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Report for 1982 - Part 1

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Weather Tables Rothamsted

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ROTHAMSTED WEATHER 1981-82

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

| | 1981 | | | 1982 | | | | | | | | | | | | |
|---|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
| | Oct | Nov | Dec | Jan | Feb | Mar | Apr | May | June | July | Aug | Sept | Oct | Nov | Dec | Year |
| TEMPERATURE (°C) | | | | | | | | | | | | | | | | |
| Mean screen maximum | 11.7 | 10.1 | 2.7 | 5.3 | 6.9 | 9.7 | 12.7 | 16.6 | 19.8 | 21.4 | 20.7 | 19.4 | 12.9 | 10.2 | 6.6 | 13.5 |
| Difference from average | -1.6 | +1.2 | -3.8 | -0.4 | +0.5 | +0.6 | +0.6 | +0.7 | +0.9 | +0.8 | +0.3 | +1.7 | -0.4 | +1.3 | +0.1 | +0.6 |
| Mean screen minimum | 4.6 | 3.6 | -3.3 | -0.9 | 1.2 | 1.6 | 3.5 | 5.9 | 11.1 | 11.3 | 11.1 | 9.3 | 6.3 | 4.8 | 1.0 | 5.5 |
| Difference from average | -1.3 | +0.9 | -4.3 | -1.0 | +0.8 | +0.3 | +0.3 | -0.3 | +1.9 | +0.2 | +0.2 | +0.2 | +0.5 | +2.1 | 0.0 | +0.4 |
| Soil at 10 cm | 7.6 | 6.0 | 1.3 | 2.4 | 3.3 | 4.0 | 7.5 | 11.6 | 16.6 | 17.1 | 16.0 | 13.5 | 9.4 | 7.2 | 2.9 | 9.3 |
| Dew point | 5.7 | 5.0 | -1.5 | 0.0 | 2.4 | 2.5 | 3.8 | 6.7 | 12.6 | 12.6 | 11.5 | 11.9 | 8.5 | 6.2 | 2.1 | 6.7 |
| No. of days with ground frost | 15 | 18 | 29 | 22 | 15 | 23 | 15 | 11 | 0 | 0 | 0 | 2 | 9 | 13 | 22 | 132 |
| RADIATION | | | | | | | | | | | | | | | | |
| Sunshine (h per month) | 109 | 56 | 49 | 66 | 44 | 165 | 172 | 221 | 164 | 171 | 176 | 160 | 73 | 67 | 54 | 1533 |
| Difference from average | +6 | -6 | +4 | +15 | -23 | +51 | +22 | +28 | -37 | -20 | -3 | +15 | -30 | +4 | +9 | +31 |
| Mean daily radiation (MJ m ⁻² day ⁻¹) | 6.1 | 2.8 | 2.0 | 2.7 | 3.5 | 9.8 | 13.7 | 18.1 | 16.5 | 15.7 | 13.7 | 10.6 | 4.9 | 2.9 | 1.9 | 10.4 |
| WIND (km day⁻¹) | | | | | | | | | | | | | | | | |
| Wind run at 2 m | 222 | 216 | 215 | 242 | 210 | 281 | 214 | 192 | 151 | 185 | 179 | 144 | 162 | 242 | 244 | 258 |
| WATER (mm per month) | | | | | | | | | | | | | | | | |
| Rainfall (5 inch walled gauge) | 72 | 45 | 55 | 57 | 31 | 83 | 22 | 60 | 113 | 42 | 42 | 47 | 127 | 100 | 72 | 796 |
| Difference from average | +11 | -26 | -12 | -5 | -20 | +31 | -25 | +7 | +58 | +11 | -19 | -12 | +65 | +30 | +6 | +105 |
| Rain days | 20 | 16 | 16 | 15 | 11 | 20 | 6 | 11 | 21 | 9 | 15 | 12 | 20 | 23 | 17 | 180 |
| Drainage through 50 cm bare undisturbed soil | 46 | 31 | 78 | 67 | 20 | 55 | 5 | 15 | 48 | 4 | TR | 9 | 103 | 84 | 68 | 478 |
| Open water (tank) evaporation | 35 | 18 | 2 | 3 | 12 | 38 | 68 | 90 | 79 | 103 | 100 | 74 | 29 | 17 | 14 | 627 |
| Potential evaporation | 21 | 6 | 0 | 6 | 10 | 34 | 62 | 91 | 87 | 94 | 79 | 45 | 12 | 3 | 1 | 524 |

NOTES ON THE TABLE

1. Except for potential evaporation, all quantities are measured.
2. Drainage and evaporation are measured in inches.
3. Long period averages are for different periods: air temperatures 1878-1981; sunshine 1892-1981; rain 1948-81.