

Table 9: Production and Atmospheric Release
HCFC-142b (thousand metric tonnes)

Expanded Data

Reporting Companies only

(thousand metric tonnes)

	Cumulative														
	Annual		Total			Short Banking Times			Medium Banking Times			Long Banking Times			
	Production	Released	Production	Released	Unreleased	Sales	Released	Unreleased	Sales	Released	Unreleased	Sales	Released	Unreleased	
1981	2.6	0.9	2.6	0.9	1.7	0.1	0.1	0.0	0.0	0.0	0.0	2.5	0.8	1.7	
1982	1.9	0.7	4.5	1.6	2.9	0.1	0.1	0.0	0.0	0.0	0.0	4.3	1.5	2.9	
1983	2.2	0.9	6.7	2.5	4.2	0.2	0.2	0.0	0.0	0.0	0.0	6.5	2.3	4.2	
1984	2.4	1.0	9.0	3.5	5.5	0.3	0.3	0.0	0.0	0.0	0.0	8.7	3.2	5.5	
1985	1.4	0.8	10.4	4.3	6.1	0.4	0.4	0.0	0.0	0.0	0.0	10.0	3.9	6.1	
1986	7.1	2.7	17.5	7.0	10.5	0.6	0.5	0.0	0.0	0.0	0.0	16.9	6.5	10.5	
1987	6.9	2.9	24.4	9.9	14.5	0.8	0.7	0.0	0.1	0.0	0.0	23.6	9.1	14.5	
1988	7.8	3.4	32.3	13.3	19.0	1.0	0.9	0.0	0.1	0.0	0.0	31.2	12.3	18.9	
1989	10.3	4.7	42.5	18.0	24.5	1.7	1.6	0.1	0.1	0.1	0.0	40.7	16.3	24.4	
1990	18.8	8.6	61.3	26.7	34.6	4.1	3.7	0.4	0.1	0.1	0.0	57.1	22.9	34.2	
1991	27.2	12.6	88.5	39.3	49.2	7.4	6.8	0.6	0.2	0.1	0.1	80.9	32.4	48.5	
1992	30.7	16.0	119.1	55.3	63.9	12.7	11.8	0.9	0.2	0.1	0.1	106.2	43.3	62.9	
1993	33.7	17.7	152.8	72.9	79.9	15.2	14.8	0.4	0.2	0.1	0.1	137.4	58.0	79.4	
1994	38.4	19.8	191.2	92.7	98.5	17.3	16.9	0.3	0.2	0.2	0.1	173.7	75.6	98.0	
1995	38.7	21.6	229.9	114.4	115.5	20.9	20.3	0.6	0.7	0.3	0.3	208.3	93.7	114.6	
1996	37.7	22.4	267.6	136.8	130.8	24.4	23.8	0.6	1.3	0.6	0.7	242.0	112.4	129.6	
1997	40.2	23.1	307.8	159.9	147.9	25.6	25.4	0.2	1.9	1.0	1.0	280.3	133.6	146.7	
1998	38.8	23.3	346.6	183.2	163.4	26.8	26.6	0.2	2.6	1.4	1.2	317.3	155.3	162.0	
1999	40.2	24.8	386.8	208.0	178.8	27.9	27.7	0.2	3.5	1.9	1.6	355.4	178.4	177.0	
2000	40.5	26.1	427.3	234.1	193.2	29.1	28.9	0.2	5.0	2.7	2.3	393.1	202.4	190.7	
2001	33.6	25.3	460.9	259.4	201.5	31.8	31.3	0.4	5.5	3.3	2.2	423.7	224.8	198.9	
2002	21.4	21.2	482.3	280.6	201.7	33.0	32.8	0.2	5.8	3.8	2.0	443.5	244.0	199.5	
2003	19.7	20.7	502.0	301.3	200.7	34.1	33.9	0.2	6.5	4.4	2.0	461.5	263.0	198.5	

Notes

In previous reports, from 1996 to 2002 fugitive emissions were incorrectly calculated. This has now been rectified with small changes to the data for the years identified in red.

Emissions are calculated from production and categorised sales using "emission functions".

The emission function for "Long" banking times was changed in 2001 in view of the results of a survey commissioned by AFEAS:

(Ashford P., 1999, Development of a global emission function for blowing agents used in closed cell foam, Final Report to AFEAS)

This showed that most (94%) of the HCFC-142b in closed cell foams was used to blow extruded polystyrene, the emission function for which comprises 32.5% loss in the year of manufacture and 3%/yr thereafter.

Columns affected by this change are shaded pale green/blue.

The emission function for "Short" banking time (e.g. open cell foam) is the same as in previous reports (83% emitted in the year of manufacture and 100% the year after).

The emission function for "Medium" banking time (mainly refrigeration) is the same as in previous reports (an initial loss of 30%, with the remainder normally distributed about a mean of 4.5 years, with a total service lifetime of 10 years).