

**Table 29. U.S. Emissions of Hydrofluorocarbons, Perfluorocarbons, and Sulfur Hexafluoride, 1990-2002**  
 (Thousand Metric Tons of Gas)

Gas	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	P2002
<b>Hydrofluorocarbons</b>													
HFC-23.....	3.0	2.6	3.0	2.7	2.7	2.3	2.7	2.6	3.5	2.7	2.6	1.7	1.8
HFC-125.....	*	*	0.2	0.5	0.3	0.5	0.7	0.9	1.1	1.3	1.6	1.9	2.3
HFC-134a.....	0.6	0.6	0.6	2.9	4.5	12.2	16.2	20.2	23.1	26.1	28.9	31.6	34.0
HFC-143a.....	*	*	*	*	0.1	0.1	0.2	0.3	0.5	0.7	0.9	1.1	1.4
HFC-236fa .....	*	*	*	*	*	*	*	*	0.1	0.2	0.3	0.4	0.4
<b>Perfluorocarbons</b>													
CF <sub>4</sub> .....	2.6	2.2	2.1	2.0	1.8	1.8	1.9	1.8	1.5	1.5	1.4	0.8	0.7
C <sub>2</sub> F <sub>6</sub> .....	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.5	0.5	0.5	0.4	0.3	0.3
C <sub>4</sub> F <sub>10</sub> .....	*	*	*	*	*	*	*	*	*	*	*	*	*
PFCs/PFPEs.....	W	W	W	W	W	W	W	W	W	W	W	W	W
Other HFCs, PFCs/PFPEs ....	M	M	M	M	M	M	M	M	M	M	M	M	M
Sulfur Hexafluoride.....	1.8	1.7	1.6	1.8	1.6	1.3	1.5	1.3	1.0	1.0	0.8	0.8	0.8

\*Less than 50 metric tons of gas.

P = preliminary data. M = mixture of gases. W = withheld to avoid disclosure of confidential data.

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/](http://www.epa.gov/globalwarming/) (preliminary estimates, August 2003).