

Table 8: Production and Atmospheric Release
HCFC-141b (thousand metric tonnes)

Expanded Data

Reporting Companies only

(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 | 0.1 | 0.0 | 0.1 | 0.0 | 0.1 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.1 | 0.0 | 0.1 |
| 1991 | 1.5 | 0.4 | 1.6 | 0.4 | 1.2 | 0.3 | 0.2 | 0.0 | 0.0 | 0.0 | 0.0 | 1.3 | 0.2 | 1.1 |
| 1992 | 13.3 | 3.9 | 14.9 | 4.4 | 10.5 | 3.0 | 2.5 | 0.5 | 0.1 | 0.0 | 0.0 | 11.9 | 1.8 | 10.0 |
| 1993 | 43.3 | 13.1 | 58.2 | 17.4 | 40.7 | 11.1 | 9.7 | 1.4 | 0.5 | 0.2 | 0.3 | 46.5 | 7.5 | 39.0 |
| 1994 | 81.2 | 24.8 | 139.4 | 42.3 | 97.1 | 24.5 | 22.2 | 2.3 | 1.1 | 0.5 | 0.6 | 113.8 | 19.6 | 94.2 |
| 1995 | 113.2 | 36.6 | 252.5 | 78.9 | 173.6 | 42.4 | 39.4 | 3.0 | 2.0 | 0.9 | 1.1 | 208.1 | 38.6 | 169.5 |
| 1996 | 121.1 | 42.9 | 373.6 | 121.9 | 251.8 | 56.1 | 53.7 | 2.3 | 15.8 | 6.3 | 9.5 | 301.8 | 61.8 | 240.0 |
| 1997 | 122.4 | 44.4 | 496.0 | 166.3 | 329.7 | 68.8 | 66.6 | 2.2 | 16.4 | 8.2 | 8.2 | 410.9 | 91.5 | 319.3 |
| 1998 | 129.0 | 50.8 | 625.0 | 217.1 | 407.9 | 83.7 | 81.2 | 2.5 | 16.9 | 9.3 | 7.7 | 524.4 | 126.7 | 397.7 |
| 1999 | 130.4 | 55.3 | 755.4 | 272.5 | 483.0 | 96.4 | 94.3 | 2.2 | 16.9 | 10.5 | 6.5 | 642.1 | 167.7 | 474.4 |
| 2000 | 132.5 | 59.0 | 887.9 | 331.4 | 556.5 | 107.0 | 105.2 | 1.8 | 16.9 | 11.7 | 5.3 | 763.9 | 214.5 | 549.4 |
| 2001 | 121.8 | 63.7 | 1009.7 | 395.2 | 614.5 | 119.5 | 117.4 | 2.1 | 17.0 | 12.7 | 4.2 | 873.2 | 265.1 | 608.1 |
| 2002 | 116.7 | 67.7 | 1126.3 | 462.8 | 663.5 | 130.7 | 128.8 | 1.9 | 17.0 | 14.2 | 2.8 | 978.7 | 319.9 | 658.8 |
| 2003 | 74.6 | 63.2 | 1200.9 | 526.0 | 674.9 | 137.5 | 136.3 | 1.2 | 19.5 | 16.2 | 3.2 | 1044.0 | 373.5 | 670.5 |

Notes

In previous reports, from 1996 to 2002 fugitive emissions were incorrectly calculated. This has now been rectified with small changes to the data for the years identified in red.

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

The emission functions for HCFC-141b 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) have an initial loss of 30%, with the remainder normally distributed about a mean of 4.5 years and a total service lifetime of 10 years.

Material in "Long Banking Times" applications (mainly closed cell foams) is released at the rate of 10% in the first year and 4.5%/yr thereafter.