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Report for 1973 - Part1

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Weather Tables Rothamsted; Woburn ; Broom's Barn ; Saxmundham

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WEATHER TABLES

ROTHAMSTED WEATHER 1972-73

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

| | Temperature (°C) | | | | Radiation | | Wind Run at 2 m km day ⁻¹ | Water (mm) | | | | |
|---------------|------------------|------------------|---------------|------------------|-------------------|---|--|------------|--------------|-----------------------|------------------------------|----------------|
| | Mean air | Soil at 10 cm | Dew- point | Ground frosts | Sunshine hours | mWh cm ⁻² day ⁻¹ | | Rain | Rain days | Drainage bare soil | Evaporation Open water | Pot. trans. |
| 1972 | | | | | | | | | | | | |
| October | 10.5 | 9.1 | 7.5 | 9 | 102 | 154 | 205 | 29 | 6 | 9 | 42 | 22 |
| November | 5.7 | 5.1 | 3.5 | 16 | 86 | 83 | 240 | 66 | 15 | 46 | 13 | 4 |
| December | 5.1 | 4.5 | 3.8 | 21 | 45 | 45 | 210 | 92 | 14 | 88 | 8 | -2 |
| 1973 | | | | | | | | | | | | |
| January | 3.7 (+0.8) | 3.2 | 2.3 | 15 | 31 (-21) | 47 | 175 | 21 (-41) | 13 | 15 | 5 | 2 |
| February | 3.7 (+0.3) | 2.7 | 1.5 | 21 | 73 (+6) | 122 | 235 | 23 (-28) | 13 | 9 | 11 | 11 |
| March | 5.7 (+0.5) | 4.1 | 3.1 | 20 | 139 (+22) | 237 | 190 | 14 (-32) | 8 | 3 | 35 | 27 |
| April | 6.9 (-0.8) | 6.2 | 2.6 | 17 | 141 (-10) | 325 | 265 | 59 (+12) | 13 | 15 | 52 | 57 |
| May | 11.5 (+0.4) | 11.1 | 7.4 | 5 | 182 (-12) | 420 | 225 | 55 (+3) | 15 | 17 | 75 | 81 |
| June | 14.9 (+0.8) | 16.1 | 9.7 | 1 | 258 (+56) | 537 | 160 | 83 (+27) | 6 | 44 | 111 | 98 |
| July | 15.5 (-0.4) | 16.4 | 12.0 | 0 | 165 (-25) | 409 | 135 | 55 (-2) | 11 | 17 | 90 | 79 |
| August | 17.0 (+1.4) | 16.7 | 13.0 | 0 | 198 (+19) | 383 | 170 | 41 (-24) | 6 | 76 | 99 | 78 |
| September | 14.7 (+1.3) | 13.8 | 10.8 | 2 | 169 (+25) | 282 | 185 | 64 (+7) | 13 | 26 | 67 | 49 |
| October | 8.9 (-0.7) | 8.1 | 6.8 | 12 | 108 (+5) | 149 | 185 | 31 (-30) | 11 | 8 | 29 | 17 |
| November | 5.3 (-0.5) | 4.6 | 2.6 | 18 | 97 (+36) | 80 | 220 | 25 (-49) | 13 | 4 | 14 | 3 |
| December | 4.6 (+1.0) | 3.4 | 2.7 | 17 | 57 (+13) | 45 | 245 | 47 (-19) | 19 | 42 | 4 | 0 |
| Total or mean | 9.4 (+0.3) | 8.9 | 6.2 | 128 | 1618 (+114) | 253 | 200 | 518 (-176) | 141 | 276 | 592 | 502 |

NOTES ON THE TABLE

1. Except for the last column, all quantities are measured.
2. Drainage and evaporation were measured in inches.
3. Drainage is through 50 cm bare undisturbed soil.
4. Departures from long-period averages (in brackets) are for different periods: Air temperature, 1878-1972; Sunshine, 1892-1972; Rain, 1948-72.

