

Government Meteorological Observatory.

METEOROLOGICAL Observations, Wellington, for the month of November, 1919. Observations taken 9 a.m.

Altitude of Observatory, 8 ft.

Date.	Barometer reduced and corrected in Inches to Lat. 49°.	From Self-registering Instruments, for Twenty-four Hours previously.							Amount of Cloud, 0 to 10.	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.	Direction of Wind.			
1	29-501	Fah. 65.3	Fah. 54.3	Fah. 59.8	Fah. 138.0	50.4	558	9	N.W.	..	
2	29-690	65.8	42.5	54.1	122.0	30.7	284	10	N.W.	44	
3	29-475	58.4	43.8	51.1	106.0	44.3	530	10	S.	13	
4	29-261	54.9	48.7	51.8	119.0	37.6	253	10	N.	39	
5	29-213	56.9	48.4	52.6	119.0	40.8	599	1	N.W.	58	
6	29-770	59.1	38.6	48.8	131.0	30.0	268	6	SSE	2	
7	30-053	54.7	45.2	49.9	127.0	37.0	178	9	S.E.	..	
8	30-118	60.8	49.6	55.2	129.0	42.0	166	8	N.	..	
9	30-037	58.5	51.9	55.2	135.0	46.7	287	8	N.W.	..	
10	29-806	60.0	54.0	57.0	135.0	49.9	479	10	N.W.	..	
11	29-900	61.8	50.1	55.9	124.0	40.4	322	1	N.W.	..	
12	29-830	62.7	52.8	57.7	137.0	47.2	456	7	N.W.	..	
13	29-909	60.2	53.0	56.6	130.0	44.7	368	3	N.	..	
14	29-981	65.0	49.5	57.2	131.0	33.0	139	1	N.	1	
15	29-728	64.0	51.3	57.6	133.0	47.5	500	10	N.	36	
16	29-866	57.6	50.0	53.8	100.0	49.8	334	10	S.E.	..	
17	30-057	57.6	41.8	49.7	118.0	30.0	201	0	Calm	..	
18	29-763	62.9	53.3	58.1	133.0	48.3	347	6	N.W.	..	
19	29-665	64.4	56.0	60.2	130.0	53.2	443	10	N.W.	13	
20	29-532	62.0	55.1	58.5	123.0	51.8	282	6	N.W.	..	
21	29-572	64.0	45.0	54.5	128.0	32.5	247	3	N.W.	11	
22	30-072	62.8	45.6	54.2	133.0	43.0	384	10	S.	..	
23	30-169	57.9	35.8	46.8	124.0	22.5	202	0	NNE	..	
24	29-900	59.8	52.9	56.3	124.0	46.5	317	9	NNE	..	
25	29-839	61.0	45.8	53.4	133.0	32.3	195	9	N.W.	..	
26	29-571	61.2	54.4	57.8	143.0	51.2	484	10	N.W.	30	
27	29-960	62.3	47.7	55.0	133.0	43.4	245	4	S.E.	..	
28	29-893	62.8	47.8	55.3	137.0	48.9	324	2	N.	..	
29	29-866	63.2	50.0	56.6	134.0	48.8	380	8	S.	7	
30	30-045	57.8	42.9	50.3	127.0	38.0	407	8	S.	..	
*	29-801	60.8	48.6	54.7	127.9	42.1	339	6	6	.. 254	
†	29-893	63.5	50.3	56.9	120.2	43.6	271	..	..	.. 356	

\* Means, &c. † Means previous years.

DIRECTION OF WIND.

N.	N.E.	E.	S.E.	S.	S.W.	W.	N.W.	Calm.
8	..	..	3	5	..	..	13	1

NOTE.—The weather during the month has been unsettled, with strong N.W. winds prevailing. Precipitation, which was of a showery nature, was 28 per cent. below the mean of previous years. Total bright sunshine, 190 hours 40 minutes, and three sunless days. Frost was recorded on the grass on four mornings. Thunder and lightning occurred on the 2nd, and hail fell on the 29th. Mean earth-temperature at 1 ft. was 59°, and 58° at 3 ft. Mean dew-point, 46°; mean elastic force of vapour, 0.311 in.; and mean relative humidity, 72 per cent. of saturation.

CLIMATOLOGICAL TABLE.

MEANS AND TOTALS FROM THE CHIEF STATIONS. November, 1919.

