

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

	Primary Energy Consumption <sup>a</sup>			Energy Expenditures <sup>b</sup>				Carbon Dioxide Emissions <sup>c</sup>		
	Consumption	Consumption per Capita	Consumption per Real Dollar <sup>d</sup> of GDP <sup>e</sup>	Expenditures	Expenditures per Capita	Expenditures as Share of GDP <sup>e</sup>	Expenditures as Share of Gross Output <sup>f</sup>	Emissions	Emissions per Capita	Emissions per Real Dollar <sup>d</sup> of GDP <sup>e</sup>
	Quadrillion Btu	Million Btu	Thousand Btu per Chained (2009) Dollar <sup>d</sup>	Million Nominal Dollars <sup>g</sup>	Nominal Dollars <sup>g</sup>	Percent	Percent	Million Metric Tons Carbon Dioxide	Metric Tons Carbon Dioxide	Metric Tons Carbon Dioxide per Million Chained (2009) Dollars <sup>d</sup>
1950 .....	34.616	227	15.85	NA	NA	NA	NA	2,382	15.6	1,091
1955 .....	40.208	242	14.68	NA	NA	NA	NA	2,685	16.2	980
1960 .....	45.086	250	14.50	NA	NA	NA	NA	2,914	16.1	937
1965 .....	54.015	278	13.58	NA	NA	NA	NA	3,462	17.8	871
1970 .....	67.838	331	14.37	82,875	404	7.7	NA	4,261	20.8	902
1975 .....	71.965	333	13.36	171,851	796	10.2	NA	4,439	20.6	824
1980 .....	78.067	344	12.10	374,347	1,647	13.1	NA	4,771	21.0	740
1981 .....	76.106	332	11.50	427,898	1,865	13.3	NA	4,646	20.2	702
1982 .....	73.099	316	11.26	426,479	1,841	12.7	NA	4,405	19.0	679
1983 .....	72.971	312	10.74	417,617	1,786	11.5	NA	4,377	18.7	644
1984 .....	76.632	325	10.52	435,371	1,846	10.8	NA	4,614	19.6	633
1985 .....	76.392	321	10.06	438,531	1,843	10.1	NA	4,600	19.3	606
1986 .....	76.647	319	9.75	384,284	1,600	8.4	NA	4,608	19.2	586
1987 .....	79.054	326	9.72	397,819	1,642	8.2	4.6	4,766	19.7	586
1988 .....	82.709	338	9.76	411,739	1,684	7.8	4.4	4,984	20.4	588
1989 .....	84.785	344	9.65	439,235	1,780	7.8	4.4	5,070	20.5	577
1990 .....	84.484	338	9.43	474,831	1,902	7.9	4.5	5,039	20.2	563
1991 .....	84.437	334	9.44	472,543	1,868	7.7	4.4	4,993	19.7	558
1992 .....	85.782	334	9.26	477,024	1,860	7.3	4.2	5,087	19.8	549
1993 .....	87.365	336	9.18	492,383	1,894	7.2	4.2	5,185	19.9	545
1994 .....	89.087	339	8.99	504,988	1,919	6.9	4.0	5,261	20.0	531
1995 .....	91.031	342	8.95	514,755	1,933	6.7	3.8	5,323	20.0	523
1996 .....	94.021	349	8.90	560,409	2,080	6.9	3.9	5,510	20.5	522
1997 .....	94.600	347	8.57	568,075	2,084	6.6	3.7	5,584	20.5	506
1998 .....	95.018	344	8.24	526,394	1,908	5.8	3.3	5,635	20.4	489
1999 .....	96.648	346	8.01	558,739	2,002	5.8	3.2	5,688	20.4	471
2000 .....	98.817	350	7.87	687,824	2,438	6.7	3.7	5,868	20.8	467
2001 .....	96.170	337	7.58	696,347	2,444	6.6	3.7	5,761	20.2	454
2002 .....	97.643	339	7.56	664,072	2,309	6.0	3.5	5,804	20.2	450
2003 .....	97.918	338	7.38	755,213	2,603	6.6	3.8	5,853	20.2	441
2004 .....	100.090	342	7.27	871,344	2,976	7.1	4.0	5,970	20.4	433
2005 .....	100.188	339	7.04	1,045,917	3,539	8.0	4.4	5,993	20.3	421
2006 .....	99.485	333	6.81	1,159,027	3,884	8.4	4.7	5,910	19.8	404
2007 .....	101.015	335	6.79	1,234,044	4,097	8.5	4.7	6,000	19.9	403
2008 .....	98.891	325	6.67	1,408,990	4,633	9.6	5.3	5,809	19.1	392
2009 .....	94.118	307	6.53	1,066,523	3,477	7.4	4.3	5,386	17.6	374
2010 .....	97.445	315	6.59	1,212,094	3,918	8.1	4.6	5,582	18.0	378
2011 .....	96.842	311	6.45	1,393,001	4,470	9.0	5.1	5,445	17.5	362
2012 .....	94.416	301	6.15	1,356,104	4,319	8.4	4.7	5,232	16.7	341
2013 .....	97.157	307	6.22	1,378,360	4,359	8.3	4.7	5,360	17.0	343
2014 .....	98.329	309	6.15	1,394,974	4,379	8.0	4.5	5,406	17.0	338
2015 .....	97.365	303	5.94	NA	NA	NA	NA	5,259	16.4	321
2016 .....	<sup>R</sup> 97.399	301	5.85	NA	NA	NA	NA	5,171	16.0	310

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

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

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

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

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

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

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

R=Revised. NA=Not available.

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

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

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

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

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

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

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

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

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

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

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