

Government Meteorological Observatory.

Meteorological Observations, Wellington, for the month of October, 1919. Observations taken 9 a.m.

Altitude of Observatory, 8 ft.

Date.	From Self-registering Instruments, for Twenty-four Hours previously.										
	Barometer reduced and corrected in Inches to Lat. 41° ^N .		Max. Temp. in Shade.	Min. Temp. in Shade.	Mean Temp. in Shade.	Solar Radiation.	Terrestrial Radiation.	Veloc. Wind, in Miles.	Amount of Cloud, 0 to 10.	Direction of Wind.	Rainfall, in Points (100 to 1 Inch).
1 29-753	55·3	48·7	49·5	119·0	82·4	235	10	WNW	1		
2 29-602	59·1	54·0	56·5	112·0	48·9	500	9	W.			
3 29-686	59·7	49·9	54·8	123·0	33·9	343	3	N.W.	1		
4 30-293	56·5	41·3	48·4	123·0	36·6	553	7	SSE			
5 30-208	58·8	44·8	49·3	122·0	37·0	306	8	N.E.	88		
6 29-557	55·5	48·0	51·7	99·0	47·5	181	10	SSE	61		
7 29-921	54·4	46·2	50·3	92·0	39·4	206	10	N.E.			
8 30-187	58·7	43·9	51·3	126·0	33·5	130	6	N.E.			
9 30-056	64·6	52·4	58·5	132·0	49·0	304	9	N.W.	12		
10 29-837	59·2	53·0	56·1	131·0	50·6	449	10	N.W.	7		
11 29-812	58·0	53·4	55·7	97·0	52·5	363	10	N.W.			
12 29-940	64·4	47·8	56·1	135·0	39·2	111	1	N.W.			
13 29-883	64·4	52·3	58·8	127·0	49·0	390	6	N.W.	Trace		
14 29-600	58·7	53·8	56·2	133·0	50·6	663	7	N.W.			
15 29-771	61·3	48·7	55·0	134·0	43·0	271	10	WNW			
16 29-902	61·3	40·7	51·0	123·0	29·1	108	3	N.E.	25		
17 30-042	60·0	45·8	52·9	129·0	37·0	317	5	S.			
18 30-075	57·3	43·7	50·5	125·0	32·5	221	8	NNW			
19 29-799	58·0	52·7	55·3	127·0	47·1	474	9	N.W.	2		
20 29-864	61·3	48·1	54·7	139·0	33·5	335	10	SSE			
21 29-965	58·1	41·7	49·9	129·0	29·2	177	1	N.W.			
22 29-908	58·9	53·5	56·2	126·0	49·3	551	10	N.W.			
23 30-023	61·1	51·6	56·3	108·0	45·5	533	0	S.E.			
24 30-233	64·9	49·0	56·9	122·0	35·4	166	0	NNW			
25 30-119	65·4	52·8	59·1	121·0	45·1	251	0	N.E.			
26 30-183	64·0	45·5	54·7	121·0	30·0	148	1	Calm			
27 30-186	68·8	52·9	60·8	135·0	44·6	102	10	Calm			
28 30-100	63·7	42·3	53·0	126·0	29·6	119	0	Calm	Trace		
29 30-000	66·8	53·0	59·9	120·0	45·3	219	10	SSE	1		
30 30-130	59·1	40·8	49·9	121·0	28·8	255	0	Calm			
31 29 915	60·9	52·1	56·5	124·0	44·5	320	0	N.W.			

* Means, &c. + Means previous years.

DIRECTION OF WIND.

N.	N.E.	E.	S.E.	S.	S.W.	W.	N.W.	Calm.
2 5 .. 1 5 .. 3 11 4								

NOTE.—A fair but changeable month, with high N.W. winds prevailing and rainfall 53 per cent. below the mean of previous years. Total bright sunshine, 212 hours 40 minutes, and two sunless days, giving an average of 6 hours 52 minutes per diem. Frost was recorded on the grass on five mornings. Mean earth-temperature at 1 ft. was 56·2°, and 55·1° at 3 ft. Mean dew-point, 46·9°; mean elastic force of vapour, 0·322 in.; and mean relative humidity, 76 per cent. of saturation.