Altitude above Sea-level.	Name of Station and Observer.	Extremes.			Total Rainfall (100 Points to the Inch).	Days with Rain (4 Point or more).
		Absolute Mean Temp. Air in Shade.	Mean Max. Temp.	Mean Min. Temp.		
Ft. 125	NORTH ISLAND. AUCKLAND* F. A. F. Burnett	Deg. 54.6	Deg. 64.7	Deg. 44.5	Points. 216	Dys. 16
46	TE AROHA .. G. F. McGirr	.. 55.0	.. 65.0	.. 45.1	109	6
925	ROTORUA .. L. Bayfield	.. 57.6	.. 69.9	.. 45.3	155	7
340	WAIHI .. P. A. Clifford	.. 57.4	.. 65.8	.. 49.1	240	15
..	TAURANGA .. C. J. Butcher	.. 56.9	.. 67.2	.. 46.7	90	11
160	NEW PLYMOUTH .. W. W. Smith	.. 57.0	.. 62.9	.. 51.2	252	17
250	MOUMAHAKI .. T. W. Lonsdale	.. 54.3	.. 63.4	.. 45.2	345	21
2080	TAIHAPE .. A. R. Fanning	.. 49.4	.. 57.9	.. 40.9	249	19
100	PALMERSTON NORTH .. J. A. Colquhoun	.. 53.1	.. 60.8	.. 45.5	239	15
119	CENTRAL DEVELOPMENT FARM, WERAROA J. Beverley	.. 52.8	.. 59.3	.. 46.3	338	16
186	GREYTOWN† W. C. Davies	.. 55.9	.. 66.5	.. 45.3	299	11
377	MASTERTON Wm. Hood	.. 55.4	.. 67.6	.. 43.2	261	14
70	GREENMEADOWS, NAPIER T. B. McBreen	.. 58.3	.. 68.1	.. 48.5	45	3
..	TRENTHAM MILITARY CAMP Lieut.-Col. Leahy	.. 53.7	.. 62.0	.. 45.4	307	11
10	WELLINGTON .. Ven. Archdeacon Kempthorne	.. 54.7	.. 60.8	.. 48.6	254	11
..	SOUTH ISLAND. BRIGHTWATER .. Ven. Archdeacon Kempthorne	.. 55.2	.. 65.5	.. 44.9	387	12
34	NELSON .. J. Williams	.. 56.9	.. 66.3	.. 47.6	182	9
1220	HANMER SPA G. J. O'Brien	.. 52.7	.. 62.7	.. 42.7	385	12
25	CHRISTCHURCH H. F. Skey	.. 53.8	.. 62.1	.. 45.6	209	11
42	LINCOLN .. L. J. Wild	.. 53.8	.. 64.4	.. 43.2	244	12
1220	KISSELTON .. A. R. Blackwood	.. 53.2	.. 63.6	.. 42.8	300	7
..	RAKAIA .. Miss A. Hardy	.. 53.3	.. 64.8	.. 41.8	274	12
130	TIMARU .. Caretaker of Domain	.. 53.5	.. 63.3	.. 43.7	362	9
200	WAIMATE .. F. Akhurst	.. 52.2	.. 61.4	.. 43.0	410	11
300	DUNEDIN .. D. Tannock	.. 51.5	.. 60.1	.. 43.0	387	19
245	GORE .. H. Dolamore	.. 49.1	.. 58.9	.. 39.3	365	20
12	HOKITIKA .. W. H. Fleming	.. 51.5	.. 57.5	.. 45.6	1318	23
12	INVERCARGILL L. Lennie	.. 49.8	.. 57.5	.. 42.2	414	21
*	* October, 1919 ..	.. 52.5	.. 62.0	.. 43.1	406	10
†	† " 1919 ..	.. 54.6	.. 65.4	.. 43.9	224	8

\* Auckland. † Greytown.

SUMMARY FOR THE MONTH OF NOVEMBER, 1919.

November proved another dry month for the greater portion of the Dominion. The whole of the North Island, parts of the East Coast, and the northern and southernmost districts of the South Island reported less than the average rainfall. In the Napier, Gisborne, and Bay of Plenty districts the deficiency ranged from 50 to as much as 80 per cent.

Weather conditions during the month were very unsettled, but precipitation was usually of a showery nature, and was invariably followed by strong, drying winds.

The most notable disturbance was an intense westerly low-pressure area which ruled during the first six days of the month, and which was responsible for very unsettled and, at times, stormy conditions in many parts. Some snow fell in the East Coast districts of the South Island on the night of the 2nd. There were numerous other disturbances of a similar type, but of only moderate intensity. Frosts were rather more frequent than is usual during this month, and several did extensive damage in various parts of the Dominion.

B. V. PEMBERTON, Acting-Director.