

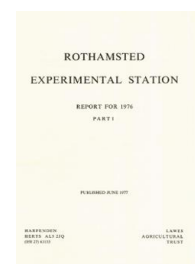
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ROTHAMSTED  
RESEARCH

## Report for 1976 - Part 1

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

#### Rothamsted Research

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## WEATHER TABLES

ROTHAMSTED WEATHER 1975-76

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 maximum	Mean minimum	Soil at 10 cm Dewpoint		Ground frosts	Sunshine hours	mWh cm <sup>-2</sup> day <sup>-1</sup>		Rain	Rain days	Evaporation		
			Open water trans.	Pot. water trans.									
<b>1975</b>													
October	13.2	5.6	8.9	7.2	9	115	163	165	18	9	3	37	16
November	8.9	2.0	4.9	3.9	17	76	80	206	52	15	33	18	3
December	6.7	1.3	3.5	2.6	19	37	50	201	37	12	30	7	1
<b>1976</b>													
January	7.6 (+1.8)	2.2 (+2.0)	4.1	2.3	17	63 (+12)	73	345	27 (-36)	12	16	11	11
February	6.6 (+0.2)	1.3 (+0.9)	3.0	2.0	21	41 (-27)	95	215	23 (-28)	14	14	9	10
March	8.1 (-1.0)	1.0 (-0.3)	3.7	1.1	17	118 (+2)	241	270	17 (-29)	8	4	40	37
April	12.1 (0.0)	3.1 (-0.1)	7.4	3.8	16	159 (+8)	369	245	21 (-26)	4	—	64	61
May	17.3 (+1.4)	6.8 (+0.6)	12.4	8.1	8	195 (+2)	478	215	20 (-32)	15	Trace	90	89
June	23.7 (+4.8)	10.7 (+1.5)	18.3	11.6	1	269 (+66)	586	155	17 (-39)	2	Trace	140	119
July	25.1 (+4.5)	12.0 (+0.9)	20.1	11.9	0	245 (+54)	533	170	42 (-12)	7	Trace	152	124
August	23.7 (+3.4)	11.3 (+0.4)	18.0	10.9	1	254 (+74)	473	180	9 (-54)	5	—	124	103
September	17.7 (0.0)	9.2 (+0.1)	13.1	10.0	0	118 (-27)	265	175	106 (+45)	15	42	59	38
October	13.6 (+0.3)	7.5 (+1.7)	10.3	9.0	6	46 (-57)	128	185	123 (+64)	24	101	25	19
November	8.7 (-0.2)	2.7 (0.0)	5.0	4.3	23	61 (-1)	85	170	82 (+8)	19	71	15	3
December	4.1 (-2.4)	-1.0 (-2.0)	1.4	-0.1	28	60 (+15)	59	185	87 (+24)	15	79	11	-2
Total or mean	14.0 (+1.1)	5.6 (+0.5)	9.7	6.2	138	1629 (+121)	3385	209	574 (-115)	140	327	740	612

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, 1878-1975; Sunshine, 1882-1975; Rain, 1948-75.

### WOBURN WEATHER 1975-76

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 maximum	Mean minimum	Soil at 10 cm	Dewpoint	Ground frosts			Rain (mm)	Rain days
<b>1975</b>									
October	13.7	5.9	8.7	7.6	10	123	151	19	10
November	8.9	2.1	5.0	4.1	18	61	183	35	15
December	6.9	1.3	3.8	2.8	14	26	197	32	10
<b>1976</b>									
January	7.9 (+1.9)	2.8 (+2.3)	4.4	3.1	11	49 (-2)	330	24 (-30)	11
February	6.9 (+0.5)	1.5 (+1.1)	3.2	2.5	15	42 (-24)	196	17 (-22)	13
March	8.3 (-1.1)	0.7 (-0.7)	3.7	2.1	18	106 (-10)	235	19 (-24)	7
April	12.3 (-0.2)	3.3 (-0.3)	7.3	4.0	14	143 (+1)	199	16 (-30)	6
May	17.3 (+1.3)	7.2 (+1.1)	12.0	7.9	4	161 (-23)	221	28 (-27)	15
June	24.0 (+4.7)	10.7 (+1.5)	18.6	11.1	1	262 (+62)	168	14 (-36)	3
July	25.2 (+4.3)	11.5 (+0.3)	20.1	12.1	3	233 (+53)	151	24 (-31)	5
August	23.8 (+3.1)	9.9 (-1.1)	17.8	11.5	5	227 (+55)	133	7 (-54)	3
September	17.5 (-0.5)	9.2 (0.0)	13.1	10.3	4	105 (-31)	146	93 (+40)	14
October	13.7 (-0.1)	7.8 (+1.7)	10.2	9.0	2	46 (-57)	170	108 (+55)	25
November	9.0 (-0.2)	2.9 (-0.3)	5.1	4.2	16	59 (-1)	164	50 (-14)	17
December	4.3 (-2.5)	-1.1 (-2.4)	1.4	0.3	25	59 (+14)	153	98 (+47)	14
Total or mean	14.2 (+0.9)	5.5 (+0.3)	9.7	6.5	118	1492 (+37)	189	498 (-126)	133

