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Weather Tables Rothamsted

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ROTHAMSTED WEATHER 1981-82

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

	1981			1982												
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	June	July	Aug	Sept	Oct	Nov	Dec	Year
TEMPERATURE (°C)																
Mean screen maximum	11.7	10.1	2.7	5.3	6.9	9.7	12.7	16.6	19.8	21.4	20.7	19.4	12.9	10.2	6.6	13.5
Difference from average	-1.6	+1.2	-3.8	-0.4	+0.5	+0.6	+0.6	+0.7	+0.9	+0.8	+0.3	+1.7	-0.4	+1.3	+0.1	+0.6
Mean screen minimum	4.6	3.6	-3.3	-0.9	1.2	1.6	3.5	5.9	11.1	11.3	11.1	9.3	6.3	4.8	1.0	5.5
Difference from average	-1.3	+0.9	-4.3	-1.0	+0.8	+0.3	+0.3	-0.3	+1.9	+0.2	+0.2	+0.2	+0.5	+2.1	0.0	+0.4
Soil at 10 cm	7.6	6.0	1.3	2.4	3.3	4.0	7.5	11.6	16.6	17.1	16.0	13.5	9.4	7.2	2.9	9.3
Dew point	5.7	5.0	-1.5	0.0	2.4	2.5	3.8	6.7	12.6	12.6	11.5	11.9	8.5	6.2	2.1	6.7
No. of days with ground frost	15	18	29	22	15	23	15	11	0	0	0	2	9	13	22	132
RADIATION																
Sunshine (h per month)	109	56	49	66	44	165	172	221	164	171	176	160	73	67	54	1533
Difference from average	+6	-6	+4	+15	-23	+51	+22	+28	-37	-20	-3	+15	-30	+4	+9	+31
Mean daily radiation (MJ m ⁻² day ⁻¹)	6.1	2.8	2.0	2.7	3.5	9.8	13.7	18.1	16.5	15.7	13.7	10.6	4.9	2.9	1.9	10.4
WIND (km day ⁻¹)																
Wind run at 2 m	222	216	215	242	210	281	214	192	151	185	179	144	162	242	244	258
WATER (mm per month)																
Rainfall (5 inch walled gauge)	72	45	55	57	31	83	22	60	113	42	42	47	127	100	72	796
Difference from average	+11	-26	-12	-5	-20	+31	-25	+7	+58	+11	-19	-12	+65	+30	+6	+105
Rain days	20	16	16	15	11	20	6	11	21	9	15	12	20	23	17	180
Drainage through 50 cm bare undisturbed soil	46	31	78	67	20	55	5	15	48	4	TR	9	103	84	68	478
Open water (tank) evaporation	35	18	2	3	12	38	68	90	79	103	100	74	29	17	14	627
Potential evaporation	21	6	0	6	10	34	62	91	87	94	79	45	12	3	1	524

NOTES ON THE TABLE

1. Except for potential evaporation, all quantities are measured.
2. Drainage and evaporation are measured in inches.
3. Long period averages are for different periods: air temperatures 1878-1981; sunshine 1892-1981; rain 1948-81.