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## Rothamsted Experimental Station Report for 1984

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### Broom's Barn Weather 1983-84

#### Rothamsted Research

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**BROOM'S BARN WEATHER 1983-84**  
 Latitude 52° 16' N; Longitude 0° 34' E; Altitude 75 m

	1984												1983											
	Jan	Feb	Mar	Apr	May	June	July	Aug	Sept	Oct	Nov	Dec	Year	Oct	Nov	Dec	Year							
<b>TEMPERATURE (°C)</b>																								
Mean screen maximum	6.2	5.8	7.3	12.7	12.9	18.8	21.2	23.2	16.9	14.9	10.6	7.9	13.2	14.2	10.0	7.7	1482							
Difference from average	+0.2	-0.4	-1.6	+1.1	-3.0	-0.3	+0.2	+2.1	-1.6	+0.7	+1.4	+1.3	0.0	+0.8	+0.8	+1.1	1482							
Mean screen minimum	0.3	0.4	1.6	1.9	4.9	9.5	11.2	12.3	10.6	8.6	6.2	2.9	5.9	7.4	4.9	2.9	1482							
Difference from average	-0.8	-0.5	-0.5	-1.8	-1.9	-0.2	-0.4	+0.7	+0.5	+1.4	+2.7	+1.2	+0.1	+0.2	+1.4	+1.2	1482							
Soil at 10 cm	2.2	2.2	3.6	6.7	10.3	15.4	17.9	17.7	13.2	10.3	7.6	4.2	9.3	9.5	6.8	4.0	1482							
Dew point	1.0	0.7	2.3	2.6	5.4	10.7	11.9	13.8	10.6	8.9	6.6	3.8	6.5	7.9	5.5	3.4	1482							
No. of days with ground frost	21	17	18	17	7	0	0	0	0	1	2	13	96	6	6	13	96							
<b>RADIATION</b>																								
Sunshine (h per month)	91	75	36	221	125	194	213	193	87	115	53	79	1482	129	39	58	1482							
Difference from average	+42	+13	-73	+81	-69	-7	+31	+17	-61	+6	-15	+32	-3	+20	-29	+11	1482							
Mean daily radiation (MJ m <sup>-2</sup> day <sup>-1</sup> )	2.96	4.24	6.14	16.20	13.45	18.04	18.03	14.98	7.83	6.39	2.67	2.13	9.42	6.36	2.69	2.06	9.42							
Mean daily diffuse radiation (MJ m <sup>-2</sup> day <sup>-1</sup> )	1.74	3.18	5.31	7.38	6.84	11.26	10.31	8.59	5.29	3.58	1.82	1.22	5.54	3.79	2.13	1.44	5.54							
<b>WIND (km day<sup>-1</sup>)</b>																								
Wind run at 2 m	294	202	181	166	160	150	139	144	166	209	200	174	182	240	145	257	182							
<b>WATER (mm per month)</b>																								
Rainfall (5 inch gauge)	78	49	40	17	88	94	16	44	103	57	75	39	700	39	55	40	700							
Difference from average	+34	+15	-5	-28	+38	+43	-29	-9	+52	+7	+15	-14	+119	-11	-5	-13	+119							
Rain days	20	12	17	6	9	12	10	8	19	12	16	19	160	15	10	16	160							
Open water evaporation sunken tank	3	22	24	79	77	82	110	89	55	37	18	12	608	45	10	7	608							
Difference from average	-6	+7	-15	+17	-26	-40	-15	-31	-28	0	-1	+2	-136	+8	-9	-3	-136							
Open water evaporation Class 'A' pan	5	14	27	89	77	96	123	110	55	42	17	10	665	47	11	11	665							
Potential transpiration	3	10	25	64	65	93	98	85	40	26	5	0	514	25	7	2	514							

NOTES ON THE TABLE

1. Except for potential transpiration, all quantities are measured.
2. Long period averages are: air temperature 1964-83; sunshine 1965-83; rainfall 1964-83; evaporation 1970-83.