

Government Meteorological Observatory.

METEOROLOGICAL Observations, Wellington, for the month of October, 1917. Observations taken 9 a.m.

Altitude of Observatory, 8 ft.

Date.	Barometer reduced and corrected in Inches to Lat. 45°.	From Self-registering Instruments for Twenty-four Hours previously.							Direction of Wind.	Rainfall, in Points (100 to 1 Inch).
		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.		
1	30.209	59.5	45.7	52.6	129.0	34.0	228	3	N.	..
2	30.248	59.9	54.0	56.9	135.0	50.2	229	5	N.W.	..
3	30.073	60.7	57.5	59.1	128.0	55.7	486	10	N.W.	Trace
4	30.121	62.0	53.0	57.5	136.0	49.8	389	6	S.	..
5	30.207	62.0	40.9	51.4	141.0	27.3	125	1	N.	2
6	30.002	63.8	55.4	59.6	127.0	51.1	366	9	NNW	10
7	29.665	61.0	55.0	58.0	143.0	54.5	684	10	NNW	Trace
8	29.904	58.8	54.6	56.7	110.0	50.2	424	10	N.	Trace
9	29.828	58.1	50.5	54.3	124.0	43.6	254	6	N.W.	..
10	29.931	59.2	48.2	53.7	128.0	36.7	250	5	N.W.	8
11	29.663	56.4	46.3	51.3	126.0	45.3	266	10	S.	2
12	30.139	54.0	45.5	49.7	122.0	41.0	381	9	S.	3
13	30.387	56.1	39.1	47.6	128.0	29.4	132	5	S.E.	6
14	30.443	58.7	37.2	47.9	124.0	28.0	173	3	Calm	..
15	30.346	60.4	46.0	53.2	134.0	35.0	169	1	N.W.	..
16	30.206	60.2	51.5	55.8	128.0	44.8	316	3	N.W.	..
17	30.183	59.6	54.4	57.0	130.0	46.8	347	4	N.W.	..
18	30.001	61.4	56.0	58.7	139.0	54.7	450	6	N.W.	18
19	30.129	60.9	45.3	53.1	128.0	42.6	520	2	S.	..
20	30.297	55.3	44.6	49.9	129.0	36.0	351	9	Calm	..
21	29.933	61.0	52.0	56.5	133.0	50.0	401	7	NNE	..
22	29.850	61.8	57.3	59.6	133.0	55.8	547	9	NNW	1
23	29.891	63.0	55.2	59.1	124.0	53.3	534	3	N.W.	..
24	30.101	62.3	55.3	58.8	130.0	51.2	404	8	N.W.	97
25	30.221	62.2	52.1	57.1	139.0	50.4	193	10	Calm	45
26	30.157	58.2	53.3	55.7	93.0	52.2	52	10	N.E.	25
27	29.772	64.9	57.6	61.2	129.0	54.3	299	6	N.	6
28	29.871	65.5	57.0	61.2	139.0	54.0	412	8	Calm	Trace
29	29.989	64.9	55.3	60.1	132.0	53.3	202	10	N.	2
30	29.912	61.9	56.6	59.2	124.0	53.6	423	10	N.W.	7
31	29.768	61.2	57.6	59.4	99.0	54.8	321	10	N.	19
*	30.047	60.5	51.3	55.9	127.9	46.4	333	6.7	..	251
†	29.884	60.3	48.0	54.2	113.7	41.2	283	..	..	422

* Means, &c. † Means previous years.

DIRECTION OF WIND.

N.	N.E.	E.	S.E.	S.	S.W.	W.	N.W.	Calm.
11	1	..	1	4	..	..	10	4

NOTE.—The weather during the month has been cloudy and showery, with moderate to strong N. and N.W. winds prevailing. Total bright sunshine 155 hours, and three sunless days. Frost was recorded on the grass on three mornings. Mean earth temperature at 1 ft. was 57.1°, and 56.8° at 3 ft. Mean dew-point, 49°; mean elastic force of vapour, 0.348 in.; mean relative humidity, 77 per cent. of saturation.

CLIMATOLOGICAL TABLE.

MEANS AND TOTALS FROM THE CHIEF STATIONS.

October, 1917.

Altitude above Sea-level.	Name of Station and Observer.	Absolute Mean Temp. Air in Shade.	Extremes.		Total Rainfall (100 Points to the Inch).	Days with Rain (½ Point or more)
			Mean Max. Temp.	Mean Min. Temp.		
Ft.	NORTH ISLAND.	Deg.	Deg.	Deg.	Points.	Dy.
125	AUCKLAND .. F. A. F. Burnett	58.8	64.6	52.9	520	19
46	TE AROHA .. G. F. McGirr	57.0	66.0	48.0	707	18
925	ROTORUA .. J. W. McKinna	52.7	60.3	45.1	324	15
340	WAIHI .. P. A. Clifford	57.1	67.0	47.3	309	15
..	TAURANGA .. C. J. Butcher	55.6	64.5	46.8	369	17
160	NEW PLYMOUTH .. W. W. Smith	55.3	63.4	47.3	740	19
250	MOUMAHAKI .. T. W. Ionsdale	58.7	64.0	53.4	383	15
2080	TAIHAPE .. A. R. Fannin	50.8	58.7	43.0	278	15
100	PALMERSTON NORTH .. J. E. Vernon	54.8	62.6	47.0	342	18
186	GREYTOWN .. W. C. Davies	56.1	66.2	46.0	271	14
377	MASTERTON .. Wm. Hood	55.9	67.1	44.7	236	13
70	GREENMEADOWS, NA-PIER T. B. McBreen	59.2	67.5	50.9	166	9
10	WELLINGTON ..	55.9	60.5	51.3	251	15
	SOUTH ISLAND.	Deg.	Deg.	Deg.	Points.	Dy.
34	NELSON .. J. R. Dart	56.3	65.1	47.5	404	12
1220	HANMER SPA .. Miss M. Stewart	52.8	62.8	42.9	229	8
25	CHRISTCHURCH .. H. F. Skey	54.5	64.1	44.9	196	16
42	LINCOLN .. L. J. Wild	54.6	65.0	44.2	131	10
1220	KISSELTON ..	52.6	62.3	42.9	365	8
..	RAKAI .. Miss A. Hardy	52.9	63.1	42.7	160	8
130	TIMARU .. Caretaker of Domain	54.2	63.6	44.9	147	12
200	WAIMATE .. F. Akhurst	52.2	60.3	44.2	338	15
300	DUNEDIN .. D. Tannock	52.6	60.4	44.9	514	20
245	GORE .. H. Dolamore	51.7	61.9	41.6	482	21
12	HOKITIKA .. W. L. Fleming	52.1	58.3	45.9	1,852	22
12	INVERCARGILL .. L. Lennie	..	..	..	..	..

SUMMARY FOR THE MONTH OF OCTOBER, 1917.

A common feature of October weather that has again been exemplified is the frequency of strong westerly winds, particularly in and southwards of Cook Strait. This is brought about by the number of westerly areas of "low" pressure passing in the south while "high" systems have persisted in the north.

On this account excessive rainfall was recorded in the west coast and southern districts of the South Island, and also about Cape Egmont and north of Auckland. All other parts of the Dominion experienced less than the average total rainfall. Boisterous and wet conditions prevailed about the 6th and 7th, and between the 21st and 23rd.

From the 26th to the end of the month dull, misty weather was experienced, and during this period considerable precipitation took place.

The longest period of settled weather prevailed between the 12th and 17th, when anticyclonic pressure held sway. Generally the month was a good spring one, with a mean temperature slightly above the average.

D. C. BATES, Director.