	1	R 109	20	105	R 42	20	43
May	3	11	31	37	166	R 105	R 278	158	67	R 106
June	100	R 146	185	R 255	R 344	297	457	R 263	R 112	247
July	R 293	R 362	R 334	R 343	503	462	R 602	R 411	R 214	R 397
August	R 216	259	218	246	R 455	388	R 576	438	R 296	357
September	R 35	58	55	72	R 273	R 210	325	R 225	R 216	R 181
October	0	5	2	3	184	68	133	100	106	84
10-Month Total ...	647	841	826	964	2,231	1,623	2,650	1,647	1,056	1,485
2019 10-Month Total ...	538	782	833	952	2,407	1,878	2,728	1,387	822	1,473
2018 10-Month Total ...	667	885	972	1,134	2,312	1,925	2,835	1,568	977	1,556

^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.

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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.

Sources: 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	Petrochemical Feedstocks ^b	Petroleum Coke	Special Naphthas	Other ^c	
			Thousand Barrels per Day							
Thousand Short Tons	Billion Cubic Feet									
1973 Total	3,523	898	522	684	162	356	56	88	88	1,956
1975 Total	3,105	761	419	654	137	320	54	75	122	1,781
1980 Total	2,612	759	396	890	159	692	52	100	143	2,433
1985 Total	1,536	642	425	982	145	395	58	83	95	2,184
1990 Total	758	675	483	1,071	164	546	72	56	85	2,477
1995 Total	921	868	486	1,357	156	590	62	37	70	2,758
1996 Total	884	896	484	1,413	151	592	65	39	70	2,813
1997 Total	842	909	505	1,447	160	686	62	38	72	2,970
1998 Total	656	938	521	1,441	168	690	97	56	83	3,056
1999 Total	654	906	547	1,578	169	651	106	76	77	3,204
2000 Total	674	918	525	1,543	166	662	90	51	78	3,115
2001 Total	607	839	519	1,386	153	586	97	41	83	2,864
2002 Total	937	836	512	1,474	151	628	86	53	85	2,989
2003 Total	961	808	503	1,397	140	676	84	42	80	2,923
2004 Total	938	818	537	1,458	141	784	95	27	74	3,117
2005 Total	929	761	546	1,369	141	729	91	33	75	2,983
2006 Total	562	573	521	1,424	137	726	126	37	86	3,057
2007 Total	556	587	494	1,444	142	664	123	41	82	2,989
2008 Total	541	597	417	1,279	131	574	117	44	85	2,648
2009 Total	375	513	360	1,401	118	507	108	24	85	2,604
2010 Total	719	654	362	1,597	131	539	36	14	89	2,767
2011 Total	730	680	355	1,639	125	520	34	12	91	2,775
2012 Total	707	706	340	1,747	114	444	37	8	88	2,778
2013 Total	732	721	323	1,870	121	448	34	52	93	2,943
2014 Total	562	725	327	1,780	126	410	10	55	97	2,807
2015 Total	520	703	343	1,918	138	378	10	52	99	2,938
2016 Total	435	727	351	1,943	130	371	10	49	100	2,955
2017 Total	463	746	351	2,023	121	394	9	52	103	3,053
2018 January	39	74	158	2,384	105	351	10	56	101	3,165
February	34	66	203	2,184	135	352	5	52	101	3,032
March	39	70	278	2,236	132	377	9	53	99	3,185
April	41	66	225	2,166	122	400	9	57	105	3,084
May	42	63	385	2,152	103	383	10	54	105	3,192
June	39	60	476	2,221	131	401	10	45	106	3,390
July	42	61	460	2,404	128	414	9	49	105	3,569
August	42	61	507	2,450	134	432	13	39	105	3,681
September	42	60	385	2,398	99	407	12	45	104	3,450
October	41	63	410	2,334	107	427	13	48	95	3,435
November	41	69	247	2,403	118	376	8	37	106	3,295
December	43	72	182	2,362	91	389	8	41	106	3,179
Total	484	785	327	2,309	117	393	10	48	103	3,307
2019 January	40	76	195	2,562	114	354	8	39	103	3,376
February	37	68	201	2,522	105	344	3	48	94	3,316
March	41	71	232	2,257	97	323	9	42	93	3,054
April	38	63	318	2,275	156	357	7	55	91	3,260
May	43	63	369	2,231	107	345	10	48	89	3,200
June	42	58	413	2,288	104	355	13	51	90	3,315
July	40	59	510	2,451	129	348	12	63	98	3,612
August	39	61	507	2,380	115	386	10	51	97	3,546
September	39	59	480	2,505	96	365	8	51	91	3,596
October	39	63	438	2,480	130	285	8	53	89	3,484
November	37	69	310	2,482	105	338	11	49	92	3,388
December	40	73	198	2,494	94	387	12	47	97	3,328
Total	474	784	348	2,410	113	349	9	50	94	3,373
2020 January	38	74	191	2,457	123	367	7	46	101	3,294
February	38	69	191	2,317	108	292	8	52	97	3,064
March	37	67	204	2,507	62	325	7	47	95	3,247
April	31	60	292	2,256	82	315	5	55	86	3,091
May	28	57	365	2,373	83	299	6	38	79	3,244
June	32	55	511	2,350	104	291	6	47	83	3,392
July	R 27	58	491	2,599	116	306	7	42	93	3,652
August	R 29	60	479	2,424	94	319	11	41	81	3,448
September	R 28	60	422	2,379	103	303	9	40	84	3,341
October	35	65	401	2,645	110	310	7	52	83	3,608
10-Month Total ...	323	626	355	2,433	98	313	8	46	88	3,341
2019 10-Month Total ...	398	642	368	2,394	115	346	9	50	94	3,376
2018 10-Month Total ...	400	644	350	2,294	120	395	10	50	103	3,321

