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## Report for 1972 - Part 1

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

#### **Rothamsted Research**

Rothamsted Research (1973) *Weather Tables Rothamsted; Woburn ; Broom's Barn ; Saxmundham ; Report For 1972 - Part 1*, pp 371 - 375 - DOI: <https://doi.org/10.23637/ERADOC-1-127>

## WEATHER TABLES

ROTHAMSTED WEATHER 1971-72

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

	Temperature (°C)				Radiation		Wind Run at 2 m km day <sup>-1</sup>	Water (mm)				
	Mean air	Soil at 10 cm	Dew- point	Ground frosts	Sunshine hours	mWh cm <sup>-2</sup> day <sup>-1</sup>		Rain	Rain days	Drainage bare soil	Evaporation Open water	Pot. Trans
<b>1971</b>												
October	11.1	9.6	9.3	7	143	179	185	73	9	44	35	14
November	5.3	4.7	3.8	17	84	85	215	69	16	45	17	1
December	5.7	5.1	4.3	10	26	33	205	20	7	14	8	1
<b>1972</b>												
January	3.1 (+0.2)	2.9	1.5	17	44 (- 8)	47	225	85 (+24)	22	76	7	0
February	3.9 (+0.5)	2.7	2.4	15	30 (-38)	56	215	66 (+16)	17	58	8	5
March	6.4 (+1.2)	4.3	3.0	20	149 (+34)	236	240	70 (+25)	17	37	33	32
April	8.0 (+0.3)	7.3	4.2	10	109 (-43)	292	305	54 (+ 7)	18	24	49	56
May	10.5 (-0.6)	10.3	7.0	3	165 (-29)	409	265	44 (- 9)	22	3	71	78
June	11.7 (-2.4)	12.9	8.2	0	160 (-42)	423	175	37 (-20)	16	TR	76	74
July	15.5 (-0.4)	16.2	11.9	0	158 (-33)	388	150	29 (-29)	10	TR	87	79
August	15.1 (-0.5)	15.3	11.5	0	165 (-14)	355	150	36 (-30)	5	12	91	66
September	11.7 (-1.7)	11.5	8.1	2	124 (-20)	246	155	31 (-27)	5	TR	69	42
October	10.5 (+0.9)	9.1	7.5	9	102 (- 1)	154	205	29 (-33)	6	9	42	22
November	5.7 (-0.1)	5.1	3.5	16	86 (+25)	83	240	66 (- 9)	15	46	13	4
December	5.1 (+1.5)	4.5	3.8	21	45 (0)	45	210	92 (+27)	14	88	8	-2
Total or mean	8.9 (-0.1)	8.5	6.1	113	1337 (-169)	228	210	639 (-72)	167	353	554	456

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 1878-1971; Sunshine 1892-1971; Rain 1948-71.

### WOBURN WEATHER 1971-72

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 <sup>-1</sup>	Water (mm)	
	Mean air	Soil at 10 cm	Dewpoint	Ground frosts			Rain	Rain days
<b>1971</b>								
October	11.2	10.2	8.9	7	148	205	79	8
November	5.7	5.0	3.6	15	96	195	67	13
December	5.9	5.4	4.2	11	30	215	21	10
<b>1972</b>								
January	3.5 (+0.4)	3.5	1.8	14	43 (-9)	205	59 (+5)	20
February	4.1 (+0.8)	3.1	2.7	15	36 (-30)	190	38 (-1)	16
March	6.5 (+1.1)	4.7	3.3	20	141 (+24)	205	43 (+1)	16
April	8.1 (0.0)	7.7	4.0	5	103 (-41)	265	49 (+3)	18
May	10.5 (-0.6)	10.8		2	149 (-36)	245	40 (-14)	20
June	11.9 (-2.4)	13.6		1	156 (-42)	205	27 (-23)	12
July	15.3 (-0.8)	16.3	11.8	0	138 (-43)	155	67 (+11)	13
August	15.0 (-0.8)	15.3	11.5	0	158 (-13)	155	15 (-47)	4
September	11.4 (-2.3)	11.5	8.2	4	113 (-22)	120	36 (-16)	6
October	10.1 (0.0)	9.1	7.8	10	95 (-8)	155	22 (-33)	8
November	6.0 (-0.3)	5.2	3.4	15	79 (+19)	255	52 (-13)	13
December	5.3 (+1.4)	4.5	3.6	16	48 (+4)	215	46 (-6)	14
Total or mean	9.0 (-0.3)	8.8	6.0	102	1259 (-197)	195	494 (-133)	160

