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ROTHAMSTED  
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## Report for 1979 - Part 1

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### Weather Tables Rothamsted

#### Rothamsted Research

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ROTHAMSTED WEATHER 1978-79

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

|               | Temperature (°C) |                 |                  |               |                  | Radiation         |   | Wind<br>Run at 2 m<br>km day <sup>-1</sup> | Rain       | Water (mm)   |                       |               |               |
|---------------|------------------|-----------------|------------------|---------------|------------------|-------------------|---|--|------------|--------------|-----------------------|---------------|---------------|
|               | Mean<br>maximum  | Mean<br>minimum | Soil at<br>10 cm | Dew-<br>point | Ground<br>frosts | Sunshine<br>hours | MJ<br>m <sup>-2</sup> day <sup>-1</sup> |  |            | Rain<br>days | Drainage<br>bare soil | Open<br>water | Pot.<br>trans |
| 1978          |                  |                 |                  |               |                  |                   |   |  |            |              |                       |               |               |
| October       | 15.7             | 7.4             | 10.0             | 9.0           | 8                | 102               | 6.1                                     | 158  | 5          | 8            | —                     | 41            | 23            |
| November      | 11.2             | 4.8             | 7.3              | 6.1           | 10               | 87                | 3.8                                     | 239  | 21         | 10           | —                     | 17            | 9             |
| December      | 6.4              | 1.1             | 3.5              | 2.2           | 17               | 36                | 1.8                                     | 253  | 128        | 23           | 108                   | 5             | 1             |
| 1979          |                  |                 |                  |               |                  |                   |   |  |            |              |                       |               |               |
| January       | 2.0 (-3.8)       | -4.6 (-4.8)     | 0.8              | -2.7          | 29               | 53 (+1)           | 2.7                                     | 224  | 76 (+12)   | 20           | 57                    | 0.0           | 1             |
| February      | 3.0 (-3.4)       | -1.7 (-2.1)     | 0.6              | -1.0          | 27               | 54 (-13)          | 4.2                                     | 240  | 69 (+17)   | 13           | 67                    | 3             | 9             |
| March         | 7.7 (-1.4)       | 1.0 (-0.3)      | 3.0              | 2.0           | 16               | 90 (-25)          | 7.0                                     | 306  | 129 (+83)  | 26           | 97                    | 28            | 27            |
| April         | 11.6 (-0.5)      | 3.7 (+0.5)      | 6.3              | 4.1           | 12               | 114 (-37)         | 11.2                                    | 232  | 93 (+46)   | 16           | 55                    | 47            | 54            |
| May           | 14.9 (-1.0)      | 5.7 (-0.5)      | 10.2             | 6.0           | 7                | 202 (+8)          | 17.3                                    | 219  | 108 (+57)  | 19           | 61                    | 76            | 85            |
| June          | 18.1 (-0.8)      | 9.1 (-0.1)      | 14.7             | 10.6          | 0                | 143 (-60)         | 16.9                                    | 156  | 30 (-27)   | 13           | 1                     | 84            | 86            |
| July          | 21.0 (+0.4)      | 10.8 (-0.3)     | 17.7             | 11.4          | 0                | 183 (-9)          | 17.7                                    | 149  | 25 (-28)   | 6            | Trace                 | 117           | 101           |
| August        | 19.9 (-0.5)      | 10.1 (-0.8)     | 14.7             | 11.0          | 2                | 162 (-18)         | 13.9                                    | 153  | 67 (+5)    | 14           | 9                     | 90            | 77            |
| September     | 18.3 (+0.6)      | 8.5 (-0.6)      | 13.1             | 9.7           | 7                | 172 (+28)         | 12.0                                    | 181  | 18 (-43)   | 7            | Trace                 | 76            | 57            |
| October       | 14.9 (+1.6)      | 7.1 (+1.2)      | 10.1             | 9.4           | 9                | 117 (+14)         | 6.9                                     | 158  | 80 (+20)   | 15           | 44                    | 39            | 17            |
| November      | 9.4 (+0.5)       | 2.4 (-0.3)      | 5.2              | 4.5           | 18               | 63 (+1)           | 3.1                                     | 217  | 52 (-20)   | 17           | 41                    | 11            | 5             |
| December      | 7.7 (+1.2)       | 2.7 (+1.7)      | 4.6              | 3.0           | 15               | 52 (+7)           | 2.1                                     | 294  | 129 (+63)  | 20           | 109                   | 10            | 6             |
| Total or mean | 12.4 (-0.6)      | 4.6 (-0.5)      | 8.4              | 5.7           | 142              | 1405 (-103)       | 9.6                                     | 211  | 876 (+185) | 186          | 541                   | 581           | 525           |

NOTES ON THE TABLE

1. Except for the last column, all quantities are measured.
2. Drainage and evaporation are measured in inches.
3. Drainage is through 50 cm bare undisturbed soil.
4. Long period averages are for different periods. Departures are in brackets: Air temperatures 1878-1978; Sunshine 1892-1978; Rain 1948-78.