

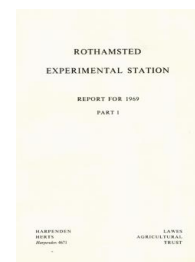
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Report for 1969 - Part 1

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

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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)			Ground frosts	Radiation		Wind Run at 2 m km day ⁻¹	Water					
	Mean air	Soil at 10 cm	Dew- point		Sunshine hours	mWh cm ⁻² day ⁻¹		Rain mm	Rain days	Drainage bare soil	Evaporation (mm) Open water Pot. Trans.		
1968													
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	
1969													
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 ⁻¹	Water	
	Mean air	Soil at 10 cm	Dewpoint frost			Rain mm	Rain days
1968							
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
1969							
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 Run at 2 m km day ⁻¹	Water		
	Mean air	Soil at 10 cm	Dewpoint	Ground frost	Sunshine hours	mWh cm ⁻² day ⁻¹	Rain mm	Rain days	Evaporation (mm) Open water Pot. Trans.
1968									
October	12.8	12.9	10.4	0	71	142	45	13	35
November	6.5	5.2	4.7	4	37	63	43	18	8
December	2.2	2.3	1.0	17	21	33	44	15	0
1969									
January	5.5 (+2.1)	3.9	3.4	7	40 (-12)	54	53 (+5)	20	6
February	0.3 (-3.5)	—	-2.0	20	68 (-5)	116	38 (+2)	17	11
March	3.2 (-3.1)	—	0.1	14	70 (-54)	152	55 (+23)	16	25
April	7.6 (-1.2)	6.3	3.2	15	186 (+26)	353	36 (-7)	16	57
May	11.8 (-0.0)	12.0	8.1	1	186 (-16)	396	75 (+34)	18	73
June	13.6 (-1.4)	15.2	9.0	0	267 (+56)	526	44 (+6)	10	89
July	17.3 (+0.5)	18.4	12.8	0	209 (+16)	432	68 (+6)	7	88
August	16.5 (-0.2)	16.4	12.5	0	124 (-61)	304	60 (+9)	16	68
September	14.4 (-0.0)	14.4	11.2	1	132 (-10)	252	2 (-50)	3	44
October	13.5 (+2.8)	12.3	10.5	0	114 (+7)	160	4 (-44)	5	25
November	5.4 (-1.5)	5.3	2.6	11	67 (+11)	81	74 (+22)	18	12
December	2.6 (-2.1)	2.5	1.2	15	14 (-30)	30	68 (+22)	20	2
Total or mean	9.3 (-0.7)	—	6.1	84	1477 (-73)	238	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 ⁻² day ⁻¹	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	Evap. Open water	
January	5.2	4.5	1.4	9	117	49	15	—	A 64 B 79
February	0.3	1.6	-4.6	18	108	73	11	—	68 340
March	3.0	2.7	-1.3	12	137	55	11	7	87 496
April	7.1	6.4	2.3	10	266	36	11	55	232 556
May	11.4	11.4	7.8	2	390	92	18	83	564 560
June	13.6	14.6	9.2	1	420	39	13+	100	1005 562
July	17.4	18.4	12.8	0	348+	99	5+	118	1681 562
August	16.4	17.2	12.6	0	298	73	14	83	2298 562
September	14.3	14.7	10.8	0	233	2	3	62	2771 565
October	12.8	12.2	8.8	0	151	7	6	33	3181 567
November	5.8	6.5	1.8	11	70	99	14	—	3277 644
December	2.6	3.3	0.5	12+	48	76	13+	—	3282+ 768+
Total or mean	9.2	9.4	(5.2)	75+	216	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?).