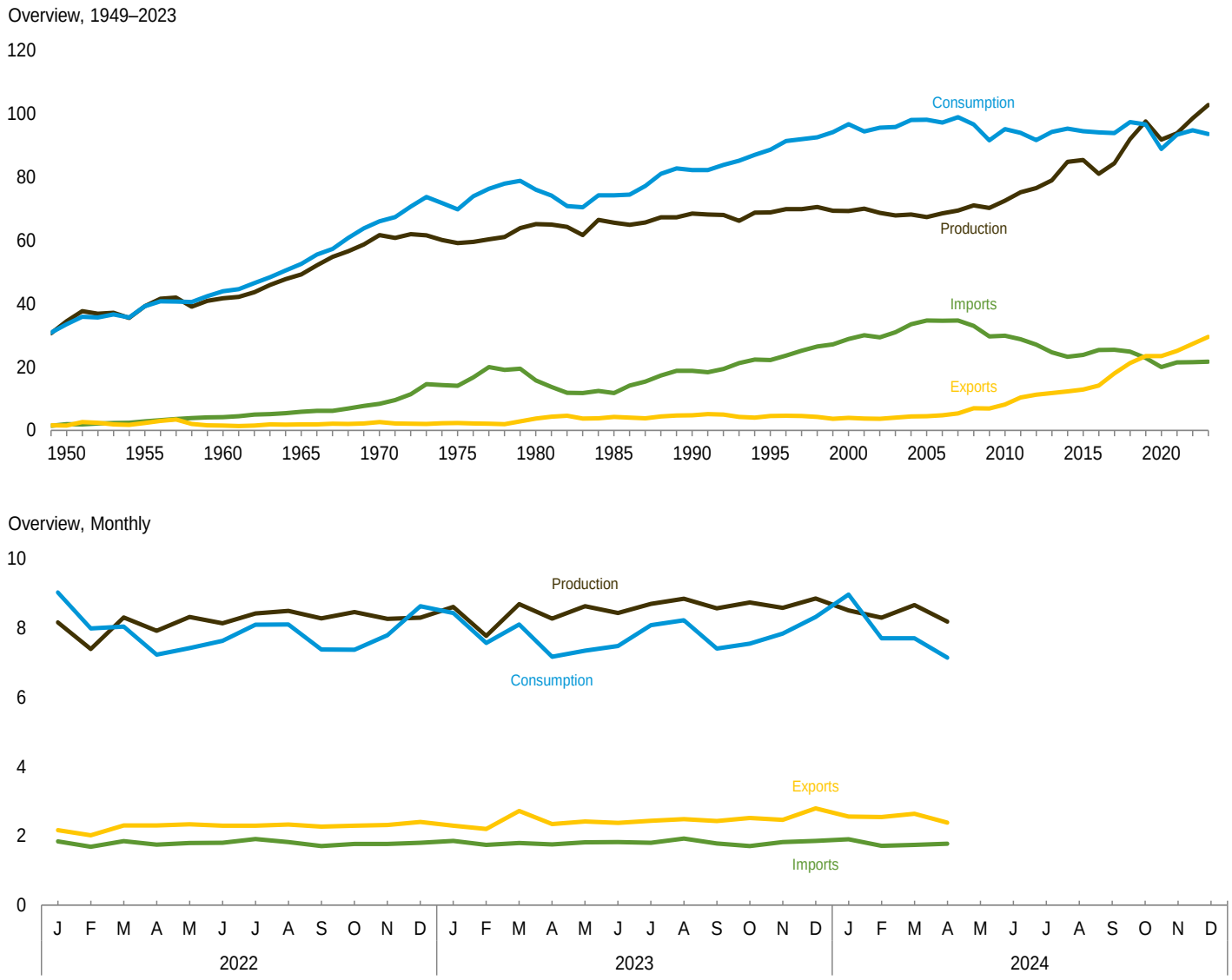
1. Energy Overview

Figure 1.1 Primary Energy Overview

(Quadrillion Btu)



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**	**1.907**	**34.460**	**1.913**	**1.465**	**0.448**	**-1.380**	**31.615**	**0.000**	**1.907**	**33.527**
1955 Total	**37.347**	**.000**	**1.821**	**39.168**	**2.790**	**2.286**	**.504**	**-.457**	**37.380**	**.000**	**1.821**	**39.215**
1960 Total	**39.855**	**.006**	**1.830**	**41.691**	**4.188**	**1.477**	**2.710**	**-.458**	**42.091**	**.006**	**1.830**	**43.942**
1965 Total	**47.205**	**.043**	**2.008**	**49.256**	**5.892**	**1.829**	**4.063**	**-.754**	**50.515**	**.043**	**2.008**	**52.565**
1970 Total	**59.152**	**.239**	**2.289**	**61.681**	**8.342**	**2.632**	**5.709**	**-1.354**	**63.501**	**.239**	**2.289**	**66.036**
1975 Total	**54.697**	**1.900**	**2.544**	**59.141**	**14.032**	**2.323**	**11.709**	**-1.062**	**65.323**	**1.900**	**2.544**	**69.788**
1980 Total	**58.979**	**2.739**	**3.445**	**65.164**	**15.796**	**3.695**	**12.101**	**-1.227**	**69.782**	**2.739**	**3.445**	**76.038**
1985 Total	**57.502**	**4.076**	**4.018**	**65.595**	**11.781**	**4.196**	**7.584**	**1.088**	**66.035**	**4.076**	**4.018**	**74.268**
1990 Total	**58.523**	**6.104**	**3.863**	**68.490**	**18.817**	**4.752**	**14.065**	**-.299**	**72.281**	**6.104**	**3.863**	**82.256**
1995 Total	**57.496**	**7.075**	**4.295**	**68.866**	**22.180**	**4.496**	**17.684**	**2.118**	**77.162**	**7.075**	**4.297**	**88.668**
2000 Total	**57.307**	**7.862**	**4.093**	**69.262**	**28.865**	**3.962**	**24.904**	**2.528**	**84.620**	**7.862**	**4.096**	**96.694**
2005 Total	**54.995**	**8.161**	**4.220**	**67.376**	**34.659**	**4.462**	**30.197**	**.527**	**85.623**	**8.161**	**4.233**	**98.101**
2010 Total	**58.159**	**8.434**	**5.943**	**72.536**	**29.866**	**8.176**	**21.690**	**.916**	**80.723**	**8.434**	**5.896**	**95.142**
2011 Total	**60.529**	**8.269**	**6.404**	**75.202**	**28.748**	**10.373**	**18.375**	**.389**	**79.263**	**8.269**	**6.308**	**93.966**
2012 Total	**62.298**	**8.062**	**6.187**	**76.547**	**27.068**	**11.267**	**15.801**	**-.670**	**77.304**	**8.062**	**6.150**	**91.677**
2013 Total	**64.180**	**8.244**	**6.561**	**78.985**	**24.623**	**11.788**	**12.835**	**2.433**	**79.224**	**8.244**	**6.587**	**94.253**
2014 Total	**69.619**	**8.338**	**6.836**	**84.792**	**23.241**	**12.270**	**10.971**	**-.428**	**80.017**	**8.338**	**6.799**	**95.335**
2015 Total	**70.186**	**8.337**	**6.846**	**85.369**	**23.794**	**12.902**	**10.892**	**-1.776**	**79.090**	**8.337**	**6.829**	**94.484**
2016 Total	**65.435**	**8.427**	**7.188**	**81.050**	**25.378**	**14.119**	**11.259**	**1.784**	**78.319**	**8.427**	**7.120**	**94.092**
2017 Total	**68.448**	**8.419**	**7.505**	**84.372**	**25.458**	**17.946**	**7.512**	**2.017**	**77.907**	**8.419**	**7.383**	**93.902**
2018 Total	**75.780**	**8.438**	**7.744**	**91.963**	**24.833**	**21.224**	**3.610**	**1.832**	**81.281**	**8.438**	**7.535**	**97.405**
2019 Total	**81.399**	**8.452**	**7.753**	**97.604**	**22.865**	**23.476**	**-.610**	**-.390**	**80.425**	**8.452**	**7.594**	**96.603**
2020 Total	**76.145**	**8.251**	**7.465**	**91.861**	**19.988**	**23.464**	**-3.476**	**.467**	**73.139**	**8.251**	**7.301**	**88.852**
2021 Total	**77.903**	**8.131**	**7.807**	**93.841**	**21.455**	**25.071**	**-3.616**	**3.138**	**77.454**	**8.131**	**7.644**	**93.363**
2022 January	6.736	.737	.698	8.171	1.841	2.170	-.329	1.194	7.622	.737	.666	9.036
February	6.098	.646	.652	7.396	1.687	2.016	-.330	.929	6.715	.646	.628	7.995
March	6.919	.660	.733	8.312	1.848	2.305	-.457	.190	6.663	.660	.715	8.044
April	6.637	.578	.712	7.928	1.747	2.303	-.555	-.137	5.949	.578	.700	7.235
May	6.917	.662	.743	8.322	1.795	2.335	-.540	-.355	6.031	.662	.725	7.427
June	6.730	.687	.726	8.143	1.805	2.297	-.492	-.014	6.225	.687	.710	7.637
July	6.995	.719	.713	8.428	1.913	2.294	-.381	.056	6.673	.719	.692	8.103
August	7.110	.720	.672	8.503	1.826	2.331	-.505	.113	6.706	.720	.664	8.111
September	6.987	.666	.633	8.286	1.705	2.266	-.561	-.339	6.089	.666	.618	7.386
October	7.188	.616	.659	8.463	1.771	2.294	-.523	-.560	6.108	.616	.647	7.380
November	6.935	.648	.686	8.269	1.767	2.314	-.547	.079	6.478	.648	.665	7.800
December	6.905	.722	.680	8.307	1.802	2.407	-.605	.934	7.240	.722	.661	8.636
Total	**82.157**	**8.061**	**8.307**	**98.526**	**21.507**	**27.332**	**-5.826**	**2.091**	**78.498**	**8.061**	**8.091**	**94.791**
2023 January	7.175	.740	.702	8.617	1.854	2.297	-.444	.266	7.003	.740	.685	R 8.440
February	6.482	.635	.660	7.777	1.745	2.202	-.457	.253	R 6.287	.635	.644	R 7.573
March	7.302	.656	.735	8.693	1.793	2.723	-.930	.343	6.722	.656	.718	8.106
April	6.988	.592	.700	8.280	1.754	2.342	-.588	-.518	5.888	.592	.687	7.174
May	7.252	.642	.741	8.635	1.817	2.419	-.602	-.680	5.967	.642	.735	7.354
June	7.068	.679	.692	8.439	1.826	2.377	-.551	R -.400	R 6.122	.679	.682	R 7.488
July	7.263	.730	.712	8.705	1.806	2.437	-.632	.013	6.659	.730	.693	R 8.086
August	7.412	.729	.712	8.853	1.927	2.487	-.560	-.062	6.794	.729	.703	8.230
September	7.218	.685	.669	8.572	1.782	2.433	-.651	R -.510	6.073	.685	.652	7.410
October	7.401	.642	.701	8.743	1.711	2.522	-.811	-.376	6.223	.642	.690	7.556
November	7.254	.650	.685	8.589	1.826	2.462	-.636	R -.111	R 6.524	.650	.665	R 7.841
December	7.419	.720	.719	8.857	1.859	2.796	-.938	.404	6.909	.720	.690	8.324
Total	**86.233**	**8.101**	**8.426**	**102.760**	**21.699**	**29.498**	**-7.799**	**-1.378**	**R 77.172**	**8.101**	**8.245**	**93.583**
2024 January	R 7.110	.722	.683	R 8.515	1.907	2.559	-.653	R 1.109	R 7.582	.722	.662	R 8.971
February	R 6.930	.675	.699	R 8.304	1.716	2.547	-.830	R .237	R 6.354	.675	.682	R 7.711
March	R 7.234	.662	R .771	R 8.667	R 1.743	R 2.641	R -.899	R -.062	R 6.296	.662	.749	R 7.706
April	6.840	.599	.751	8.190	1.776	2.384	-.608	-.434	5.811	.599	.736	7.148
4-Month Total	**28.115**	**2.657**	**2.903**	**33.675**	**7.141**	**10.131**	**-2.989**	**.851**	**26.043**	**2.657**	**2.829**	**31.537**
2023 4-Month Total	**27.946**	**2.624**	**2.797**	**33.367**	**7.146**	**9.565**	**-2.419**	**.344**	**25.901**	**2.624**	**2.734**	**31.292**
2022 4-Month Total	**26.390**	**2.621**	**2.795**	**31.806**	**7.123**	**8.795**	**-1.672**	**2.176**	**26.948**	**2.621**	**2.709**	**32.310**

[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.

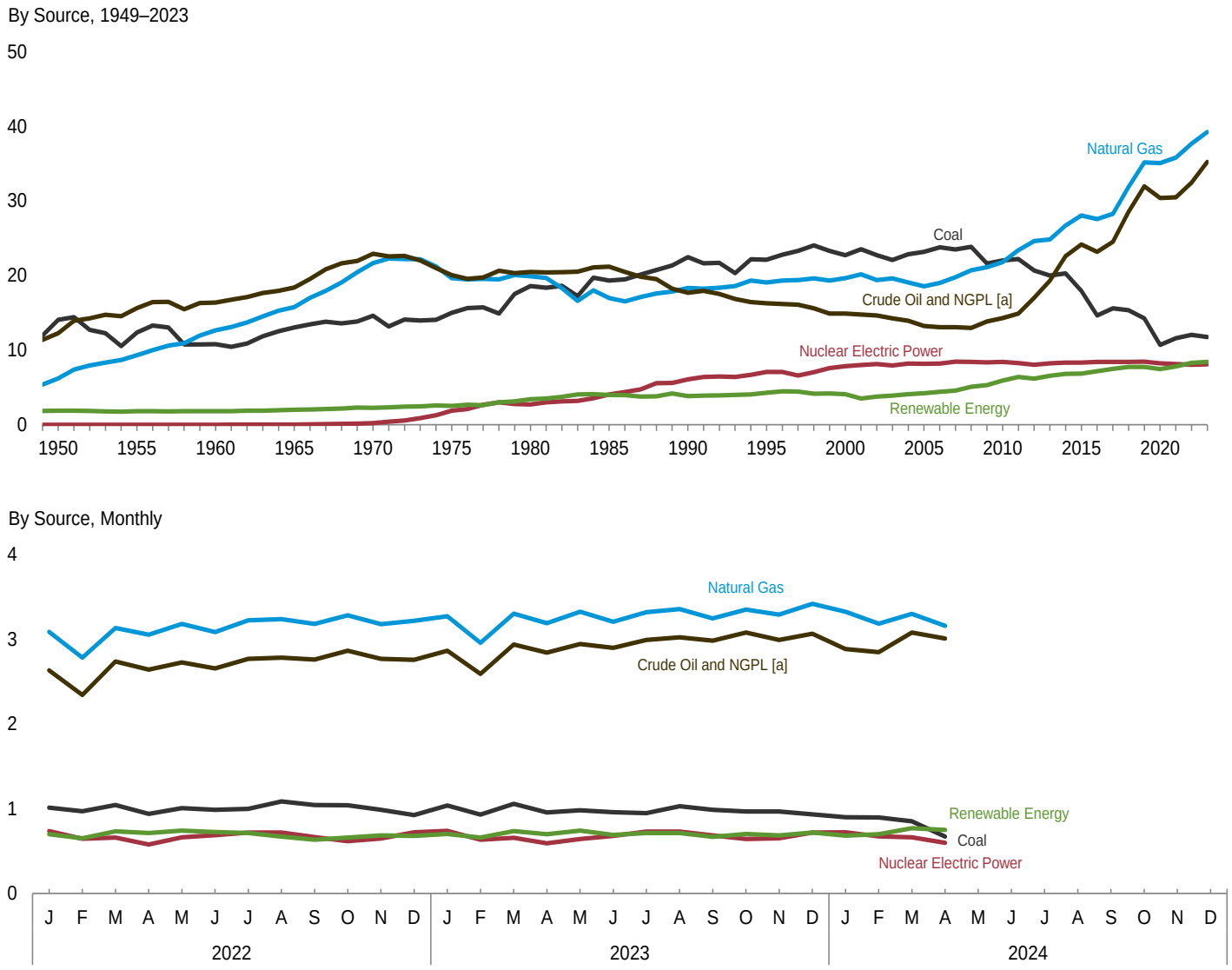
Notes: • See "Primary Energy," "Primary Energy Production," and "Primary Energy Consumption," in Glossary. • Totals may not equal sum of components due to independent rounding. • Geographic coverage is the 50 states and the District of Columbia.

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)



[a] Natural gas plant liquids.

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

Source: Table 1.2.

