

Table 12.7 Carbon Dioxide Emissions From Biomass Energy Consumption
(Million Metric Tons of Carbon Dioxide^a)

	By Source					By Sector					
	Wood ^b	Biomass Waste ^c	Fuel Ethanol ^d	Bio-diesel	Total	Residential	Commercial ^e	Industrial ^f	Transportation	Electric Power ^g	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	R 182	41	62	3	R 288	R 47	10	125	64	41	R 288
2010 Total	R 208	42	73	2	R 325	R 51	10	149	74	42	R 325
2011 Total	R 208	42	73	8	R 331	R 49	11	151	80	40	R 331
2012 Total	R 202	42	73	8	R 325	R 41	10	153	80	42	R 325
2013 Total	R 219	45	75	13	R 353	R 54	11	158	87	43	R 353
2014 Total	R 225	47	76	13	R 361	R 54	12	158	88	49	R 361
2015 Total	R 217	47	79	14	R 357	R 48	13	157	90	48	R 357
2016 January	R 18	4	6	1	R 29	R 4	1	13	7	4	R 29
February	R 17	4	6	1	R 28	3	1	13	7	4	R 28
March	17	4	7	1	29	R 4	1	13	8	4	29
April	16	4	6	1	R 28	3	1	12	7	4	R 28
May	R 17	4	7	2	R 30	R 4	1	13	8	4	R 30
June	R 17	4	7	2	29	3	1	13	8	4	29
July	R 18	4	7	2	R 31	R 4	1	13	9	4	R 31
August	R 18	4	7	2	R 31	R 4	1	13	9	4	R 31
September	R 17	4	7	2	R 29	3	1	12	8	4	R 29
October	R 17	4	7	2	R 29	R 4	1	13	8	3	R 29
November	R 17	4	7	2	R 30	3	1	13	8	4	R 30
December	R 20	4	7	2	R 33	R 4	1	15	9	4	R 33
Total	R 209	46	81	20	R 356	R 42	14	155	98	47	R 356
2017 January	18	4	6	1	R 30	3	1	14	7	4	R 30
February	16	4	6	1	R 27	R 3	1	12	7	4	R 27
March	R 18	4	7	1	30	3	1	14	8	4	30
April	R 17	4	7	2	R 29	3	1	13	8	4	R 29
May	R 18	4	7	2	30	3	1	13	9	4	30
June	R 18	4	7	2	30	3	1	13	9	4	30
July	18	4	7	2	R 31	3	1	14	8	4	R 31
August	R 19	4	7	2	R 32	3	1	14	9	4	R 32
September	R 17	3	7	2	R 29	3	1	13	8	4	R 29
October	R 18	4	7	2	R 30	3	1	13	8	4	R 30
November	R 18	4	7	2	R 30	3	1	14	8	4	R 30
December	R 19	4	7	2	R 31	3	1	14	8	4	R 31
Total	R 214	45	82	19	R 360	R 41	14	161	98	47	R 360
2018 January	R 19	4	7	1	R 31	R 4	1	14	8	4	R 31
February	17	4	6	1	R 28	R 4	1	13	7	4	R 28
March	R 19	4	7	1	R 31	R 4	1	13	8	4	R 31
April	R 18	4	6	1	R 29	R 4	1	13	7	4	R 29
May	R 19	4	7	2	R 31	R 4	1	13	9	4	R 31
June	R 18	4	7	2	R 31	R 4	1	13	8	4	R 31
July	R 19	4	7	2	R 31	R 4	1	14	9	4	R 31
August	R 19	4	7	2	R 32	R 4	1	14	9	4	R 32
September	R 18	3	6	2	R 29	R 4	1	13	8	3	R 29
October	18	4	7	2	31	4	1	13	8	4	31
10-Month Total	184	37	68	15	304	40	11	134	80	38	304
2017 10-Month Total	178	37	68	16	299	34	12	133	81	39	299
2016 10-Month Total	172	38	67	16	293	35	12	127	81	38	293

^a Metric tons of carbon dioxide can be converted to metric tons of carbon equivalent by multiplying by 12/44.
^b Wood and wood-derived fuels.
^c Municipal solid waste from biogenic sources, landfill gas, sludge waste, agricultural byproducts, and other biomass.
^d Fuel ethanol minus denaturant.
^e Commercial sector, including commercial combined-heat-and-power (CHP) and commercial electricity-only plants.
^f Industrial sector, including industrial combined-heat-and-power (CHP) and industrial electricity-only plants.
^g 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.

R=Revised. 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.