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Rothamsted Experimental Station Report for 1987

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Rothamsted Weather 1985-87

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ROTHAMSTED WEATHER 1986-87

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

	1986	1987	Jan	Feb	Mar	Apr	May	June	July	Aug	Sept	Oct	Nov	Dec	Year	
TEMPERATURE (°C)																
Mean screen maximum	15.0	10.5	8.4	2.4	6.3	6.9	14.5	14.2	16.8	19.9	20.3	17.4	13.4	8.3	7.5	12.3
Difference from average	+1.1	+1.5	+1.6	-3.1	+0.3	-2.0	+2.5	-1.6	-2.2	-0.6	-0.1	-0.5	-0.7	+0.7	+0.7	-0.7
Mean screen minimum	7.2	4.1	2.3	-2.4	-0.1	0.1	5.5	8.6	11.0	10.5	9.3	6.0	3.3	3.0	5.0	5.0
Difference from average	+0.7	+1.2	+1.0	-2.5	-0.3	-1.3	+2.1	-1.3	+0.4	+0.1	-0.4	+0.1	-0.5	+0.4	+1.7	-0.2
Soil at 10 cm.	10.0	6.6	4.3	0.9	2.5	3.0	8.9	10.6	13.9	17.0	15.6	13.4	8.7	5.5	4.6	8.7
Dew point	9.0	5.9	3.1	-2.1	1.5	1.1	7.1	6.2	10.2	12.3	12.6	10.8	8.0	4.6	3.9	6.3
No. of days with ground frost	7	15	21	25	18	23	14	4	0	1	4	14	14	15	143	143
RADIATION																
Sunshine (h per month)	121	68	53	61	58	95	147	195	120	174	149	142	124	44	29	1338
Difference from average	+21	+6	+8	+11	-4	-13	+8	+6	-77	-7	-18	+2	+24	-18	-17	-103
Mean daily radiation (MJ m ⁻² day ⁻¹)	6.6	3.0	1.9	2.4	4.4	7.9	12.8	16.4	14.6	15.3	13.6	10.0	6.1	2.5	1.4	8.9
Difference from average	+1.0	+0.2	+0.2	+0.2	+0.3	+0.3	+1.1	+0.9	-2.9	-0.6	+0.3	+0.1	+0.4	-0.3	-0.3	-0.4
WIND (km day⁻¹)																
Wind run at 2 m	191	234	303	190	191	249	187	189	128	129	113	130	153	180	226	172
WATER (mm per month)																
Rainfall (5 inch walled gauge)	88	85	82	15	28	56	47	64	90	61	60	40	199	59	29	748
Difference from average	+28	+16	+13	-48	-24	+4	0	+12	+32	+10	-1	-19	+139	-10	-39	+56
Rain days	14	22	18													
Drainage through 50 cm Bank undisturbed soil	48	92	62	16	15	34	32	5	37	21	18	6	157	50	23	414
Open water (tank) evaporation	52	15	13	0	8	33	55	80	63	108	105	62	42	13	9	578
Potential evaporation	19	1	4	1	7	26	55	74	71	79	69	42	15	1	0	440

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—1956-85.