Table 1.2 Primary Energy Production by Source

(Quadrillion Btu)

	Fossil Fuels					Nuclear Electric Power	Renewable Energy[a]						Total
	Coal[b]	Natural Gas (Dry)	Crude Oil[c]	NGPL[d]	Total		Hydro-electric Power[e]	Geo-thermal	Solar	Wind	Bio-mass	Total	
1950 Total	**14.060**	**6.233**	**11.447**	**0.813**	**32.553**	**0.000**	**0.344**	**NA**	**NA**	**NA**	**1.562**	**1.907**	**34.460**
1955 Total	**12.370**	**9.345**	**14.410**	**1.223**	**37.347**	**.000**	**.397**	**NA**	**NA**	**NA**	**1.424**	**1.821**	**39.168**
1960 Total	**10.817**	**12.656**	**14.935**	**1.447**	**39.855**	**.006**	**.510**	**(s)**	**NA**	**NA**	**1.320**	**1.830**	**41.691**
1965 Total	**13.055**	**15.775**	**16.521**	**1.853**	**47.205**	**.043**	**.672**	**.001**	**NA**	**NA**	**1.335**	**2.008**	**49.256**
1970 Total	**14.607**	**21.666**	**20.401**	**2.478**	**59.152**	**.239**	**.856**	**.002**	**NA**	**NA**	**1.431**	**2.289**	**61.681**
1975 Total	**14.989**	**19.640**	**17.729**	**2.338**	**54.697**	**1.900**	**1.034**	**.011**	**NA**	**NA**	**1.499**	**2.544**	**59.141**
1980 Total	**18.598**	**19.908**	**18.249**	**2.225**	**58.979**	**2.739**	**.953**	**.017**	**NA**	**NA**	**2.475**	**3.445**	**65.164**
1985 Total	**19.325**	**16.980**	**18.992**	**2.204**	**57.502**	**4.076**	**.970**	**.032**	**(s)**	**(s)**	**3.016**	**4.018**	**65.595**
1990 Total	**22.488**	**18.326**	**15.571**	**2.138**	**58.523**	**6.104**	**.999**	**.063**	**.056**	**.010**	**2.735**	**3.863**	**68.490**
1995 Total	**22.130**	**19.082**	**13.887**	**2.398**	**57.496**	**7.075**	**1.061**	**.060**	**.064**	**.011**	**3.099**	**4.295**	**68.866**
2000 Total	**22.735**	**19.662**	**12.358**	**2.551**	**57.307**	**7.862**	**.940**	**.069**	**.059**	**.019**	**3.006**	**4.093**	**69.262**
2005 Total	**23.185**	**18.556**	**10.974**	**2.280**	**54.995**	**8.161**	**.922**	**.084**	**.052**	**.061**	**3.101**	**4.220**	**67.376**
2010 Total	**22.038**	**21.806**	**11.610**	**2.705**	**58.159**	**8.434**	**.888**	**.111**	**.068**	**.323**	**4.553**	**5.943**	**72.536**
2011 Total	**22.221**	**23.406**	**12.012**	**2.890**	**60.529**	**8.269**	**1.090**	**.116**	**.076**	**.410**	**4.712**	**6.404**	**75.202**
2012 Total	**20.677**	**24.610**	**13.849**	**3.162**	**62.298**	**8.062**	**.943**	**.117**	**.094**	**.480**	**4.554**	**6.187**	**76.547**
2013 Total	**20.001**	**24.859**	**15.868**	**3.451**	**64.180**	**8.244**	**.916**	**.117**	**.120**	**.573**	**4.835**	**6.561**	**78.985**
2014 Total	**20.286**	**26.718**	**18.610**	**4.005**	**69.619**	**8.338**	**.885**	**.118**	**.161**	**.620**	**5.052**	**6.836**	**84.792**
2015 Total	**17.946**	**28.067**	**19.697**	**4.476**	**70.186**	**8.337**	**.850**	**.118**	**.196**	**.651**	**5.031**	**6.846**	**85.369**
2016 Total	**14.667**	**27.576**	**18.527**	**4.665**	**65.435**	**8.427**	**.914**	**.117**	**.251**	**.774**	**5.132**	**7.188**	**81.050**
2017 Total	**15.625**	**28.289**	**19.547**	**4.987**	**68.448**	**8.419**	**1.025**	**.118**	**.329**	**.868**	**5.166**	**7.505**	**84.372**
2018 Total	**15.363**	**31.882**	**22.808**	**5.727**	**75.780**	**8.438**	**.998**	**.118**	**.384**	**.930**	**5.314**	**7.744**	**91.963**
2019 Total	**14.256**	**35.187**	**25.604**	**6.352**	**81.399**	**8.452**	**.982**	**.116**	**.430**	**1.010**	**5.215**	**7.753**	**97.604**
2020 Total	**10.703**	**35.062**	**23.575**	**6.805**	**76.145**	**8.251**	**.973**	**.118**	**.511**	**1.153**	**4.710**	**7.465**	**91.861**
2021 Total	**11.596**	**35.807**	**23.401**	**7.099**	**77.903**	**8.131**	**.858**	**.118**	**.627**	**1.290**	**4.914**	**7.807**	**93.841**
2022 January	1.012	3.090	2.023	.610	6.736	.737	.083	.010	.042	.128	.435	.698	8.171
February	.970	2.784	1.792	.552	6.098	.646	.073	.009	.047	.128	.394	.652	7.396
March	1.044	3.135	2.080	.660	6.919	.660	.083	.010	.063	.147	.430	.733	8.312
April	.940	3.056	2.007	.635	6.637	.578	.068	.010	.071	.158	.406	.712	7.928
May	1.006	3.183	2.068	.661	6.917	.662	.080	.010	.079	.144	.430	.743	8.322
June	.986	3.087	2.012	.644	6.730	.687	.089	.010	.083	.115	.430	.726	8.143
July	1.000	3.224	2.085	.686	6.995	.719	.084	.010	.083	.101	.436	.713	8.428
August	1.087	3.240	2.112	.672	7.110	.720	.072	.010	.077	.084	.429	.672	8.503
September	1.044	3.181	2.102	.660	6.987	.666	.058	.010	.070	.093	.402	.633	8.286
October	1.040	3.284	2.181	.684	7.188	.616	.049	.010	.063	.112	.425	.659	8.463
November	.988	3.178	2.110	.658	6.935	.648	.061	.010	.047	.141	.427	.686	8.269
December	.926	3.219	2.139	.621	6.905	.722	.070	.010	.040	.132	.429	.680	8.307
Total	**12.043**	**37.662**	**24.710**	**7.742**	**82.157**	**8.061**	**.869**	**.118**	**.765**	**1.482**	**5.073**	**8.307**	**98.526**
2023 January	1.037	E 3.273	E 2.217	.648	7.175	.740	.076	.011	.044	.134	.437	.702	8.617
February	.931	E 2.958	E 1.996	.597	6.482	.635	.064	.009	.050	.144	.393	.660	7.777
March	1.057	E 3.304	E 2.252	.688	7.302	.656	.069	.010	.067	.152	.436	.735	8.693
April	.955	E 3.190	E 2.159	.683	6.988	.592	.060	.010	.079	.147	.404	.700	8.280
May	.981	E 3.326	E 2.239	.706	7.252	.642	.094	.010	.090	.109	.438	.741	8.635
June	.959	E 3.209	E 2.201	.700	7.068	.679	.066	.010	.092	.094	.430	.692	8.439
July	.949	E 3.320	E 2.280	.714	7.263	.730	.072	.010	.098	.095	.437	.712	8.705
August	1.030	E 3.357	E 2.300	.726	7.412	.729	.072	.010	.093	.097	.440	.712	8.853
September	.986	E 3.247	E 2.261	.724	7.218	.685	.056	.010	.082	.096	.425	.669	8.572
October	.968	E 3.351	E 2.331	.750	7.401	.642	.062	.010	.074	.124	.430	.701	8.743
November	.968	E 3.291	E 2.269	.725	7.254	.650	.062	.010	.056	.126	.430	.685	8.589
December	.933	E 3.419	E 2.339	.728	7.419	.720	.066	.010	.051	.131	.461	.719	8.857
Total	**11.754**	**E 39.246**	**E 26.843**	**8.389**	**86.233**	**8.101**	**.818**	**.120**	**.878**	**1.451**	**5.160**	**8.426**	**102.760**
2024 January	R .899	E 3.326	E 2.214	.671	R 7.110	.722	.072	.010	.053	.119	.428	.683	R 8.515
February	R .897	RE 3.184	RE 2.162	.688	R 6.930	.675	.067	.009	.065	.142	.416	.699	R 8.304
March	R .853	RE 3.301	RE 2.324	.757	R 7.234	.662	.078	.010	.083	.157	R .443	R .771	R 8.667
April	.672	E 3.159	E 2.261	.748	6.840	.599	.065	.010	.098	.163	.415	.751	8.190
4-Month Total	**3.321**	**E 12.970**	**E 8.960**	**2.864**	**28.115**	**2.657**	**.283**	**.039**	**.299**	**.581**	**1.702**	**2.903**	**33.675**
2023 4-Month Total	**3.981**	**E 12.725**	**E 8.624**	**2.616**	**27.946**	**2.624**	**.268**	**.040**	**.241**	**.577**	**1.670**	**2.797**	**33.367**
2022 4-Month Total	**3.966**	**12.065**	**7.902**	**2.457**	**26.390**	**2.621**	**.307**	**.039**	**.223**	**.560**	**1.665**	**2.795**	**31.806**

[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.

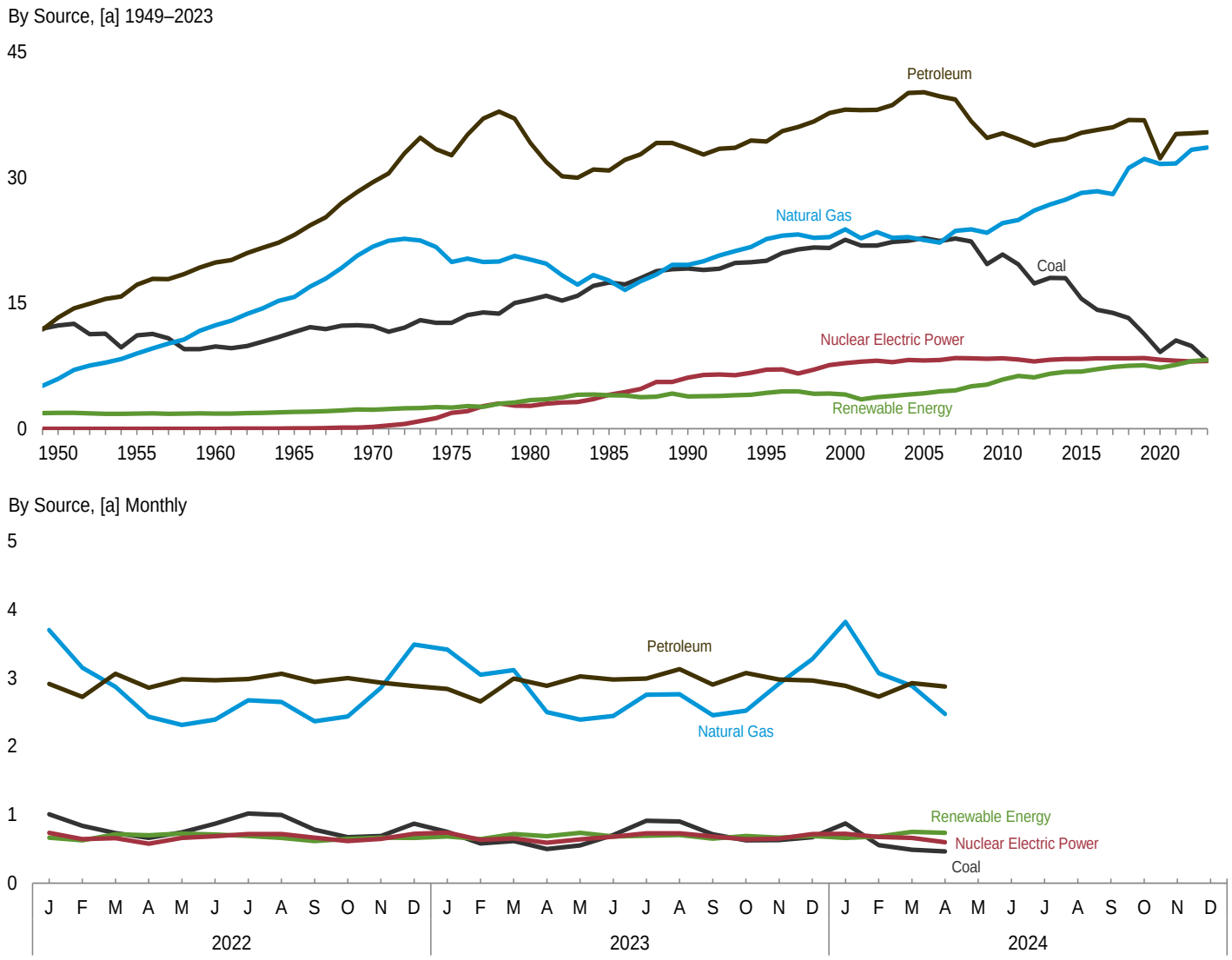
R=Revised. E=Estimate. NA=Not available. (s)=Less than 0.5 trillion Btu.

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)



[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]					Renewable Energy[b]						
	Coal	Natural Gas[c]	Petroleum[d]	Total[e]	Nuclear Electric Power	Hydroelectric Power[f]	Geothermal	Solar	Wind	Biomass	Total	Total[g]
1950 Total	**12.347**	**5.968**	**13.298**	**31.615**	**0.000**	**0.344**	**NA**	**NA**	**NA**	**1.562**	**1.907**	**33.527**
1955 Total	**11.167**	**8.998**	**17.225**	**37.380**	**.000**	**.397**	**NA**	**NA**	**NA**	**1.424**	**1.821**	**39.215**
1960 Total	**9.838**	**12.385**	**19.874**	**42.091**	**.006**	**.510**	**(s)**	**NA**	**NA**	**1.320**	**1.830**	**43.942**
1965 Total	**11.581**	**15.769**	**23.184**	**50.515**	**.043**	**.672**	**.001**	**NA**	**NA**	**1.335**	**2.008**	**52.565**
1970 Total	**12.265**	**21.795**	**29.499**	**63.501**	**.239**	**.856**	**.002**	**NA**	**NA**	**1.431**	**2.289**	**66.036**
1975 Total	**12.663**	**19.948**	**32.699**	**65.323**	**1.900**	**1.034**	**.011**	**NA**	**NA**	**1.499**	**2.544**	**69.788**
1980 Total	**15.423**	**20.235**	**34.159**	**69.782**	**2.739**	**.953**	**.017**	**NA**	**NA**	**2.475**	**3.445**	**76.038**
1985 Total	**17.478**	**17.703**	**30.866**	**66.035**	**4.076**	**.970**	**.032**	**(s)**	**(s)**	**3.016**	**4.018**	**74.268**
1990 Total	**19.173**	**19.603**	**33.500**	**72.281**	**6.104**	**.999**	**.063**	**.056**	**.010**	**2.735**	**3.863**	**82.256**
1995 Total	**20.089**	**22.671**	**34.341**	**77.162**	**7.075**	**1.061**	**.060**	**.064**	**.011**	**3.101**	**4.297**	**88.668**
2000 Total	**22.580**	**23.824**	**38.152**	**84.620**	**7.862**	**.940**	**.069**	**.059**	**.019**	**3.008**	**4.096**	**96.694**
2005 Total	**22.797**	**22.565**	**40.217**	**85.623**	**8.161**	**.922**	**.084**	**.052**	**.061**	**3.114**	**4.233**	**98.101**
2010 Total	**20.834**	**24.575**	**35.321**	**80.723**	**8.434**	**.888**	**.111**	**.068**	**.323**	**4.506**	**5.896**	**95.142**
2011 Total	**19.658**	**24.955**	**34.639**	**79.263**	**8.269**	**1.090**	**.116**	**.076**	**.410**	**4.616**	**6.308**	**93.966**
2012 Total	**17.378**	**26.089**	**33.833**	**77.304**	**8.062**	**.943**	**.117**	**.094**	**.480**	**4.517**	**6.150**	**91.677**
2013 Total	**18.039**	**26.805**	**34.398**	**79.224**	**8.244**	**.916**	**.117**	**.120**	**.573**	**4.861**	**6.587**	**94.253**
2014 Total	**17.998**	**27.383**	**34.658**	**80.017**	**8.338**	**.885**	**.118**	**.161**	**.620**	**5.016**	**6.799**	**95.335**
2015 Total	**15.549**	**28.191**	**35.368**	**79.090**	**8.337**	**.850**	**.118**	**.196**	**.651**	**5.015**	**6.829**	**94.484**
2016 Total	**14.226**	**28.400**	**35.712**	**78.319**	**8.427**	**.914**	**.117**	**.251**	**.774**	**5.063**	**7.120**	**94.092**
2017 Total	**13.837**	**28.055**	**36.043**	**77.907**	**8.419**	**1.025**	**.118**	**.329**	**.868**	**5.045**	**7.383**	**93.902**
2018 Total	**13.252**	**31.163**	**36.892**	**81.281**	**8.438**	**.998**	**.118**	**.384**	**.930**	**5.105**	**7.535**	**97.405**
2019 Total	**11.316**	**32.264**	**36.866**	**80.425**	**8.452**	**.982**	**.116**	**.430**	**1.010**	**5.056**	**7.594**	**96.603**
2020 Total	**9.181**	**31.640**	**32.331**	**73.139**	**8.251**	**.973**	**.118**	**.511**	**1.153**	**4.545**	**7.301**	**88.852**
2021 Total	**10.549**	**31.711**	**35.243**	**77.454**	**8.131**	**.858**	**.118**	**.627**	**1.290**	**4.751**	**7.644**	**93.363**
2022 January	1.008	3.704	2.915	7.622	.737	.083	.010	.042	.128	.404	.666	9.036
February	.838	3.153	2.726	6.715	.646	.073	.009	.047	.128	.370	.628	7.995
March	.733	2.872	3.063	6.663	.660	.083	.010	.063	.147	.412	.715	8.044
April	.663	2.434	2.858	5.949	.578	.068	.010	.071	.158	.393	.700	7.235
May	.745	2.313	2.982	6.031	.662	.080	.010	.079	.144	.412	.725	7.427
June	.870	2.393	2.967	6.225	.687	.089	.010	.083	.115	.414	.710	7.637
July	1.018	2.674	2.986	6.673	.719	.084	.010	.083	.101	.415	.692	8.103
August	.997	2.650	3.064	6.706	.720	.072	.010	.077	.084	.421	.664	8.111
September	.783	2.368	2.943	6.089	.666	.058	.010	.070	.093	.387	.618	7.386
October	.673	2.439	2.999	6.108	.616	.049	.010	.063	.112	.413	.647	7.380
November	.690	2.859	2.931	6.478	.648	.061	.010	.047	.141	.407	.665	7.800
December	.871	3.490	2.884	7.240	.722	.070	.010	.040	.132	.409	.661	8.636
Total	**9.888**	**33.347**	**35.319**	**78.498**	**8.061**	**.869**	**.118**	**.765**	**1.482**	**4.857**	**8.091**	**94.791**
2023 January	.749	3.415	2.842	7.003	.740	.076	.011	.044	.134	.420	.685	R 8.440
February	.582	R 3.048	2.658	R 6.287	.635	.064	.009	.050	.144	.376	.644	R 7.573
March	.618	3.115	2.991	6.722	.656	.069	.010	.067	.152	.420	.718	8.106
April	.499	2.503	2.888	5.888	.592	.060	.010	.079	.147	.391	.687	7.174
May	.552	2.392	3.026	5.967	.642	.094	.010	.090	.109	.432	.735	7.354
June	.703	R 2.444	2.978	R 6.122	.679	.066	.010	.092	.094	.420	.682	R 7.488
July	.913	2.755	2.993	6.659	.730	.072	.010	.098	.095	.418	.693	R 8.086
August	.902	2.764	3.130	6.794	.729	.072	.010	.093	.097	.431	.703	8.230
September	.716	2.455	2.906	6.073	.685	.056	.010	.082	.096	.408	.652	7.410
October	.628	2.522	3.074	6.223	.642	.062	.010	.074	.124	.420	.690	7.556
November	.630	R 2.919	2.978	R 6.524	.650	.062	.010	.056	.126	.410	.665	R 7.841
December	.674	3.277	2.963	6.909	.720	.066	.010	.051	.131	.432	.690	8.324
Total	**8.167**	**33.611**	**35.427**	**R 77.172**	**8.101**	**.818**	**.120**	**.878**	**1.451**	**4.978**	**8.245**	**93.583**
2024 January	R .875	R 3.822	2.886	R 7.582	.722	.072	.010	.053	.119	.407	.662	R 8.971
February	R .558	R 3.070	2.728	R 6.354	.675	.067	.009	.065	.142	.399	.682	R 7.711
March	R .489	R 2.887	2.924	R 6.296	.662	.078	.010	.083	.157	.422	.749	R 7.706
April	.465	2.475	2.875	5.811	.599	.065	.010	.098	.163	.401	.736	7.148
4-Month Total	**2.387**	**12.255**	**11.412**	**26.043**	**2.657**	**.283**	**.039**	**.299**	**.581**	**1.629**	**2.829**	**31.537**
2023 4-Month Total	**2.449**	**12.082**	**11.379**	**25.901**	**2.624**	**.268**	**.040**	**.241**	**.577**	**1.607**	**2.734**	**31.292**
2022 4-Month Total	**3.241**	**12.162**	**11.562**	**26.948**	**2.621**	**.307**	**.039**	**.223**	**.560**	**1.579**	**2.709**	**32.310**

[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. Biofuels are included in "Biomass."

