

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	181	41	62	3	287	47	10	125	64	41	287
2010 Total	186	42	73	2	303	41	10	136	74	42	303
2011 Total	189	42	73	8	312	42	11	139	80	40	312
2012 Total	189	42	73	8	312	39	10	141	80	42	312
2013 Total	204	45	75	13	337	54	11	141	87	43	337
2014 January	18	4	6	1	29	5	1	12	7	4	29
February	16	4	6	1	26	4	1	11	6	4	26
March	18	4	6	1	29	5	1	12	7	4	29
April	17	4	6	1	28	4	1	12	7	4	28
May	17	4	7	1	29	5	1	12	7	4	29
June	17	4	6	1	29	4	1	12	7	4	29
July	18	4	7	1	30	5	1	12	8	4	30
August	18	4	7	1	30	5	1	12	8	4	30
September	17	4	6	1	28	4	1	11	7	4	28
October	17	4	7	1	29	5	1	12	8	4	29
November	17	4	6	1	29	4	1	12	7	4	29
December	18	4	7	1	30	5	1	12	8	4	30
Total	209	47	76	13	345	54	11	^R 142	88	49	345
2015 January	17	4	6	(s)	27	3	1	12	^R 6	4	27
February	15	4	6	1	25	3	1	11	7	4	25
March	16	4	7	1	27	3	1	12	7	4	27
April	16	4	6	1	27	3	1	12	7	4	27
May	16	4	7	1	28	3	1	12	8	4	28
June	16	4	7	2	28	3	1	11	8	4	28
July	17	4	7	1	29	3	1	12	8	4	29
August	17	4	7	1	29	3	1	12	8	4	29
September	16	4	7	1	28	3	1	11	8	4	28
October	15	4	7	1	28	3	1	11	8	4	28
November	16	4	7	1	27	3	1	12	7	4	27
December	16	4	7	1	29	3	1	12	8	4	29
Total	192	47	79	14	332	40	^R 13	140	^R 90	48	332
2016 January	16	4	6	1	27	3	1	12	7	4	27
February	15	4	6	1	26	3	1	11	7	4	26
March	15	4	7	1	27	3	1	11	8	4	27
April	14	4	6	1	26	3	1	11	^R 7	4	26
May	15	4	7	2	27	3	1	11	8	4	27
June	15	4	7	2	28	3	1	^R 12	8	4	28
July	16	4	7	2	29	3	1	12	9	4	29
August	16	4	7	2	29	3	1	12	9	4	29
September	15	4	7	2	27	3	1	11	8	4	27
October	15	4	7	2	27	3	1	11	8	4	27
10-Month Total	152	40	68	16	275	30	11	114	81	39	275
2015 10-Month Total	160	39	66	12	276	34	11	117	75	40	276
2014 10-Month Total	174	39	63	11	287	45	10	118	73	41	287

^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.