

**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	4,421	20.5	821
1980	78.067	344	12.10	374,347	1,647	13.1	NA	4,750	20.9	736
1981	76.106	332	11.50	427,898	1,865	13.3	NA	4,625	20.2	699
1982	73.099	316	11.26	426,479	1,841	12.7	NA	4,393	19.0	677
1983	72.971	312	10.74	417,617	1,786	11.5	NA	4,371	18.7	644
1984	76.632	325	10.52	435,309	1,846	10.8	NA	4,600	19.5	631
1985	76.392	321	10.06	438,339	1,842	10.1	NA	4,593	19.3	605
1986	76.647	319	9.75	384,088	1,599	8.4	NA	4,598	19.1	585
1987	79.054	326	9.72	397,623	1,641	8.2	4.6	4,757	19.6	585
1988	82.709	338	9.76	411,565	1,683	7.8	4.4	4,982	20.4	588
1989	84.785	344	9.65	439,046	1,779	7.8	4.4	5,066	20.5	577
1990	84.485	338	9.43	474,647	1,901	7.9	4.5	5,038	20.2	563
1991	84.437	334	9.44	472,434	1,867	7.7	4.4	4,993	19.7	558
1992	85.782	334	9.26	476,840	1,859	7.3	4.2	5,090	19.8	549
1993	<sup>R</sup> 87.325	336	<sup>R</sup> 9.17	492,267	1,894	7.2	4.2	<sup>R</sup> 5,181	19.9	544
1994	<sup>R</sup> 89.040	<sup>R</sup> 338	8.99	504,854	1,919	6.9	4.0	<sup>R</sup> 5,258	20.0	531
1995	<sup>R</sup> 90.991	342	<sup>R</sup> 8.94	514,622	1,933	6.7	3.8	<sup>R</sup> 5,321	20.0	523
1996	<sup>R</sup> 94.000	349	8.90	560,292	2,080	6.9	3.9	<sup>R</sup> 5,510	20.5	522
1997	<sup>R</sup> 94.571	347	8.57	567,960	2,083	6.6	3.7	<sup>R</sup> 5,582	20.5	506
1998	<sup>R</sup> 94.982	344	8.24	526,280	1,908	5.8	3.3	<sup>R</sup> 5,635	20.4	489
1999	<sup>R</sup> 96.615	346	8.01	558,624	2,002	5.8	3.2	<sup>R</sup> 5,687	20.4	<sup>R</sup> 471
2000	<sup>R</sup> 98.776	350	<sup>R</sup> 7.86	687,708	2,437	6.7	3.7	<sup>R</sup> 5,864	20.8	467
2001	<sup>R</sup> 96.129	337	7.58	696,240	2,443	6.6	3.7	<sup>R</sup> 5,759	20.2	454
2002	<sup>R</sup> 97.605	339	7.56	663,962	2,308	6.0	3.5	<sup>R</sup> 5,803	20.2	450
2003	<sup>R</sup> 97.898	<sup>R</sup> 337	7.38	755,068	2,603	6.6	3.8	<sup>R</sup> 5,854	20.2	441
2004	<sup>R</sup> 100.073	342	7.27	871,209	2,975	7.1	4.0	<sup>R</sup> 5,969	20.4	433
2005	<sup>R</sup> 100.168	339	7.04	1,045,729	3,539	8.0	4.4	<sup>R</sup> 5,990	20.3	421
2006	<sup>R</sup> 99.464	333	6.81	1,158,819	3,884	8.4	4.7	<sup>R</sup> 5,911	19.8	<sup>R</sup> 404
2007	<sup>R</sup> 100.971	335	6.79	1,233,864	4,096	8.5	4.7	<sup>R</sup> 6,002	19.9	404
2008	<sup>R</sup> 98.825	325	<sup>R</sup> 6.66	1,408,750	4,633	9.6	5.3	<sup>R</sup> 5,811	19.1	392
2009	<sup>R</sup> 94.078	307	<sup>R</sup> 6.52	1,066,275	3,476	7.4	4.3	<sup>R</sup> 5,393	17.6	374
2010	<sup>R</sup> 97.544	315	6.60	1,213,609	3,923	8.1	4.7	<sup>R</sup> 5,588	18.1	378
2011	<sup>R</sup> 96.960	311	6.46	1,391,358	4,465	9.0	5.1	<sup>R</sup> 5,452	17.5	363
2012	<sup>R</sup> 94.532	301	6.16	1,354,948	4,315	8.4	4.7	<sup>R</sup> 5,242	16.7	341
2013	<sup>R</sup> 97.334	308	6.23	1,376,201	4,352	8.2	4.6	<sup>R</sup> 5,371	17.0	344
2014	<sup>R</sup> 98.487	309	6.15	1,394,971	4,378	8.0	4.5	5,419	17.0	338
2015	<sup>R</sup> 97.516	304	5.92	1,127,726	3,513	6.2	3.6	<sup>R</sup> 5,273	16.4	320
2016	<sup>R</sup> 97.524	302	<sup>R</sup> 5.83	1,038,504	3,211	5.6	3.2	<sup>R</sup> 5,186	16.0	310
2017	<sup>R</sup> 97.841	300	<sup>R</sup> 5.72	NA	NA	NA	NA	<sup>R</sup> 5,146	15.8	301

<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.  
<sup>R</sup>=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 2015" (June 2017), 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).