NOTE ON THE TABLE

1. Standard long-period is 1930-71. Departures are in brackets.



BROOM'S BARN WEATHER 1971-72

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

	Temperature (°C)				Radiation		Wind Run at 2 m km day <sup>-1</sup>	Water (mm)			
	Mean air	Soil at 10 cm	Dewpoint	Ground Frosts	Sunshine hours	mWh cm <sup>-2</sup> day <sup>-1</sup>		Rainfall	Rain days	Evaporation Open water	Pot. Trans.
<b>1971</b>											
October	11.6	10.2	9.1	4	152	173	217	59	10	44	18
November	5.7	4.9	3.6	12	83	80	253	77	20	20	5
December	5.7	4.9	4.1	7	29	45	238	23	12	7	3
<b>1972</b>											
January	3.1 (-0.3)	3.0	1.3	11	38 (-7)	51	258	59 (+13)	25	—	3
February	4.0 (+0.5)	2.8	2.6	9	42 (-18)	87	238	36 (+2)	18	—	9
March	6.7 (+1.6)	4.7	3.2	13	150 (+29)	229	256	40 (+3)	17	—	33
April	8.0 (+0.3)	7.5	4.0	3	131 (-6)	270	296	43 (-6)	18	66	51
May	11.0 (-0.6)	10.9	6.7	1	179 (-11)	396	267	40 (-2)	22	100	77
June	12.5 (-1.7)	13.4	7.7	0	170 (-29)	432	211	30 (-23)	16	111	83
July	15.9 (-0.1)	16.3	11.9	0	156 (-21)	374	179	35 (-19)	14	105	81
August	15.7 (-0.2)	15.6	11.1	0	193 (+30)	357	197	26 (-28)	7	117	73
September	12.1 (-1.9)	11.9	8.8	0	114 (-26)	223	158	46 (-1)	8	67	35
October	10.7 (-0.5)	9.3	7.9	3	100 (-10)	151	203	3 (-36)	6	43	23
November	6.1 (+0.2)	5.4	3.9	8	79 (+13)	78	273	54 (-13)	16	19	6
December	5.5 (+1.6)	4.5	3.9	8	58 (+18)	52	233	58 (0)	17	11	-2
Total or mean	9.3	8.8	6.1	56	1410 (-38)	225	231	470 (-111)	184		472

NOTES ON THE TABLE

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

### SAXMUNDHAM WEATHER 1972

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

	Temperature (°C)				Radiation mWh cm <sup>-2</sup> day <sup>-1</sup>	Wind Run at 2 m km day <sup>-1</sup>	Water (mm)			Accumulaed Day-degrees F	
	Mean air	Soil at 10 cm	Dewpoint	Ground frosts			Rain	Rain days	Evaporation Open water	A	B
January	3.7	3.1	1.7	13	85	262	62	10+	—	18	122
February	4.3	3.1	2.8	10	95	265	32	9	—	41	204
March	6.5	4.3	3.9	17	169	277	31	8	15†	155	253
April	8.0	7.3	4.4	4	208	323	45	16	64	307	269
May	10.7	10.5	7.2	1	288	282	39	15	100	602	274
June	12.3	12.7	10.0	0	286	211	44	12	90	966	275
July	15.7	16.6	11.7	0	284	145	51	8+	96	1532	275
August	15.3	14.9	11.1	0	253	18	10	4+	97	2058	275
September	11.9	11.7	8.9	0	152	167	66	7	69	2399	275
October	10.5	9.5	7.8	5	98	220	6	4	38	2686	283
November	5.8	5.3	3.9	7	63	288	49	12	17	2771	351
December	5.7	4.9	4.4	6	—	267	30	10	—	2846	414
Total or mean	9.2	8.7	6.7	63		240	465	115+			

#### NOTES ON THE TABLE

1. Except for the last two columns, all quantities are measured.
2. Temperatures were measured in °F.
3. 'Radiation' is measured on a radiometer built at Rothamsted.
4. Rain and evaporation were measured in inches.
5. 'Evaporation' is the mean of two open water tanks installed on 22 March 1972(†). 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.