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# Rothamsted Experimental Station Report for 1983

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## Rothamsted Weather 1982-83

### Rothamsted Research

Rothamsted Research (1984) *Rothamsted Weather 1982-83* ; Rothamsted Experimental Station Report For 1983, pp 334 - 334 - DOI: <https://doi.org/10.23637/ERADOC-1-23>

**ROTHAMSTED WEATHER 1982-83**

Latitude 51° 48' 30" N; Longitude 0° 21' 10" W; Latitude 128 m

	1983												Year			
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	June	July	Aug	Sept	Oct	Nov	Dec	Year
<b>TEMPERATURE (°C)</b>																
Mean screen maximum	12.9	10.2	6.6	8.7	3.5	9.6	10.8	14.0	18.8	25.6	23.1	17.4	13.7	9.7	7.7	13.5
Difference from average	-0.4	+1.3	+0.1	+3.0	-2.9	+0.5	-1.3	-1.9	-0.1	+5.0	+2.7	-0.4	+0.4	+0.7	+1.2	+0.6
Mean screen minimum	6.3	4.8	1.0	3.2	-1.3	2.2	2.7	6.2	9.7	13.4	11.8	10.1	6.4	4.5	1.9	5.9
Difference from average	+0.5	+2.1	0.0	+3.1	-1.7	+0.9	-0.5	0.0	+0.5	+2.3	+0.9	+1.0	+0.6	+1.8	+0.9	+0.8
Soil at 10 cm	9.4	7.2	2.9	4.7	1.5	4.3	5.8	10.1	15.4	20.6	18.1	13.1	9.4	6.8	4.1	9.5
Dewpoint	8.5	6.2	2.1	4.0	-1.3	3.6	3.9	6.9	10.0	14.7	12.3	10.6	7.5	5.2	3.0	6.7
No. of days with ground frost	9	13	22	17	25	22	18	4	2	0	2	2	11	11	21	135
<b>RADIATION</b>																
Sunshine (h per month)	73	67	54	49	75	98	142	120	185	262	225	111	115	46	58	1486
Difference from average	-30	+4	+9	-3	+8	-17	-8	-74	-16	+72	+45	-33	+12	-16	+12	-18
Mean daily radiation (MJ m <sup>-2</sup> day <sup>-1</sup> )	4.9	2.9	1.9	2.3	5.1	7.5	12.1	13.7	18.0	20.5	16.1	9.0	6.1	2.8	2.0	9.6
<b>WIND (km day<sup>-1</sup>)</b>																
Wind run at 2 m	162	242	244	355	314	262	250	190	190	137	166	226	242	180	247	230
<b>WATER (mm per month)</b>																
Rainfall (5 inch walled gauge)	127	100	72	69	43	44	118	93	26	35	13	78	41	50	62	672
Difference from average	+65	+30	+6	+7	-8	-9	+72	+40	-31	-17	-47	+20	-22	-21	-5	-21
Rain days	20	23	17	20	13	19	22	22	9	6	4	14	13	8	18	168
Drainage through 50 cm bare undisturbed soil	103	84	68	49	29	19	78	46	4	-	-	6	19	31	57	338
Open water (tank) evaporation	29	17	14	13	4	29	51	65	102	131	134	61	39	18	10	657
Potential evaporation	12	3	1	7	14	30	50	67	98	122	94	45	23	5	0	555

NOTES ON THE TABLE

1. Except for potential evaporation, all quantities are measured.
2. Drainage and evaporation are measured in inches.
3. Long period average s are for different periods: air temperatures 1878-1982; sunshine 1892-1982; rain 1948-1982.