

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

## Report for 1980 - Part 1

[Full Table of Content](#)



### Weather Tables Broom's Barn

#### Rothamsted Research

Rothamsted Research (1981) *Weather Tables Broom's Barn* ; Report For 1980 - Part 1, pp 286 - 286  
- DOI: <https://doi.org/10.23637/ERADOC-1-137>

*BROOM'S BARN WEATHER 1979-80*

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

	1979			1980												
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	June	July	Aug	Sept	Oct	Nov	Dec	Year
<b>TEMPERATURE (°C)</b>																
Mean screen maximum	15.2	9.5	7.8	4.7	8.6	8.1	12.9	15.8	19.1	19.0	21.1	19.5	13.0	8.4	7.6	13.1
Difference from average	+0.8	+0.5	+1.1	-1.2	+2.4	-0.7	+1.4	-0.1	0.0	-1.8	+0.1	+1.2	-1.5	-0.6	+0.8	0.0
Mean screen minimum	7.9	3.3	3.3	-0.3	2.5	1.7	4.0	5.6	9.9	10.6	12.1	11.4	5.7	3.6	2.1	5.7
Difference from average	+0.6	0.0	+1.5	-1.3	+1.6	-0.2	+0.3	-1.2	+0.3	-1.0	+0.6	+1.6	-1.7	+0.3	+0.2	-0.1
Soil at 10 cm	10.4	5.1	4.4	1.1	4.1	3.8	7.7	11.5	15.8	15.2	16.7	14.3	8.2	5.2	3.5	8.9
Dew point	9.8	4.1	3.2	0.2	3.6	2.6	3.9	5.1	10.3	11.4	12.7	12.0	6.8	3.8	3.3	6.3
No. of days with ground frost	5	6	11	22	6	13	9	4	0	0	0	0	6	14	15	89
<b>RADIATION</b>																
Sunshine (h per month)	119	66	64	68	52	85	176	239	206	161	138	150	130	52	48	1505
Difference from average	+14	-6	+19	+22	-8	-27	+39	+45	-4	-22	-39	+2	+24	-20	+1	+13
Mean daily radiation (MJ m <sup>-2</sup> day <sup>-1</sup> )	5.6	2.7	1.7	2.5	3.7	7.0	13.4	19.0	18.5	14.2	12.2	10.6	6.6	2.7	1.8	9.3
<b>WIND (km day<sup>-1</sup>)</b>																
Wind run at 2 m	178	227	293	185	203	242	199	219	188	193	197	197	224	288	319	22
<b>WATER (mm per month)</b>																
Rainfall (5 inch gauge)	53	41	96	35	42	59	17	12	92	65	36	19	91	55	42	565
Difference from average	+11	-22	+42	-13	+6	+19	-27	-34	+41	+21	-19	-31	+49	-7	-15	-10
Rain days	9	15	21	15	12	17	6	6	16	15	12	7	14	19	20	159
Open water (tank) evaporation	37	—	—	—	—	—	71	129	107	91	106	74	45	—	—	623
Potential transpiration	14	5	2	0	11	27	60	100	99	72	75	54	21	8	4	531

NOTES ON THE TABLE

1. Except for potential evaporation, all quantities are measured.  
Long period averages are for different periods; air temperatures 1964-79; sunshine 1965-79.