

Table 6 Production and Atmospheric Release
HCFC-22 (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	
1943	0.1	0.0	0.1	0.0	0.1	0.0	0.0	0.0	0.1	0.0	0.1	0.0	0.0	0.0	
1944	0.1	0.1	0.2	0.1	0.1	0.0	0.0	0.0	0.2	0.1	0.1	0.0	0.0	0.0	
1945	0.1	0.1	0.3	0.2	0.2	0.0	0.0	0.0	0.3	0.1	0.2	0.0	0.0	0.0	
1946	0.1	0.1	0.4	0.2	0.2	0.0	0.0	0.0	0.4	0.2	0.2	0.0	0.0	0.0	
1947	0.1	0.1	0.5	0.3	0.2	0.0	0.0	0.0	0.5	0.3	0.2	0.0	0.0	0.0	
1948	0.2	0.1	0.7	0.4	0.3	0.0	0.0	0.0	0.7	0.4	0.3	0.0	0.0	0.0	
1949	0.3	0.2	1.0	0.6	0.4	0.0	0.0	0.0	1.0	0.5	0.4	0.0	0.0	0.0	
1950	0.8	0.4	1.8	1.0	0.8	0.1	0.1	0.0	1.7	0.9	0.8	0.0	0.0	0.0	
1951	1.0	0.5	2.8	1.5	1.3	0.1	0.1	0.0	2.7	1.4	1.3	0.0	0.0	0.0	
1952	1.6	0.8	4.4	2.4	2.0	0.2	0.2	0.0	4.2	2.2	2.0	0.0	0.0	0.0	
1953	2.2	1.2	6.5	3.6	3.0	0.3	0.3	0.0	6.2	3.3	3.0	0.0	0.0	0.0	
1954	2.9	1.7	9.4	5.2	4.2	0.4	0.4	0.0	9.0	4.8	4.2	0.0	0.0	0.0	
1955	3.7	2.2	13.2	7.4	5.8	0.6	0.6	0.0	12.6	6.8	5.7	0.0	0.0	0.0	
1956	6.1	3.4	19.2	10.8	8.4	0.9	0.8	0.0	18.4	10.0	8.4	0.0	0.0	0.0	
1957	6.3	4.0	25.5	14.8	10.8	1.2	1.1	0.0	24.4	13.7	10.7	0.0	0.0	0.0	
1958	7.6	4.9	33.1	19.6	13.5	1.5	1.4	0.1	31.6	18.2	13.4	0.0	0.0	0.0	
1959	11.2	6.9	44.4	26.5	17.9	2.0	1.9	0.1	42.3	24.6	17.8	0.0	0.0	0.0	
1960	12.2	8.1	56.5	34.6	22.0	2.6	2.5	0.1	53.9	32.1	21.8	0.0	0.0	0.0	
1961	12.2	8.7	68.7	43.3	25.4	3.1	3.0	0.1	65.5	40.3	25.2	0.1	0.0	0.0	
1962	15.4	10.8	84.1	54.1	30.1	3.8	3.7	0.1	80.2	50.3	29.9	0.1	0.0	0.1	
1963	17.6	12.6	101.7	66.7	35.0	4.6	4.5	0.1	97.0	62.2	34.8	0.1	0.0	0.1	
1964	22.4	15.5	124.0	82.2	41.9	5.6	5.5	0.2	118.3	76.7	41.6	0.1	0.0	0.1	
1965	25.1	18.0	149.1	100.2	49.0	6.8	6.6	0.2	142.2	93.6	48.7	0.1	0.0	0.1	
1966	31.5	21.9	180.6	122.0	58.6	8.2	8.0	0.2	172.3	114.0	58.2	0.1	0.0	0.1	
1967	37.3	26.0	218.0	148.1	69.9	9.9	9.6	0.3	207.9	138.4	69.5	0.2	0.0	0.1	
1968	46.0	31.6	264.0	179.6	84.4	12.0	11.6	0.4	251.8	167.9	83.8	0.2	0.0	0.2	
1969	56.1	38.2	320.1	217.8	102.3	14.6	14.1	0.4	305.3	203.6	101.6	0.2	0.0	0.2	
1970	56.1	41.4	376.1	259.2	116.9	17.1	16.7	0.4	358.8	242.5	116.2	0.3	0.0	0.2	
1971	60.6	45.8	436.7	305.1	131.7	19.9	19.4	0.5	416.5	285.6	130.9	0.3	0.0	0.3	
1972	63.3	50.1	500.0	355.2	144.8	22.7	22.2	0.5	476.9	332.9	144.0	0.4	0.0	0.3	
1973	74.3	57.5	574.3	412.7	161.7	26.1	25.5	0.6	547.8	387.1	160.7	0.4	0.1	0.4	
1974	83.4	65.0	657.7	477.6	180.1	29.9	29.3	0.6	627.3	448.3	179.0	0.5	0.1	0.4	
1975	75.0	65.7	732.7	543.3	189.4	33.3	32.7	0.6	698.8	510.5	188.4	0.5	0.1	0.5	
1976	90.7	74.0	823.4	617.3	206.1	37.4	36.7	0.7	785.4	580.5	204.9	0.6	0.1	0.5	