#### NOTES ON THE TABLE

1. Standard long period is 1930-75. Departures are in brackets.

*BROOM'S BARN WEATHER 1975-76*  
 Latitude 52° 16' N; Longitude 0° 34' E; Altitude 75 m

	Temperature (°C)				Ground frosts	Radiation		Wind Run at 2 m km day <sup>-1</sup>	Water (mm)			
	Mean maximum	Mean minimum	Soil at 10 cm	Dewpoint		Sunshine hours	mWh cm <sup>-2</sup> day <sup>-1</sup>		Rain	Rain days	Open water	Pot. trans
<b>1975</b>												
October	13.5	6.3	9.1	7.3	3	124	159	172	11	7	37	17
November	8.8	2.3	4.7	3.8	13	73	75	208	56	17	15	3
December	6.8	1.8	3.2	2.7	13	35	44	216	31	11	7	3
<b>1976</b>												
January	7.3 (+1.0)	2.5 (+1.0)	4.1	2.1	10	43 (-2)	62	371	46 (+2)	12	—	13
February	6.8 (+0.4)	1.6 (+0.6)	2.7	1.9	15	49 (-14)	95	228	22 (-12)	10	—	12
March	7.8 (-0.9)	1.4 (-0.3)	3.4	0.4	17	115 (+6)	190	300	13 (-23)	10	45	31
April	12.1 (+0.5)	3.9 (+0.1)	7.9	4.2	6	165 (+28)	325	212	12 (-35)	6	79	50
May	17.3 (+1.3)	7.8 (+0.9)	12.6	7.7	1	193 (+48)	396	229	46 (+4)	14	112	81
June	24.0 (+4.9)	11.8 (+2.3)	19.3	11.4	0	286 (+72)	550	179	7 (+46)	3	166	116
July	24.9 (+4.2)	12.3 (+0.7)	21.0	11.7	0	278 (+100)	490	192	32 (-17)	6	212	114
August	23.5 (+2.4)	11.2 (-0.4)	18.4	12.0	0	245 (+69)	403	179	23 (-27)	6	156	84
September	18.0 (-0.3)	10.3 (+0.6)	13.6	11.1	0	135 (-12)	241	183	48 (-9)	18	61	39
October	13.9 (-0.3)	8.3 (+1.2)	10.6	9.8	0	55 (-52)	112	188	97 (+55)	24	30	13
November	8.7 (-0.2)	3.6 (+0.4)	5.2	4.6	5	74 (+6)	70	177	78 (+12)	19	12	-1
December	4.1 (-2.7)	-0.3 (-2.1)	1.4	0.6	22	69 (+27)	53	199	55 (+4)	15	—	-4
Total or mean	14.0 (+0.8)	6.2 (+0.4)	10.0	6.5	76	1707 (+232)	249	220	479 (-93)	143	—	548

NOTES ON THE TABLE

1. Except for the last column all quantities are measured.
2. Departures from averages (in brackets) are for different periods.
3. Air temperature and rainfall 1964-75, sunshine 1965-75.

### SAXMUNDHAM WEATHER 1976

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	Evaporation open water	A	B
January	5.2	4.2	3.9	10	63	383	35	10	—	85	102
February	4.3	3.4	3.3	16	90	235	22	8	—	127	212
March	4.6	3.6	2.2	15	198	296	15	8	—	181	323
April	7.8	7.8	3.9	9	367	277	12	6	92	333	354
May	12.5	12.4	7.8	3	447	248	22	9	100	726	356
June	16.9	17.9	12.2	2	598	182	9	3	155	1343	358
July	18.1	19.5	13.9	0	592	196	65	6	175	2044	358
August	17.1	18.5	14.4	0	449	208	52	7	127	2693	358
September	14.0	13.6	12.2	0	257	201	128	18	92	3154	358
October	11.3	11.3	10.6	1	122	252	109	19	13	3481	358
November	6.9	5.9	5.5	12	75	239	70	16	45	3588	388
December	2.7	2.2	1.7	16	53	270	46	13	—	3595	562
Total or mean	10.1	10.0	7.6	84	276	249	585	123	—	—	—

#### 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 09.00 GMT.
4. Radiation was measured with a Kipp Solarimeter.
5. Rain and evaporation were measured in inches.
6. 'Evaporation' is the mean of two open water tanks installed on 23 March 1976. They are 56 cm diameter, 30 cm deep and set 15 cm in the ground. Water level is about 6 cm below the rim.
7. Calculated values of accumulated temperature are: A. Day-degrees above 42°F. B. Day-degrees below 42°F.