

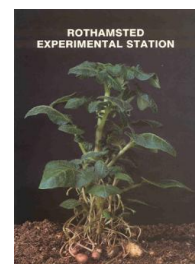
Thank you for using eradoc, a platform to publish electronic copies of the Rothamsted Documents. Your requested document has been scanned from original documents. If you find this document is not readable, or you suspect there are some problems, please let us know and we will correct that.



ROTHAMSTED
RESEARCH

Rothamsted Experimental Station Report for 1983

[Full Table of Content](#)



Broom's Barn Weather 1982-83

Rothamsted Research

Rothamsted Research (1984) *Broom's Barn Weather 1982-83* ; Rothamsted Experimental Station Report For 1983, pp 336 - 336 - DOI: <https://doi.org/10.23637/ERADOC-1-23>

BROOM'S BARN WEATHER 1982-83

Latitude 52° 16' N; Longitude 0° 34' E; Altitude 75 m

	1982		1983		Jan	Feb	Mar	Apr	May	June	July	Aug	Sept	Oct	Nov	Dec	Year
TEMPERATURE (°C)																	
Mean screen maximum	13.2	10.2	6.9	9.1	4.0	9.8	11.1	14.0	18.9	25.4	22.5	17.6	14.2	10.0	7.7	13.7	
Difference from average	-1.0	+1.1	+0.3	+3.2	-2.3	+0.9	-0.5	-1.9	-0.2	+4.7	+1.4	-0.9	0.0	+0.9	+1.1	+0.5	
Mean screen minimum	7.7	5.6	1.2	3.6	-1.2	3.0	3.0	6.5	9.9	13.4	12.5	10.9	7.4	4.9	2.9	6.4	
Difference from average	+0.5	+2.3	-0.4	+2.5	-2.2	+0.9	-0.7	-0.3	+0.2	+1.9	+0.9	+0.9	+0.2	+1.4	+1.3	+0.6	
Soil at 10 cm	9.8	7.0	2.7	4.7	1.3	4.6	6.4	10.8	16.0	20.2	18.3	13.5	9.9	6.8	4.0	9.7	
Dewpoint	9.2	5.9	1.8	3.6	-1.2	3.4	4.6	7.6	10.4	14.7	13.1	10.6	7.9	5.5	3.5	7.0	
No. of days with ground frost	2	5	16	6	20	10	10	1	0	0	0	0	1	6	13	67	
RADIATION																	
Sunshine (h per month)	76	64	52	52	94	86	135	141	177	233	196	111	129	39	58	1451	
Difference from average	-33	-6	+6	+3	+34	-25	-6	-56	-25	+52	+21	-39	+22	-41	+11	-37	
Mean daily radiation (MJ m ⁻² day ⁻¹)	5.1	2.8	2.0	2.5	5.6	7.8	12.3	14.6	18.9	19.3	15.0	8.9	6.4	2.7	2.1	9.7	
Mean daily diffuse radiation (MJ m ⁻² day ⁻¹)	3.6	2.0	1.5	1.9	3.6	5.7	7.6	10.2	11.4	10.7	8.8	5.6	3.8	2.1	1.4	6.1	
WIND (km day⁻¹)																	
Wind run at 2 m	141	246	231	352	243	250	200	172	171	127	142	229	240	145	257	211	
WATER (mm per month)																	
Rainfall (5 inch gauge)	119	71	51	39	40	38	86	120	30	34	10	65	39	55	40	596	
Difference from average	+72	+11	-5	-6	+7	-7	+43	+74	-22	-11	-45	+14	-12	-6	-13	+16	
Raindays	22	15	11	15	11	17	19	24	9	7	4	16	15	10	16	163	
Open water evaporation sunken tank	21	23	10	17	14	34	49	82	147	147	137	73	42	10	7	729	
Difference from average	-17	+4	-4	+3	-1	-5	-14	-22	-5	+23	+18	-11	+5	-9	-6	-24	
Open water evaporation Class 'A' pan	25	21	12	35	28	43	59	81	119	151	132	76	47	11	11	793	
Potential transpiration	13	6	2	14	14	36	47	68	102	116	87	50	25	7	2	568	

NOTES ON THE TABLE

1. Except for potential transpiration, all quantities are measured.
2. Long period averages are: air temperature 1964-82; sunshine 1965-82; rainfall 1963-82; evaporation 1970-82.