WOBURN WEATHER 1972-73

Latitude 52° 1' 5" N; Longitude 0° 35' 35" W; Altitude 89 m

| | Temperature (°C) | | | | Radiation Sunshine hours | Wind Run at 2 m km day ⁻¹ | Water (mm) | |
|---------------|------------------|---------------|----------|------------------|--------------------------------|--|------------|--------------|
| | Mean air | Soil 10 cm | Dewpoint | Ground frosts | | | Rain | Rain days |
| 1972 | | | | | | | | |
| October | 10.1 | 9.1 | 7.8 | 10 | 95 | 155 | 22 | 8 |
| November | 6.0 | 5.2 | 3.4 | 15 | 79 | 255 | 52 | 13 |
| December | 5.3 | 4.5 | 3.6 | 16 | 48 | 215 | 46 | 14 |
| 1973 | | | | | | | | |
| January | 4.1 (+1.0) | 3.5 | 2.6 | 13 | 39 (-12) | 180 | 20 (-35) | 13 |
| February | 3.8 (+0.5) | 3.1 | 1.8 | 19 | 75 (+ 9) | 230 | 19 (-21) | 11 |
| March | 5.5 (+0.1) | 4.2 | 3.0 | 25 | 129 (+12) | 165 | 11 (-31) | 5 |
| April | 6.9 (-1.2) | 6.6 | 3.2 | 18 | 146 (+ 4) | 205 | 46 (+ 1) | 13 |
| May | 11.1 (0.0) | 11.7 | 7.9 | 1 | 178 (- 6) | 205 | 111 (+58) | 14 |
| June | 14.6 (+0.3) | 16.7 | 10.3 | 2 | 250 (+53) | 145 | 71 (+22) | 5 |
| July | 15.5 (-0.5) | 16.5 | 12.0 | 0 | 144 (-37) | 125 | 37 (-19) | 9 |
| August | 16.5 (+0.7) | 16.9 | 13.3 | 0 | 179 (+ 8) | 155 | 32 (-29) | 7 |
| September | 14.5 (+0.9) | 13.7 | 11.1 | 2 | 139 (+ 5) | 165 | 36 (-15) | 10 |
| October | 8.7 (-1.4) | 8.0 | 6.9 | 13 | 96 (- 7) | 150 | 30 (-24) | 11 |
| November | 5.4 (-0.9) | 4.8 | 3.0 | 15 | 86 (+26) | 215 | 32 (-32) | 6 |
| December | 4.6 (+0.7) | 3.5 | 2.9 | 17 | 53 (+ 9) | 240 | 32 (-20) | 15 |
| Total or mean | 9.3 (0.0) | 9.1 | 6.5 | 125 | 1514 (+64) | 180 | 477 (-145) | 119 |

NOTES ON THE TABLE

1. Standard long-period is 1930-72. Departures are in brackets.

WEATHER TABLES

BROOM'S BARN WEATHER 1972-73

Latitude 52° 16' N; Longitude 0° 34' E; Altitude 75 m

| | Temperature (°C) | | | | Radiation | | Wind Run at 2 m km day ⁻¹ | Water (mm) | | | |
|---------------|------------------|------------------|----------|------------------|-------------------|---|--|------------|--------------|------------------------------|----------------|
| | Mean air | Soil at 10 cm | Dewpoint | Ground Frosts | Sunshine hours | mWh cm ⁻² day ⁻¹ | | Rainfall | Rain days | Evaporation Open water | Pot. trans. |
| 1972 | | | | | | | | | | | |
| October | 10.7 | 9.3 | 7.9 | 3 | 100 | 151 | 203 | 3 | 6 | 43 | 23 |
| November | 6.1 | 5.4 | 3.9 | 8 | 79 | 78 | 273 | 54 | 16 | 19 | 6 |
| December | 5.1 | 4.5 | 3.9 | 8 | 58 | 52 | 233 | 58 | 17 | 11 | -2 |
| 1973 | | | | | | | | | | | |
| January | 4.1 (+0.7) | 3.1 | 2.5 | 14 | 41 (- 4) | 58 | 188 | 13 (-33) | 12 | 5 | 2 |
| February | 3.7 (+0.2) | 2.5 | 1.5 | 17 | 67 (+ 7) | 112 | 258 | 21 (-13) | 11 | 14 | 12 |
| March | 6.4 (+1.3) | 4.5 | 2.8 | 13 | 133 (+12) | 222 | 195 | 14 (-23) | 7 | 45 | 31 |
| April | 7.0 (-0.7) | 6.3 | 3.1 | 10 | 147 (+10) | 303 | 266 | 46 (- 3) | 16 | 65 | 51 |
| May | 11.7 (+0.1) | 11.3 | 8.0 | 0 | 191 (+ 1) | 426 | 251 | 60 (+18) | 15 | 106 | 80 |
| June | 15.4 (+1.2) | 17.2 | 10.4 | 0 | 277 (+78) | 535 | 173 | 69 (+16) | 5 | 148 | 101 |
| July | 15.9 (-0.1) | 16.9 | 12.2 | 0 | 160 (-17) | 393 | 151 | 46 (- 8) | 15 | 113 | 79 |
| August | 17.4 (+1.5) | 17.1 | 13.0 | 0 | 197 (+34) | 373 | 190 | 24 (-30) | 9 | 134 | 80 |
| September | 14.9 (+0.9) | 14.4 | 11.3 | 0 | 175 (+35) | 273 | 201 | 94 (+49) | 14 | 85 | 47 |
| October | 9.4 (-1.8) | 8.3 | 7.2 | 5 | 106 (- 4) | 140 | 170 | 37 (-2) | 11 | 32 | 14 |
| November | 5.5 (-0.4) | 4.4 | 2.6 | 12 | 100 (+34) | 90 | 256 | 34 (-33) | 8 | 20 | 6 |
| December | 4.6 (+0.7) | 3.2 | 2.5 | 12 | 64 (+24) | 56 | 271 | 35 (-23) | 20 | 16 | 2 |
| Total or mean | 9.7 (+0.3) | 9.1 | 6.4 | 83 | 1658 (+210) | 248 | 214 | 495 (-85) | 143 | 783 | 505 |

