

**Table 11.7 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
<b>1973 Total</b> .....	143	(s)	NA	NA	143	33	1	109	NA	(s)	143
<b>1975 Total</b> .....	140	(s)	NA	NA	141	40	1	100	NA	(s)	141
<b>1980 Total</b> .....	232	(s)	NA	NA	232	80	2	150	NA	(s)	232
<b>1985 Total</b> .....	252	14	3	NA	270	95	2	168	3	1	270
<b>1990 Total</b> .....	208	24	4	NA	237	54	8	147	4	23	237
<b>1995 Total</b> .....	222	30	8	NA	260	49	9	166	8	28	260
<b>2000 Total</b> .....	212	27	9	NA	248	39	9	161	9	29	248
<b>2005 Total</b> .....	200	37	23	1	261	40	10	150	23	37	261
<b>2006 Total</b> .....	197	36	31	2	266	36	9	151	33	38	266
<b>2007 Total</b> .....	196	37	39	3	276	39	9	146	41	39	276
<b>2008 Total</b> .....	193	39	55	3	290	44	10	139	57	40	290
<b>2009 Total</b> .....	182	41	62	3	288	47	10	125	64	41	288
<b>2010 Total</b> .....	208	42	73	2	325	51	10	149	74	42	325
<b>2011 Total</b> .....	208	42	73	8	331	49	11	151	80	40	331
<b>2012 Total</b> .....	202	42	73	8	325	41	10	153	80	42	325
<b>2013 Total</b> .....	219	45	75	13	353	54	11	158	87	43	353
<b>2014 Total</b> .....	225	47	76	13	361	54	12	158	88	49	361
<b>2015 Total</b> .....	217	47	79	14	357	48	13	157	90	48	357
<b>2016 Total</b> .....	209	46	81	20	355	42	14	155	98	47	355
<b>2017 Total</b> .....	205	45	82	19	351	40	14	152	98	47	351
<b>2018 Total</b> .....	212	44	82	18	356	49	14	151	97	46	356
<b>2019</b> January .....	18	4	6	1	30	4	1	13	7	4	30
February .....	17	3	6	1	27	4	1	12	7	3	27
March .....	18	3	7	1	29	4	1	13	8	3	29
April .....	17	3	7	1	28	4	1	12	8	3	28
May .....	17	3	7	2	30	4	1	12	9	3	30
June .....	17	3	7	1	29	4	1	12	8	3	29
July .....	18	3	7	2	30	4	1	13	8	4	30
August .....	18	3	7	2	30	4	1	13	8	4	30
September .....	17	3	7	1	28	4	1	12	8	3	28
October .....	17	3	7	1	29	4	1	12	8	3	29
November .....	17	3	7	1	29	4	1	12	8	3	29
December .....	18	4	7	1	30	4	1	13	8	4	30
<b>Total</b> .....	210	40	83	17	350	51	13	147	97	41	350
<b>2020</b> January .....	17	4	7	1	29	4	1	13	8	4	29
February .....	16	3	6	1	27	3	1	12	7	3	27
March .....	17	3	6	1	27	4	1	12	7	3	27
April .....	16	3	4	1	24	4	1	12	5	3	24
May .....	17	3	6	1	27	4	1	12	7	3	27
June .....	16	3	6	1	26	4	1	11	7	3	26
July .....	16	3	6	2	28	4	1	12	8	3	28
August .....	16	3	6	2	28	4	1	12	8	4	28
September .....	16	3	6	2	27	4	1	12	8	3	27
October .....	16	3	6	2	27	4	1	12	7	3	27
November .....	16	3	6	1	27	4	1	12	7	3	27
December .....	17	3	6	2	29	4	1	13	8	3	29
<b>Total</b> .....	197	39	72	18	325	43	13	144	86	39	325
<b>2021</b> January .....	17	3	6	1	27	4	1	13	6	3	27
February .....	15	3	5	1	25	3	1	11	6	3	25
March .....	17	3	7	1	28	4	1	12	8	3	28
<b>3-Month Total</b> .....	49	10	17	4	80	11	3	36	20	10	80
<b>2020 3-Month Total</b> .....	50	10	18	4	83	11	3	37	22	10	83
<b>2019 3-Month Total</b> .....	53	10	20	4	86	13	3	37	23	11	86

<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 11.1–11.6. See Note 2, "Accounting for Carbon Dioxide Emissions From Biomass Energy Combustion," at end of section. • Data are estimates. See "Section 11 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.