

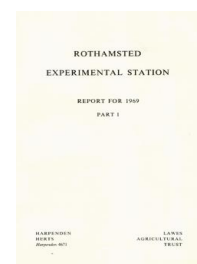
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## Report for 1969 - Part 1

[Full Table of Content](#)



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

#### **Rothamsted Research**

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## WEATHER TABLES

ROTHAMSTED REPORT FOR 1969, PART 1

ROTHAMSTED WEATHER 1968-69

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

	Temperature (°C)			Radiation		Wind		Water				
	Mean air	Soil at 10 cm	Dew-point	Ground frosts	Sunshine hours	mWh cm <sup>-2</sup> day <sup>-1</sup>	Run at 2 m km day <sup>-1</sup>	Rain mm	Rain days	Drainage bare soil	Evaporation (mm) Open water	Pot. Trans.
<b>1968</b>												
Oct.	12.3	11.2	10.7	1	56	123	175	52	13	28	25	18
Nov.	5.9	5.7	4.7	6	29	48	225	48	18	35	16	3
Dec.	2.1	2.4	1.2	22	27	29	195	79	14	72	4	-2
<b>1969</b>												
Jan.	5.1 (+2.2)	3.9	3.7	13	27 (-25)	43	220	72 (+13)	21	75	5	3
Feb.	0.2 (-3.2)	0.9	-2.1	24	72 (+4)	105	275	65 (+15)	15	49	0	8
Mar.	3.3 (-1.9)	2.3	1.2	19	66 (-51)	145	275	48 (+5)	13	31	21	22
Apr.	7.4 (-0.3)	6.5	3.5	13	195 (+43)	369	275	37 (-10)	15	4	60	52
May	11.5 (+0.4)	11.5	8.8	0	137 (-58)	384	200	79 (+26)	20	18	62	68
June	13.2 (-0.9)	14.6	9.4	1	247 (+46)	536	195	37 (-20)	12	4	99	88
July	16.7 (+0.8)	18.2	13.4	0	214 (+23)	474	135	51 (-10)	8	8	104	88
Aug.	16.2 (+0.6)	16.2	12.3	0	123 (-57)	313	155	44 (-23)	15	7	75	69
Sept.	14.0 (+0.6)	14.1	11.0	3	96 (-49)	220	175	10 (-53)	10	tr	65	37
Oct.	12.7 (+3.2)	11.8	10.3	1	107 (+4)	159	160	6 (-60)	10	tr	42	18
Nov.	4.9 (-0.9)	4.8	2.9	16	66 (+6)	71	275	88 (+18)	18	46	15	4
Dec.	2.6 (-1.1)	2.5	1.5	21	17 (-29)	28	240	66 (-2)	20	61	3	2
Total or mean	9.0 (0.0)	8.9	6.3	111	1367 (-143)	237	215	603 (-101)	177	303	551	459

NOTES ON THE TABLE

1. Except for the last column, all quantities are measured.
2. Temperatures were measured in °F, rain, drainage and evaporation 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 1878-1968; Sunshine 1892-1968; Rain 1948-68.

WEATHER TABLES

WOBURN WEATHER 1968-69

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	
	Mean air	Soil at 10 cm	Dewpoint Ground frosts			Rain mm	Rain days
<b>1968</b>							
October	12.7	12.3	10.6	67	190	41	13
November	6.3	7.1	4.4	32	160	53	15
December	2.3	2.8	1.2	26	140	47	12
<b>1969</b>							
January	5.7 (+2.8)	4.2	3.7	41 (-12)	205	76 (-23)	22
February	0.5 (-2.9)	0.8	-1.3	65 (-1)	190	57 (+18)	15
March	3.3 (-2.3)	2.4	1.0	65 (-55)	195	56 (+14)	13
April	7.7 (-0.5)	6.7	3.7	183 (+38)	225	35 (-11)	14
May	11.8 (+0.8)	12.1	8.1	142 (-43)	185	75 (+20)	17
June	13.2 (-1.1)	15.4	9.6	250 (+52)	150	30 (-21)	10
July	17.1 (+1.0)	18.7	13.4	216 (+36)	140	61 (-2)	14
August	16.5 (+0.7)	16.4	12.6	118 (-55)	140	61 (-2)	14
September	13.9 (+0.2)	14.1	11.3	105 (-31)	155	12 (-41)	9
October	12.9 (+3.0)	12.1	10.9	107 (+5)	160	3 (-53)	4
November	5.4 (-0.9)	5.2	2.9	72 (+13)	185	65 (+3)	15
December	2.9 (-1.0)	3.2	1.9	20 (-26)	190	49 (-5)	18
Total or mean	9.2 (-0.1)	9.3	6.5	1384 (-79)	175	559 (-72)	158

