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Weather Tables Rothamsted

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ROTHAMSTED WEATHER 1980-81

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

	1980			1981												
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	June	July	Aug	Sept	Oct	Nov	Dec	Year
TEMPERATURE (°C)																
Mean screen maximum	12.3	8.3	7.5	6.9	5.7	10.3	11.2	15.1	16.9	20.1	21.6	19.1	11.7	10.1	2.7	12.6
Difference from average	-1.1	-0.6	+1.0	+1.2	-0.7	+1.3	-0.9	-0.8	-2.0	-0.5	+1.2	+1.4	-1.6	+1.2	-3.8	-0.3
Mean screen minimum	4.7	3.1	1.4	1.1	-0.8	5.1	3.3	6.7	8.8	10.6	11.0	9.6	4.6	3.6	-3.3	5.0
Difference from average	-1.2	+0.4	+0.4	+1.0	-1.2	+3.8	+0.1	+0.5	-0.4	-0.5	+0.1	+0.5	-1.3	+0.9	-4.3	-0.1
Soil at 10 cm	7.9	5.3	3.6	3.2	2.1	6.4	7.1	10.6	14.0	16.2	16.1	13.7	7.6	6.0	1.3	8.7
Dew point	6.5	3.6	2.9	1.5	0.3	5.9	3.9	7.9	9.1	12.0	12.7	11.4	5.7	5.0	-1.5	6.1
No. of days with ground frost	11	18	22	20	22	8	12	5	1	0	1	0	15	18	29	131
RADIATION																
Sunshine (h per month)	129	68	58	61	74	53	126	117	148	137	206	149	109	56	49	1285
Difference from average	+26	+6	+13	+10	+7	-62	-24	-77	-54	-54	+27	+5	+6	-6	+4	-218
Mean daily radiation (MJ m ⁻² day ⁻¹)	6.7	3.1	2.1	2.6	4.4	5.7	12.0	13.0	16.1	14.9	14.4	10.7	6.1	2.8	2.0	8.7
WIND (km day⁻¹)																
Wind run at 2 m	219	323	314	257	247	305	261	183	209	155	127	167	222	226	215	215
WATER (mm per month)																
Rainfall (5 inch walled gauge)	97	45	41	41	18	118	51	82	33	62	42	93	72	45	55	712
Difference from average	+37	-26	-27	-22	-34	+68	+4	+30	-23	+9	-20	+35	+11	-26	-12	+20
Rain days	18	18	17	19	9	27	10	20	11	12	8	16	20	16	16	184
Drainage through 50 cm bare undisturbed soil	60	27	35	31	4	91	25	43	10	12	21	40	46	31	78	432
Open water (tank) evaporation	38	12	8	7	14	24	57	50	87	95	101	76	35	18	2	566
Potential evaporation	20	8	3	8	11	25	52	65	85	84	73	47	21	6	0	477

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 1878-1980; sunshine 1892-1980; rain 1948-80.