^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	Percent of Total Energy Consumption
			Asphalt and Road Oil	Hydro-carbon Gas Liquids ^a	Lubricants	Petro-chemical Feed-stocks ^b	Petro-leum Coke	Special Naphthas	Other ^c	Total		
1973 Total	0.113	0.916	1.264	0.872	0.359	0.726	0.117	0.169	0.185	3.691	4.720	6.2
1975 Total	.099	.777	1.014	.822	.304	.652	.113	.144	.256	3.306	4.182	5.8
1980 Total	.084	.777	.962	1.128	.354	1.426	.108	.193	.303	4.473	5.334	6.8
1985 Total	.049	.662	1.029	1.194	.322	.817	.120	.159	.201	3.843	4.554	6.0
1990 Total	.024	.695	1.170	1.345	.362	1.123	.150	.107	.179	4.437	5.156	6.1
1995 Total	.029	.892	1.178	1.716	.346	1.214	.129	.071	.145	4.799	5.720	6.3
1996 Total	.028	.921	1.176	1.779	.335	1.209	.136	.075	.146	4.855	5.804	6.2
1997 Total	.027	.933	1.224	1.821	.354	1.400	.130	.072	.150	5.151	6.111	6.5
1998 Total	.021	.969	1.263	1.819	.371	1.403	.203	.107	.174	5.339	6.329	6.7
1999 Total	.021	.932	1.324	1.989	.375	1.329	.221	.145	.161	5.545	6.498	6.7
2000 Total	.022	.942	1.276	1.928	.369	1.344	.188	.097	.164	5.367	6.330	6.4
2001 Total	.019	.863	1.257	1.725	.338	1.192	.203	.078	.174	4.968	5.850	6.1
2002 Total	.030	.856	1.240	1.831	.334	1.272	.180	.102	.178	5.138	6.025	6.2
2003 Total	.031	.832	1.220	1.748	.309	1.371	.176	.080	.169	5.074	5.936	6.1
2004 Total	.030	.840	1.304	1.820	.313	1.592	.199	.051	.156	5.436	6.305	6.3
2005 Total	.030	.782	1.323	1.701	.312	1.474	.190	.063	.157	5.220	6.031	6.0
2006 Total	.018	.589	1.261	1.754	.303	1.477	.264	.070	.180	5.310	5.917	6.0
2007 Total	.018	.603	1.197	1.768	.313	1.351	.256	.078	.173	5.136	5.757	5.7
2008 Total	.017	.613	1.012	1.564	.291	1.172	.245	.085	.180	4.550	5.180	5.2
2009 Total	.012	.526	.873	1.676	.262	1.031	.226	.046	.179	4.293	4.831	5.1
2010 Total	.023	.669	.878	1.931	.291	1.096	.074	.026	.188	4.483	5.175	5.3
2011 Total	.023	.695	.859	1.947	.276	1.057	.070	.023	.193	4.425	5.144	5.3
2012 Total	.023	.724	.827	2.109	.254	.901	.077	.015	.187	4.369	5.115	5.4
2013 Total	.023	.741	.783	2.270	.268	.901	.070	.100	.197	4.589	5.354	5.5
2014 Total	.018	.749	.793	2.125	.280	.827	.021	.106	.205	4.358	5.125	5.2
2015 Total	.017	.730	.832	2.317	.305	.760	.022	.099	.208	4.542	5.289	5.4
2016 Total	.014	.755	.853	2.330	.289	.754	.021	.094	.212	4.553	5.323	5.5
2017 Total	.015	.774	.849	2.393	.267	.797	.020	.100	.217	4.643	5.432	5.6
2018 January	.001	.076	.032	.238	.020	.060	.002	.009	.018	.380	.457	4.7
February	.001	.069	.038	.199	.023	.054	.001	.008	.016	.339	.408	5.1
