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Rothamsted Experimental Station Report for 1987

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Rothamsted Weather 1985-87

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ROTHAMSTED WEATHER 1986-87

Latitude 51° 48' 30" N; Longitude 0° 21' 10" W; Altitude 128 m

| | 1986 | 1987 | Jan | Feb | Mar | Apr | May | June | July | Aug | Sept | Oct | Nov | Dec | Year |
|--|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
| TEMPERATURE (°C) | | | | | | | | | | | | | | | |
| Mean screen maximum | 15.0 | 10.5 | 8.4 | 6.3 | 6.9 | 14.5 | 14.2 | 16.8 | 19.9 | 20.3 | 17.4 | 13.4 | 8.3 | 7.5 | 12.3 |
| Difference from average | +1.1 | +1.5 | +1.6 | +0.3 | -2.0 | +2.5 | -1.6 | -2.2 | -0.6 | -0.1 | -0.5 | -0.5 | -0.7 | +0.7 | -0.7 |
| Mean screen minimum | 7.2 | 4.1 | 2.3 | -0.1 | 0.1 | 5.5 | 5.0 | 8.6 | 11.0 | 10.5 | 9.3 | 6.0 | 3.3 | 3.0 | 5.0 |
| Difference from average | +0.7 | +1.2 | +1.0 | -0.3 | -1.3 | +2.1 | -1.3 | -0.4 | +0.1 | -0.4 | +0.1 | -0.5 | +0.4 | +1.7 | -0.2 |
| Soil at 10 cm. | 10.0 | 6.6 | 4.3 | 2.5 | 3.0 | 8.9 | 10.6 | 13.9 | 17.0 | 15.6 | 13.4 | 8.7 | 5.5 | 4.6 | 8.7 |
| Dew point | 9.0 | 5.9 | 3.1 | 1.5 | 1.1 | 7.1 | 6.2 | 10.2 | 12.3 | 12.6 | 10.8 | 8.0 | 4.6 | 3.9 | 6.3 |
| No. of days with ground frost | 7 | 15 | 21 | 18 | 23 | 14 | 11 | 4 | 0 | 1 | 4 | 14 | 14 | 15 | 143 |
| RADIATION | | | | | | | | | | | | | | | |
| Sunshine (h per month) | 121 | 68 | 53 | 58 | 95 | 147 | 195 | 120 | 174 | 149 | 142 | 124 | 44 | 29 | 1338 |
| Difference from average | +21 | +6 | +8 | -4 | -13 | +8 | +6 | -77 | -7 | -18 | +2 | +24 | -18 | -17 | -103 |
| Mean daily radiation (MJ m ⁻² day ⁻¹) | 6.6 | 3.0 | 1.9 | 4.4 | 7.9 | 12.8 | 16.4 | 14.6 | 15.3 | 13.6 | 10.0 | 6.1 | 2.5 | 1.4 | 8.9 |
| Difference from average | +1.0 | +0.2 | +0.2 | +0.3 | +0.3 | +1.1 | +0.9 | -2.9 | -0.6 | +0.3 | +0.1 | +0.4 | -0.3 | -0.3 | -0.4 |
| WIND (km day⁻¹) | | | | | | | | | | | | | | | |
| Wind run at 2 m | 191 | 234 | 303 | 191 | 249 | 187 | 189 | 128 | 129 | 113 | 130 | 153 | 180 | 226 | 172 |
| WATER (mm per month) | | | | | | | | | | | | | | | |
| Rainfall (5 inch walled gauge) | 88 | 85 | 82 | 28 | 56 | 47 | 64 | 90 | 61 | 60 | 40 | 199 | 59 | 29 | 748 |
| Difference from average | +28 | +16 | +13 | -24 | +4 | 0 | +12 | +32 | +10 | -1 | -19 | +139 | -10 | -39 | +56 |
| Rain days | 14 | 22 | 18 | | | | | | | | | | | | |
| Drainage through 50 cm Bank undisturbed soil | 48 | 92 | 62 | 15 | 34 | 32 | 5 | 37 | 21 | 18 | 6 | 157 | 50 | 23 | 414 |
| Open water (tank) evaporation | 52 | 15 | 13 | 0 | 33 | 55 | 80 | 63 | 108 | 105 | 62 | 42 | 13 | 9 | 578 |
| Potential evaporation | 19 | 1 | 4 | 7 | 26 | 55 | 74 | 71 | 79 | 69 | 42 | 15 | 1 | 0 | 440 |

NOTES ON THE TABLE

1. Except for potential evaporation, all quantities are measured.
2. Drainage and evaporation are measured in inches.
3. Averages are for 30 years 1951-80, except radiation—1956-85.