Table 10 **Production and Atmospheric Release** **Expanded Data** **Reporting Companies only**

HFC-134a (thousand metric tonnes) (thousand metric tonnes)

	Annual		Cumulative											
			Total			Short Banking Times			Medium Banking Times			Long Banking Times		
	Production	Released	Production	Released	Unreleased	Sales	Released	Unreleased	Sales	Released	Unreleased	Sales	Released	Unreleased
1990	0.2	0.1	0.2	0.1	0.1	0.1	0.1	0.1	0.1	0.0	0.1	0.0	0.0	0.0
1991	2.2	0.2	2.4	0.3	2.1	0.2	0.1	0.0	2.2	0.2	2.0	0.0	0.0	0.0
1992	6.4	0.8	8.8	1.1	7.7	0.5	0.3	0.2	8.2	0.8	7.4	0.1	0.0	0.1
1993	26.5	3.6	35.3	4.7	30.6	2.2	1.4	0.9	32.7	3.2	29.4	0.4	0.1	0.3
1994	50.4	9.1	85.7	13.8	71.9	5.1	3.6	1.4	78.7	9.5	69.2	1.9	0.6	1.3
1995	73.8	19.8	159.5	33.6	125.9	15.5	10.3	5.2	140.0	21.9	118.0	4.0	1.4	2.6
1996	83.7	32.0	243.2	65.6	177.6	25.5	20.5	5.0	210.9	42.7	168.2	6.7	2.3	4.4
1997	101.9	41.9	345.1	107.4	237.7	32.9	29.2	3.7	301.8	74.5	227.3	10.4	3.7	6.6
1998	112.2	53.9	457.3	161.3	296.0	39.5	36.2	3.3	398.3	118.1	280.2	19.6	7.0	12.5
1999	133.7	69.8	591.0	231.1	359.9	53.8	46.7	7.2	509.4	174.2	335.2	27.8	10.3	17.5
2000	132.0	85.3	723.0	316.4	406.6	69.4	61.6	7.8	620.0	241.8	378.2	33.6	13.0	20.6

Notes

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

The emission function for "Long" banking times has been changed 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 (99%) of the HFC-134a in closed cell foams was used to blow expanded 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. aerosols) is the same as in previous reports (50% emitted in the year of manufacture and 100% the year after).

The emission function for "Medium" banking time (predominantly refrigeration) is the same as in previous reports (normally distributed about a mean 4.5 year service lifetime).