

**Table 12.7 Carbon Dioxide Emissions From Biomass Energy Consumption**  
(Million Metric Tons of Carbon Dioxide<sup>a</sup>)

	By Source					By Sector					
	Wood <sup>b</sup>	Biomass Waste <sup>c</sup>	Fuel Ethanol <sup>d</sup>	Bio-diesel	Total	Residential	Commercial <sup>e</sup>	Industrial <sup>f</sup>	Transportation	Electric Power <sup>g</sup>	Total
1973 Total	143	(s)	NA	NA	143	33	1	109	NA	(s)	143
1975 Total	140	(s)	NA	NA	141	40	1	100	NA	(s)	141
1980 Total	232	(s)	NA	NA	232	80	2	150	NA	(s)	232
1985 Total	252	14	3	NA	270	95	2	168	3	1	270
1990 Total	208	24	4	NA	237	54	8	147	4	23	237
1995 Total	222	30	8	NA	260	49	9	166	8	28	260
1996 Total	229	32	6	NA	266	51	10	170	6	30	266
1997 Total	222	30	7	NA	259	40	10	172	7	30	259
1998 Total	205	30	8	NA	242	36	9	160	8	30	242
1999 Total	208	29	8	NA	245	37	9	161	8	30	245
2000 Total	212	27	9	NA	248	39	9	161	9	29	248
2001 Total	188	33	10	(s)	231	35	9	147	10	31	231
2002 Total	187	36	12	(s)	235	36	9	144	12	35	235
2003 Total	188	36	16	(s)	240	38	9	141	16	37	240
2004 Total	199	35	20	(s)	255	38	10	151	20	36	255
2005 Total	200	37	23	1	261	40	10	150	23	37	261
2006 Total	197	36	31	2	266	36	9	151	33	38	266
2007 Total	196	37	39	3	276	39	9	146	41	39	276
2008 Total	193	39	55	3	290	44	10	139	57	40	290
2009 Total	181	41	62	3	287	47	10	125	64	41	287
2010 Total	199	42	73	2	316	41	10	149	74	42	316
2011 Total	201	42	73	8	324	42	11	151	80	40	324
2012 Total	200	42	73	8	324	39	10	153	80	42	324
2013 Total	220	45	75	13	353	54	11	158	87	43	353
2014 Total	226	47	76	13	362	55	12	158	88	49	362
2015 Total	210	47	79	14	350	41	13	157	90	48	350
2016 January	17	4	6	1	28	3	1	13	7	4	28
February	16	4	6	1	27	3	1	13	7	4	27
March	17	4	7	1	29	3	1	13	8	4	29
April	16	4	6	1	27	3	1	12	7	4	27
May	16	4	7	2	29	3	1	13	8	4	29
June	16	4	7	2	29	3	1	13	8	4	29
July	17	4	7	2	30	3	1	13	9	4	30
August	17	4	7	2	30	3	1	13	9	4	30
September	16	4	7	2	28	3	1	12	8	4	28
October	16	4	7	2	28	3	1	13	8	3	28
November	16	4	7	2	29	3	1	13	8	4	29
December	19	4	7	2	32	3	1	15	9	4	32
<b>Total</b>	<b>200</b>	<b>46</b>	<b>81</b>	<b>20</b>	<b>346</b>	<b>33</b>	<b>14</b>	<b>155</b>	<b>98</b>	<b>47</b>	<b>346</b>
2017 January	17	4	6	1	29	3	1	13	7	4	29
February	16	4	6	1	26	2	1	12	7	4	26
March	17	4	7	1	29	3	1	13	8	4	29
April	16	4	7	2	28	3	1	13	8	4	28
May	16	4	7	2	29	3	1	13	9	4	29
June	17	3	7	2	29	3	1	13	9	4	29
July	17	4	7	2	30	3	1	13	9	4	30
August	18	4	7	2	30	3	1	13	9	4	30
September	16	3	7	2	28	3	1	12	8	4	28
October	17	4	7	2	29	3	1	13	8	4	29
November	17	4	7	2	29	3	1	13	8	4	29
December	18	4	7	1	30	3	1	14	8	4	30
<b>Total</b>	<b>201</b>	<b>44</b>	<b>82</b>	<b>18</b>	<b>345</b>	<b>31</b>	<b>14</b>	<b>155</b>	<b>97</b>	<b>48</b>	<b>345</b>
2018 January	18	4	7	1	30	3	1	13	8	4	30
February	16	4	6	1	27	3	1	12	7	4	27
<b>2-Month Total</b>	<b>34</b>	<b>7</b>	<b>13</b>	<b>2</b>	<b>56</b>	<b>6</b>	<b>2</b>	<b>26</b>	<b>15</b>	<b>8</b>	<b>56</b>
<b>2017 2-Month Total</b>	<b>33</b>	<b>8</b>	<b>12</b>	<b>2</b>	<b>55</b>	<b>5</b>	<b>2</b>	<b>26</b>	<b>14</b>	<b>8</b>	<b>55</b>
<b>2016 2-Month Total</b>	<b>34</b>	<b>7</b>	<b>13</b>	<b>2</b>	<b>56</b>	<b>5</b>	<b>2</b>	<b>26</b>	<b>14</b>	<b>8</b>	<b>56</b>

<sup>a</sup> Metric tons of carbon dioxide can be converted to metric tons of carbon equivalent by multiplying by 12/44.

<sup>b</sup> Wood and wood-derived fuels.

<sup>c</sup> Municipal solid waste from biogenic sources, landfill gas, sludge waste, agricultural byproducts, and other biomass.

<sup>d</sup> Fuel ethanol minus denaturant.

<sup>e</sup> Commercial sector, including commercial combined-heat-and-power (CHP) and commercial electricity-only plants.

<sup>f</sup> Industrial sector, including industrial combined-heat-and-power (CHP) and industrial electricity-only plants.

<sup>g</sup> The electric power sector comprises electricity-only and combined-heat-and-power (CHP) plants within the NAICS 22 category whose primary business is to sell electricity, or electricity and heat, to the public.

NA=Not available. (s)=Less than 0.5 million metric tons.

Notes: • Carbon dioxide emissions from biomass energy consumption are excluded from the energy-related carbon dioxide emissions reported in Tables 12.1–12.6. See Note 2, "Accounting for Carbon Dioxide Emissions From Biomass Energy Combustion," at end of section. • Data are estimates. See "Section 12 Methodology and Sources" at end of section. • See "Carbon Dioxide" in Glossary. • See Note 1, "Emissions of Carbon Dioxide and Other Greenhouse Gases," at end of section. • 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/#environment> (Excel and CSV files) for all available annual and monthly data beginning in 1973.

Sources: See end of section.