

Table 4 Production and Atmospheric Release
CFC-114 (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	2.6	0.1	2.6	0.1	2.5	0.0	0.0	0.0	2.6	0.1	2.5	0.0	0.0	0.0	
1935	2.7	0.1	5.3	0.2	5.2	0.0	0.0	0.0	5.3	0.1	5.2	0.0	0.0	0.0	
1936	2.8	0.1	8.1	0.3	7.9	0.0	0.0	0.0	8.1	0.2	7.9	0.0	0.0	0.0	
1937	2.9	0.1	11.0	0.4	10.7	0.0	0.0	0.0	11.0	0.3	10.7	0.0	0.0	0.0	
1938	3.0	0.2	14.0	0.6	13.5	0.0	0.0	0.0	14.0	0.5	13.5	0.0	0.0	0.0	
1939	3.1	0.3	17.1	0.9	16.4	0.0	0.0	0.0	17.1	0.7	16.4	0.0	0.0	0.0	
1940	3.3	0.4	20.4	1.3	19.4	0.0	0.0	0.0	20.4	1.0	19.4	0.0	0.0	0.0	
1941	3.4	0.5	23.8	1.8	22.3	0.0	0.0	0.0	23.8	1.5	22.3	0.0	0.0	0.0	
1942	3.5	0.7	27.3	2.5	25.1	0.0	0.0	0.0	27.3	2.2	25.1	0.0	0.0	0.0	
1943	3.7	1.0	31.0	3.5	27.9	0.0	0.0	0.0	31.0	3.1	27.9	0.0	0.0	0.0	
1944	3.8	1.2	34.8	4.7	30.5	0.0	0.0	0.0	34.8	4.3	30.5	0.0	0.0	0.0	
1935	2.7	0.1	5.3	0.2	5.2	0.0	0.0	0.0	5.3	0.1	5.2	0.0	0.0	0.0	
1936	2.8	0.1	8.1	0.3	7.9	0.0	0.0	0.0	8.1	0.2	7.9	0.0	0.0	0.0	
1937	2.9	0.1	11.0	0.4	10.7	0.0	0.0	0.0	11.0	0.3	10.7	0.0	0.0	0.0	
1938	3.0	0.2	14.0	0.6	13.5	0.0	0.0	0.0	14.0	0.5	13.5	0.0	0.0	0.0	
1939	3.1	0.3	17.1	0.9	16.4	0.0	0.0	0.0	17.1	0.7	16.4	0.0	0.0	0.0	
1940	3.3	0.4	20.4	1.3	19.4	0.0	0.0	0.0	20.4	1.0	19.4	0.0	0.0	0.0	
1951	5.0	7.1	66.0	46.0	20.9	28.0	25.8	2.2	38.0	19.3	18.6	0.0	0.0	0.0	
1952	5.2	7.3	71.2	53.3	18.9	32.7	30.3	2.3	38.5	22.0	16.5	0.0	0.0	0.0	
1953	5.4	7.4	76.6	60.7	16.9	37.5	35.1	2.4	39.1	24.6	14.5	0.0	0.0	0.0	
1954	5.6	7.4	82.2	68.1	15.2	42.6	40.0	2.5	39.6	27.0	12.6	0.0	0.0	0.0	
1955	5.8	7.4	88.0	75.5	13.6	47.8	45.2	2.6	40.2	29.2	11.0	0.0	0.0	0.0	
1956	6.0	7.3	94.0	82.8	12.4	53.1	50.5	2.7	40.9	31.1	9.7	0.0	0.0	0.0	
1957	6.3	7.2	100.3	90.1	11.5	58.8	56.0	2.8	41.5	32.8	8.7	0.0	0.0	0.0	
1958	6.5	7.2	106.8	97.3	10.9	64.6	61.7	2.9	42.2	34.2	8.0	0.0	0.0	0.0	
1959	6.7	7.2	113.5	104.5	10.5	70.7	67.6	3.0	42.8	35.3	7.5	0.0	0.0	0.0	
1960	7.0	7.2	120.5	111.7	10.4	76.9	73.8	3.1	43.6	36.3	7.2	0.0	0.0	0.0	
1961	7.3	7.3	127.8	119.0	10.4	83.5	80.2	3.3	44.3	37.1	7.2	0.0	0.0	0.0	
1962	7.6	7.5	135.4	126.6	10.6	90.3	86.9	3.4	45.1	37.9	7.2	0.0	0.0	0.0	
1963	7.8	7.7	143.2	134.2	10.8	97.3	93.8	3.5	45.9	38.6	7.3	0.0	0.0	0.0	
1964	8.1	7.8	151.3	142.0	11.2	104.6	101.0	3.6	46.7	39.1	7.6	0.0	0.0	0.0	
1965	8.4	8.1	159.7	150.1	11.7	112.1	108.4	3.8	47.6	39.7	7.9	0.0	0.0	0.0	
1966	8.8	8.4	168.5	158.5	12.1	120.0	116.1	4.0	48.5	40.3	8.2	0.0	0.0	0.0	
1967	9.1	8.8	177.6	167.3	12.6	128.2	124.1	4.1	49.4	40.9	8.5	0.0	0.0	0.0	

