

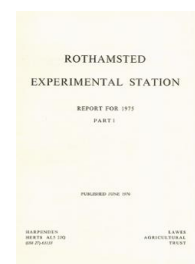
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ROTHAMSTED  
RESEARCH

## Report for 1975 - Part 1

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

#### Rothamsted Research

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## WEATHER TABLES

**ROTHAMSTED WEATHER 1974-75**  
 Latitude 51° 48' 30" N; Longitude 0° 21' 10" W; Altitude 128 m

	Temperature (°C)			Radiation			Wind			Water (mm)			
	Mean maximum	Mean minimum	Soil at 10 cm	Dewpoint	Frosts	Sunshine hours	mWh cm <sup>-2</sup> day <sup>-1</sup>	Run at 2 m km day <sup>-1</sup>	Rain	Rain days bare soil	Drainage water	Open water	Pot. trans.
<b>1974</b>													
October	9.7	4.3	6.5	4.6	7	90	132	241	103	22	80	29	16
November	9.3	3.8	5.5	5.2	11	45	59	247	139	26	123	14	4
December	9.9	4.9	5.7	4.6	10	58	44	363	37	15	23	10	7
<b>1975</b>													
January	9.1 (+3.4)	3.2 (+3.0)	4.9	4.7	16	37 (-14)	43	275	98 (+37)	22	83	15	2
February	7.7 (+1.3)	0.8 (+0.4)	3.2	2.1	20	65 (-3)	110	188	34 (-17)	9	28	15	7
March	7.0 (-2.1)	1.7 (+0.4)	3.6	2.3	17	60 (-56)	152	256	89 (+44)	24	59	18	21
April	12.1 (0.0)	4.1 (+0.9)	7.0	4.5	13	125 (-26)	302	234	53 (+6)	19	27	41	52
May	13.5 (-2.4)	5.4 (-0.8)	10.1	5.5	7	163 (-31)	373	263	66 (+14)	10	29	77	69
June	20.1 (+1.2)	8.4 (-0.8)	15.9	8.3	3	289 (+87)	574	202	23 (-34)	7	Trace	125	111
July	22.7 (+2.1)	12.0 (+0.9)	19.1	11.9	0	232 (+42)	474	181	19 (-37)	10	Trace	116	103
August	24.8 (+4.5)	12.6 (+1.7)	18.5	13.0	0	233 (+54)	416	133	19 (-45)	9	Trace	119	89
September	18.4 (+0.7)	8.9 (-0.2)	13.3	9.8	1	155 (+10)	273	196	103 (+44)	16	32	75	47
October	13.2 (-0.1)	5.6 (-0.2)	8.9	7.2	9	115 (+12)	163	165	18 (-43)	9	3	37	16
November	8.9 (0.0)	2.0 (-0.7)	4.9	3.9	17	76 (+14)	80	206	52 (-22)	15	33	18	3
December	6.7 (+0.3)	1.3 (+0.3)	3.5	2.6	19	37 (-8)	50	201	37 (-27)	12	30	7	1
Total or mean	13.7 (+0.7)	5.5 (+0.4)	9.4	6.3	122	1587 (+81)	251	208	611 (-80)	162	324	663	521

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, 1878-1974; Sunshine, 1882-1974; Rain, 1948-74.

WOBURN WEATHER 1974-75

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>1974</b>									
October	10.1	4.1	6.7	4.8	12	79	177	90	19
November	9.4	4.0	5.6	5.3	9	43	249	121	22
December	10.2	5.3	5.9	5.3	9	52	391	34	15
<b>1975</b>									
January	9.4(+2.8)	3.9(+3.5)	5.1	4.6	14	31(-19)	308	63(+9)	20
February	7.3(+0.9)	0.5(+0.1)	3.5	2.0	20	36(-30)	137	33(-6)	8
March	7.1(-2.4)	1.8(+0.4)	3.9	2.6	11	56(-61)	203	106(+65)	22
April	12.3(-0.2)	4.3(+0.7)	7.3	5.2	10	106(-36)	215	71(+26)	18
May	13.6(-2.4)	5.4(-0.7)	10.7	5.9	6	152(-32)	205	62(+8)	10
June	20.3(+1.0)	7.5(-1.7)	16.4	8.8	3	262(+64)	164	34(-17)	6
July	22.8(+2.0)	12.0(+0.8)	18.8	12.4	0	218(+39)	201	30(-26)	12
August	24.8(+4.2)	12.1(+1.2)	19.0	13.5	0	216(+45)	141	10(-52)	8
September	18.3(+0.3)	8.8(-0.4)	12.8	10.4	1	141(+6)	208	94(+42)	17
October	13.7(-0.1)	5.9(-0.2)	8.7	7.6	10	123(+21)	151	19(-35)	10
November	8.9(-0.3)	2.1(-1.1)	5.0	4.1	18	61(+1)	183	35(-30)	15
December	6.9(+0.1)	1.3(+0.0)	3.8	2.8	14	26(-19)	197	32(-19)	10
Total or mean	13.8(+0.5)	5.5(+0.2)	9.6	6.7	107	1428(-21)	193	589(-35)	156

