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Rothamsted Experimental Station Report for 1984

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Rothamsted Weather 1983-84

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ROTHAMSTED WEATHER 1983-84

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

	1983		1984													
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	June	July	Aug	Sept	Oct	Nov	Dec	Year
TEMPERATURE (°C)																
Mean screen maximum	13.7	9.7	7.7	6.4	5.8	7.3	12.8	13.3	19.3	22.6	23.1	16.9	14.5	10.7	7.6	13.3
Difference from average	-0.2	+0.7	+0.9	+0.9	-0.2	-1.6	+0.8	-2.5	+0.3	+2.1	+2.7	-1.0	+0.6	+1.7	+0.8	+0.4
Mean screen minimum	6.4	4.5	1.9	0.2	0.0	1.5	2.1	4.8	9.1	10.3	12.1	9.7	7.3	5.1	1.7	5.3
Difference from average	-0.1	+1.6	+0.6	+0.1	-0.2	+0.1	-1.3	-1.5	+0.1	-0.6	+1.2	+0.5	+0.8	+2.2	+0.4	+0.1
Soil at 10 cm	9.4	6.8	4.1	2.6	2.5	3.7	6.8	10.2	15.2	17.7	17.2	12.8	9.8	7.5	4.5	9.2
Dew point	7.5	5.2	3.0	1.0	0.8	2.0	1.4	5.7	10.5	11.5	13.3	10.4	9.4	6.3	3.5	6.3
No. of days with ground frost	11	11	21	28	22	22	22	14	3	0	0	3	12	10	21	157
RADIATION																
Sunshine (h per month)	115	46	58	91	72	45	233	136	242	228	201	100	93	50	48	1539
Difference from average	+15	-16	+12	+41	+10	-64	+93	-53	+45	+47	+34	-40	-7	-12	+2	+96
Mean daily radiation (MJ m ⁻² day ⁻¹)	6.1	2.8	2.0	2.9	4.3	6.3	16.4	13.5	20.0	18.8	14.9	8.1	5.6	2.7	1.7	115.2
Difference from average	+0.5	0.0	+0.3	+0.7	+0.3	-1.3	+4.9	-2.2	+2.6	+3.1	+1.7	-1.7	0.0	-0.1	0.0	+8.0
WIND (km day⁻¹)																
Wind run at 2 m	242	180	247	316	255	226	193	217	156	131	142	172	187	204	163	197
WATER (mm per month)																
Rainfall (5 inch walled gauge)	41	50	62	96	46	63	7	79	54	14	45	94	88	106	58	750
Difference from average	-19	-19	-7	+33	-6	+11	-40	+28	-4	-37	-16	+35	+28	+37	-11	+58
Rain days	13	8	18	21	14	12	6	13	10	7	10	15	16	22	20	166
Drainage through 50 cm bare undisturbed soil	19	31	57	80	34	42	1	22	17	0	0	26	60	89	55	426
Open water (tank) evaporation	39	18	10	23	14	28	68	69	102	122	104	61	31	19	9	650
Potential evaporation	23	5	0	3	10	28	71	67	99	106	81	44	16	5	0	530

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 28 years 1956-83.