

**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	<sup>R</sup> 4,421	<sup>R</sup> 20.5	<sup>R</sup> 821
1980	78.067	344	12.10	374,347	1,647	13.1	NA	<sup>R</sup> 4,750	<sup>R</sup> 20.9	<sup>R</sup> 736
1981	76.106	332	11.50	427,898	1,865	13.3	NA	<sup>R</sup> 4,625	20.2	<sup>R</sup> 699
1982	73.099	316	11.26	426,479	1,841	12.7	NA	<sup>R</sup> 4,393	19.0	<sup>R</sup> 677
1983	72.971	312	10.74	411,617	1,786	11.5	NA	<sup>R</sup> 4,371	18.7	644
1984	76.632	325	10.52	435,309	1,846	10.8	NA	<sup>R</sup> 4,600	<sup>R</sup> 19.5	<sup>R</sup> 631
1985	76.392	321	10.06	438,339	1,842	10.1	NA	<sup>R</sup> 4,592	19.3	<sup>R</sup> 605
1986	76.647	319	9.75	384,088	1,599	8.4	NA	<sup>R</sup> 4,598	<sup>R</sup> 19.1	<sup>R</sup> 585
1987	79.054	326	9.72	397,623	1,641	8.2	4.6	<sup>R</sup> 4,757	<sup>R</sup> 19.6	<sup>R</sup> 585
1988	82.709	338	9.76	411,565	1,683	7.8	4.4	<sup>R</sup> 4,981	20.4	588
1989	84.785	344	9.65	439,046	1,779	7.8	4.4	<sup>R</sup> 5,065	20.5	<sup>R</sup> 576
1990	84.484	338	9.43	474,647	1,901	7.9	4.5	5,039	20.2	563
1991	84.437	334	9.44	472,434	1,867	7.7	4.4	4,993	19.7	558
1992	85.782	334	9.26	476,840	1,859	7.3	4.2	<sup>R</sup> 5,089	19.8	549
1993	87.365	336	9.18	492,267	1,894	7.2	4.2	<sup>R</sup> 5,184	19.9	<sup>R</sup> 544
1994	89.087	339	8.99	504,854	1,919	6.9	4.0	5,261	20.0	531
1995	91.031	342	8.95	514,622	1,933	6.7	3.8	<sup>R</sup> 5,324	20.0	523
1996	94.021	349	8.90	560,292	2,080	6.9	3.9	<sup>R</sup> 5,511	20.5	522
1997	94.600	347	8.57	567,960	2,083	6.6	3.7	<sup>R</sup> 5,583	20.5	506
1998	95.018	344	8.24	526,280	1,908	5.8	3.3	<sup>R</sup> 5,637	20.4	489
1999	96.648	346	8.01	558,624	2,002	5.8	3.2	<sup>R</sup> 5,689	20.4	<sup>R</sup> 472
2000	98.817	350	7.87	687,708	2,437	6.7	3.7	<sup>R</sup> 5,866	20.8	467
2001	96.170	337	7.58	696,240	2,443	6.6	3.7	<sup>R</sup> 5,762	20.2	454
2002	97.643	339	7.56	663,962	2,308	6.0	3.5	<sup>R</sup> 5,805	20.2	450
2003	97.918	338	7.38	755,068	2,603	6.6	3.8	<sup>R</sup> 5,855	20.2	441
2004	100.090	342	7.27	871,209	2,975	7.1	4.0	5,970	20.4	433
2005	100.188	339	7.04	1,045,729	3,539	8.0	4.4	<sup>R</sup> 5,991	20.3	421
2006	99.485	333	6.81	1,158,819	3,884	8.4	4.7	<sup>R</sup> 5,912	19.8	<sup>R</sup> 405
2007	101.015	335	6.79	1,233,864	4,096	8.5	4.7	<sup>R</sup> 6,005	19.9	<sup>R</sup> 404
2008	98.891	325	6.67	1,408,750	4,633	9.6	5.3	<sup>R</sup> 5,815	19.1	392
2009	94.118	307	6.53	1,066,275	3,476	7.4	4.3	<sup>R</sup> 5,395	17.6	374
2010	97.444	315	6.59	1,213,336	3,922	8.1	4.6	<sup>R</sup> 5,591	<sup>R</sup> 18.1	378
2011	96.847	311	6.45	1,392,945	4,469	9.0	5.1	<sup>R</sup> 5,453	17.5	<sup>R</sup> 363
2012	94.412	301	6.15	1,356,215	4,319	8.4	4.7	<sup>R</sup> 5,242	16.7	341
2013	97.164	307	6.22	1,378,885	4,361	8.3	4.7	<sup>R</sup> 5,372	17.0	<sup>R</sup> 344
2014	98.323	309	6.15	1,399,486	4,393	8.0	4.5	<sup>R</sup> 5,419	17.0	<sup>R</sup> 339
2015	97.363	303	5.94	1,127,132	3,512	6.2	3.6	<sup>R</sup> 5,274	16.4	<sup>R</sup> 322
2016	97.496	302	5.85	NA	NA	NA	NA	<sup>R</sup> 5,187	<sup>R</sup> 16.1	311

<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).