1968	9.5	9.1	187.1	176.4	13.1	136.7	132.5	4.3	50.4	41.5	8.8	0.0	0.0	0.0
1969	9.9	9.5	197.0	185.9	13.6	145.6	141.2	4.4	51.4	42.2	9.2	0.0	0.0	0.0
1970	10.2	9.8	207.2	195.8	14.1	154.8	150.2	4.6	52.4	42.9	9.5	0.0	0.0	0.0
1971	10.6	10.2	217.8	206.0	14.7	164.3	159.5	4.8	53.5	43.6	9.9	0.0	0.0	0.0
1972	11.1	10.6	228.9	216.6	15.3	174.3	169.3	5.0	54.6	44.4	10.3	0.0	0.0	0.0
1973	11.5	11.1	240.4	227.7	15.9	184.6	179.4	5.2	55.8	45.1	10.7	0.0	0.0	0.0
1974	11.9	11.5	252.3	239.1	16.4	195.3	189.9	5.3	57.0	45.9	11.1	0.0	0.0	0.0
1975	12.4	11.9	264.7	251.0	17.1	206.4	200.8	5.6	58.3	46.8	11.5	0.0	0.0	0.0
1976	12.9	12.4	277.6	263.4	17.8	218.0	212.2	5.8	59.6	47.6	12.0	0.0	0.0	0.0
1977	13.4	12.9	291.0	276.3	18.5	230.0	224.0	6.0	61.0	48.5	12.5	0.0	0.0	0.0
1978	13.9	13.4	304.9	289.7	19.2	242.5	236.2	6.2	62.4	49.5	12.9	0.0	0.0	0.0
1979	14.4	13.9	319.3	303.5	19.9	255.4	248.9	6.5	63.9	50.4	13.4	0.0	0.0	0.0
1980	15.0	14.4	334.3	317.9	20.7	268.9	262.1	6.7	65.4	51.5	14.0	0.0	0.0	0.0
1981	14.0	14.2	348.3	332.2	20.7	281.4	275.2	6.3	66.9	52.5	14.4	0.0	0.0	0.0
1982	13.6	13.7	361.9	345.9	20.7	293.7	287.6	6.1	68.2	53.6	14.6	0.0	0.0	0.0
1983	14.8	14.1	376.7	359.9	21.6	307.0	300.3	6.6	69.7	54.7	15.0	0.0	0.0	0.0
1984	15.6	15.1	392.2	375.0	22.3	321.1	314.1	7.1	71.1	55.9	15.2	0.0	0.0	0.0
1985	17.1	16.2	409.3	391.2	23.5	336.4	328.8	7.6	72.9	57.1	15.8	0.0	0.0	0.0
1986	19.1	18.0	428.4	409.2	24.8	354.1	345.3	8.9	74.3	58.3	16.0	0.0	0.0	0.0
1987	17.1	18.2	445.5	427.4	23.9	369.8	362.0	7.8	75.7	59.6	16.1	0.0	0.0	0.0
1988	16.5	16.2	462.0	443.6	24.4	383.5	376.6	6.8	78.5	61.0	17.6	0.0	0.0	0.0
1989	15.0	14.5	477.0	458.1	25.1	395.6	389.5	6.1	81.4	62.4	19.0	0.0	0.0	0.0
1990	8.3	10.3	485.3	468.3	23.2	400.9	398.3	2.7	84.3	63.8	20.6	0.0	0.0	0.0
1991	6.7	6.3	491.9	474.7	23.6	405.2	403.1	2.2	86.7	65.2	21.5	0.0	0.0	0.0
1992	4.7	5.2	496.6	479.9	23.2	408.2	406.7	1.5	88.5	66.7	21.7	0.0	0.0	0.0
1993	4.6	4.6	501.2	484.4	23.3	411.2	409.6	1.5	90.0	68.2	21.8	0.0	0.0	0.0
1994	3.2	4.0	504.4	488.4	22.5	413.0	412.0	0.9	91.4	69.8	21.6	0.0	0.0	0.0
1995	3.1	3.1	507.5	491.5	22.6	414.0	413.4	0.5	93.6	71.5	22.1	0.0	0.0	0.0
1996	0.7	2.4	508.3	493.9	20.9	414.4	414.1	0.2	93.9	73.2	20.7	0.0	0.0	0.0
1997	1.2	2.3	509.5	496.3	19.8	415.0	414.7	0.3	94.5	75.0	19.5	0.0	0.0	0.0
1998	1.2	2.7	510.7	499.0	18.3	416.1	415.5	0.6	94.5	76.8	17.7	0.0	0.0	0.0
1999	0.3	2.6	510.9	501.6	16.0	416.4	416.3	0.1	94.6	78.7	15.9	0.0	0.0	0.0
2000	0.5	2.3	511.5	503.9	14.2	416.9	416.6	0.2	94.6	80.6	14.0	0.0	0.0	0.0

Notes

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

The emission functions for CFC-114 remain the same as in previous AFEAS compilations:

Of the sales into "Short Banking Times" (mainly aerosols) and "Other", half are released in the year of manufacture and half in the year following.

Releases from "Long Banking Times" (predominantly heat pumps and similar enclosed systems) are distributed normally about a 10 year service lifetime.