Table 12.1 Emissions of Greenhouse Gases, 1980-2006

	Greenhouse Gases				Greenhouse Gases, Based on Global Warming Potential [1]				
	Carbon Dioxide [2,3]	Methane	Nitrous Oxide	HFCs PFCs SF_6	Carbon Dioxide [2]	Methane	Nitrous Oxide	HFCs PFCs SF_6	Total
Year	Million Metric Tons of Gas				Million Metric Tons Carbon Dioxide Equivalent [2]				
1980	4,824.7	28.6	1.0	– –	4,824.7	658.0	287.0	70.4	5,840.0
1981	4,704.3	29.2	1.0	– –	4,704.3	671.1	292.0	74.0	5,741.3
1982	4,448.8	29.4	1.0	– –	4,448.8	676.8	282.6	55.4	5,463.7
1983	4,408.0	29.1	.9	– –	4,408.0	669.9	270.2	67.1	5,415.3
1984	4,655.8	29.8	1.0	– –	4,655.8	684.5	294.0	75.5	5,709.9
1985	4,638.3	30.0	1.1	– –	4,638.3	689.7	330.7	70.5	5,729.3
1986	4,642.5	29.4	1.1	– –	4,642.5	676.5	323.8	75.0	5,717.8
1987	4,800.2	29.9	1.1	– –	4,800.2	688.3	323.4	77.8	5,889.8
1988	5,012.6	30.1	1.1	– –	5,012.6	692.0	316.9	91.3	6,112.8
1989	5,105.8	30.2	1.1	– –	5,105.8	693.8	332.8	94.5	6,226.9
1990	[R]5,017.5	[R]30.8	1.1	– –	[R]5,017.5	[R]708.4	[R]333.7	87.1	[R]6,146.7
1991	[R]4,969.4	[R]30.8	1.2	– –	[R]4,969.4	[R]707.7	[R]342.9	79.0	[R]6,098.9
1992	[R]5,078.7	[R]30.9	1.2	– –	[R]5,078.7	[R]709.7	[R]350.0	83.7	[R]6,222.1
1993	[R]5,203.0	[R]29.8	1.2	– –	[R]5,203.0	[R]684.8	[R]349.5	82.9	[R]6,320.2
1994	[R]5,288.3	[R]29.8	1.3	– –	[R]5,288.3	[R]685.6	[R]374.9	[R]85.3	[R]6,434.0
1995	[R]5,343.4	[R]29.4	1.2	– –	[R]5,343.4	[R]675.9	[R]357.1	94.9	[R]6,471.2
1996	[R]5,531.0	[R]28.5	1.2	– –	[R]5,531.0	[R]656.0	[R]357.6	110.6	[R]6,655.2
1997	[R]5,606.7	[R]28.5	1.2	– –	[R]5,606.7	[R]654.6	[R]350.5	[R]118.0	[R]6,729.8
1998	[R]5,632.5	27.4	1.2	– –	[R]5,632.5	[R]631.3	[R]347.9	[R]134.4	[R]6,746.1
1999	[R]5,703.1	26.8	1.2	– –	[R]5,703.1	[R]615.8	[R]346.3	133.9	[R]6,799.1
2000	[R]5,890.5	[R]26.4	1.2	– –	[R]5,890.5	[R]608.0	[R]341.9	138.0	[R]6,978.4
2001	[R]5,806.3	[R]25.8	1.1	– –	[R]5,806.3	[R]593.9	[R]336.6	[R]128.6	[R]6,865.4
2002	[R]5,875.9	[R]26.0	1.1	– –	[R]5,875.9	[R]598.6	[R]332.5	137.8	[R]6,944.9
2003	[R]5,940.4	26.2	1.1	– –	[R]5,940.4	[R]603.7	[R]331.7	136.6	[R]7,012.4
2004	[R]6,019.9	[R]26.3	1.2	– –	[R]6,019.9	[R]605.9	[R]358.3	[R]149.4	[R]7,133.5
2005	[R]6,045.0	[R]26.4	1.2	– –	[R]6,045.0	[R]607.3	[R]368.0	[R]161.2	[R]7,181.4
2006[P]	5,934.4	26.3	1.3	– –	5,934.4	605.1	378.6	157.6	7,075.6

[1] Emissions of greenhouse gases are weighted based upon their relative global warming potential (GWP), with carbon dioxide equal to a weight of one. The use of updated estimates of GWP resulted in a number of revisions to previously published data. It is also important to note that revisions in estimated emissions result from revisions in energy consumption as well.

[2] Metric tons of carbon dioxide can be converted to metric tons of carbon equivalent by multiplying by 12/44.

[3] Carbon dioxide data in this table differ from those for the United States in Table 11.19 because data in this table exclude emissions from international bunker fuels consumption; include emissions from geothermal power generation, cement production and other industrial processes, and municipal solid waste combustion; and include data for the U.S. Territories.

R=Revised. P=Preliminary. – – = Not applicable because these gases cannot be summed in native units.

Notes: • HFCs = hydrofluorocarbons; PFCs = perfluorocarbons; and SF_6 = sulfur hexafluoride. • Emissions are from anthropogenic sources. "Anthropogenic" means produced as the result of human activities, including emissions from agricultural activity and domestic livestock. Emissions from natural sources, such as wetlands and wild animals, are not included. • Because of the continuing goal to improve estimation methods for greenhouse gases, data are frequently revised on an annual basis in keeping with the latest findings of the international scientific community. • For information on units for measuring greenhouse gases, see http://www.eia.doe.gov/oiaf/1605/archive/gg06rpt/pdf/executive_summary.pdf, page 2, box titled "Units for Measuring Greenhouse Gases. • Totals may not equal sum of components due to independent rounding.

Web Page: For related information, see http://www.eia.doe.gov/environment.html.

Sources: **1990, 1995, and 1999-2006:** Energy Information Administration (EIA), *Emissions of Greenhouse Gases in the United States 2006* (November 2007), Table 1. **All Other Data:** EIA, *Emissions of Greenhouse Gases in the United States,* annual reports and unpublished revisions.