

Table 5: Production and Atmospheric Release
CFC-115 (thousand metric tonnes)

Expanded Data

Reporting Companies only

(thousand metric tonnes)

	Cumulative														
	Annual		Total			Short Banking Times			Long Banking Times			Other			
	Production	Released	Production	Released	Unreleased	Sales	Released	Unreleased	Sales	Released	Unreleased	Sales	Released	Unreleased	
1934	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
1935	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
1936	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
1937	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
1938	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
1939	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
1940	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
1941	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
1942	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
1943	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
1944	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
1945	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
1946	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
1947	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
1948	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
1949	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
1950	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
1951	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
1952	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
1953	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
1954	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
1955	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
1956	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
1957	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
1958	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
1959	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
1960	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
1961	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
1962	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
1963	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
1964	0.9	0.1	0.9	0.1	0.8	0.0	0.0	0.0	0.9	0.1	0.8	0.0	0.0	0.0	
1965	1.1	0.2	2.0	0.2	1.8	0.0	0.0	0.0	2.0	0.2	1.8	0.0	0.0	0.0	
1966	1.2	0.3	3.2	0.6	2.7	0.0	0.0	0.0	3.2	0.5	2.7	0.0	0.0	0.0	
1967	1.4	0.6	4.7	1.1	3.5	0.0	0.0	0.0	4.6	1.1	3.5	0.0	0.0	0.0	
1968	1.7	0.8	6.4	2.0	4.4	0.0	0.0	0.0	6.3	1.9	4.4	0.0	0.0	0.0	
1969	2.0	1.1	8.4	3.1	5.3	0.0	0.0	0.0	8.3	3.0	5.3	0.0	0.0	0.0	
1970	2.3	1.4	10.7	4.4	6.3	0.0	0.0	0.0	10.6	4.3	6.3	0.0	0.0	0.0	
1971	2.6	1.6	13.4	6.1	7.3	0.0	0.0	0.0	13.2	5.9	7.3	0.0	0.0	0.0	
1972	3.1	1.9	16.5	8.0	8.5	0.0	0.0	0.0	16.3	7.8	8.5	0.0	0.0	0.0	
1973	3.6	2.2	20.2	10.2	9.9	0.0	0.0	0.0	19.9	10.0	9.9	0.0	0.0	0.0	
1974	4.3	2.6	24.4	12.8	11.6	0.0	0.0	0.0	24.1	12.5	11.6	0.0	0.0	0.0	