[e] Includes coal coke net imports. See Table 1.4c.

[f] Conventional hydroelectric power.

[g] Includes coal coke net imports and electricity net imports, which are not separately displayed. See Table 1.4c.

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

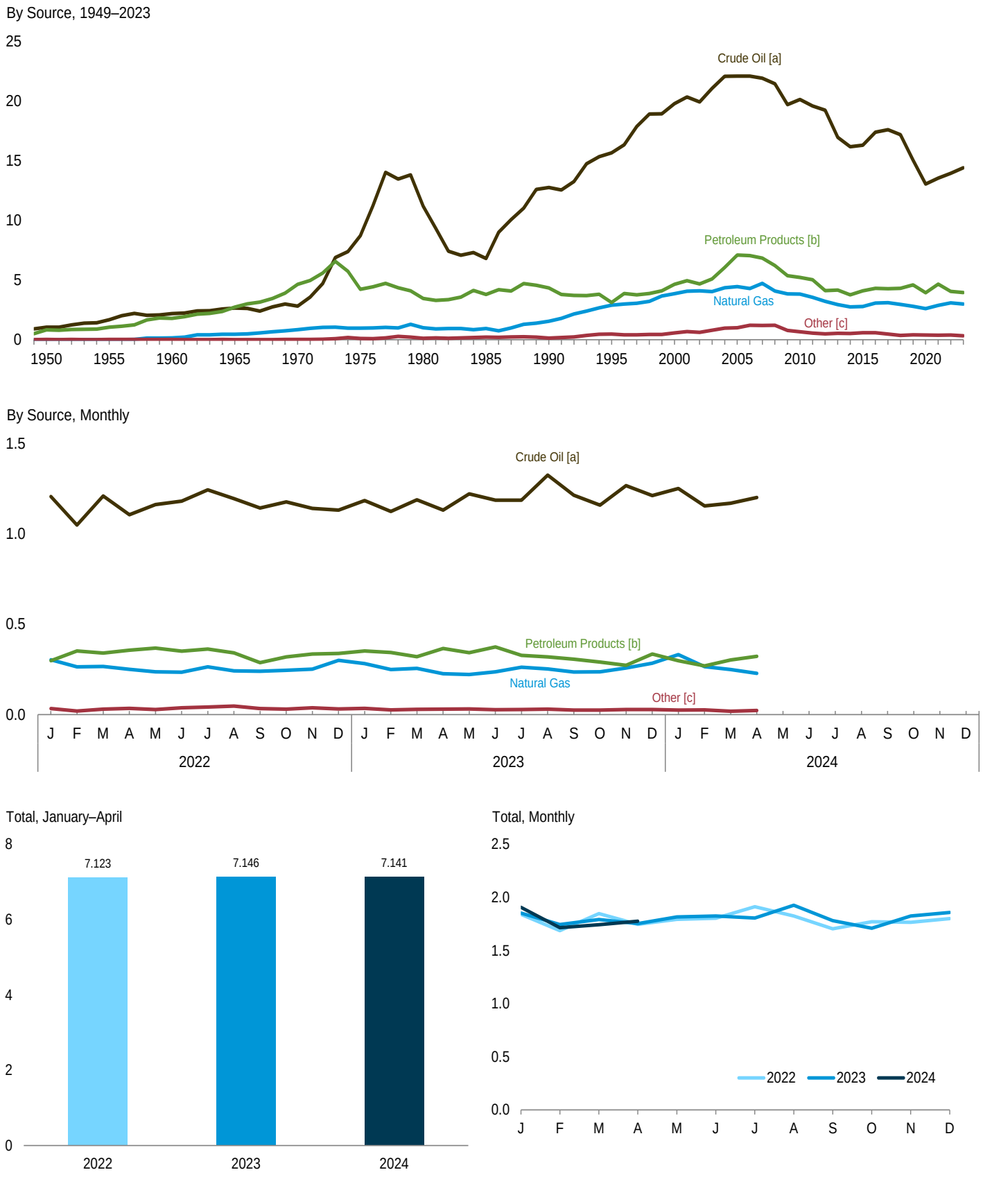
Notes: • See "Primary Energy Consumption" in Glossary. • See Table D1 for estimated energy consumption for 1635–1945. • Totals may not equal sum of components due to independent rounding. • Geographic coverage is the 50 states and the District of Columbia.

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)



[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								
				Petroleum					
	Coal	Coal Coke	Natural Gas	Crude Oil[a]	Petroleum Products[b]	Total	Biomass[c]	Electricity	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**
2005 Total	**.762**	**.088**	**4.450**	**22.091**	**7.108**	**29.198**	**.012**	**.150**	**34.659**
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 Total	**.122**	**.003**	**2.961**	**17.192**	**4.309**	**21.501**	**.048**	**.199**	**24.833**
2019 Total	**.138**	**.003**	**2.810**	**15.045**	**4.596**	**19.641**	**.072**	**.201**	**22.865**
2020 Total	**.105**	**.004**	**2.615**	**13.044**	**3.937**	**16.980**	**.074**	**.210**	**19.988**
2021 Total	**.109**	**.003**	**2.878**	**13.539**	**4.661**	**18.200**	**.083**	**.181**	**21.455**
2022 January	.011	(s)	.304	1.207	.298	1.505	.006	.015	1.841
February	.006	(s)	.264	1.049	.352	1.402	.003	.011	1.687
March	.011	(s)	.266	1.210	.341	1.552	.006	.013	1.848
April	.015	(s)	.251	1.106	.356	1.462	.006	.013	1.747
May	.007	(s)	.237	1.163	.368	1.530	.006	.015	1.795
June	.013	(s)	.235	1.182	.351	1.533	.005	.019	1.805
July	.014	(s)	.264	1.244	.363	1.607	.005	.023	1.913
August	.017	(s)	.242	1.195	.342	1.537	.006	.025	1.826
September	.011	(s)	.240	1.144	.288	1.432	.004	.018	1.705
October	.009	(s)	.245	1.177	.319	1.496	.007	.014	1.771
November	.015	(s)	.252	1.141	.335	1.477	.010	.012	1.767
December	.006	(s)	.300	1.132	.338	1.470	.009	.017	1.802
Total	**.135**	**.002**	**3.100**	**13.951**	**4.052**	**18.003**	**.073**	**.194**	**21.507**
2023 January	.011	(s)	.282	1.185	.352	1.537	.008	.015	1.854
February	.006	(s)	.250	1.125	.344	1.469	.008	.012	1.745
March	.006	(s)	.256	1.189	.320	1.509	.009	.013	1.793
April	.009	.001	.226	1.132	.366	1.498	.008	.012	1.754
May	.007	(s)	.222	1.222	.343	1.564	.011	.013	1.817
June	.006	.001	.237	1.187	.375	1.562	.009	.010	1.826
July	.007	.001	.262	1.187	.328	1.515	.008	.011	1.806
August	.008	(s)	.253	1.326	.319	1.644	.012	.010	1.927
September	.007	(s)	.236	1.214	.307	1.521	.010	.008	1.782
October	.009	.001	.237	1.159	.291	1.449	.007	.008	1.711
November	.007	.001	.258	1.267	.273	1.540	.011	.008	1.826
December	.005	(s)	.284	1.212	.335	1.547	.012	.011	1.859
Total	**.088**	**.005**	**3.003**	**14.404**	**3.952**	**18.356**	**.114**	**.133**	**21.699**
2024 January	.002	(s)	.332	1.252	.298	1.550	.011	.012	1.907
February	.003	(s)	.265	1.155	.270	1.425	.014	.009	1.716
March	.002	(s)	R.250	1.170	.303	1.473	.009	.008	R1.743
April	.006	(s)	.228	1.202	.323	1.525	.013	.004	1.776
4-Month Total	**.013**	**(s)**	**1.075**	**4.779**	**1.195**	**5.973**	**.048**	**.032**	**7.141**
2023 4-Month Total	**.032**	**.001**	**1.014**	**4.632**	**1.382**	**6.013**	**.033**	**.053**	**7.146**
2022 4-Month Total	**.043**	**(s)**	**1.085**	**4.573**	**1.348**	**5.921**	**.022**	**.052**	**7.123**

[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] Beginning in 1993, includes fuel ethanol (minus denaturant). Beginning in 2001, also includes biodiesel. Beginning in 2011, also includes renewable diesel fuel. Beginning in 2021, also includes other biofuels.

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

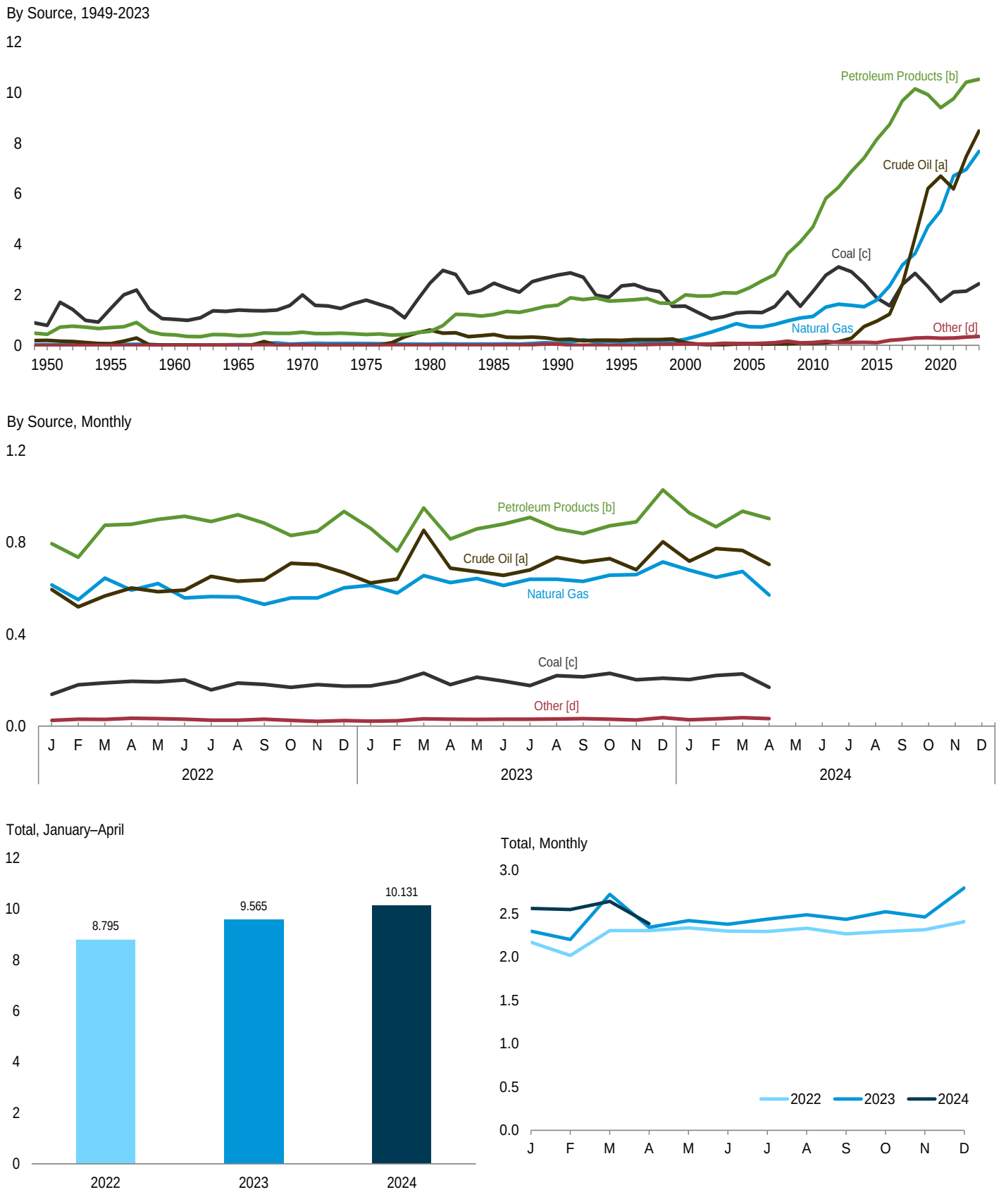
Notes: • See "Primary Energy" in Glossary. • Totals may not equal sum of components due to independent rounding. • Geographic coverage is the 50 states and the District of Columbia.

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 1.4b Primary Energy Exports

(Quadrillion Btu)



[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								
				Petroleum					
	Coal	Coal Coke	Natural Gas	Crude Oil[a]	Petroleum Products[b]	Total	Biomass[c]	Electricity	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**
2005 Total	**1.273**	**.043**	**.735**	**.067**	**2.276**	**2.344**	**(s)**	**.065**	**4.462**
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 Total	**2.824**	**.029**	**3.640**	**4.277**	**10.158**	**14.434**	**.249**	**.047**	**21.224**
2019 Total	**2.305**	**.024**	**4.700**	**6.212**	**9.926**	**16.139**	**.240**	**.068**	**23.476**
2020 Total	**1.725**	**.017**	**5.332**	**6.699**	**9.410**	**16.108**	**.234**	**.048**	**23.464**
2021 Total	**2.061**	**.052**	**6.712**	**6.191**	**9.761**	**15.952**	.247	**.047**	**25.071**
2022 January	.134	.005	.616	.595	.795	1.390	.020	.005	2.170
February	.178	.002	.551	.520	.736	1.255	.024	.005	2.016
March	.184	.005	.645	.567	.876	1.443	.023	.006	2.305
April	.190	.005	.593	.602	.880	1.481	.029	.005	2.303
May	.184	.010	.622	.586	.901	1.487	.027	.005	2.335
June	.197	.004	.559	.593	.915	1.508	.026	.004	2.297
July	.153	.005	.565	.653	.892	1.545	.022	.004	2.294
August	.184	.004	.563	.632	.922	1.554	.022	.004	2.331
September	.177	.005	.531	.638	.885	1.523	.025	.005	2.266
October	.165	.004	.559	.710	.831	1.541	.021	.004	2.294
November	.177	.003	.559	.705	.850	1.554	.018	.003	2.314
December	.169	.005	.603	.669	.936	1.605	.022	.003	2.407
Total	**2.093**	**.057**	**6.966**	**7.468**	**10.417**	**17.885**	**.278**	**.054**	**27.332**
2023 January	.172	.003	.614	.624	.862	1.486	.018	.004	2.297
February	.193	.002	.580	.641	.763	1.404	.018	.005	2.202
March	.229	.002	.656	.854	.951	1.804	.027	.004	2.723
April	.179	.002	.626	.689	.816	1.505	.024	.006	2.342
May	.209	.003	.644	.673	.860	1.533	.024	.004	2.419
June	.193	.003	.613	.657	.881	1.538	.026	.005	2.377
July	.172	.004	.640	.681	.910	1.591	.023	.007	2.437
August	.217	.003	.640	.736	.861	1.597	.025	.005	2.487
September	.211	.004	.631	.715	.839	1.553	.026	.008	2.433
October	.228	.002	.658	.730	.873	1.603	.024	.007	2.522
November	.199	.003	.661	.682	.890	1.572	.021	.006	2.462
December	.204	.005	.716	.804	1.030	1.834	.031	.006	2.796
Total	**2.405**	**.037**	**7.679**	**8.486**	**10.536**	**19.022**	**.286**	**.068**	**29.498**
2024 January	.203	.001	.680	.719	.929	1.648	.021	.006	2.559
February	.220	.002	.649	.774	.869	1.643	.024	.008	2.547
March	.224	.004	.674	.766	.937	1.703	R .028	.009	R 2.641
April	.165	.004	.572	.705	.905	1.609	.031	.002	2.384
4-Month Total	**.811**	**.011**	**2.575**	**2.964**	**3.639**	**6.604**	**.105**	**.025**	**10.131**
2023 4-Month Total	**.772**	**.010**	**2.477**	**2.809**	**3.391**	**6.200**	**.087**	**.019**	**9.565**
2022 4-Month Total	**.687**	**.017**	**2.405**	**2.283**	**3.286**	**5.569**	**.096**	**.021**	**8.795**

[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.