NOTE ON THE TABLE

1. Standard long period is 1930-1974. Departures are in brackets.

WEATHER TABLES

*BROOM'S BARN WEATHER 1974-75*  
 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 maximum	Mean minimum	Soil at 10 cm	Dewpoint	Ground Frosts	Sunshine hours	mWh cm <sup>-2</sup> day <sup>-1</sup>		Rain	Rain days	Open water trans.
<b>1974</b>											
October	9.9	4.3	6.5	5.0	2	74	116	220	107	19	33
November	9.3	3.9	5.1	4.9	6	49	63	231	98	23	19
December	10.2	1.9	5.5	5.0	4	47	47	383	33	13	22
<b>1975</b>											
January	9.1 (+3.1)	3.9 (+2.6)	4.7	4.3	3	39 (-7)	50	303	63 (+21)	19	16
February	7.5 (+1.2)	1.4 (+0.5)	3.1	2.5	12	73 (+12)	104	213	17 (-18)	10	10
March	6.9 (-2.0)	2.0 (+0.3)	3.7	2.3	11	53 (-67)	133	233	65 (+32)	25	23
April	11.8 (+0.2)	4.4 (+0.7)	7.1	4.6	9	116 (-23)	274	242	55 (+8)	19	56
May	13.5 (-1.7)	5.9 (-1.0)	10.4	5.5	4	163 (-29)	355	218	45 (+3)	10	97
June	19.6 (+0.6)	8.6 (-0.9)	15.9	8.6	0	278 (+70)	529	184	46 (-8)	5	160
July	22.9 (+2.4)	12.4 (+0.9)	18.4	12.6	0	214 (+39)	452	203	20 (-31)	7	148
August	25.0 (+4.3)	13.6 (+2.2)	19.8	13.2	0	243 (+73)	401	172	14 (-40)	5	165
September	18.6 (+0.3)	9.9 (+0.2)	13.9	10.1	0	159 (+13)	262	213	77 (+22)	15	87
October	13.5 (-0.8)	6.3 (-0.8)	9.1	7.3	3	124 (+18)	159	172	11 (-34)	7	37
November	8.8 (-0.1)	2.3 (-0.8)	4.7	3.8	13	73 (+5)	75	208	56 (-11)	17	15
December	6.8 (0.0)	1.8 (0.0)	3.2	2.7	13	35 (-8)	44	216	31 (-22)	11	7
Total or mean	13.7 (+0.6)	6.0 (+0.3)	9.5	6.5	68	1570 (+96)	237	215	500 (-79)	150	821

- NOTES ON THE TABLE
1. Except for the last column all quantities are measured.
  2. Departures from averages (in brackets) are for different periods: air temperature and rainfall 1964-1974, sunshine 1965-1974.

SAXMUNDHAM WEATHER 1975

Latitude 52° 13' N; Longitude 1° 28' E; Altitude 37 m

	Temperature (°C)			Ground frosts	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				Rain	Rain days	Evaporation open water	A	B
January	6.4	5.3	5.0	3	54	348	94	19	—	82	37
February	4.5	3.4	2.8	18	132	190	13	5	—	115	120
March	4.5	4.7	2.2	10+	139	243	65	19+	—	140	205
April	6.9	6.9	5.0	9	286	251	48	18	—	284	258
May	9.3	10.9	6.7	4	399	265	50	12	89	501	266
June	13.5	15.5	9.4	1	538	193	23	8	117	933	268
July	16.8	17.0	12.8	1	465	182	46	9	114	1561	268
August	18.5	19.2	16.1	0	444	159	28	7	124	2285	268
September	14.5	14.5	11.7	0	274	243	107	13	102	2774	268
October	10.4	9.6	7.8	1	158	185	19	10	51	3048	270
November	5.9	5.3	5.0	13	70	201	85	14	25	3131	317
December	4.2	3.3	2.8	15+	44	191	36	9+	—	3162	421
Total or mean	9.6	9.6	7.3	75+	250	221	614	143+	—	—	—

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 April 1975. 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.