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	Annual		Cumulative											
			Total			Short Banking Times			Long Banking Times			Other		
	Production	Released	Production	Released	Unreleased	Sales	Released	Unreleased	Sales	Released	Unreleased	Sales	Released	Unreleased
1975	4.9	3.0	29.3	15.9	13.4	0.0	0.0	0.0	28.9	15.5	13.4	0.0	0.0	0.0
1976	5.7	3.5	34.9	19.4	15.5	0.0	0.0	0.0	34.5	18.9	15.5	0.0	0.0	0.0
1977	6.6	4.1	41.5	23.5	18.0	0.0	0.0	0.0	41.0	22.9	18.0	0.0	0.0	0.0
1978	7.7	4.8	49.2	28.2	21.0	0.0	0.0	0.0	48.6	27.6	21.0	0.0	0.0	0.0
1979	9.0	5.5	58.2	33.8	24.5	0.0	0.0	0.0	57.5	33.0	24.5	0.0	0.0	0.0
1980	9.5	6.3	67.7	40.1	27.6	0.0	0.0	0.0	66.8	39.2	27.6	0.0	0.0	0.0
1981	10.1	7.2	77.8	47.3	30.5	0.0	0.0	0.0	76.8	46.3	30.5	0.0	0.0	0.0
1982	10.5	8.1	88.3	55.4	32.9	0.0	0.0	0.0	87.1	54.2	32.9	0.0	0.0	0.0
1983	11.8	8.9	100.1	64.4	35.7	0.0	0.0	0.0	98.7	63.0	35.7	0.0	0.0	0.0
1984	11.4	9.6	111.4	74.0	37.4	0.0	0.0	0.0	110.0	72.5	37.4	0.0	0.0	0.0
1985	10.2	10.1	121.6	84.1	37.5	0.0	0.0	0.0	120.0	82.5	37.5	0.0	0.0	0.0
1986	12.0	10.6	133.6	94.8	38.8	0.0	0.0	0.0	131.8	93.0	38.8	0.0	0.0	0.0
1987	12.9	11.0	146.5	105.8	40.7	0.0	0.0	0.0	144.6	103.9	40.7	0.0	0.0	0.0
1988	13.7	11.4	160.2	117.2	43.0	0.0	0.0	0.0	158.1	115.1	43.0	0.0	0.0	0.0
1989	14.4	11.9	174.6	129.1	45.5	0.0	0.0	0.0	172.3	126.8	45.5	0.0	0.0	0.0
1990	11.5	12.2	186.1	141.3	44.8	0.0	0.0	0.0	183.7	138.9	44.8	0.0	0.0	0.0
1991	12.4	12.6	198.6	154.0	44.6	0.0	0.0	0.0	196.0	151.3	44.6	0.0	0.0	0.0
1992	10.9	12.7	209.4	166.7	42.7	0.0	0.0	0.0	206.7	163.9	42.8	0.0	0.0	0.0
1993	11.6	12.6	221.0	179.3	41.7	0.0	0.0	0.0	218.1	176.3	41.7	0.0	0.0	0.0
1994	6.9	11.9	227.9	191.2	36.7	0.0	0.0	0.0	224.9	188.2	36.7	0.0	0.0	0.0
1995	3.7	10.9	231.6	202.1	29.5	0.0	0.0	0.0	228.6	199.0	29.5	0.0	0.0	0.0
1996	2.0	9.5	233.6	211.6	22.0	0.0	0.0	0.0	230.6	208.5	22.1	0.0	0.0	0.0
1997	0.8	7.8	234.5	219.4	15.1	0.0	0.0	0.0	231.4	216.3	15.2	0.0	0.0	0.0
1998	0.9	6.0	235.4	225.3	10.1	0.0	0.0	0.0	232.3	222.2	10.1	0.0	0.0	0.0
1999	0.4	4.2	235.8	229.5	6.3	0.0	0.0	0.0	232.7	226.4	6.4	0.0	0.0	0.0
2000	0.2	2.7	236.0	232.2	3.8	0.0	0.0	0.0	233.0	229.1	3.9	0.0	0.0	0.0
2001	0.2	1.6	236.3	233.8	2.4	0.0	0.0	0.0	233.2	230.7	2.5	0.0	0.0	0.0
2002	0.1	1.0	236.4	234.8	1.6	0.0	0.0	0.0	233.3	231.7	1.6	0.0	0.0	0.0
2003	0.0	0.6	236.4	235.4	1.0	0.0	0.0	0.0	233.4	232.3	1.0	0.0	0.0	0.0

Notes

The total CFC production reported to AFEAS in 2003 represented 16% of global CFC production and is falling. From now on emissions of CFC-115 will not be calculated.

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

The emission functions for CFC-115 remain the same as in previous AFEAS compilations:

Half of the sales into "Short Banking Times" and "Others" are released in the year of manufacture and half in the year following;

Releases from "Long Banking Times" (predominantly refrigeration) are distributed normally about a 4.5 year mean, with a total service lifetime of 10 years.

In previous compilations, fugitive emissions of CFC-115 arising during production were counted and reported in the *Short Banking Times* category and in *Annual and Total Released*.

However, the reported *Production* did not include this quantity of material. This has now been rectified and, in this compilation, the *Annual and Cumulative Production* reported for all years includes the quantities released from the production process. **This does not affect the historical record of releases.**