

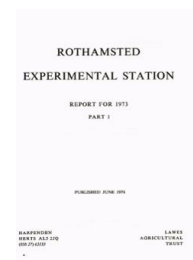
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## Report for 1973 - Part1

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

#### **Rothamsted Research**

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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 <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.
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 <sup>-1</sup>	Water (mm)	
	Mean air	Soil 10 cm	Dewpoint	Ground frosts			Rain	Rain days
<b>1972</b>								
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
<b>1973</b>								
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 <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>1972</b>											
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
<b>1973</b>											
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 <sup>-1</sup>	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.