

Table 3 Production and Atmospheric Release
CFC-113 (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	0.8	0.4	0.8	0.4	0.4	0.8	0.4	0.4	0.0	0.0	0.0	0.0	0.0	0.0	
1945	0.9	0.9	1.7	1.3	0.5	1.7	1.3	0.5	0.0	0.0	0.0	0.0	0.0	0.0	
1946	1.0	1.0	2.7	2.2	0.5	2.7	2.2	0.5	0.0	0.0	0.0	0.0	0.0	0.0	
1947	1.2	1.1	3.9	3.4	0.6	3.9	3.3	0.6	0.0	0.0	0.0	0.0	0.0	0.0	
1948	1.3	1.3	5.2	4.6	0.7	5.2	4.6	0.6	0.0	0.0	0.0	0.0	0.0	0.0	
1949	1.5	1.4	6.7	6.0	0.8	6.7	6.0	0.7	0.0	0.0	0.0	0.0	0.0	0.0	
1950	1.8	1.7	8.5	7.7	0.9	8.5	7.6	0.9	0.0	0.0	0.0	0.0	0.0	0.0	
1951	2.0	1.9	10.5	9.6	1.0	10.5	9.5	1.0	0.0	0.0	0.0	0.0	0.0	0.0	
1952	2.3	2.2	12.8	11.8	1.2	12.8	11.7	1.2	0.0	0.0	0.0	0.0	0.0	0.0	
1953	2.6	2.5	15.4	14.3	1.3	15.4	14.1	1.3	0.0	0.0	0.0	0.0	0.0	0.0	
1954	3.0	2.8	18.4	17.1	1.5	18.4	16.9	1.5	0.0	0.0	0.0	0.0	0.0	0.0	
1955	3.5	3.3	21.9	20.4	1.8	21.9	20.2	1.8	0.0	0.0	0.0	0.0	0.0	0.0	
1956	4.0	3.8	25.9	24.2	2.0	25.9	23.9	2.0	0.0	0.0	0.0	0.0	0.0	0.0	
1957	4.5	4.3	30.4	28.5	2.3	30.4	28.2	2.3	0.0	0.0	0.0	0.0	0.0	0.0	
1958	5.2	4.9	35.6	33.5	2.6	35.6	33.0	2.6	0.0	0.0	0.0	0.0	0.0	0.0	
1959	6.0	5.7	41.6	39.1	3.0	41.6	38.6	3.0	0.0	0.0	0.0	0.0	0.0	0.0	
1960	6.9	6.5	48.5	45.6	3.4	48.4	45.0	3.4	0.1	0.0	0.0	0.0	0.0	0.0	
1961	7.8	7.4	56.3	53.0	4.0	56.1	52.2	3.8	0.2	0.0	0.2	0.0	0.0	0.0	
1962	9.0	8.4	65.3	61.4	4.7	65.0	60.5	4.4	0.3	0.0	0.3	0.0	0.0	0.0	
1963	10.3	9.7	75.6	71.0	5.5	75.1	70.1	5.1	0.4	0.0	0.4	0.0	0.0	0.0	
1964	11.8	11.1	87.4	82.1	6.4	86.8	81.0	5.8	0.6	0.0	0.6	0.0	0.0	0.0	
1965	13.5	12.7	100.9	94.8	7.4	100.1	93.4	6.7	0.7	0.0	0.7	0.0	0.0	0.0	
1966	15.5	14.5	116.4	109.3	8.6	115.4	107.7	7.6	1.0	0.0	0.9	0.0	0.0	0.0	
1967	17.7	16.6	134.1	125.9	9.9	132.9	124.1	8.7	1.2	0.1	1.1	0.0	0.0	0.0	
1968	20.3	19.0	154.4	145.0	11.4	152.9	142.9	10.0	1.5	0.1	1.4	0.0	0.0	0.0	
1969	23.2	21.8	177.6	166.8	13.1	175.8	164.3	11.4	1.8	0.1	1.6	0.0	0.0	0.0	

