

**Table 31. U.S. Emissions of Hydrofluorocarbons, Perfluorocarbons, and Sulfur Hexafluoride,  
1990 and 1995-2003**  
(Million Metric Tons Carbon Dioxide Equivalent)

Gas	1990	1995	1996	1997	1998	1999	2000	2001	2002	P2003
<b>Hydrofluorocarbons</b>										
HFC-23 .....	36.1	28.0	32.3	31.2	41.7	31.7	30.9	20.6	20.6	13.0
HFC-125.....	0.0	4.4	6.3	8.6	10.7	12.1	13.6	14.9	16.2	17.8
HFC-134a.....	0.0	18.0	24.5	31.4	36.7	42.2	48.0	52.7	56.9	60.5
HFC-143a.....	0.0	0.9	2.3	4.0	5.9	7.5	9.3	11.4	13.8	16.5
HFC-236fa .....	0.0	0.0	0.0	0.1	0.6	1.3	2.0	2.6	3.2	3.5
<b>Total HFCs.....</b>	<b>36.1</b>	<b>51.4</b>	<b>65.5</b>	<b>75.1</b>	<b>95.5</b>	<b>94.9</b>	<b>103.8</b>	<b>102.2</b>	<b>110.7</b>	<b>111.3</b>
<b>Perfluorocarbons</b>										
CF <sub>4</sub> .....	14.7	10.3	11.0	10.0	8.7	8.7	8.6	4.3	5.1	3.9
C <sub>2</sub> F <sub>6</sub> .....	4.8	4.9	5.3	5.6	5.9	6.0	5.0	3.4	3.8	3.4
<b>Total PFCs.....</b>	<b>19.6</b>	<b>15.3</b>	<b>16.3</b>	<b>15.7</b>	<b>14.6</b>	<b>14.6</b>	<b>13.6</b>	<b>7.7</b>	<b>8.9</b>	<b>7.3</b>
Other HFCs, PFCs/PFPEs ....	0.3	1.9	3.4	4.5	5.5	6.2	6.5	6.7	7.1	7.6
Sulfur Hexafluoride.....	32.6	26.1	29.5	27.1	22.4	22.0	18.5	17.5	17.0	17.3
<b>Total Emissions .....</b>	<b>88.5</b>	<b>94.7</b>	<b>114.7</b>	<b>122.4</b>	<b>138.0</b>	<b>137.8</b>	<b>142.4</b>	<b>134.2</b>	<b>143.7</b>	<b>143.4</b>

P = preliminary 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, September 2004).