NOTES ON THE TABLE

1. Temperatures were measured in °F; rain in inches.
2. Standard long-period is 1930-68.

ROTHAMSTED REPORT FOR 1969, PART 1

BROOM'S BARN WEATHER 1968-69

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

	Temperature (°C)			Radiation			Wind			Water		
	Mean air	Soil at 10 cm	Dewpoint	Ground frosts	Sunshine hours	mWh cm <sup>-2</sup> day <sup>-1</sup>	Run at 2 m km day <sup>-1</sup>	Rain mm	Rain days	Evaporation (mm)	Pot. Trans.	
<b>1968</b>												
October	12.8	12.9	10.4	0	71	142	210	45	13	34	35	
November	6.5	5.2	4.7	4	37	63	230	43	18	22	8	
December	2.2	2.3	1.0	17	21	33	189	44	15	—	0	
<b>1969</b>												
January	5.5 (+2.1)	3.9	3.4	7	40 (-12)	54	251	53 (+5)	20	—	6	
February	0.3 (-3.5)	—	-2.0	20	68 (-5)	116	269	38 (+2)	17	—	11	
March	3.2 (-3.1)	—	0.1	14	70 (-54)	152	274	55 (+23)	16	—	25	
April	7.6 (-1.2)	6.3	3.2	15	186 (+26)	353	290	36 (-7)	16	60	57	
May	11.8 (-0.0)	12.0	8.1	1	186 (-16)	396	213	75 (+34)	18	84	73	
June	13.6 (-1.4)	15.2	9.0	0	267 (+56)	526	181	44 (+6)	10	115	89	
July	17.3 (+0.5)	18.4	12.8	0	209 (+16)	432	162	68 (+6)	7	114	88	
August	16.5 (-0.2)	16.4	12.5	0	124 (-61)	304	186	60 (+9)	16	88	68	
September	14.4 (-0.0)	14.4	11.2	1	132 (-10)	252	187	2 (-50)	3	62	44	
October	13.5 (+2.8)	12.3	10.5	0	114 (+7)	160	198	4 (-44)	5	39	25	
November	5.4 (-1.5)	5.3	2.6	11	67 (+11)	81	296	74 (+22)	18	—	12	
December	2.6 (-2.1)	2.5	1.2	15	14 (-30)	30	242	68 (+22)	20	—	2	
Total or mean	9.3 (-0.7)	—	6.1	84	1477 (-73)	238	229	577 (+28)	166	—	499	

NOTES ON THE TABLE

1. Except for the last column, all quantities are measured.
2. Temperatures were measured in °F; rain and open water evaporation in inches.
3. Departures from long-period averages (in brackets) are relative to Mildenhall.

SAXMUNDHAM WEATHER 1969

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)			Accumulated Day-degrees F	
	Mean air	Soil at 10 cm	Dewpoint			Ground frosts	Rain	Rain days	Evap. Open water	A
January	5.2	4.5	1.4	9	117	270	49	15	64	79
February	0.3	1.6	-4.6	18	108	315	73	11	68	340
March	3.0	2.7	-1.3	12	137	285	55	11	87	496
April	7.1	6.4	2.3	10	266	300	36	11	232	556
May	11.4	11.4	7.8	2	390	240	92	18	564	560
June	13.6	14.6	9.2	1	420	205	39	13+	1005	562
July	17.4	18.4	12.8	0	348+	150	99	5+	1681	562
August	16.4	17.2	12.6	0	298	165	73	14	2298	562
September	14.3	14.7	10.8	0	233	190	2	3	2771	565
October	12.8	12.2	8.8	0	151	175	7	6	3181	567
November	5.8	6.5	1.8	11	70	305	99	14	3277	644
December	2.6	3.3	0.5	12+	48	265	76	13+	3282+	768+
Total or mean	9.2	9.4	(5.2)	75+	216	240	700	134+	—	—

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. 'Radiation' is measured on a radiometer built at Rothamsted.
5. Rain and evaporation were measured in inches.
6. 'Evaporation' is the mean of two open water tanks, 22 in. diameter, 12 in. deep, and set 6 in. in the ground. Water level is about 2½ in. below the rim.
7. Calculated values of accumulated temperatures are: A. Day-degrees above 42°F. B. Day-degrees below 42°F.
8. Winter values of dewpoint temperature are suspect (too low?).