1977	101.4	82.4	924.8	699.7	225.0	42.0	41.3	0.8	882.0	658.4	223.7	0.7	0.1	0.6
1978	111.7	90.1	1036.4	789.8	246.6	47.1	46.3	0.9	988.6	743.5	245.1	0.8	0.1	0.6
1979	117.9	96.7	1154.3	886.5	267.8	52.5	51.6	0.9	1101.0	834.8	266.2	0.8	0.1	0.7
1980	126.3	104.3	1280.6	990.8	289.8	58.2	57.2	1.0	1221.5	933.4	288.1	0.9	0.2	0.8
1981	130.8	110.3	1411.5	1101.1	310.3	64.2	63.2	1.0	1346.2	1037.8	308.4	1.0	0.2	0.9
1982	123.6	111.9	1535.1	1213.0	322.1	70.0	69.0	1.0	1463.9	1143.8	320.1	1.2	0.2	1.0
1983	143.9	122.8	1679.0	1335.8	343.2	76.8	75.6	1.2	1600.9	1260.0	340.9	1.3	0.2	1.1
1984	152.4	131.8	1831.3	1467.6	363.7	84.5	83.2	1.3	1745.4	1384.1	361.2	1.4	0.2	1.2
1985	153.4	137.2	1984.7	1604.8	379.9	93.1	91.6	1.5	1890.1	1512.9	377.2	1.6	0.3	1.3
1986	165.0	145.6	2149.7	1750.4	399.4	102.0	100.5	1.5	2046.0	1649.6	396.4	1.7	0.3	1.4
1987	173.3	153.7	2323.0	1904.0	419.0	111.9	110.2	1.7	2209.2	1793.4	415.8	1.9	0.4	1.6
1988	203.5	171.4	2526.6	2075.4	451.1	127.9	125.2	2.7	2396.5	1949.8	446.6	2.2	0.4	1.8
1989	219.5	188.7	2746.1	2264.2	481.9	153.1	148.8	4.3	2590.6	2114.9	475.7	2.5	0.4	2.0
1990	213.7	195.2	2959.8	2459.4	500.5	184.1	178.8	5.3	2771.4	2280.0	491.4	4.3	0.5	3.8
1991	236.8	204.3	3196.6	2663.7	532.9	211.2	206.6	4.6	2973.4	2456.3	517.1	12.0	0.8	11.3
1992	245.7	214.8	3442.4	2878.5	563.9	241.5	236.4	5.1	3180.2	2641.0	539.2	20.7	1.2	19.5
1993	240.6	212.7	3683.0	3091.3	591.7	264.3	260.4	3.9	3384.5	2829.0	555.5	34.2	1.9	32.4
1994	239.4	218.9	3922.4	3310.1	612.3	289.1	284.9	4.2	3592.0	3022.5	569.5	41.3	2.7	38.6
1995	243.5	224.7	4165.9	3534.8	631.1	316.9	312.2	4.7	3795.2	3218.9	576.3	53.8	3.8	50.0
1996	271.2	242.0	4437.1	3776.8	660.4	349.7	344.1	5.6	4025.6	3427.6	597.9	61.9	5.0	56.9
1997	251.1	235.0	4688.2	4011.8	676.5	366.3	363.5	2.8	4256.2	3642.0	614.2	65.7	6.3	59.4
1998	261.2	232.9	4949.4	4244.7	704.7	375.5	373.9	1.6	4497.4	3862.9	634.5	76.6	7.9	68.7
1999	252.4	234.4	5201.8	4479.1	722.7	387.6	385.6	2.1	4729.0	4084.0	645.0	85.2	9.6	75.6
2000	243.8	235.6	5445.6	4714.7	730.9	402.2	399.7	2.5	4950.5	4303.6	646.9	93.0	11.4	81.6

Notes

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

The emission functions for HCFC-22 remain the same as in previous AFEAS compilations:

Of the sales into "Short Banking Times" (mainly open cell foam), 83% are released in the year of manufacture and the remainder in the year following.

Releases from "Medium Banking Times" (predominantly refrigeration) are distributed normally about a 4.5 year service lifetime following a 30% initial loss.

Material in "Long Banking Times" applications is released at the rate of 2%/year.