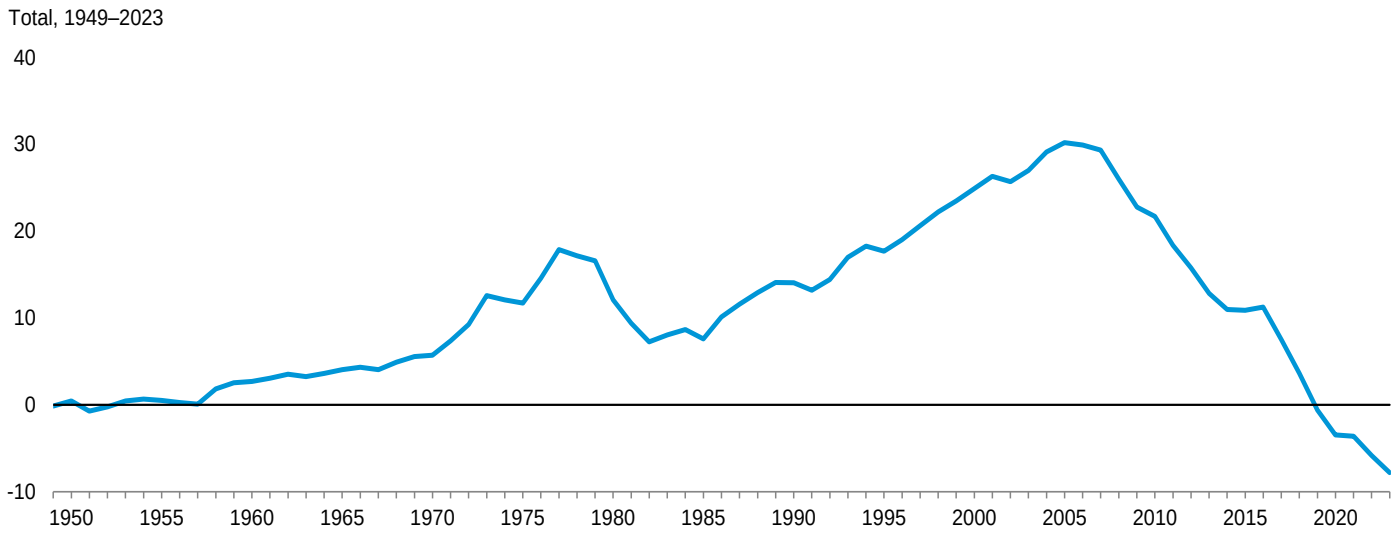
Notes: • See "Primary Energy" in Glossary. • Totals may not equal sum of components due to independent rounding. • Geographic coverage is the 50 states and the District of Columbia.

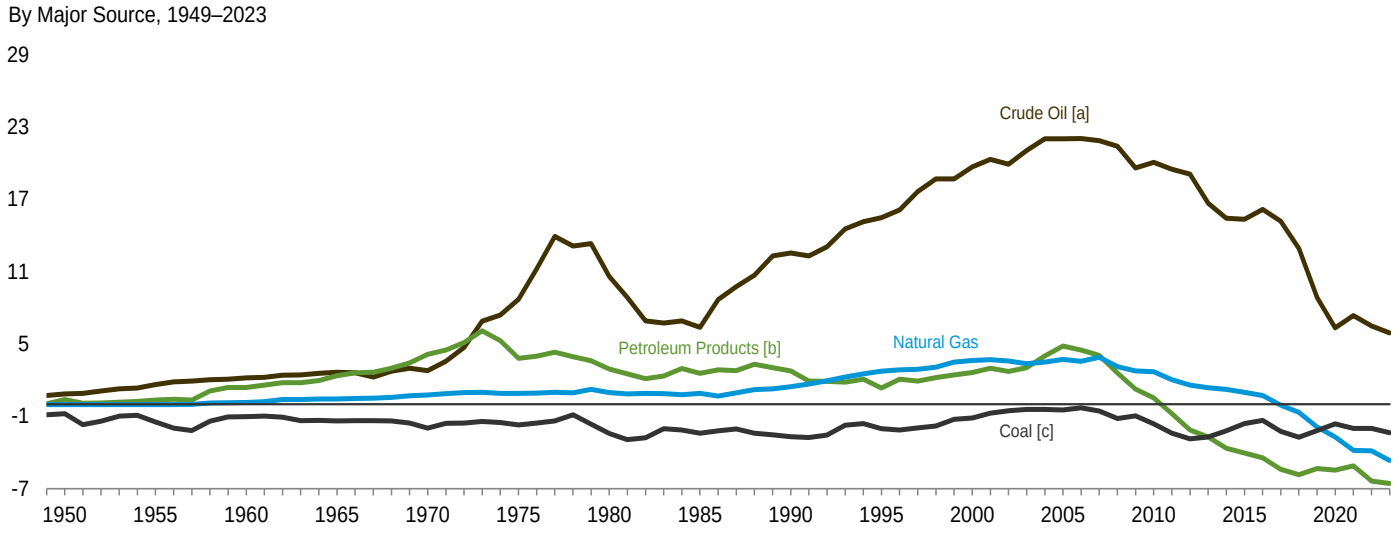
Web Page: See http://www.eia.gov/totalenergy/data/monthly/#summary (Excel and CSV files) for all available annual data beginning in 1949 and monthly data beginning in 1973.

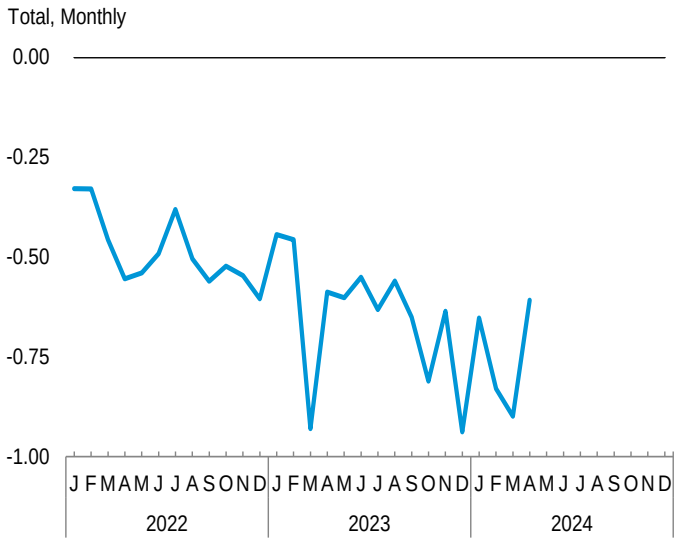
Sources: See end of section.

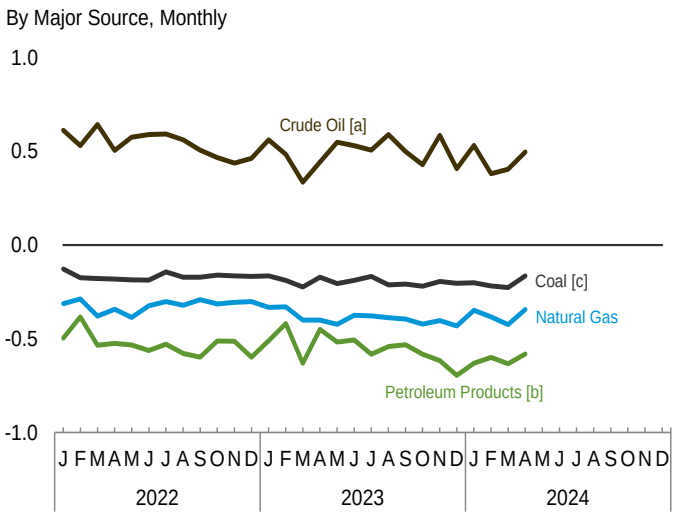
Figure 1.4c Primary Energy Net Imports

(Quadrillion Btu)









[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]								
				Petroleum					
	Coal	Coal Coke	Natural Gas	Crude Oil[b]	Petroleum Products[c]	Total	Biomass[d]	Electricity	Total
1950 Total	**-0.777**	**0.001**	**-0.027**	**0.854**	**0.390**	**1.244**	**NA**	**0.006**	**0.448**
1955 Total	**-1.456**	**-.010**	**-.021**	**1.624**	**.354**	**1.978**	**NA**	**.014**	**.504**
1960 Total	**-1.017**	**-.006**	**.149**	**2.178**	**1.389**	**3.568**	**NA**	**.015**	**2.710**
1965 Total	**-1.372**	**-.018**	**.444**	**2.648**	**2.362**	**5.010**	**NA**	**(s)**	**4.063**
1970 Total	**-1.935**	**-.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**	**-.035**	**.957**	**10.586**	**2.912**	**13.499**	**NA**	**.071**	**12.101**
1985 Total	**-2.389**	**-.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**	**NA**	**.134**	**17.684**
2000 Total	**-1.215**	**.065**	**3.623**	**19.676**	**2.638**	**22.314**	**NA**	**.115**	**24.904**
2005 Total	**-.512**	**.044**	**3.714**	**22.023**	**4.831**	**26.855**	**.011**	**.085**	**30.197**
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 Total	**-2.702**	**-.026**	**-.679**	**12.915**	**-5.849**	**7.066**	**-.201**	**.152**	**3.610**
2019 Total	**-2.167**	**-.021**	**-1.889**	**8.833**	**-5.331**	**3.502**	**-.168**	**.133**	**-.610**
2020 Total	**-1.620**	**-.013**	**-2.717**	**6.345**	**-5.473**	**.872**	**-.159**	**.161**	**-3.476**
2021 Total	**-1.952**	**-.049**	**-3.834**	**7.348**	**-5.100**	**2.248**	**-.163**	**.134**	**-3.616**
2022 January	-.124	-.005	-.313	.612	-.497	.115	-.013	.010	-.329
February	-.172	-.002	-.287	.530	-.383	.147	-.022	.006	-.330
March	-.173	-.005	-.379	.644	-.535	.109	-.016	.007	-.457
April	-.175	-.005	-.342	.505	-.524	-.019	-.023	.009	-.555
May	-.177	-.010	-.386	.576	-.533	.043	-.021	.009	-.540
June	-.184	-.004	-.324	.589	-.563	.026	-.021	.015	-.492
July	-.139	-.005	-.301	.592	-.529	.062	-.017	.019	-.381
August	-.167	-.004	-.321	.562	-.579	-.017	-.016	.020	-.505
September	-.166	-.005	-.291	.507	-.598	-.091	-.021	.013	-.561
October	-.156	-.004	-.314	.467	-.512	-.044	-.014	.010	-.523
November	-.163	-.003	-.306	.437	-.514	-.077	-.007	.009	-.547
December	-.163	-.005	-.302	.463	-.598	-.135	-.013	.014	-.605
Total	**-1.957**	**-.056**	**-3.866**	**6.483**	**-6.365**	**.118**	**-.205**	**.141**	**-5.826**
2023 January	-.162	-.003	-.332	.561	-.510	.052	-.010	.011	-.444
February	-.187	-.002	-.330	.484	-.419	.065	-.010	.007	-.457
March	-.222	-.002	-.400	.335	-.631	-.296	-.018	.009	-.930
April	-.169	-.002	-.400	.443	-.450	-.007	-.016	.007	-.588
May	-.203	-.003	-.423	.549	-.518	.031	-.014	.009	-.602
June	-.187	-.002	-.375	.530	-.506	.024	-.016	.006	-.551
July	-.165	-.003	-.378	.506	-.582	-.076	-.015	.004	-.632
August	-.209	-.003	-.388	.590	-.542	.048	-.013	.005	-.560
September	-.204	-.004	-.395	.499	-.532	-.033	-.015	(s)	-.651
October	-.219	-.002	-.421	.428	-.582	-.154	-.016	.001	-.811
November	-.192	-.002	-.403	.585	-.617	-.032	-.010	.002	-.636
December	-.199	-.005	-.431	.408	-.696	-.288	-.019	.005	-.938
Total	**-2.317**	**-.032**	**-4.677**	**5.918**	**-6.584**	**-.666**	**-.172**	**.065**	**-7.799**
2024 January	-.201	-.001	-.348	.532	-.631	-.099	-.010	.006	-.653
February	-.216	-.002	-.384	.380	-.599	-.218	-.010	.001	-.830
March	-.222	-.004	R -.424	.404	-.634	-.229	R -.019	-.001	R -.899
April	-.159	-.004	-.344	.497	-.581	-.084	-.018	.002	-.608
4-Month Total	**-.798**	**-.011**	**-1.500**	**1.814**	**-2.445**	**-.630**	**-.057**	**.007**	**-2.989**
2023 4-Month Total	**-.740**	**-.009**	**-1.463**	**1.823**	**-2.010**	**-.187**	**-.053**	**.033**	**-2.419**
2022 4-Month Total	**-.644**	**-.017**	**-1.320**	**2.290**	**-1.938**	**.352**	**-.074**	**.032**	**-1.672**

[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 1993, includes fuel ethanol (minus denaturant) imports. Beginning in 2001, also includes biodiesel imports and exports. Beginning in 2010, also includes fuel ethanol (minus denaturant) exports. Beginning in 2011, also includes renewable diesel fuel imports. Beginning in 2021, also includes other biofuels imports.

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

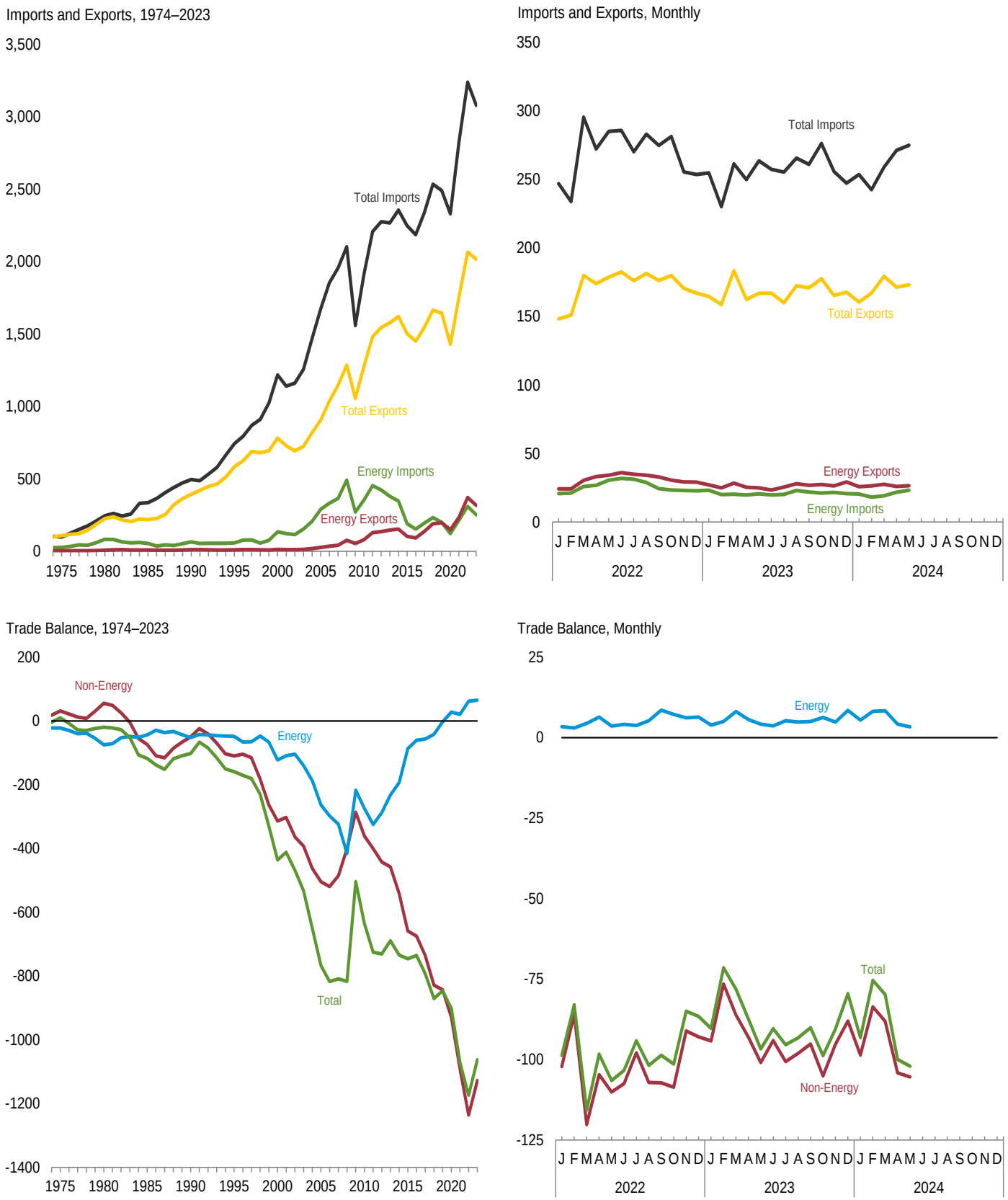
Notes: • See "Primary Energy" in Glossary. • Totals may not equal sum of components due to independent rounding. • Geographic coverage is the 50 states and the District of Columbia.

