

Thank you for using eradoc, a platform to publish electronic copies of the Rothamsted Documents. Your requested document has been scanned from original documents. If you find this document is not readable, or you suspect there are some problems, please let us know and we will correct that.



ROTHAMSTED
RESEARCH

Rothamsted Experimental Station Report for 1987

[Full Table of Content](#)



Broom's Barn Weather 1986-87

Rothamsted Research

Rothamsted Research (1988) *Broom's Barn Weather 1986-87* ; Rothamsted Experimental Station Report For 1987, pp 234 - 234 - DOI: <https://doi.org/10.23637/ERADOC-1-28>

BROOM'S BARN WEATHER 1986-87
 Latitude 52° 16' N; Longitude 0° 34' E; Altitude 75 m

	1987															
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	June	July	Aug	Sept	Oct	Nov	Dec	Year
TEMPERATURE (°C)																
Mean screen maximum	15.1	10.6	8.4	2.2	6.4	6.8	14.7	14.2	16.7	20.0	20.1	18.5	13.9	8.7	7.8	12.5
Difference from average	+0.8	+1.4	+1.7	-3.9	+0.2	-2.2	+3.1	-1.4	-2.4	-1.0	-1.1	+0.2	-0.4	-0.5	+1.1	-0.7
Mean screen minimum	7.6	4.8	2.9	-1.8	0.6	0.2	5.9	5.6	9.5	11.7	11.9	10.3	6.9	4.2	3.5	5.7
Difference from average	+0.2	+1.2	+1.1	-2.2	-0.3	-1.9	+2.4	-1.0	-0.2	+0.1	+0.2	+0.2	-0.5	+0.6	+1.7	-0.1
Soil at 10 cm.	10.3	6.5	4.1	0.7	2.3	2.9	9.0	10.9	14.0	17.6	16.1	13.9	9.4	6.1	4.7	9.0
Dew point	9.1	5.7	3.0	-1.4	1.8	1.1	7.1	6.4	10.2	12.1	12.0	11.0	8.4	5.1	4.1	6.5
No. of days with ground frost	1	5	15	23	15	22	1	6	0	0	0	0	4	8	8	87
Difference from average	-2	-3	+2	+9	0	+9	-8	+4	0	0	0	0	+1	0	-5	+10
RADIATION																
Sunshine (h per month)	127	70	61	45	58	92	161	179	105	161	145	162	127	48	27	1311
Difference from average	+18	+3	+12	-6	-4	-14	+16	-11	-96	-22	-32	+17	+18	-19	-22	-175
Mean daily radiation (MJ m ⁻² day ⁻¹)	6.5	3.3	1.9	2.3	4.4	7.6	13.5	16.2	14.0	15.3	12.8	11.1	6.8	2.7	1.5	9.0
Difference from average	+0.4	+0.3	+0.1	-0.0	+0.1	-0.7	+0.8	-0.6	-4.9	-1.2	-1.3	+1.4	+0.7	-0.3	-0.3	-0.6
Mean daily diffuse radiation (MJ m ⁻² day ⁻¹)	3.7	2.1	1.2	1.4	3.1	4.9	7.9	9.7	10.1	9.5	8.6	5.8	3.4	2.0	1.1	5.6
WIND (km day⁻¹)																
Wind run at 2 m	188	230	269	129	166	228	194	173	135	132	121	150	165	147	222	164
Difference from average	-9	-9	+21	-125	-67	-23	-35	-32	-48	-41	-51	-43	-33	-92	+26	-51
WATER (mm per month)																
Rainfall (5 inch gauge)	80	67	71	14	28	51	50	57	121	72	110	32	123	54	21	733
Difference from average	+28	+5	+17	-34	-8	+8	+8	+4	+69	+29	+59	-24	+71	-8	-33	+140
Rain days	15	20	17	12	14	19	15	16	23	15	14	15	15	12	10	180
Difference from average	+2	+3	0	-7	0	+4	+1	+2	+12	+5	+2	+3	+2	-5	-7	+11
Open water evaporation Class 'A' pan	41	21	19	-	-	-	73	85	64	95	86	68	28	13	19	-
Difference from average	+2	+1	+9	-	-	-	+6	-22	-62	-36	-39	-18	-11	-7	+8	-
Potential transpiration	21	7	5	0	9	26	59	77	89	84	69	51	20	2	2	488
Difference from average	-1	0	+3	-5	-3	-10	+2	-10	-14	-15	-14	+3	-2	-5	+1	-73

NOTES ON THE TABLE

1. Long term averages are for 20 years except wind, 16 years.
2. Except for potential transpiration, all quantities are measured.
3. Evaporation measurements were not possible January-March because the pan was frozen.