

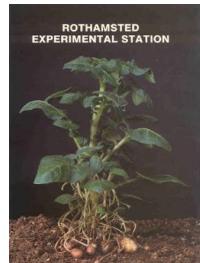
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# Rothamsted Experimental Station Report for 1983

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## Saxmundham Weather 1982-83

### Rothamsted Research

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**SAXMUNDHAM WEATHER 1982-83**

Latitude 52° 13' N; Longitude 1° 28' E; Altitude 37 m

|  | 1982 Oct | Nov  | Dec  | 1983 Jan | Feb  | Mar  | Apr  | May  | June | July | Aug  | Sept | Oct  | Nov  | Dec  | Year |
|--|----------|------|------|----------|------|------|------|------|------|------|------|------|------|------|------|------|
| TEMPERATURE (°C)   |          |      |      |          |      |      |      |      |      |      |      |      |      |      |      |      |
| Mean screen maximum  | 14.0     | 11.3 | 7.1  | 9.5      | 4.5  | 9.8  | 10.9 | 13.3 | 18.8 | 24.1 | 22.2 | 18.0 | 14.0 | 9.1  | 7.2  | 13.4 |
| Difference from average                                      | +0.5     | +2.0 | 0.0  | +3.1     | -2.7 | +0.9 | -0.2 | -1.1 | +0.1 | +3.7 | +1.2 | -0.6 | +0.5 | -0.5 | +0.2 | +0.3 |
| Mean screen minimum  | 7.1      | 5.7  | 1.7  | 3.2      | 0.0  | 2.6  | 2.3  | 5.9  | 9.3  | 12.3 | 12.6 | 10.5 | 6.7  | 4.4  | 3.0  | 6.1  |
| Difference from average                                      | -0.1     | +1.7 | -0.7 | +1.6     | -1.7 | -0.2 | -1.3 | -1.1 | -0.7 | +0.5 | +0.6 | +0.1 | -0.5 | +0.1 | +0.8 | -0.1 |
| Soil at 10 cm  | 11.0     | 8.1  | 2.9  | 5.2      | 1.2  | 6.4  | 8.6  | 12.7 | 19.1 | 22.2 | 19.7 | 13.9 | 11.0 | 7.3  | 4.4  | 11.0 |
| Dewpoint   | 8.9      | 7.2  | 2.8  | 4.4      | 0.0  | 3.3  | 4.4  | 5.0  | 10.6 | 15.0 | 13.9 | 12.0 | 7.8  | 5.6  | 3.9  | 7.2  |
| No. of days with ground frost                                | 6        | 7    | 14   | 9        | 21   | 15   | 13   | 5    | 0    | 0    | 0    | 0    | 5    | 6    | 12   | 86   |
| RADIATION  |          |      |      |          |      |      |      |      |      |      |      |      |      |      |      |      |
| Mean daily radiation (MJ m <sup>-2</sup> day <sup>-1</sup> ) | 4.3      | 2.4  | 1.7  | 2.0      | 4.9  | 6.9  | 11.0 | 12.6 | 17.6 | 18.8 | 16.9 | 8.2  | 5.8  | 2.4  | 1.7  | 9.1  |
| WIND (km day <sup>-1</sup> )                                 |          |      |      |          |      |      |      |      |      |      |      |      |      |      |      |      |
| Wind run at 2 m  | 229      | 382  | 283  | 402      | 301  | 302  | 261  | 224  | 176  | 142  | 173  | 278  | 288  | 184  | 318  | 254  |
| WATER (mm month <sup>-1</sup> )                              |          |      |      |          |      |      |      |      |      |      |      |      |      |      |      |      |
| Rainfall (5 inch gauge)                                      | 124      | 70   | 51   | 57       | 36   | 34   | 80   | 83   | 26   | 37   | 9    | 74   | 51   | 52   | 40   | 579  |
| Difference from average                                      | +75      | +10  | -9   | +4       | -5   | -17  | +42  | +45  | -20  | -8   | -32  | +7   | -9   | -10  | -22  | -26  |
| Rain days  | 24       | 17   | 13   | 12       | 11   | 17   | 17   | 24   | 9    | 6    | 5    | 16   | 15   | 9    | 17   | 158  |
| Open water (tank) evaporation                                | 35       | 35   | —    | —        | —    | —    | 41   | 79   | 98   | 129  | 126  | 70   | 57   | 20   | —    | —    |

NOTES ON THE TABLE

- All quantities are measured.
- Temperatures were measured in °F.
- 'Soil at 10 cm' and 'Dewpoint' are at 0900 GMT.
- Radiation was measured with a Kipp Solarimeter.
- Rain and evaporation were measured in inches.
- 'Evaporation' is the mean of two open water tanks installed 17 March 1983. They are 56 cm diameter, 30 cm deep and set 15 cm in the ground. Water level is about 6 cm below the rim.
- Long period averages are for the period 1973-82.