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])



[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**
2005 Total	**19,155**	**250,068**	**-230,913**	**26,488**	**289,723**	**-263,235**	**-504,242**	**905,978**	**1,673,455**	**-767,477**
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**	**154,498**	**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 Total	**149,715**	**219,493**	**-69,778**	**190,888**	**232,746**	**-41,858**	**-828,500**	**1,665,787**	**2,536,145**	**-870,358**
2019 Total	**156,390**	**189,040**	**-32,650**	**197,740**	**200,829**	**-3,089**	**-842,670**	**1,645,940**	**2,491,700**	**-845,759**
2020 Total	**110,373**	**113,077**	**-2,704**	**150,074**	**122,486**	**27,588**	**-929,070**	**1,429,995**	**2,331,477**	**-901,482**
2021 Total	**157,530**	**198,648**	**-41,118**	**236,233**	**215,734**	**20,499**	**-1,091,271**	**1,757,744**	**2,828,515**	**-1,070,772**
2022 January	16,419	18,180	-1,761	24,205	20,777	3,428	-102,184	148,312	247,067	-98,756
February	16,083	19,117	-3,034	24,185	21,207	2,978	-85,937	150,966	233,926	-82,959
March	21,186	24,083	-2,897	30,405	25,978	4,427	-120,185	179,913	295,671	-115,758
April	23,196	24,787	-1,591	33,113	26,730	6,383	-104,706	174,107	272,430	-98,323
May	23,090	28,330	-5,240	34,086	30,513	3,573	-110,097	178,786	285,309	-106,524
June	24,698	29,557	-4,859	35,952	31,858	4,094	-107,485	182,602	285,993	-103,391
July	25,207	28,886	-3,679	34,938	31,199	3,739	-97,922	176,254	270,437	-94,183
August	23,268	26,280	-3,012	34,087	28,821	5,266	-107,098	181,450	283,282	-101,832
September	22,054	22,031	23	32,786	24,257	8,529	-107,231	176,312	275,014	-98,702
October	21,088	21,640	-552	30,500	23,276	7,224	-108,613	180,050	281,439	-101,389
November	20,677	21,043	-366	29,184	23,064	6,120	-91,117	170,583	255,580	-84,997
December	20,146	19,301	845	29,047	22,678	6,369	-92,974	167,120	253,725	-86,605
Total	**257,113**	**283,233**	**-26,120**	**372,488**	**310,358**	**62,130**	**-1,235,549**	**2,066,454**	**3,239,873**	**-1,173,419**
2023 January	18,329	20,191	-1,862	27,094	23,215	3,879	-94,226	164,603	254,950	-90,347
February	17,462	17,922	-460	24,974	19,953	5,021	-76,523	158,770	230,272	-71,502
March	20,342	18,852	1,490	28,400	20,312	8,088	-86,213	183,433	261,558	-78,125
April	18,444	18,627	-183	25,279	19,669	5,610	-93,070	162,579	250,039	-87,460
May	18,255	19,736	-1,481	24,849	20,643	4,206	-100,933	166,969	263,697	-96,727
June	17,401	18,764	-1,363	23,351	19,681	3,670	-94,081	167,128	257,538	-90,411
July	19,413	19,024	389	25,437	20,176	5,261	-100,641	160,080	255,460	-95,380
August	21,557	21,899	-342	27,878	23,037	4,841	-98,106	172,531	265,796	-93,265
September	20,521	20,753	-232	26,847	21,811	5,036	-95,141	171,036	261,141	-90,105
October	20,303	20,034	269	27,376	21,093	6,283	-105,079	177,653	276,449	-98,796
November	19,368	20,218	-850	26,362	21,550	4,812	-95,255	165,416	255,859	-90,443
December	21,960	19,216	2,744	29,209	20,726	8,483	-88,033	167,861	247,412	-79,550
Total	**233,356**	**235,236**	**-1,880**	**317,057**	**251,865**	**65,192**	**-1,127,303**	**2,018,059**	**3,080,170**	**-1,062,111**
2024 January	18,784	18,422	362	25,789	20,382	5,407	-98,628	160,579	253,800	-93,221
February	19,098	16,656	2,442	26,320	18,147	8,173	-83,613	167,171	242,611	-75,440
March	20,964	18,026	2,938	27,459	19,104	8,355	-88,112	179,391	259,147	-79,757
April	20,446	20,803	-357	25,917	21,733	4,184	[R]-104,157	[R]171,453	[R]271,427	[R]-99,973
May	20,588	22,437	-1,849	26,455	23,119	3,336	-105,391	173,124	275,179	-102,055
5-Month Total	**99,880**	**96,344**	**3,536**	**131,940**	**102,485**	**29,455**	**-479,901**	**851,718**	**1,302,165**	**-450,446**
2022 5-Month Total	**92,833**	**95,327**	**-2,496**	**130,597**	**103,792**	**26,804**	**-450,965**	**836,354**	**1,260,516**	**-424,162**
2021 5-Month Total	**145,994**	**125,205**	**-14,523**	**99,974**	**114,497**	**20,789**	**-523,109**	**832,083**	**1,334,403**	**-502,320**

[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.

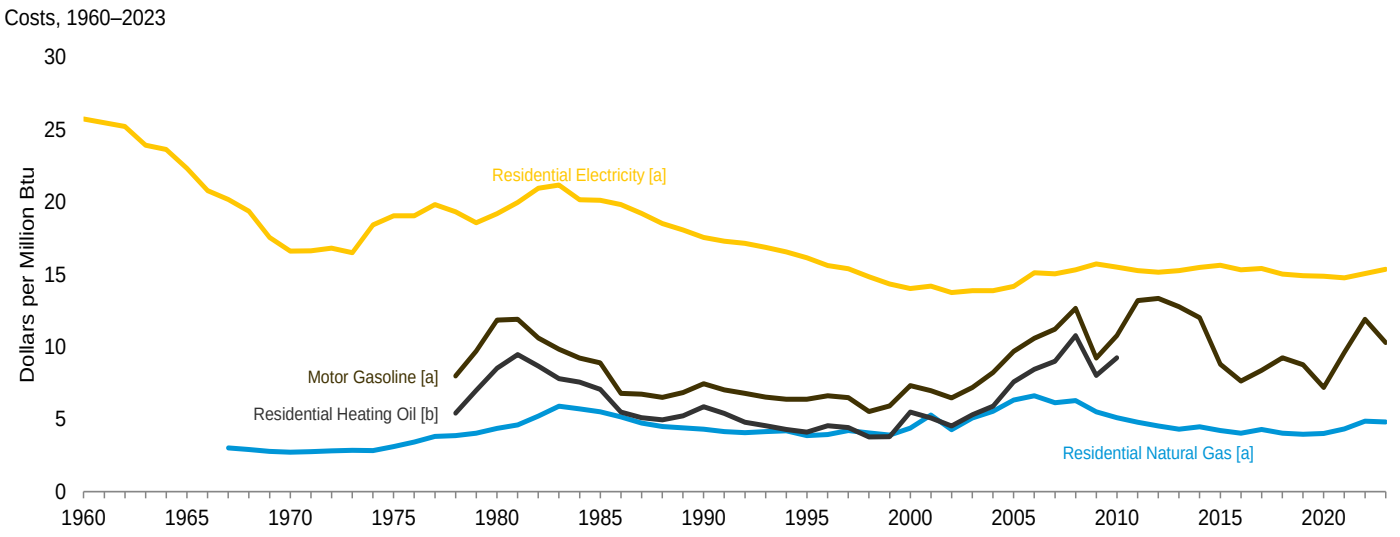
R=Revised.

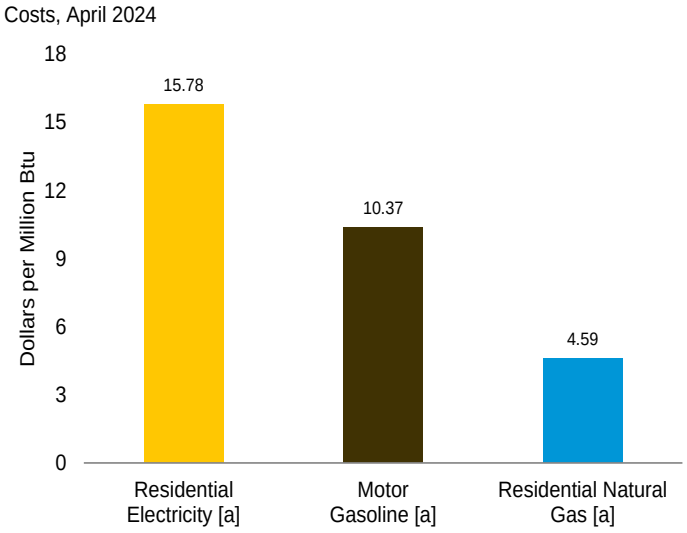
Notes: • Monthly data are not adjusted for seasonal variations. • See Note 1, "Merchandise Trade Value," at end of section. • Totals may not equal sum of components due to independent rounding. • The U.S. import statistics reflect both government and nongovernment imports of merchandise from foreign countries into the U.S. customs territory, which comprises the 50 states, the District of Columbia, Puerto Rico, and the Virgin Islands.

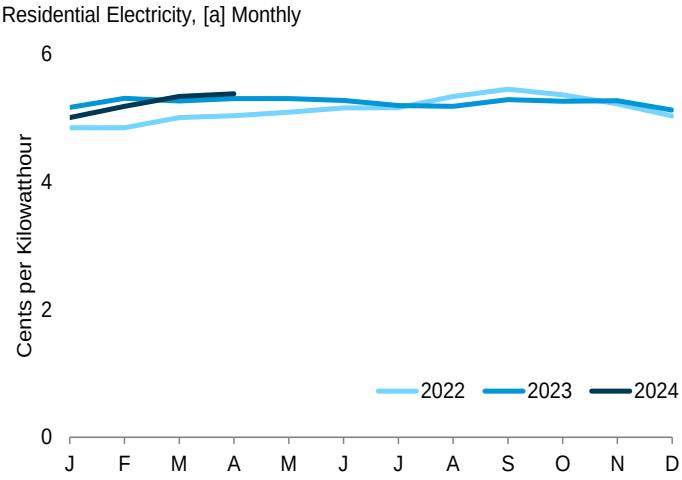
Web Page: See http://www.eia.gov/totalenergy/data/monthly/#summary (Excel and CSV files) for all available annual and monthly data beginning in 1974.

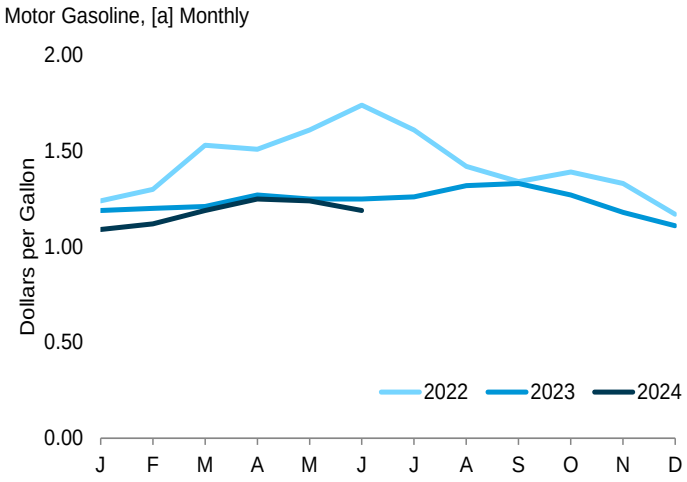
Sources: See end of section.

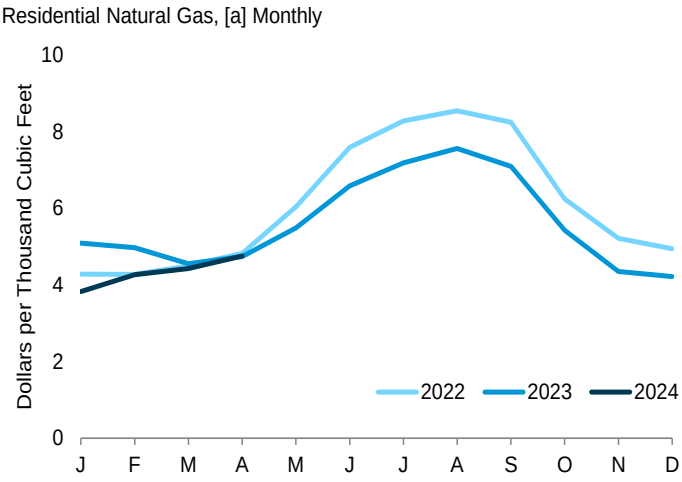
Figure 1.6 Cost of Fuels to End Users In Real (1982-1984) Dollars











[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**
2005 Average	**195.3**	**1.197**	**9.68**	**1.051**	**7.58**	**6.50**	**6.33**	**4.84**	**14.18**
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 Average	**251.107**	**1.113**	**9.25**	**NA**	**NA**	**4.18**	**4.03**	**5.13**	**15.02**
2019 Average	**255.657**	**1.055**	**8.77**	**NA**	**NA**	**4.11**	**3.95**	**5.09**	**14.91**
2020 Average	**258.811**	**0.866**	**7.20**	**NA**	**NA**	**4.17**	**4.01**	**5.08**	**14.89**
2020 Average	**270.970**	**1.156**	**9.62**	**NA**	**NA**	**4.50**	**4.33**	**5.04**	**14.77**
2021 January	281.148	1.245	10.36	NA	NA	4.28	4.13	4.85	14.22
February	283.716	1.295	10.78	NA	NA	4.28	4.12	4.85	14.21
March	287.504	1.531	12.73	NA	NA	4.50	4.34	5.01	14.69
April	289.109	1.511	12.57	NA	NA	4.83	4.66	5.04	14.77
May	292.296	1.606	13.36	NA	NA	6.05	5.82	5.09	14.93
June	296.311	1.738	14.46	NA	NA	7.59	7.32	5.16	15.13
July	296.276	1.609	13.39	NA	NA	8.29	7.98	5.17	15.15
August	296.171	1.420	11.81	NA	NA	8.56	8.24	5.34	15.66
September	296.808	1.344	11.18	NA	NA	8.25	7.95	5.45	15.99
October	298.012	1.386	11.53	NA	NA	6.25	6.02	5.37	15.73
November	297.711	1.329	11.06	NA	NA	5.22	5.03	5.22	15.31
December	296.797	1.165	9.69	NA	NA	4.95	4.77	5.03	14.75
Average	**292.655**	**1.432**	**11.92**	**NA**	**NA**	**5.04**	**4.86**	**5.14**	**15.06**
2023 January	299.170	1.188	9.88	NA	NA	5.10	4.91	5.17	15.16
February	300.840	1.204	10.02	NA	NA	4.98	4.80	5.31	15.57
March	301.836	1.213	10.09	NA	NA	4.56	4.39	5.27	15.45
April	303.363	1.265	10.53	NA	NA	4.75	4.57	5.31	15.55
May	304.127	1.248	10.38	NA	NA	5.49	5.29	5.31	15.56
June	305.109	1.252	10.42	NA	NA	6.59	6.35	5.28	15.48
July	305.691	1.257	10.45	NA	NA	7.19	6.93	5.20	15.23
August	307.026	1.324	11.01	NA	NA	7.57	7.29	5.19	15.21
September	307.789	1.334	11.10	NA	NA	7.10	6.84	5.29	15.51
October	307.671	1.271	10.57	NA	NA	5.43	5.23	5.27	15.43
November	307.051	1.180	9.82	NA	NA	4.35	4.19	5.27	15.45
December	306.746	1.112	9.25	NA	NA	4.22	4.06	5.13	15.03
Average	**304.702**	**1.238**	**10.29**	**NA**	**NA**	**5.00**	**4.82**	**5.24**	**15.37**
2023 January	308.417	1.087	9.04	NA	NA	3.83	3.69	5.01	14.68
February	310.326	1.123	9.34	NA	NA	4.27	4.11	5.19	15.21
March	312.332	1.187	9.87	NA	NA	4.43	4.27	5.34	15.65
April	313.548	1.246	10.37	NA	NA	R 4.76	R 4.59	R 5.38	R 15.78
May	314.069	1.237	10.29	NA	NA	NA	NA	NA	NA
June	314.175	1.187	9.87	NA	NA	NA	NA	NA	NA

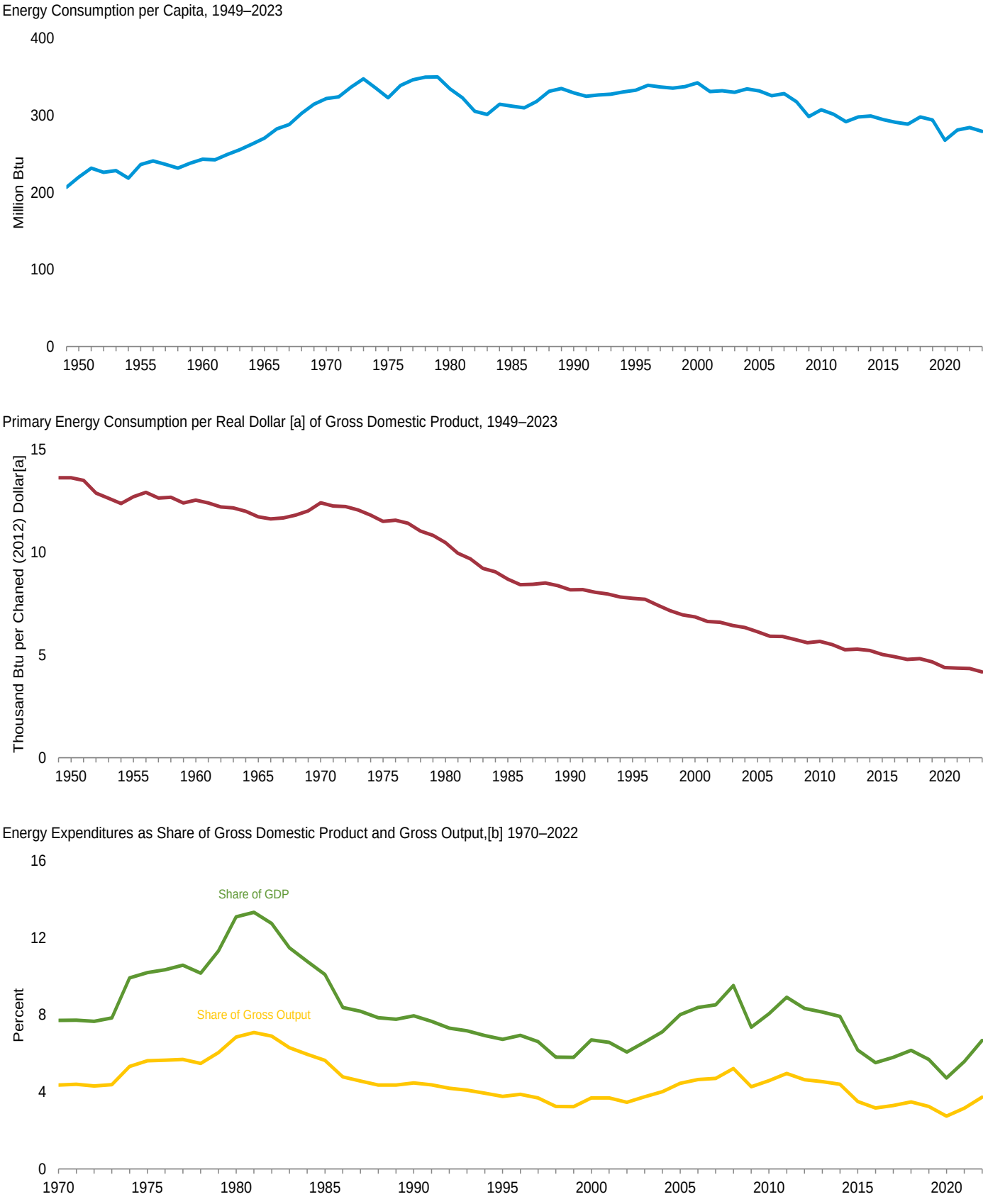
[a] Data are U.S. city averages for all items, and are not seasonally adjusted.
[b] Includes taxes.
[c] Excludes taxes.
R=Revised. NA=Not available.