March	.001	.073	.057	.218	.025	.065	.002	.009	.018	.393	.466	5.4
April	.001	.068	.045	.204	.022	.067	.002	.009	.018	.366	.436	5.5
May	.001	.065	.079	.213	.019	.066	.002	.009	.019	.407	.473	5.9
June	.001	.062	.095	.213	.024	.067	.002	.007	.018	.426	.489	6.0
July	.001	.063	.095	.240	.024	.071	.002	.008	.019	.458	.523	6.1
August	.001	.063	.104	.246	.025	.074	.002	.006	.019	.477	.542	6.2
September	.001	.063	.077	.233	.018	.067	.002	.007	.018	.422	.486	6.2
October	.001	.066	.084	.235	.020	.073	.002	.008	.017	.440	.507	6.3
November	.001	.071	.049	.233	.021	.062	.001	.006	.018	.392	.465	5.5
December	.001	.075	.037	.236	.017	.067	.001	.007	.019	.385	.461	5.1
Total	.015	.815	.793	2.708	.259	.794	.020	.092	.218	4.884	5.714	5.6
2019 January	.001	.079	.040	.257	.021	.061	.002	.006	.019	.405	.485	5.1
February	.001	.071	.037	.226	.018	.053	(s)	.007	.015	.357	.429	5.1
March	.001	.074	.048	.221	.018	.055	.002	.007	.017	.368	.443	5.1
April	.001	.066	.063	.215	.028	.059	.001	.009	.016	.392	.459	6.0
May	.001	.065	.076	.221	.020	.059	.002	.008	.016	.402	.468	5.9
June	.001	.061	.082	.224	.019	.059	.002	.008	.016	.410	.472	6.0
July	.001	.061	.105	.249	.024	.060	.002	.010	.018	.468	.531	6.2
August	.001	.064	.104	.242	.022	.066	.002	.008	.017	.461	.526	6.2
September	.001	.061	.096	.246	.018	.060	.001	.008	.016	.445	.507	6.5
October	.001	.066	.090	.252	.025	.049	.001	.009	.016	.442	.510	6.4
November	.001	.072	.062	.240	.019	.056	.002	.008	.016	.402	.475	5.7
December	.001	.076	.041	.248	.018	.066	.002	.008	.017	.399	.476	5.3
Total	.015	.815	.844	2.841	.250	.704	.019	.096	.198	4.951	5.782	5.8
2020 January	.001	.077	.039	.239	.023	.063	.001	.007	.018	.391	.469	5.2
February	.001	.071	.037	.207	.019	.047	.001	.008	.016	R .336	.408	4.9
March	.001	.070	.042	.247	.012	.056	.001	.008	.017	.382	.453	5.8
April	.001	.062	.058	.210	.015	.053	.001	.009	.015	.360	.423	6.5
May	.001	.060	.075	.233	.016	.052	.001	.006	.014	.397	.457	6.7
June	.001	.057	.102	.222	.019	.048	.001	.007	.014	.413	.472	6.5
July	.001	.061	.101	.252	.022	.052	.001	.007	.017	.452	R .513	6.3
August	.001	.062	.098	.240	.018	.054	.002	.007	.014	.434	.497	6.2
September	.001	.063	.084	.232	.019	.050	.002	.006	.015	.407	.471	6.4
October	.001	.068	.082	.268	.021	.053	.001	.008	.015	.448	.517	6.9
10-Month Total	.010	.651	.719	2.349	.182	.528	.013	.074	.155	4.019	4.681	6.1
2018 10-Month Total	.013	.667	.741	2.354	.213	.581	.015	.080	.165	4.150	4.830	5.8
2017 10-Month Total	.013	.668	.706	2.239	.220	.664	.018	.080	.181	4.107	4.789	5.7

