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	Resi-dential	Com-mercial[e]	Indus-trial[f]	Trans-portation	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**	**R 337**	**54**	**11**	**141**	**R 87**	**43**	**R 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**	**143**	**88**	**49**	**345**
2015 January	17	4	6	(s)	R 27	3	1	12	7	4	R 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	R 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	R 11	8	4	28
July	17	4	7	1	29	3	1	12	8	4	29
August	R 17	4	7	1	29	3	1	12	8	4	29
September	16	4	7	1	R 28	3	1	11	8	4	R 28
October	R 15	4	7	1	28	3	1	R 11	8	4	28
November	16	4	7	1	27	3	1	R 12	7	4	27
December	16	4	7	1	R 29	3	1	12	8	4	R 29
Total	**R 192**	**47**	**79**	**14**	**R 332**	**40**	**11**	**140**	**92**	**48**	**R 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	8	4	26
May	15	4	7	2	27	3	1	11	8	4	27
June	15	4	7	2	R 28	3	1	11	8	4	R 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
9-Month Total	**137**	**36**	**61**	**14**	**247**	**27**	**9**	**103**	**74**	**35**	**247**
2015 9-Month Total	**144**	**35**	**59**	**11**	**249**	**30**	**9**	**105**	**69**	**36**	**249**
2014 9-Month Total	**156**	**35**	**56**	**10**	**257**	**41**	**9**	**106**	**65**	**37**	**257**

[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.