1970	26.6	25.0	204.2	191.7	15.1	202.0	188.9	13.1	2.1	0.2	1.9	0.0	0.0	0.0
1971	30.5	28.6	234.7	220.4	17.3	232.1	217.1	15.0	2.5	0.3	2.3	0.0	0.0	0.0
1972	35.0	32.9	269.7	253.2	19.9	266.7	249.4	17.3	3.0	0.3	2.6	0.0	0.0	0.0
1973	40.0	37.6	309.7	290.9	22.8	306.1	286.4	19.7	3.5	0.5	3.1	0.0	0.0	0.0
1974	45.9	43.1	355.6	334.0	26.2	351.4	328.8	22.6	4.1	0.6	3.5	0.0	0.0	0.0
1975	52.6	49.4	408.2	383.4	30.0	403.3	377.4	25.9	4.8	0.8	4.1	0.0	0.0	0.0
1976	60.2	56.6	468.4	440.1	34.4	462.7	433.0	29.7	5.6	1.0	4.7	0.0	0.0	0.0
1977	69.0	64.9	537.4	504.9	39.4	530.8	496.8	34.0	6.6	1.2	5.4	0.0	0.0	0.0
1978	79.0	74.3	616.4	579.2	45.1	608.7	569.8	39.0	7.6	1.5	6.2	0.0	0.0	0.0
1979	90.5	85.1	706.9	664.3	51.7	698.0	653.4	44.6	8.8	1.8	7.1	0.0	0.0	0.0
1980	103.7	97.5	810.5	761.8	59.2	800.3	749.2	51.1	10.2	2.1	8.1	0.0	0.0	0.0
1981	108.5	106.4	919.1	868.3	62.7	907.3	853.8	53.5	11.8	2.5	9.2	0.0	0.0	0.0
1982	113.0	111.1	1032.0	979.3	66.1	1018.6	962.9	55.6	13.5	3.0	10.5	0.0	0.0	0.0
1983	132.7	123.3	1164.8	1102.6	77.3	1149.3	1083.9	65.4	15.5	3.5	12.0	0.0	0.0	0.0
1984	171.1	152.5	1335.9	1255.1	98.2	1317.9	1233.6	84.3	18.0	4.1	13.9	0.0	0.0	0.0
1985	187.0	179.8	1522.9	1434.9	107.8	1502.7	1410.3	92.4	20.2	4.8	15.4	0.0	0.0	0.0
1986	196.6	193.1	1719.5	1628.0	113.9	1697.4	1600.0	97.4	22.1	5.6	16.6	0.0	0.0	0.0
1987	225.8	213.1	1945.3	1841.0	129.6	1921.2	1809.3	111.9	24.2	6.4	17.7	0.0	0.0	0.0
1988	247.4	238.7	2192.8	2079.7	141.6	2166.3	2043.7	122.6	26.5	7.4	19.0	0.0	0.0	0.0
1989	251.3	251.5	2444.1	2331.2	144.7	2415.5	2290.9	124.6	28.6	8.5	20.1	0.0	0.0	0.0
1990	174.8	214.7	2618.9	2546.0	107.0	2588.8	2502.1	86.6	30.1	9.8	20.4	0.0	0.0	0.0
1991	147.6	163.1	2766.5	2709.1	93.4	2735.2	2662.0	73.2	31.4	11.1	20.2	0.0	0.0	0.0
1992	107.5	128.3	2874.0	2837.4	74.0	2839.6	2787.4	52.2	34.4	12.6	21.8	0.0	0.0	0.0
1993	48.0	78.0	2922.1	2915.4	44.6	2886.8	2863.2	23.6	35.3	14.2	21.1	0.0	0.0	0.0
1994	29.5	40.2	2951.6	2955.6	34.4	2915.8	2901.3	14.5	35.8	15.9	19.9	0.0	0.0	0.0
1995	23.3	28.1	2975.0	2983.7	29.9	2938.9	2927.3	11.5	36.1	17.7	18.4	0.0	0.0	0.0
1996	6.0	16.2	2981.0	3000.0	19.8	2944.4	2941.7	2.8	36.5	19.5	17.0	0.0	0.0	0.0
1997	3.0	6.2	2984.0	3006.1	16.6	2947.4	2945.9	1.5	36.5	21.4	15.1	0.0	0.0	0.0
1998	1.6	4.2	2985.6	3010.3	14.1	2949.0	2948.2	0.8	36.5	23.2	13.3	0.0	0.0	0.0
1999	1.0	3.1	2986.6	3013.4	12.0	2950.0	2949.5	0.5	36.5	25.1	11.5	0.0	0.0	0.0
2000	0.9	2.7	2987.5	3016.1	10.2	2950.9	2950.5	0.4	36.6	26.8	9.8	0.0	0.0	0.0

Notes

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

The emission functions for CFC-113 remain the same as in previous AFEAS compilations:

Of the sales into "Short Banking Times" (mainly solvents) 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.