Emissions of Greenhouse Gases in the United States 2004

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Table 31. U.S. Emissions of Hydrofluorocarbons, Perfluorocarbons, and Sulfur Hexafluoride, 1990 and 1996-2004
(Million Metric Tons Carbon Dioxide Equivalent)

Gas	1990	1996	1997	1998	1999	2000	2001	2002	2003	P2004
Hydrofluorocarbons										
HFC-23	36.1	32.3	31.2	41.7	31.7	30.9	20.6	20.6	13.0	16.3
HFC-125	0.0	6.3	8.6	10.7	12.1	13.6	14.9	16.2	17.8	19.7
HFC-134a	0.0	24.5	31.4	36.7	42.2	48.0	52.7	56.9	60.5	65.8
HFC-143a	0.0	2.3	4.0	5.9	7.5	9.3	11.4	13.8	16.5	19.5
HFC-236fa	0.0	0.0	0.1	0.6	1.3	2.0	2.6	3.2	3.5	3.5
Total HFCs	**36.1**	**65.5**	**75.1**	**95.5**	**94.9**	**103.8**	**102.2**	**110.7**	**111.3**	**124.8**
Perfluorocarbons										
CF_4	14.8	11.0	10.1	8.7	8.6	8.7	4.2	5.0	3.8	3.2
C_2F_6	4.8	5.4	5.6	5.9	6.0	5.0	3.4	3.8	3.4	3.5
Total PFCs	**19.6**	**16.4**	**15.7**	**14.6**	**14.6**	**13.7**	**7.6**	**8.8**	**7.2**	**6.7**
Other HFCs, PFCs/PFPEs	**0.3**	**3.4**	**4.5**	**5.5**	**6.2**	**6.5**	**6.7**	**7.1**	**7.6**	**8.6**
Sulfur Hexafluoride	**32.1**	**29.1**	**26.7**	**22.1**	**21.7**	**18.1**	**17.4**	**16.4**	**16.3**	**16.0**
Total Emissions	**88.1**	**114.3**	**122.0**	**137.7**	**137.4**	**142.1**	**133.9**	**143.1**	**142.4**	**155.9**

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/ (preliminary estimates, September 2005).