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 *Monthy 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



[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 (2017) 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 (2017) Dollars[d]
1950	33.527	220	13.64	NA	NA	NA	NA	2,382	15.6	969
1955	39.215	236	12.72	NA	NA	NA	NA	2,685	16.2	871
1960	43.942	243	12.55	NA	NA	NA	NA	2,914	16.1	833
1965	52.565	271	11.74	NA	NA	NA	NA	3,462	17.8	773
1970	66.036	322	12.42	82,875	404	7.7	4.4	4,261	20.8	802
1975	69.788	323	11.51	171,854	796	10.2	5.6	4,428	20.5	731
1980	76.038	335	10.48	374,350	1,647	13.1	6.9	4,756	20.9	655
1981	74.159	323	9.97	427,901	1,865	13.3	7.1	4,637	20.2	623
1982	70.812	306	9.69	426,482	1,841	12.8	6.9	4,404	19.0	603
1983	70.489	302	9.22	417,622	1,786	11.5	6.3	4,384	18.8	574
1984	74.237	315	9.06	435,313	1,846	10.8	6.0	4,613	19.6	563
1985	74.268	312	8.70	438,343	1,842	10.1	5.6	4,605	19.4	539
1986	74.458	310	8.43	384,091	1,599	8.4	4.8	4,616	19.2	523
1987	77.161	318	8.44	397,627	1,641	8.2	4.6	4,776	19.7	523
1988	81.025	331	8.51	411,568	1,683	7.9	4.4	4,998	20.4	525
1989	82.711	335	8.38	439,051	1,779	7.8	4.4	5,085	20.6	515
1990	82.256	330	8.18	474,652	1,901	8.0	4.5	5,038	20.2	501
1991	82.214	325	8.19	472,440	1,867	7.7	4.4	4,991	19.7	497
1992	83.836	327	8.06	476,845	1,859	7.3	4.2	5,089	19.8	489
1993	85.191	328	7.97	492,275	1,894	7.2	4.1	5,182	19.9	485
1994	87.053	331	7.83	504,856	1,919	6.9	3.9	5,262	20.0	473
1995	88.668	333	7.77	514,624	1,933	6.7	3.8	5,324	20.0	467
1996	91.404	339	7.72	560,293	2,080	6.9	3.9	5,518	20.5	466
1997	91.956	337	7.43	567,962	2,083	6.6	3.7	5,589	20.5	452
1998	92.602	336	7.16	526,283	1,908	5.8	3.2	5,637	20.4	436
1999	94.232	338	6.96	558,627	2,002	5.8	3.2	5,700	20.4	421
2000	96.694	343	6.86	687,711	2,437	6.7	3.7	5,889	20.9	418
2001	94.416	331	6.63	696,242	2,443	6.6	3.7	5,778	20.3	406
2002	95.575	332	6.60	663,964	2,308	6.1	3.5	5,820	20.2	402
2003	95.806	330	6.44	755,070	2,603	6.6	3.7	5,887	20.3	396
2004	98.033	335	6.35	871,210	2,975	7.1	4.0	5,994	20.5	388
2005	98.101	332	6.14	1,045,730	3,539	8.0	4.4	6,007	20.3	376
2006	97.235	326	5.92	1,158,821	3,884	8.4	4.6	5,929	19.9	361
2007	98.965	329	5.90	1,233,869	4,096	8.5	4.7	6,016	20.0	359
2008	96.647	318	5.76	1,408,759	4,633	9.5	5.2	5,823	19.1	347
2009	91.626	299	5.60	1,066,528	3,477	7.4	4.3	5,404	17.6	331
2010	95.142	308	5.67	1,214,278	3,926	8.1	4.6	5,594	18.1	333
2011	93.966	302	5.51	1,392,469	4,469	8.9	5.0	5,455	17.5	320
2012	91.677	292	5.26	1,355,175	4,318	8.3	4.6	5,236	16.7	300
2013	94.253	298	5.29	1,376,403	4,356	8.2	4.5	5,359	17.0	301
2014	95.335	300	5.22	1,395,432	4,384	7.9	4.4	5,414	17.0	296
2015	94.484	295	5.03	1,128,449	3,519	6.2	3.5	5,262	16.4	280
2016	94.092	291	4.92	1,038,885	3,217	5.5	3.2	5,169	16.0	270
2017	93.902	289	4.79	1,136,316	3,497	5.8	3.3	5,132	15.8	262
2018	97.405	298	4.82	1,271,998	3,894	6.2	3.5	5,278	16.2	261
2019	96.603	294	4.67	1,223,875	3,729	5.7	3.2	5,147	15.7	249
2020	88.852	268	4.39	1,007,680	3,040	4.7	2.7	4,584	13.8	227
2021	93.363	281	4.36	1,316,978	3,966	5.6	3.2	4,906	14.8	229
2022	94.791	284	4.34	1,719,438	5,159	6.7	3.7	4,939	14.8	226
2023	93.583	279	4.18	NA	NA	NA	NA	4,793	14.3	214

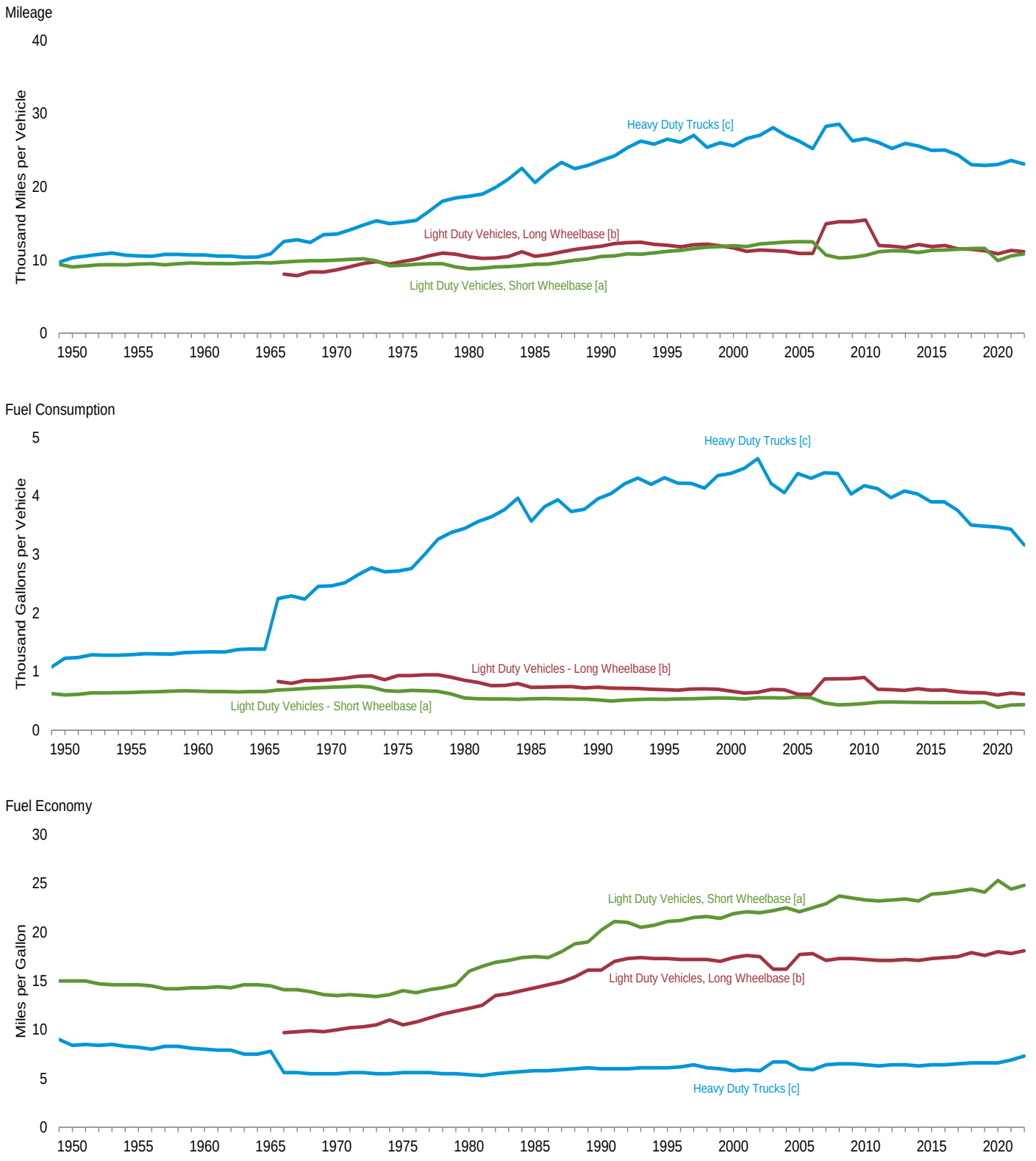
[a] See "Primary Energy Consumption" in Glossary.
[b] Expenditures include taxes where data are available.
[c] Carbon dioxide emissions from energy consumption. See Table 11.1.
[d] See "Chained Dollars" and "Real Dollars" in Glossary.
[e] See "Gross Domestic Product (GDP)" in Glossary.
[f] Gross output 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 (2017) dollars (see Table C1). • **Expenditures:** U.S. Energy Information Administration, "State Energy Price and Expenditure Estimates, 1970 Through 2021" (June 2023), 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 (2017) dollars (see Table C1).

Figure 1.8 Motor Vehicle Mileage, Fuel Consumption, and Fuel Economy, 1949-2022



[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
2019	11,599	481	24.1	11,263	640	17.6	22,930	3,488	6.6	11,797	651	18.1
2020	9,928	393	25.3	10,855	603	18.0	23,075	3,470	6.6	10,523	577	18.2
2021	10,573	433	24.4	11,318	636	17.8	23,601	3,436	6.9	11,099	617	18.0
2022	10,847	437	24.8	11,142	617	18.1	23,111	3,167	7.3	11,278	608	18.5

[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 Light-Duty Vehicle Average Miles Traveled by Technology Type

(Miles per Vehicle[a])

	Internal Combustion Engine Vehicles			Electric Vehicles	
	Motor Gasoline Vehicles[b]	Diesel Vehicles	Hybrid Electric Vehicles[c]	Battery Electric Vehicles[d]	Plug-in Hybrid Electric Vehicles[e]
2016	9,945	10,647	12,161	6,793	9,634
2017	10,070	10,218	12,037	6,057	9,300
2018	10,217	10,494	12,013	5,594	9,245
2019	9,893	9,792	11,507	6,060	8,855
2020	10,142	10,139	11,537	6,670	9,359
2021	9,893	10,265	10,757	6,569	8,668
2022	9,847	10,681	10,537	7,039	8,704

[a] See Note 2, "Light-Duty Vehicle Average Annual Miles Traveled by Technology Type," at end of section.

[b] Does not include hybrid electric vehicles.

[c] See "Hybrid Electric Vehicle (HEV)" in Glossary.

[d] See "Battery Electric Vehicle (BEV)" in Glossary.

[e] See "Plug-in Hybrid Electric Vehicle (PHEV)" in Glossary.

E=Estimate.

Note: • Data are for on-road vehicles less than or equal to 8,500 pounds (includes passenger cars and light trucks). • Data are derived from vehicle odometer reading data. • 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 2016.

Source: • Calculated by EIA using S&P Global Mobility Odometer data and Vehicles in Operation data, 2016–2022.

Table 1.10 Electric and Fuel Cell Electric Light-Duty Vehicles Overview

	Electric Light-Duty Vehicles			Fuel Cell Electric Vehicles[c]	All Light-Duty Vehicles[d]	Electric Vehicle Share of All Light-Duty Vehicles
	Battery Electric Vehicles[a]	Plug-In Hybrid Electric Vehicles[b]	Total			
	Thousands of Registered Vehicles					Percent
2012	29.7	64.7	94.4	0.1	231,872.8	(s)
2013	E 85.7	E 108.9	E 194.7	E 0.2	E 237,326.1	E 0.1
2014	127.4	158.8	286.2	0.1	240,796.6	0.1
2015	E 194.8	E 196.7	E 391.5	E 0.2	E 248,926.1	E 0.2
2016	272.6	239.0	511.7	1.1	251,219.0	0.2
2017	E 353.3	E 368.3	E 721.6	E 4.6	E 257,206.5	E 0.3
2018	573.0	491.2	1,064.2	5.9	259,182.4	0.4
2019	755.7	561.2	1,316.9	7.6	261,451.1	0.5
2020	973.5	613.0	1,586.5	8.2	259,976.0	0.6
2021	1,422.0	774.9	2,196.9	11.4	263,152.3	0.8
2022	2,115.6	936.9	3,052.5	13.9	263,764.2	1.2

[a] See "Battery Electric Vehicle (BEV)" in Glossary.
[b] See "Plug-In Hybrid Electric Vehicle (PHEV)" in Glossary.
[c] See "Fuel Cell Electric Vehicle (FCEV)" in Glossary.
[d] Includes internal combustion engine vehicles, electric vehicles, and fuel cell electric vehicles.

E=Estimate. (s)=Less than 0.05 percent.

Notes: • Data are at end of year. • Data are for on-road vehicles less than or equal to 8,500 pounds (includes passenger cars and light trucks). • Data for 2013, 2015, and 2017 are estimates. • The federal government and some states self-register their state-owned vehicles. These vehicles are not included in number of registered vehicles. • 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 2012.

Sources: • **Electric Light-Duty Vehicles, Fuel Cell Electric Vehicles, and All Light-Duty Vehicles:** S&P Global Mobility Vehicles in Operation, as of calendar year end figures for each of the years shown. Data for 2013, 2015, and 2017 are estimates interpolated by EIA. • **Electric Vehicle Share of All Light Duty-Vehicles (defined by EIA as less than or equal to 8,500 lbs):** Calculated as battery electric and plug-in hybrid electric light-duty vehicles divided by all light-duty vehicles by EIA.

