

**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	<sup>R</sup> 5,066	20.5	577
1990 .....	<sup>R</sup> 84.485	338	9.43	474,647	1,901	7.9	4.5	<sup>R</sup> 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> 87.366	336	9.18	492,267	1,894	7.2	4.2	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	5,324	20.0	523
1996 .....	94.021	349	8.90	560,292	2,080	6.9	3.9	5,511	20.5	522
1997 .....	94.600	347	8.57	567,960	2,083	6.6	3.7	5,584	20.5	506
1998 .....	95.018	344	8.24	526,280	1,908	5.8	3.3	5,637	20.4	489
1999 .....	96.648	346	8.01	558,624	2,002	5.8	3.2	5,690	20.4	472
2000 .....	98.817	350	7.87	687,708	2,437	6.7	3.7	5,867	20.8	467
2001 .....	96.170	337	7.58	696,240	2,443	6.6	3.7	5,762	20.2	454
2002 .....	97.643	339	7.56	663,962	2,308	6.0	3.5	5,805	20.2	450
2003 .....	97.918	338	7.38	755,068	2,603	6.6	3.8	5,855	20.2	441
2004 .....	100.090	342	7.27	871,209	2,975	7.1	4.0	5,971	20.4	433
2005 .....	100.188	339	7.04	1,045,729	3,539	8.0	4.4	5,992	20.3	421
2006 .....	99.484	333	6.81	1,158,819	3,884	8.4	4.7	5,912	19.8	405
2007 .....	101.015	335	6.79	1,233,864	4,096	8.5	4.7	6,005	19.9	404
2008 .....	98.891	325	6.67	1,408,750	4,633	9.6	5.3	5,815	19.1	392
2009 .....	94.118	307	6.53	1,066,275	3,476	7.4	4.3	5,396	17.6	374
2010 .....	97.580	315	6.60	1,213,609	3,923	8.1	4.7	5,591	18.1	378
2011 .....	96.976	311	6.46	1,391,358	4,465	9.0	5.1	5,454	17.5	363
2012 .....	94.535	301	6.16	1,354,948	4,315	8.4	4.7	5,243	16.7	341
2013 .....	97.340	308	6.23	1,376,201	4,352	8.2	4.6	5,372	17.0	344
2014 .....	98.491	309	6.15	1,394,971	4,378	8.0	4.5	5,419	17.0	338
2015 .....	97.526	304	5.92	1,127,726	3,513	6.2	3.6	5,274	16.4	320
2016 .....	<sup>R</sup> 97.582	302	5.84	1,038,504	3,211	5.6	3.2	<sup>R</sup> 5,189	16.0	310
2017 .....	<sup>R</sup> 97.735	300	5.72	NA	NA	NA	NA	<sup>R</sup> 5,142	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 ET.1.  
• **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).