^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. (s)=Less than 0.5 trillion Btu.

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).

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 in the industrial sector. 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 estimates non-combustion use ratios of coal tar for 1973 forward. Prior to 1998, estimate ratios are based on coal tar production data from the United States International Trade Commission's *Synthetic Organic Chemicals*. For 1998 forward, coal tar production is estimated using chemicals industry coal, coke, and breeze nonfuel use data from EIA, Form EIA-846, “Manufacturing Energy Consumption Survey” (MECS). For Table 1.11b, coal tar values in Table 1.11a are multiplied by 32.0067 million Btu/short ton, which is the product of 4.95 barrels/short ton (the density of coal tar) and 6.466 million Btu/barrel (the approximate heat content of coal tar).

Natural Gas

EIA assumes that all non-combustion use of natural gas takes place in the industrial sector. EIA estimates non-combustion ratios of natural gas using total natural gas nonfuel use data from MECS, and natural gas used as feedstock for hydrogen production data from EIA, Form EIA-820, “Annual Refinery Report.” For Table 1.11b, natural gas values in Table 1.11a are multiplied by the heat content factors for natural gas end-use sectors consumption shown in Table A4.

Asphalt and 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 Fuel Oil

EIA assumes that all non-combustion use of distillate fuel oil occurs in the industrial sector. EIA estimates non-combustion ratios of distillate fuel oil using total distillate fuel oil nonfuel use data from MECS. Ratios prior to 1985 are assumed to be equal to the 1985 ratio. For Table 1.11b, distillate fuel oil values in Table 1.11a are multiplied by the heat content factors for distillate fuel oil consumption shown in Table A3 and the number of days in the period. Distillate fuel oil is included in "other" petroleum products.

Hydrocarbon Gas Liquids (HGL)

EIA estimates non-combustion ratios of hydrocarbon gas liquids (HGL), which include ethane, propane, normal butane, isobutane, natural gasoline (pentanes plus), and refinery olefins (ethylene, propylene, butylene, and isobutylene). EIA assumes that 100% of ethane, ethylene, and propylene consumption is for non-combustion use; 85% of normal butane, butylene, isobutane, and isobutylene consumption is for non-combustion use; and 50% of natural gasoline consumption is for non-combustion use. Non-combustion use of propane in the industrial sector is estimated using data from the American Petroleum Institute (API), the Propane Education & Research Council (PERC), and EIA's *Petroleum Supply Annual* (PSA). For 1984 through 2009, propane non-combustion ratios are estimated using API propane and propylene chemical industry sales data. Propane non-combustion ratios prior to 1984 are assumed to be equal to the 1984 ratio. For 2010 through 2016, propane non-combustion ratios are estimated by subtracting API data for total odorized propane sales from PSA data for total propane product supplied. Beginning in 2017, propane non-combustion ratios are estimated by subtracting PERC data for total odorized propane sales from PSA data for total propane product supplied. For Table 1.11b, HGL component values 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 is for non-combustion use. For Table 1.11b, lubricants values in Table 1.11a are multiplied by 6.065 million Btu/barrel (the approximate heat content of lubricants) and the number of days in the period.