SUMMARY FOR THE MONTH OF OCTOBER, 1919.

Nearly all parts of the Dominion experienced less than the average rainfall for October, the only districts having an excess being the Auckland peninsula and the southernmost portion of the South Island. The month was marked by very changeable weather, which was brought about by frequent westerly disturbances. The most intense of these occurred during the first three days, and was closely followed by a cyclone which ruled between the 4th and 6th. The latter was responsible for rain generally and very heavy rain in the northernmost districts. Other storms of the westerly type passed on the 10th, 14th, 21st, 22nd, and 31st. A well-developed anticyclone dominated between the 23rd and 28th, and during this period fair weather prevailed over the Dominion as a whole.

Vegetation showed only medium growth in most parts, while in Otago it proved very backward.

B. V. PEMBERTON, Acting-Director.

CLIMATOLOGICAL TABLE.
MEANS AND TOTALS FROM THE CHIEF STATIONS.
October, 1919.

Altitude above Sea-level.	Name of Station and Observer.	Extremes.			Total Rainfall (100 Points to the Inch). Days with Rain (1 Point or more).
		Absolute Mean Temp. Air in Shade.	Mean Max. Temp.	Mean Min. Temp.	
Ft. 125	NORTH ISLAND.	Deg.	Deg.	Deg.	Points. Dys.
	AUCKLAND
46	TE AROHA ..	54·3	63·5	45·1	447 11
	G. F. McGIRR				
925	ROTORUA ..	56·1	68·2	44·0	540 10
	L. Bayfield				
340	WAIRI ..	55·2	64·7	45·7	811 13
	P. A. Clifford				
	TAURANGA ..	55·4	64·8	46·0	390 8
	C. J. Butcher				
160	NEW PLYMOUTH ..	56·4	62·1	50·8	433 17
	W. W. Smith				
250	MOUHAMAKI ..	54·2	64·1	44·4	257 ..
	T. W. Lonsdale				
2080	TAIHAPE ..	49·6	58·4	40·8	167 15
	A. R. Fannin				
100	PALMERSTON NORTH ..	58·6	62·1	45·2	173 8
	J. A. Colquhoun				
119	CENTRAL DEVELOPMENT FARM, WERAROA ..	52·8	60·1	45·5	194 11
	J. Beverley				
186	GREYTOWN*
	W. C. Davies				
377	MASTERTON ..	54·4	66·4	42·5	190 9
	Wm. Hood				
70	GREENMEADOWS, NAPIER ..	56·5	65·8	47·1	103 8
	PIER				
	T. B. McBreen				
	TRENTHAM MILITARY CAMP ..	53·0	61·3	44·8	300 5
	Lieut.-Col. Leahy				
10	WELLINGTON ..	54·4	60·4	48·4	198 9
	SOUTH ISLAND.				
	BRIGHTWATER ..	55·0	64·0	46·1	184 10
	Ven. Archdeacon Kempthorne				
34	NELSON ..	55·8	64·8	46·8	170 6
	J. Williams				
1220	HANMER SPA ..	52·1	62·4	41·8	178 15
	G. J. O'Brien				
25	CHRISTCHURCH ..	53·6	63·0	44·2	142 7
	H. F. Skey				
42	LINCOLN ..	58·0	64·1	41·9	168 8
	L. J. Wild				
1220	KISSELTON ..	52·4	63·2	41·6	341 10
	A. R. Blackwood				
	RAKAI ..	53·3	64·7	41·9	160 6
130	TMARU ..	53·4	64·5	42·3	80 7
	Caretaker of Domain				
200	WAIMATE ..	51·2	60·4	42·0	102 10
	F. Akhurst				
300	DUNEDIN ..	51·6	69·9	42·4	234 19
	D. Tannock				
245	GORE ..	48·4	57·7	39·1	591 18
	H. Dolamore				
12	HOKITIKA ..	51·0	57·4	44·7	915 18
	W. H. Fleming				
12	INVERCARGILL ..	49·4	57·3	41·6	694 20
	L. Lennie				
	* September, 1919 ..	48·8	58·7	39·0	324 13