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## Rothamsted Experimental Station Report for 1986

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### Rothamsted Weather 1985-86

#### Rothamsted Research

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**ROTHAMSTED WEATHER 1985-86**

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

	1986												Year			
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	June	July	Aug	Sept	Oct	Nov	Dec	Year
<b>TEMPERATURE (°C)</b>																
Mean screen maximum	14.5	6.5	8.5	5.7	0.1	8.6	9.2	15.1	19.8	20.8	18.6	16.3	15.0	10.5	8.4	12.3
Difference from average	+0.6	-2.5	+1.7	+0.2	-5.9	-0.3	-2.8	-0.7	+0.8	+0.3	-1.8	-1.6	+1.1	+1.5	+1.6	-0.6
Mean screen minimum	7.4	0.4	4.1	0.0	-4.5	0.7	2.0	6.3	9.1	11.2	9.7	6.3	7.2	4.1	2.3	4.5
Difference from average	+0.9	-2.5	+2.8	-0.1	-4.7	-0.7	-1.4	0.0	+0.1	+0.3	-1.2	-2.9	+0.7	+1.2	+1.0	-0.6
Soil at 10 cm	10.3	3.9	5.9	2.1	0.3	2.8	5.0	10.5	15.1	17.6	14.7	10.9	10.0	6.6	4.3	8.3
Dew point	8.7	1.6	5.1	0.5	-4.3	2.0	2.9	7.4	10.2	12.3	10.6	8.2	9.0	5.9	3.1	5.7
No. of days with ground frost	12	22	13	25	27	22	19	12	4	0	2	13	7	15	21	167
<b>RADIATION</b>																
Sunshine (h per month)	110	81	38	73	67	123	121	176	225	187	151	170	121	68	53	1535
Difference from average	+10	+19	-7	+24	+5	+15	-19	-13	+28	+7	-16	+29	+21	+6	+8	+95
Mean daily radiation (MJ m <sup>-2</sup> day <sup>-1</sup> )	6.1	3.5	1.6	2.5	4.9	8.3	11.2	14.6	18.9	16.6	12.9	11.3	6.6	3.0	1.9	9.4
Difference from average	+0.5	+0.7	-0.1	+0.3	+0.8	+0.8	-0.5	-1.0	+1.4	+0.7	-0.4	+1.5	+1.0	+0.2	+0.2	+0.4
<b>WIND (km day<sup>-1</sup>)</b>																
Wind run at 2 m	133	219	249	326	295	259	232	226	190	130	152	170	191	234	303	226
<b>WATER (mm per month)</b>																
Rainfall (5 inch walled gauge)	22	51	108	85	26	56	84	62	16	44	104	30	88	85	82	762
Difference from average	-37	-19	+39	+22	-26	+4	+37	+11	-41	-7	+42	-29	+28	+16	+13	+70
Rain days	8	17	20	20	8	20	22	22	7	13	12	4	14	22	18	182
Drainage through 50 cm bare undisturbed soil	0	11	95	63	15	34	54	11	TR	TR	46	10	48	92	62	435
Open water (tank) evaporation	48	19	10	12	0	26	37	70	110	115	115	84	52	15	13	649
Potential evaporation	19	5	0	4	11	30	44	71	101	86	72	44	19	1	4	487

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 1956-85.