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Report for 1968 - Part 1

[Full Table of Content](#)



Weather Tables Rothamsted

Rothamsted Research

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ROTHAMSTED WEATHER 1967-68

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

ROTHAMSTED REPORT FOR 1968

378

		Temperature (°C)		Radiation		Wind	Rain	Rain	Water (mm)	Evapora-	Potential	
		Soil at	Dew-	Sunshine	Kipp	Run at 2 m	Standard	gauge	Drainage	tion	Trans-	
		10 cm	point	hours	mWh	miles day ⁻¹	gauge		50 cm	M.O.	piration	
		Mean air	Ground	cm ⁻² day ⁻¹	cm ⁻² day ⁻¹	at 2 m			bare soil	tank	mm	
			frosts			Run at 2 m						
						miles day ⁻¹						
1967												
	Oct.	10.4	8.5	93	135	145	150		114	33	15	
	Nov.	5.1	3.9	67	71	110	51		44	12	-3	
	Dec.	3.3	0.6	64	52	130	61		51	2	0	
1968												
	Jan.	3.3 (+0.4)	1.1	38 (-14)	46	155	62 (+7)		66	3	7	
	Feb.	1.5 (-1.9)	-0.3	43 (-25)	95	140	25 (-26)		18	7	9	
	Mar.	6.3 (+1.1)	2.4	134 (+18)	237	205	26 (-18)		Trace	44	41	
	Apr.	7.9 (+0.2)	4.1	170 (+18)	355	125	63 (+16)			62	52	
	May	9.6 (-1.5)	6.2	145 (-50)	379	115	53 (+1)			21	63	
	June	14.6 (+0.6)	11.1	152 (-51)	427	120	55 (-1)			84	86	
	July	15.0 (-0.9)	11.3	136 (-56)	385	110	84 (+21)			89	79	
	Aug.	15.2 (-0.4)	12.6	112 (-70)	276	145	72 (+5)			66	58	
	Sept.	14.1 (+0.7)	11.8	107 (-38)	233	130	136 (+73)			48	53	
	Oct.	12.3 (+2.8)	10.7	56 (-48)	123	110	52 (-14)			28	18	
	Nov.	5.9 (+0.1)	4.7	29 (-32)	48	140	48 (-23)			35	3	
	Dec.	2.1 (-1.6)	1.2	27 (-18)	29	120	79 (+12)			4	-2	
	Total or mean	9.0 (0.0)	6.4	1149 (-366)	219	135	755 (+53)		441	510	467	

NOTES ON THE TABLE

1. Except for the last column, all quantities are measured.
2. Temperatures were measured in °F.
3. 'Soil at 10 cm' and 'Dewpoint' are at 0900 GMT.
4. For radiation, 100 calories = 116 mWh.
5. Run of the wind is measured in miles per day, and is used in calculations in this unit.
6. 'Standard gauge' is 5 in. diameter and surrounded by a turf wall to meet Meteorological Office specification. Measurements were in inches.
7. Drainage is through bare, undisturbed soil: gauge area = 1/1000 acre.
8. M.O. tank is 6 ft square, 2 ft deep, water at ground level, and rim projecting 3 in. above.
9. Potential transpiration—the only calculated entry—is derived from mean air temperature, dewpoint temperature, sunshine, Kipp record and run-of-the-wind.
10. Departures from long-period averages (in brackets) are for different periods:

Air Temperature	1878-1967
Sunshine	1892-1967
Rain	1948-1967