NOTES ON THE TABLE

1. Except for the last column, all quantities are measured.
2. Departures from long-period average (in brackets) are for different periods: Air temperature and rainfall, 1964-72; Sunshine, 1965-72.

SAXMUNDEN WEATHER 1973

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

| | Temperature (°C) | | | | Wind Run at 2 m km day ⁻¹ | Water (mm) | | | Accumulated Day-degrees F | |
|---------------|------------------|------------------|----------|------------------|--|------------|--------------|---------------------------|------------------------------|-----|
| | Mean air | Soil at 10 cm | Dewpoint | Ground frosts | | Rain | Rain days | Evaporation Open water | A | B |
| January | 4.4 | 3.8 | 2.8 | 9+ | 169 | 17 | 8 | — | 28 | 87 |
| February | 3.8 | 2.8 | 1.7 | 15 | 272 | 28 | 12 | — | 59 | 203 |
| March | 6.2 | 4.7 | 3.3 | 19 | 220 | 13 | 6 | — | 151 | 261 |
| April | 6.4 | 6.3 | 3.3 | 12 | 296 | 62 | 10 | 34† | 252 | 314 |
| May | 10.8 | 11.2 | 8.3 | 3 | 237 | 62 | 15 | 79 | 555 | 324 |
| June | 14.5 | 16.2 | 11.1 | 1 | 161 | 25 | 4 | 120 | 1042 | 328 |
| July | 15.5 | 17.4 | 11.7 | 0 | 145 | 73 | 11 | 92 | 1600 | 328 |
| August | 16.8 | 17.1 | 13.3 | 0 | 166 | 26 | 8+ | 106 | 2227 | 328 |
| September | 14.5 | 14.0 | 11.7 | 0 | 203 | 86 | 11 | 93 | 2716 | 328 |
| October | 9.3 | 8.6 | 6.8 | 8 | 183 | 39 | 8 | 39 | 2946 | 348 |
| November | 5.0 | 4.2 | 3.3 | 13 | 286 | 28 | 5 | 9 | 3038 | 452 |
| December | 4.4 | 3.0 | 3.9 | 11 | 291 | 35 | 9 | — | 3081 | 564 |
| Total or mean | 9.3 | 9.1 | 6.8 | 91+ | 219 | 494 | 107+ | — | — | — |

NOTES ON THE TABLE

1. Except for the last two columns all quantities are measured.
2. Temperatures were measured in °F.
3. 'Soil at 10 cm' and 'Dewpoint' are at 0900 GMT.
4. Rain and evaporation were measured in inches.
5. 'Evaporation' is the mean of two open water tanks installed on 12 April 1973(†). They are 56 cm diameter, 30 cm deep and set 15 cm in the ground. Water level is about 6 cm below the rim.
6. Calculated values of accumulated temperatures are: A, Day-degrees above 42°F. B, Day-degrees below 42°F.