

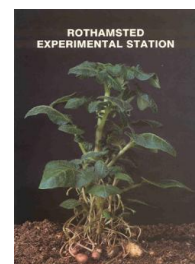
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Rothamsted Experimental Station Report for 1983

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Rothamsted Weather 1982-83

Rothamsted Research

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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
TEMPERATURE (°C)																
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
RADIATION																
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 ⁻² day ⁻¹)	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
WIND (km day⁻¹)																
Wind run at 2 m	162	242	244	355	314	262	250	190	190	137	166	226	242	180	247	230
WATER (mm per month)																
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.