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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)			Radiation		Wind		Water				
	Mean air	Soil at 10 cm	Dew-point	Ground frosts	Sunshine hours	mWh cm ⁻² day ⁻¹	Run at 2 m km 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 Ground frosts			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		Water				
	Mean air	Soil at 10 cm	Dewpoint	Ground frosts	Sunshine hours	mWh cm ⁻² day ⁻¹	Run at 2 m km day ⁻¹	Rain mm	Rain days	Evaporation (mm)	
										Open water	Pot. Trans.
1968											
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
1969											
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 ⁻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	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?).