

Emissions of Greenhouse Gases in the United States 2004

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Table 32. U.S. Emissions of Hydrofluorocarbons, Perfluorocarbons, and Sulfur Hexafluoride, 1990 and 1996-2004
 (Thousand Metric Tons of Gas)

Gas	1990	1996	1997	1998	1999	2000	2001	2002	2003	P2004
Hydrofluorocarbons										
HFC-23	3.0	2.7	2.6	3.5	2.6	2.6	1.7	1.7	1.1	1.4
HFC-125	0.0	1.9	2.5	3.1	3.6	4.0	4.4	4.8	5.2	5.8
HFC-134a	0.0	18.9	24.1	28.2	32.5	36.9	40.5	43.8	46.6	50.6
HFC-143a	0.0	0.5	0.9	1.4	1.7	2.2	2.6	3.2	3.8	4.5
HFC-236fa	0.0	0.0	*	0.1	0.1	0.2	0.3	0.3	0.4	0.4
Perfluorocarbons										
CF ₄	2.6	1.9	1.8	1.5	1.5	1.5	0.7	0.9	0.7	0.6
C ₂ F ₆	0.4	0.4	0.5	0.5	0.5	0.4	0.3	0.3	0.3	0.3
Other HFCs, PFCs/PFPEs	M									
Sulfur Hexafluoride	1.4	1.3	1.2	1.0	1.0	0.8	0.8	0.7	0.7	0.7

*Less than 50 metric tons of gas.

P = preliminary data. M = mixture of gases.

Notes: Other HFCs, PFCs/PFPEs include HFC-152a, HFC-227ea, HFC-245fa, HFC-4310mee, and a variety of PFCs and perfluoropolyethers (PFPEs). They are grouped together to protect confidential data. Totals may not equal sum of components due to independent rounding.

Source: U.S. Environmental Protection Agency, Office of Air and Radiation, web site www.epa.gov/globalwarming/ (preliminary estimates, September 2005).