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# Rothamsted Experimental Station Report for 1985

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## Rothamsted Weather 1984-85

### Rothamsted Research

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**ROTHAMSTED WEATHER 1984-85**

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

	1985												1984		
	Jan	Feb	Mar	Apr	May	June	July	Aug	Sept	Oct	Nov	Dec	Year	Year	Year
<b>TEMPERATURE (°C)</b>															
Mean screen maximum	2.7	4.7	7.9	12.3	14.5	17.0	21.0	19.0	19.0	14.5	6.5	8.5	12.3		
Difference from average	-2.8	-1.3	-1.0	+0.3	-1.3	-2.0	+0.5	-1.4	+1.1	+0.6	-2.5	+1.7	-0.7		
Mean screen minimum	-2.7	-1.3	0.6	4.1	6.4	8.1	10.9	10.3	9.7	7.4	0.4	4.1	4.8		
Difference from average	-2.8	-1.5	-0.8	+0.7	+0.1	-0.9	0.0	-0.6	+0.5	+0.9	-2.5	+2.8	-0.3		
Soil at 10 cm	1.0	2.5	3.1	7.5	10.6	13.5	17.0	14.2	13.7	10.3	3.9	5.9	8.6		
Dew point	-1.9	-1.4	2.2	4.4	7.1	9.3	12.7	11.5	11.7	8.7	1.6	5.1	5.9		
No. of days with ground frost	29	24	23	11	10	3	0	0	1	12	22	13	148		
<b>RADIATION</b>															
Sunshine (h per month)	43	82	98	144	163	165	221	181	134	110	81	38	1460		
Difference from average	-7	+20	-10	+4	-26	-32	+41	+14	-7	+10	+19	-7	+19		
Mean daily radiation (MJ m <sup>-2</sup> day <sup>-1</sup> )	2.4	5.4	7.7	12.6	13.7	16.7	17.9	13.7	10.8	6.1	3.5	1.6	112.1		
Difference from average	+0.2	+1.4	+0.2	+0.9	-1.9	-0.8	+2.1	+0.5	+1.0	+0.5	+0.7	-0.1	+4.7		
<b>WIND (km day<sup>-1</sup>)</b>															
Wind run at 2 m	233	220	207	275	189	167	135	187	151	133	219	249	197		
<b>WATER (mm per month)</b>															
Rainfall (5 inch walled gauge)	58	29	38	31	49	102	48	63	18	22	51	108	617		
Difference from average	-5	-23	-14	-17	-2	+44	-3	+2	-41	-37	-19	+39	-76		
Rain days	17	6	17	14	11	18	14	19	7	8	17	20	168		
Drainage through 50 cm bare undisturbed soil	54	55	22	8	10	48	0	16	0	0	11	95	319		
Open water (tank) evaporation	3	3	19	55	65	86	111	87	84	48	19	10	590		
Potential evaporation	4	13	24	60	65	83	92	71	49	19	5	0	485		

**NOTES ON THE TABLE**

1. Except for potential evaporation, all quantities are measured.
2. Drainage and evaporation are measured in inches.
3. Averages are for 30 years 1951-80, except radiation 29 years 1956-84.