Table 1.11 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	**6,793**	**6,313**	**7,028**	**7,461**	**3,495**	**3,552**	**2,280**	**6,320**	**3,910**	**5,362**
1955 Total	**6,872**	**6,220**	**6,488**	**6,918**	**3,487**	**3,517**	**2,295**	**6,686**	**4,324**	**5,242**
1960 Total	**6,826**	**6,376**	**6,909**	**7,191**	**3,764**	**4,139**	**2,767**	**6,264**	**3,806**	**5,400**
1965 Total	**7,027**	**6,379**	**6,588**	**6,938**	**3,358**	**3,505**	**2,238**	**6,067**	**3,825**	**5,143**
1970 Total	**7,022**	**6,376**	**6,721**	**7,094**	**3,437**	**3,827**	**2,561**	**6,098**	**3,731**	**5,214**
1975 Total	**6,545**	**5,881**	**6,407**	**6,886**	**2,953**	**3,441**	**2,311**	**6,237**	**4,120**	**4,900**
1980 Total	**7,071**	**6,463**	**6,976**	**6,840**	**3,361**	**3,969**	**2,495**	**5,534**	**3,544**	**5,075**
1985 Total	**6,750**	**5,957**	**6,668**	**7,269**	**2,892**	**3,663**	**2,537**	**6,040**	**3,939**	**4,886**
1990 Total	**5,988**	**5,240**	**5,779**	**6,141**	**2,301**	**2,947**	**1,967**	**5,370**	**3,610**	**4,178**
1995 Total	**6,686**	**6,079**	**6,741**	**6,916**	**2,984**	**3,653**	**2,148**	**5,079**	**3,274**	**4,637**
2000 Total	**6,624**	**5,986**	**6,317**	**6,504**	**2,902**	**3,555**	**2,152**	**4,952**	**3,464**	**4,491**
2005 Total	**6,645**	**5,938**	**6,224**	**6,218**	**2,773**	**3,384**	**1,985**	**4,873**	**3,383**	**4,346**
2010 Total	**5,935**	**5,539**	**6,188**	**6,570**	**3,163**	**3,954**	**2,450**	**5,060**	**3,628**	**4,461**
2011 Total	**6,113**	**5,471**	**6,173**	**6,569**	**2,564**	**3,347**	**2,113**	**5,304**	**3,823**	**4,312**
2012 Total	**5,563**	**4,960**	**5,356**	**5,520**	**2,304**	**2,880**	**1,648**	**4,560**	**3,418**	**3,771**
2013 Total	**6,425**	**5,827**	**6,623**	**7,140**	**2,736**	**3,651**	**2,325**	**5,262**	**3,367**	**4,470**
2014 Total	**6,676**	**6,190**	**7,196**	**7,308**	**2,961**	**3,935**	**2,421**	**4,737**	**2,777**	**4,558**
2015 Total	**6,520**	**5,762**	**6,165**	**6,093**	**2,497**	**3,224**	**2,085**	**4,595**	**2,902**	**4,094**
2016 Total	**5,928**	**5,339**	**5,701**	**5,791**	**2,464**	**3,095**	**1,750**	**4,617**	**3,035**	**3,887**
2017 Total	**6,037**	**5,318**	**5,684**	**6,003**	**2,239**	**2,837**	**1,580**	**4,571**	**3,190**	**3,838**
2018 Total	**6,323**	**5,769**	**6,434**	**6,974**	**2,638**	**3,479**	**2,252**	**4,808**	**3,172**	**4,291**
2019 Total	**6,538**	**5,736**	**6,427**	**7,082**	**2,392**	**3,181**	**2,143**	**5,309**	**3,547**	**4,317**
2020 Total	**5,822**	**5,199**	**5,855**	**6,326**	**2,263**	**3,064**	**1,812**	**4,784**	**3,219**	**3,914**
2021 Total	**5,799**	**5,262**	**5,747**	**6,061**	**2,366**	**3,166**	**1,911**	**4,694**	**3,338**	**3,934**
2022 January	1,303	1,242	1,391	1,442	644	847	578	888	549	914
February	994	933	1,084	1,194	412	591	498	806	478	712
March	841	758	791	847	286	388	263	608	401	525
April	544	495	567	578	156	217	52	422	337	342
May	187	146	159	185	31	32	4	240	213	122
June	53	27	26	30	1	1	0	69	56	26
July	3	2	3	9	0	0	0	7	10	4
August	3	3	14	18	0	0	0	11	8	6
September	108	67	82	84	13	23	2	66	31	44
October	386	393	425	405	177	240	66	311	140	258
November	614	588	695	825	267	429	298	770	516	511
December	983	980	1,105	1,289	536	671	439	926	627	781
Total	**6,019**	**5,636**	**6,344**	**6,905**	**2,523**	**3,438**	**2,200**	**5,125**	**3,366**	**4,245**
2023 January	924	845	R 998	R 1,184	450	R 577	R 403	R 963	632	R 716
February	938	R 814	R 881	R 1,031	R 308	R 414	R 330	826	592	621
March	R 849	R 795	849	956	R 303	397	R 200	773	R 609	586
April	466	367	441	R 489	R 116	188	86	R 446	353	297
May	281	R 242	215	146	65	R 62	6	182	R 194	R 145
June	66	R 44	43	23	9	R 7	0	101	R 106	R 43
July	1	1	7	17	0	0	0	11	11	5
August	24	13	21	17	0	0	0	19	10	10
September	64	R 57	68	59	R 10	13	1	R 97	R 77	46
October	R 285	R 273	338	R 362	110	R 146	47	R 316	R 172	R 206
November	R 788	R 714	R 736	747	R 326	416	R 255	R 573	R 386	505
December	R 853	R 788	825	903	454	598	R 393	R 768	R 484	625
Total	**R 5,538**	**R 4,952**	**R 5,422**	**R 5,934**	**R 2,151**	**R 2,817**	**R 1,721**	**R 5,073**	**R 3,627**	**R 3,804**
2024 January	R 1,088	R 1,019	1,191	R 1,341	R 576	R 853	635	R 916	R 580	841
February	911	R 830	R 775	R 761	405	449	R 255	R 670	R 503	R 575
March	R 763	R 669	689	R 739	271	R 358	R 185	R 634	R 496	R 490
April	540	428	393	399	112	138	46	387	350	281
4-Month Total	**3,302**	**2,946**	**3,048**	**3,240**	**1,364**	**1,798**	**1,122**	**2,608**	**1,929**	**2,186**
2023 4-Month Total	**3,177**	**2,821**	**3,169**	**3,660**	**1,177**	**1,576**	**1,019**	**3,007**	**2,185**	**2,219**
2022 4-Month Total	**3,682**	**3,428**	**3,834**	**4,061**	**1,499**	**2,042**	**1,391**	**2,724**	**1,765**	**2,493**

[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 1.12 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	**296**	**403**	**506**	**646**	**1,427**	**1,419**	**2,279**	**689**	**628**	**873**
1955 Total	**531**	**764**	**921**	**1,139**	**1,645**	**1,672**	**2,505**	**787**	**557**	**1,145**
1960 Total	**318**	**488**	**626**	**870**	**1,597**	**1,529**	**2,366**	**983**	**794**	**1,002**
1965 Total	**311**	**502**	**617**	**831**	**1,624**	**1,550**	**2,461**	**788**	**575**	**981**
1970 Total	**423**	**619**	**746**	**979**	**1,758**	**1,569**	**2,281**	**981**	**732**	**1,082**
1975 Total	**423**	**586**	**720**	**937**	**1,802**	**1,439**	**2,162**	**913**	**597**	**1,052**
1980 Total	**439**	**683**	**768**	**1,158**	**1,923**	**1,751**	**2,652**	**1,083**	**651**	**1,216**
1985 Total	**324**	**513**	**602**	**780**	**1,882**	**1,519**	**2,519**	**1,107**	**758**	**1,122**
1990 Total	**428**	**566**	**602**	**912**	**2,058**	**1,560**	**2,527**	**1,224**	**833**	**1,201**
1995 Total	**472**	**705**	**878**	**928**	**2,030**	**1,611**	**2,398**	**1,226**	**791**	**1,262**
2000 Total	**279**	**460**	**630**	**983**	**1,925**	**1,672**	**2,773**	**1,494**	**771**	**1,233**
2005 Total	**599**	**895**	**944**	**1,063**	**2,100**	**1,674**	**2,645**	**1,386**	**777**	**1,390**
2010 Total	**634**	**913**	**963**	**1,095**	**2,271**	**1,974**	**2,754**	**1,370**	**674**	**1,457**
2011 Total	**553**	**840**	**858**	**1,074**	**2,260**	**1,725**	**3,112**	**1,462**	**734**	**1,470**
2012 Total	**563**	**819**	**974**	**1,221**	**2,163**	**1,760**	**2,913**	**1,582**	**917**	**1,494**
2013 Total	**540**	**685**	**689**	**892**	**2,001**	**1,438**	**2,535**	**1,471**	**889**	**1,305**
2014 Total	**420**	**600**	**609**	**812**	**2,001**	**1,491**	**2,474**	**1,439**	**1,068**	**1,296**
2015 Total	**556**	**809**	**729**	**941**	**2,397**	**1,717**	**2,742**	**1,485**	**1,067**	**1,485**
2016 Total	**625**	**891**	**957**	**1,072**	**2,405**	**1,956**	**2,882**	**1,502**	**929**	**1,554**
2017 Total	**451**	**665**	**708**	**910**	**2,247**	**1,585**	**2,718**	**1,550**	**1,056**	**1,423**
2018 Total	**668**	**890**	**972**	**1,134**	**2,411**	**1,928**	**2,855**	**1,574**	**1,004**	**1,579**
2019 Total	**536**	**787**	**832**	**951**	**2,504**	**1,885**	**2,759**	**1,398**	**845**	**1,496**
2020 Total	**645**	**848**	**831**	**964**	**2,335**	**1,636**	**2,735**	**1,683**	**1,071**	**1,519**
2021 Total	**604**	**837**	**911**	**1,093**	**2,226**	**1,611**	**2,644**	**1,583**	**1,040**	**1,492**
2022 January	0	0	0	0	28	3	9	0	9	8
February	0	0	0	0	45	3	5	2	7	11
March	0	0	1	3	84	22	41	13	14	27
April	0	0	0	2	98	25	158	52	23	49
May	18	40	79	72	240	206	386	127	42	147
June	63	114	177	232	376	367	554	290	146	270
July	260	311	264	338	482	480	682	431	247	394
August	273	302	219	276	440	385	583	358	297	359
September	33	72	74	121	278	200	404	245	222	202
October	0	1	2	7	106	29	131	67	59	55
November	0	0	0	0	88	5	26	1	11	23
December	0	0	0	0	37	3	13	0	9	11
Total	**647**	**838**	**816**	**1,050**	**2,302**	**1,728**	**2,992**	**1,586**	**1,088**	**1,556**
2023 January	0	0	0	0	49	19	35	0	8	17
February	0	0	0	0	69	17	27	0	8	20
March	0	0	0	1	R 82	27	R 87	3	10	R 31
April	0	0	1	5	R 117	29	93	R 41	18	R 44
May	4	12	49	89	174	142	291	R 117	R 34	109
June	50	R 79	131	R 225	293	R 271	R 514	193	R 59	R 210
July	275	R 310	247	282	R 487	R 430	R 646	R 462	R 279	390
August	134	R 193	188	R 279	R 461	R 418	R 710	R 363	R 242	349
September	R 60	R 82	88	146	R 289	248	508	R 204	R 91	R 203
October	5	10	10	14	137	R 65	R 171	85	R 56	73
November	0	0	0	0	R 65	4	28	13	14	20
December	0	0	0	0	R 38	3	R 15	0	8	11
Total	**R 529**	**R 687**	**713**	**R 1,040**	**R 2,261**	**R 1,675**	**R 3,125**	**R 1,482**	**R 826**	**R 1,476**
2024 January	0	0	0	0	35	2	8	0	7	9
February	0	0	0	4	29	10	R 37	2	6	13
March	0	0	R 2	7	R 83	R 27	R 80	7	8	31
April	0	0	3	10	88	46	152	36	14	46
4-Month Total	**0**	**0**	**6**	**21**	**236**	**86**	**277**	**45**	**35**	**99**
2023 4-Month Total	**0**	**0**	**1**	**6**	**317**	**93**	**242**	**44**	**44**	**111**
2022 4-Month Total	**0**	**0**	**1**	**5**	**254**	**53**	**213**	**67**	**54**	**95**

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

Notes: • Degree days are relative measurements of outdoor air temperature used as an index for heating and cooling energy requirements. Cooling degree days are the number of degrees that the daily average temperature rises above 65 degrees Fahrenheit (°F). Heating degree days are the number of degrees that the daily average temperature falls below 65°F. The daily average temperature is the mean of the maximum and minimum temperatures in a 24-hour period. For example, if a weather station recorded an average daily temperature of 78°F, cooling degree days for that station would be 13 (and 0 heating degree days). A weather station recording an average daily temperature of 40°F would report 25 heating degree days for that day (and 0 cooling degree days). • Totals may not equal sum of components due to independent rounding. • Geographic coverage is the 50 states and the District of Columbia.

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

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 1.13a Non-Combustion Use of Fossil Fuels in Physical Units

	Coal	Natural Gas	Petroleum							
			Asphalt and Road Oil	Hydrocarbon Gas Liquids[a]	Lubricants	Petro-chemical Feedstocks[b]	Petroleum Coke	Special Naphthas	Other[c]	Total
	Thousand Short Tons	Billion Cubic Feet	Thousand Barrels per Day							
1973 Total	**3,523**	**898**	**522**	**684**	**162**	**356**	**45**	**88**	**88**	**1,945**
1975 Total	**3,105**	**761**	**419**	**654**	**137**	**320**	**43**	**75**	**122**	**1,770**
1980 Total	**2,612**	**759**	**396**	**890**	**159**	**692**	**41**	**100**	**143**	**2,422**
1985 Total	**1,536**	**642**	**425**	**982**	**145**	**395**	**46**	**83**	**95**	**2,173**
1990 Total	**758**	**675**	**483**	**1,071**	**164**	**546**	**57**	**56**	**85**	**2,462**
1995 Total	**921**	**868**	**486**	**1,357**	**156**	**590**	**58**	**37**	**70**	**2,754**
2000 Total	**674**	**918**	**525**	**1,543**	**166**	**662**	**78**	**51**	**78**	**3,103**
2005 Total	**929**	**761**	**546**	**1,369**	**141**	**729**	**106**	**33**	**75**	**2,997**
2010 Total	**719**	**654**	**362**	**1,597**	**131**	**539**	**42**	**14**	**89**	**2,773**
2011 Total	**730**	**680**	**355**	**1,639**	**125**	**520**	**40**	**12**	**91**	**2,781**
2012 Total	**707**	**706**	**340**	**1,747**	**114**	**444**	**43**	**8**	**88**	**2,785**
2013 Total	**732**	**721**	**323**	**1,870**	**121**	**448**	**40**	**52**	**93**	**2,948**
2014 Total	**562**	**725**	**327**	**1,780**	**126**	**410**	**20**	**55**	**97**	**2,817**
2015 Total	**520**	**703**	**343**	**1,918**	**138**	**378**	**21**	**52**	**99**	**2,948**
2016 Total	**435**	**727**	**351**	**1,943**	**130**	**371**	**20**	**49**	**100**	**2,966**
2017 Total	**463**	**746**	**351**	**2,023**	**121**	**394**	**19**	**52**	**103**	**3,062**
2018 Total	**531**	**1,118**	**327**	**2,309**	**117**	**393**	**22**	**48**	**103**	**3,320**
2019 Total	**520**	**1,114**	**348**	**2,342**	**113**	**349**	**21**	**50**	**94**	**3,318**
2020 Total	**418**	**1,051**	**343**	**2,479**	**102**	**329**	**17**	**45**	**88**	**3,403**
2021 Total	**509**	**1,074**	**371**	**2,652**	**105**	**336**	**18**	**42**	**90**	**3,615**
2022 January	41	108	243	2,849	125	237	16	41	98	3,610
February	38	95	264	2,696	114	203	15	49	107	3,448
March	41	99	272	2,790	139	249	17	53	95	3,614
April	38	92	335	2,657	123	267	16	45	94	3,537
May	39	88	401	2,596	112	276	13	37	91	3,526
June	37	83	493	2,837	93	236	15	48	103	3,825
July	39	84	465	2,941	46	266	27	51	99	3,895
August	39	85	510	2,597	134	252	20	69	98	3,681
September	37	83	472	2,682	99	233	18	52	99	3,655
October	40	89	453	2,636	130	252	12	45	92	3,620
November	37	94	369	2,606	107	228	21	34	94	3,460
December	38	99	256	2,341	105	243	14	34	93	3,085
Total	**464**	**1,100**	**378**	**2,685**	**111**	**246**	**17**	**47**	**97**	**3,580**
2023 January	39	99	231	R 2,516	117	268	8	47	85	R 3,272
February	37	92	239	2,497	112	221	16	36	94	3,215
March	41	98	258	2,523	57	220	22	48	95	3,224
April	37	92	328	2,741	84	302	23	48	88	3,614
May	38	88	406	2,895	97	294	16	39	89	3,837
June	37	83	472	R 2,962	95	228	13	45	92	R 3,907
July	39	85	461	2,989	94	258	8	55	99	3,964
August	39	88	512	2,762	74	240	22	44	91	3,744
September	38	84	476	2,733	81	226	28	45	101	3,690
October	37	91	451	2,914	94	225	18	58	89	3,848
November	40	96	331	R 2,979	55	259	33	52	89	3,797
December	38	102	253	3,190	37	241	10	43	90	3,864
Total	**459**	**1,097**	**369**	**2,811**	**83**	**249**	**18**	**47**	**92**	**3,667**
2024 January	R 37	103	229	2,821	85	229	15	47	89	3,514
February	R 37	93	226	R 2,983	74	279	9	46	75	R 3,692
March	R 38	97	262	R 2,868	76	275	9	44	89	R 3,623
April	38	89	299	2,780	111	199	27	47	89	3,552
4-Month Total	**150**	**381**	**254**	**2,862**	**86**	**245**	**15**	**46**	**85**	**3,594**
2022 4-Month Total	**153**	**381**	**264**	**2,570**	**92**	**253**	**17**	**45**	**90**	**3,332**
2021 4-Month Total	**158**	**394**	**279**	**2,750**	**125**	**240**	**16**	**47**	**98**	**3,555**

[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 3, "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 3, "Non-Combustion Use of Fossil Fuels," at end of section.