Petrochemical Feedstocks, Naphtha

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

Petrochemical Feedstocks, Other Oils

EIA assumes all other oils for petrochemical feedstocks are for non-combustion use. For Table 1.11b, other oils petrochemical feedstock values in 1.11a are multiplied by 5.825 million Btu/barrel (the approximate heat content of other oils for petrochemical feedstocks) and the number of days in the period.

Petrochemical Feedstocks, Still Gas

EIA assumes all still gas not burned as refinery fuel or for pipeline gas supplies is for non-combustion use. EIA estimates non-combustion ratios of still gas by subtracting data for all known fuel uses (refinery fuel use from the PSA, and pipeline gas supplies from EIA's *Natural Gas Annual*) from the products supplied values in the PSA. The remainder is assumed to be dispatched to chemical plants as a feedstock for non-combustion use. For Table 1.11b, still gas for petrochemical feedstock values in 1.11a are multiplied by the still gas heat content factors (through 2015, the still gas heat content factor is 6.000 million Btu per fuel oil equivalent barrel; beginning in 2016, the still gas heat content factor is 6.287 million Btu per residual fuel oil equivalent barrel) and the number of days in the period.

Petroleum Coke

EIA assumes all non-combustion use of petroleum coke occurs in the industrial sector. Examples include petroleum coke used in the production of chemicals and metals. EIA estimates non-combustion ratios of petroleum coke by subtracting data for all known fuel use by refineries from PSA and MECS data. Non-combustion ratios prior to 1988 are assumed to be equal to the 1988 ratio. For Table 1.11b, petroleum coke values in 1.11a are multiplied by 5.719 million Btu/barrel (the approximate heat content of marketable petroleum coke) and the number of days in the period.

Residual Fuel Oil

EIA assumes that all non-combustion use of residual fuel oil occurs in the industrial sector. EIA estimates non-combustion ratios of residual fuel oil using total minus chemicals industry residual fuel oil nonfuel use data from MECS. Ratios prior to 1994 are assumed to be equal to the 1994 ratio. For Table 1.11b, residual fuel oil 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. Residual fuel oil is included in "other" petroleum products.

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. 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. Waxes are included in "other" petroleum products.

Miscellaneous Petroleum Products

Miscellaneous products include all finished petroleum products not classified elsewhere. EIA assumes all miscellaneous petroleum products consumption is for non-combustion use. For Table 1.11b, miscellaneous petroleum products 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. Miscellaneous petroleum products are included in "other" petroleum products.

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.

2009–2011: 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 biodiesel consumption (calculated using biodiesel data from U.S. Energy Information Administration (EIA), EIA-22M, “Monthly Biodiesel Production Survey”; and biomass-based diesel fuel data from EIA-810, “Monthly Refinery Report,” EIA-812, “Monthly Product Pipeline Report,” and EIA-815, “Monthly Bulk Terminal and Blender Report” (the data are converted to Btu by multiplying by the biodiesel heat content factor in Table A1); minus other renewable diesel fuel and other renewables fuels consumption from Table 10.4.

2012 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 biodiesel consumption from Table 10.4; minus other renewable diesel fuel and other renewables fuels consumption from Table 10.4.

Coal Coke Net Imports

1949 forward: Table 1.4c.

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: Table 1.4c.

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.

2010–2015: 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.

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.

1993–2016: “U.S. International Trade in Goods and Services,” Annual Revisions.

2017–2019: “U.S. International Trade in Goods and Services,” 2019 Annual Revisions.

2020: “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.

1994–2016: "U.S. International Trade in Goods and Services," Annual Revisions.

2017–2019: "U.S. International Trade in Goods and Services," 2019 Annual Revisions.

2020: "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.

1993–2016: "U.S. International Trade in Goods and Services," Annual Revisions.

2017–2019: "U.S. International Trade in Goods and Services," 2019 Annual Revisions.

2020: "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.

1992–2016: "U.S. International Trade in Goods and Services," Annual Revisions.

2017–2019: "U.S. International Trade in Goods and Services," 2019 Annual Revisions.

2020: "U.S. International Trade in Goods and Services," FT-900, monthly.

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