Table 1.13b 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	Hydrocarbon Gas Liquids[a]	Lubricants	Petrochemical Feedstocks[b]	Petroleum Coke	Special Naphthas	Other[c]	Total		
1973 Total	**0.113**	**0.916**	**1.264**	**0.872**	**0.359**	**0.726**	**0.093**	**0.169**	**0.185**	**3.668**	**4.696**	**6.4**
1975 Total	**.099**	**.777**	**1.014**	**.822**	**.304**	**.652**	**.090**	**.144**	**.256**	**3.283**	**4.159**	**6.0**
1980 Total	**.084**	**.777**	**.962**	**1.128**	**.354**	**1.426**	**.086**	**.193**	**.303**	**4.451**	**5.312**	**7.0**
1985 Total	**.049**	**.662**	**1.029**	**1.194**	**.322**	**.817**	**.096**	**.159**	**.201**	**3.818**	**4.529**	**6.1**
1990 Total	**.024**	**.695**	**1.170**	**1.345**	**.362**	**1.123**	**.119**	**.107**	**.179**	**4.406**	**5.125**	**6.2**
1995 Total	**.029**	**.892**	**1.178**	**1.716**	**.346**	**1.214**	**.120**	**.071**	**.145**	**4.790**	**5.711**	**6.4**
2000 Total	**.022**	**.942**	**1.276**	**1.928**	**.369**	**1.344**	**.163**	**.097**	**.164**	**5.342**	**6.306**	**6.5**
2005 Total	**.030**	**.782**	**1.323**	**1.701**	**.312**	**1.474**	**.221**	**.063**	**.157**	**5.250**	**6.062**	**6.2**
2010 Total	**.023**	**.669**	**.878**	**1.931**	**.291**	**1.096**	**.087**	**.026**	**.188**	**4.496**	**5.187**	**5.5**
2011 Total	**.023**	**.695**	**.859**	**1.947**	**.276**	**1.057**	**.083**	**.023**	**.193**	**4.437**	**5.156**	**5.5**
2012 Total	**.023**	**.724**	**.827**	**2.109**	**.254**	**.901**	**.090**	**.015**	**.187**	**4.382**	**5.128**	**5.6**
2013 Total	**.023**	**.741**	**.783**	**2.270**	**.268**	**.901**	**.083**	**.100**	**.197**	**4.601**	**5.366**	**5.7**
2014 Total	**.018**	**.749**	**.793**	**2.125**	**.280**	**.827**	**.043**	**.106**	**.205**	**4.379**	**5.146**	**5.4**
2015 Total	**.017**	**.730**	**.832**	**2.317**	**.305**	**.760**	**.043**	**.099**	**.208**	**4.564**	**5.310**	**5.6**
2016 Total	**.014**	**.755**	**.853**	**2.330**	**.289**	**.754**	**.043**	**.094**	**.212**	**4.575**	**5.344**	**5.7**
2017 Total	**.015**	**.774**	**.849**	**2.393**	**.267**	**.797**	**.040**	**.100**	**.217**	**4.663**	**5.452**	**5.8**
2018 Total	**.017**	**1.160**	**.793**	**2.708**	**.259**	**.794**	**.046**	**.092**	**.218**	**4.910**	**6.087**	**6.2**
2019 Total	**.017**	**1.159**	**.844**	**2.746**	**.250**	**.704**	**.044**	**.096**	**.198**	**4.882**	**6.057**	**6.3**
2020 Total	**.013**	**1.092**	**.832**	**2.870**	**.227**	**.669**	**.036**	**.087**	**.186**	**4.908**	**6.013**	**6.8**
2021 Total	**.016**	**1.116**	**.898**	**3.084**	**.233**	**.684**	**.038**	**.081**	**.190**	**5.208**	**6.340**	**6.8**
2022 January	.001	.112	.050	.270	.024	.041	.003	.007	.017	.411	.524	5.8
February	.001	.099	.049	.230	.019	.031	.002	.007	.017	.357	.457	5.7
March	.001	.103	.056	.266	.026	.043	.003	.009	.017	.420	.524	6.5
April	.001	.095	.067	.243	.022	.045	.003	.007	.016	.403	.499	6.9
May	.001	.091	.083	.246	.021	.048	.002	.006	.016	.422	.515	6.9
June	.001	.087	.098	.262	.017	.040	.003	.008	.018	.445	.533	7.0
July	.001	.087	.096	.282	.009	.046	.005	.008	.018	.463	.551	6.8
August	.001	.088	.105	.252	.025	.044	.003	.011	.018	.459	.548	6.8
September	.001	.086	.094	.250	.018	.039	.003	.008	.017	.429	.517	7.0
October	.001	.092	.093	.250	.024	.044	.002	.007	.016	.438	.531	7.2
November	.001	.098	.073	.240	.020	.038	.004	.005	.016	.396	.496	6.4
December	.001	.103	.053	.220	.020	.042	.003	.005	.017	.359	.463	5.4
Total	**.015**	**1.141**	**.916**	**3.011**	**.245**	**.501**	**.035**	**.089**	**.204**	**5.002**	**6.158**	**6.5**
2023 January	.001	.103	.048	.238	.022	.046	.001	.008	.015	R.378	.483	5.7
February	.001	.095	.044	.209	.019	.035	.003	.005	.015	.330	.426	5.6
March	.001	.102	.053	.236	.011	.038	.004	.008	.017	.367	.470	5.8
April	.001	.096	.065	.250	.015	.051	.004	.008	.015	.408	.505	7.0
May	.001	.091	.084	.274	.018	.051	.003	.006	.016	.452	.545	7.4
June	.001	.086	.094	.275	.017	.038	.002	.007	.016	R.450	.537	7.2
July	.001	.088	.095	.287	.018	.045	.001	.009	.018	.473	.562	6.9
August	.001	.091	.105	.265	.014	.042	.004	.007	.016	.454	.546	6.6
September	.001	.088	.095	.254	.015	.037	.005	.007	.018	.430	.519	7.0
October	.001	.095	.093	.281	.018	.039	.003	.009	.016	.459	.555	7.3
November	.001	R.099	.066	.279	.010	.043	.006	.008	.015	.427	R.527	6.7
December	.001	.106	.052	.302	.007	.041	.002	.007	.016	.427	.534	6.4
Total	**.015**	**1.139**	**.893**	**3.151**	**.184**	**.506**	**.038**	**.089**	**.194**	**5.055**	**6.209**	**6.6**
2024 January	.001	.107	.047	.269	.016	.039	.003	.008	.016	.397	.505	5.6
February	.001	.096	.044	.262	.013	.045	.002	.007	.013	.384	.482	6.2
March	.001	R.101	.054	R.271	.014	.048	.002	.007	.016	.412	.514	6.7
April	.001	.093	.060	.253	.020	.033	.005	.007	.015	.394	.488	6.8
4-Month Total	**.005**	**.396**	**.204**	**1.055**	**.063**	**.165**	**.011**	**.029**	**.060**	**1.587**	**1.988**	**6.3**
2022 4-Month Total	**.005**	**.396**	**.210**	**.933**	**.067**	**.170**	**.012**	**.028**	**.063**	**1.484**	**1.884**	**6.0**
2021 4-Month Total	**.005**	**.409**	**.222**	**1.009**	**.091**	**.160**	**.011**	**.030**	**.068**	**1.591**	**2.005**	**6.2**

[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.

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 3, "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 3, "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. Light-Duty Vehicle Average Annual Miles Traveled by Technology Type. The average annual light-duty vehicle miles traveled (VMT) by technology type is a stock-weighted estimate using the average VMT by vintage and the number of vehicles (stock) by vintage to determine the overall average VMT by technology type. The top-level model is defined as:

$$avg\ VMT_{tech} = \frac{\sum_{vint=1}^{25} VMT_{vint,tech} * stock_{vint,tech}}{\sum_{vint=1}^{25} stock_{vint,tech}}$$

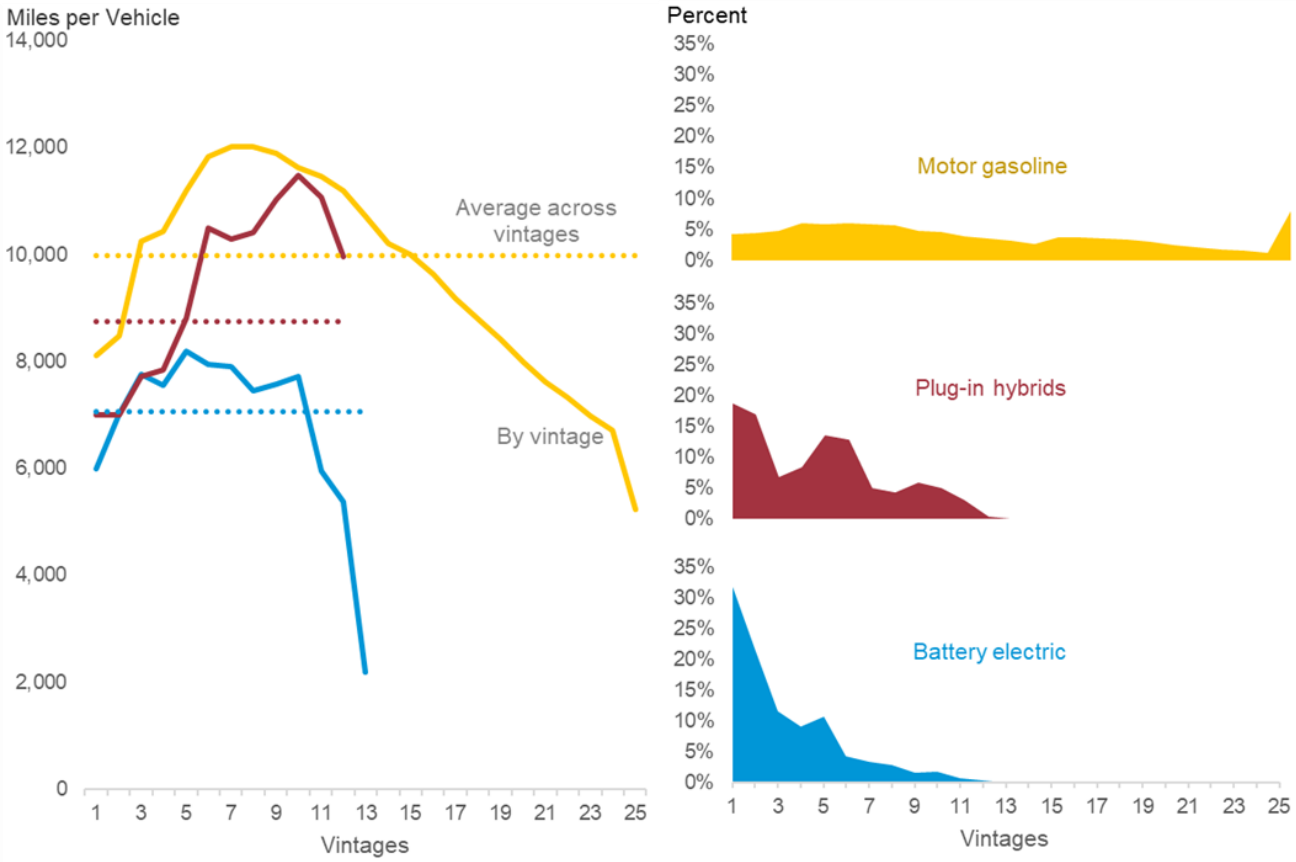
where $avg\ VMT_{tech}$ is the average annual VMT by technology type; $VMT_{vint,tech}$ is the average annual VMT by vintage and technology type; $stock_{vint,tech}$ is the total number of on-road light-duty vehicles by vintage and technology type; $vint$ is the vintage of the vehicle, ranging from 1 to 25 years; and $tech$ is the vehicle technology type—motor gasoline vehicles, diesel vehicles, hybrid electric vehicles, battery electric vehicles (BEV), or plug-in hybrid electric vehicles (PHEV). The vintage of the vehicle relates the model year of the vehicle with the year being analyzed. For example, a model year 2024 vehicle in 2024 would have a vintage equal to one and a model year 2020 vehicle in 2024 would have a vintage equal to five. The maximum vintage EIA uses is 25, resulting in all vehicles 25 years or older be grouped in vintage 25, so a model year 1990 vehicle in 2024 would have a vintage equal to 25.

In general, newer vehicles are driven more than older vehicles. However, the average annual VMT for vintage one vehicles is typically the lowest newer vintage VMT because many of these vehicles are not owned for an entire year resulting in a lower average annual VMT for the first model year. The average annual VMT increases for the first few vintages until it reaches the highest VMT by vintage, which occurs around seven years old. After the highest VMT by vintage is reached, the average annual VMT decreases as the vintage increases.

While the general pattern for travel by vintage is relatively consistent across technology types, the distribution of the stock by vintage is not consistent across technology types. For example, in 2022, nearly half of the motor gasoline vehicles were over 10 years old while only 3% of PHEVs and 1% of BEVs were over 10 years old. This implies that the average annual VMT for motor gasoline vehicles is more impacted by older vehicles than the average annual VMT for BEVs and PHEVs. If the average annual VMT were calculated for 2022 using the first 10 vintages instead of all 25 vintages, the average annual VMT would increase by almost 11% for motor gasoline vehicles and change by less than 1% for BEVs and PHEVs. When all vintages are included in the average annual VMT, the difference between motor gasoline vehicles and BEV VMT is almost 3,000 miles per year in 2022. However, when only the first 10 years are included in the average annual VMT calculation the difference increases to almost 4,000 miles per year. Similarly, the average annual VMT difference between motor gasoline vehicles and PHEVs increases in 2022 from over 1,000 miles per year when all 25 vintages are included to over 2,000 miles per year when only the first 10 vintages are included.

Comparing the average annual VMT calculated using the first 10 vintages shows that BEVs and PHEVs have further to go to reach annual average VMT parity with motor gasoline vehicles than what is implied using all 25 vintages. When year-over-year growth in BEV and PHEV registrations slows down, their stock by vintage distribution will more closely resemble that of the motor gasoline stock by vintage distribution, the more consistent comparison can be made using all 25 vintages. However, if high growth in new vehicle registrations continues for BEVs and PHEVs resulting in the vast majority of electric vehicles (EVs) being less than or equal to 10 years old, then a more consistent comparison can be made using a subset of vintages.

Figure 1.9 Annual Average Vehicle Miles Traveled and Vehicle Stock Distribution by Vintage for Select Technology Types, 2022



Source: U.S. Energy Information Administration, *AEO2023 National Energy Modeling System, run REF2023.020623A*.

Note 3. 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 1.12b, coal tar values in Table 1.12a 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 1.12b, natural gas values in Table 1.12a 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 1.12b, asphalt and road oil values in Table 1.12a 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 1.12b, distillate fuel oil values in Table 1.12a 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 1.12b, 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 1.12b, lubricants values in Table 1.12a 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 1.12b, naphtha petrochemical feedstock values in 1.12a 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 1.12b, other oils petrochemical feedstock values in 1.12a 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 1.12b, still gas for petrochemical feedstock values in 1.12a 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 first subtracting data for petroleum coke consumed at refineries (from EIA, Form EIA-820, “Annual Refinery Report”) from industrial sector petroleum coke consumption (from MER Table 3.7b), and then multiplying that amount by the nonfuel share of non-refinery petroleum coke consumption (from MECS). Non-combustion ratios prior to 1994 are assumed to be equal to the 1994 ratio. For Table 1.12b, petroleum coke values in 1.12a 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 1.12b, residual fuel oil values in Table 1.12a 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 1.12b, special naphthas values in Table 1.12a 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 1.12b, waxes values in Table 1.12a 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 1.12b, miscellaneous petroleum products values in Table 1.12a 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 renewable diesel fuel and other biofuels refinery and blender net inputs, calculated using “other renewable diesel fuel” and “other renewable fuels” data from EIA-810, “Monthly Refinery Report,” and EIA-815, “Monthly Bulk Terminal and Blender Report” (the data are converted to Btu by multiplying by the heat content factors for renewable diesel fuel and other biofuels in Table A1).

2012–2020: 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 10.4a; minus renewable diesel fuel and other biofuels refinery and blender net inputs, calculated using "other renewable diesel fuel" and "other renewable fuels" data from EIA-810, "Monthly Refinery Report," and EIA-815, "Monthly Bulk Terminal and Blender Report" (the data are converted to Btu by multiplying by the heat content factors for renewable diesel fuel and other biofuels in Table A1).

2021 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, renewable diesel fuel, and other biofuels refinery and blender net inputs and products supplied calculated using "biofuels except fuel ethanol" refinery and blender net inputs and products supplied from U.S. Energy Information Administration (EIA), *Petroleum Supply Annual* and *Petroleum Supply Monthly* (data are converted to Btu by multiplying by the appropriate heat content factors in Table A1).

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).

2009–2011: Biomass-based diesel fuel 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 (the data are converted to Btu by multiplying by the biodiesel 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 biomass-based diesel fuel imports.

2012–2020: 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 biodiesel imports (see "Biomass—Biodiesel") minus renewable diesel fuel imports (see "Biomass—Renewable Diesel Fuel").

2021 forward: 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 biodiesel imports (see "Biomass—Biodiesel") minus renewable diesel fuel imports (see "Biomass—Renewable Diesel Fuel") minus other biofuels imports (see "Biomass—Other Biofuels").

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 10.4a, and are converted to Btu by multiplying by the biodiesel heat content factor in Table A1.

Biomass—Renewable Diesel Fuel

2012 forward: Renewable diesel fuel imports data are from Table 10.4b, and are converted to Btu by multiplying by the renewable diesel fuel heat content factor in Table A1.

Biomass—Other Biofuels

2021 forward: Other biofuels imports data are from Table 10.4c, and are converted to Btu by multiplying by the other biofuels heat content factor in Table A1.

Total Biomass

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

2001–2011: Total biomass imports are equal to fuel ethanol (minus denaturant) imports plus biodiesel imports.

2012–2020: Total biomass imports are the sum of imports values for fuel ethanol (minus denaturant), biodiesel, and renewable diesel fuel.

2021 forward: Total biomass imports are the sum of imports values for fuel ethanol (minus denaturant), biodiesel, renewable diesel fuel, and other biofuels.

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).

2011–2018: Biomass-based diesel fuel exports data are from U.S. Energy Information Administration (EIA), Petroleum Supply Annual (PSA), Table 31, 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.

2019 forward: Biodiesel exports data are from EIA, 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 biodiesel 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 10.4a, 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.

1993–2019: "U.S. International Trade in Goods and Services," annual revisions.

2020–2022: "U.S. International Trade in Goods and Services," 2022 annual revisions.

2023: "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.

1994–2019: "U.S. International Trade in Goods and Services," annual revisions.

2020–2022: "U.S. International Trade in Goods and Services," 2022 annual revisions.

2023: “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.

1993–2019: “U.S. International Trade in Goods and Services,” annual revisions.

2020–2022: “U.S. International Trade in Goods and Services,” 2022 annual revisions.

2023: “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.

1992–2019: “U.S. International Trade in Goods and Services,” annual revisions.

2020–2022: “U.S. International Trade in Goods and Services,” 2022 annual revisions.

2023: “U.S. International Trade in Goods and Services,” FT-900, monthly.

THIS PAGE INTENTIONALLY LEFT BLANK