

Government Meteorological Observatory.

METEOROLOGICAL Observations, Wellington, for the month of November, 1916. 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.					Solar Radiation.	Terrestrial Radiation.	Veloc. Wind in Miles.	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.	Fah.	Fah.						
1	30-125	52.3	46.5	49.4	123.8	33.5	358	10	S.E.	..	..	
2	30-228	58.8	41.0	49.9	125.5	27.5	138	2	N.E.	..	..	
3	30-219	59.8	48.2	54.0	126.2	32.5	135	1	N.	..	..	
4	30-079	62.1	54.0	58.0	130.5	48.1	318	7	N.	..	17	
5	30-033	65.5	49.0	57.2	138.0	35.5	179	4	E.	..	..	
6	29-940	66.3	54.1	60.2	131.1	41.0	169	7	N.W.	..	3	
7	29-773	62.9	58.2	60.5	141.6	54.5	445	10	N.	..	161	
8	29-807	61.5	58.2	59.8	93.9	54.5	613	10	N.	..	178	
9	29-791	62.3	57.9	60.1	110.8	56.0	470	10	N.	..	..	
10	30-144	62.5	53.0	57.7	137.1	49.0	333	9	S.	..	..	
11	30-061	66.0	45.3	55.6	133.4	34.1	237	3	Calm	..	..	
12	29-952	68.5	49.5	59.0	133.0	38.5	148	10	E.	..	..	
13	29-721	67.0	55.1	61.0	144.8	45.1	74	8	Calm	..	1	
14	29-622	73.5	58.4	65.9	148.0	47.5	107	10	N.	..	10	
15	29-666	64.8	59.2	62.0	136.4	47.5	367	10	N.W.	..	4	
16	29-523	66.0	60.0	63.0	139.0	56.4	260	10	N.W.	..	12	
17	29-817	64.8	49.0	56.9	123.8	36.1	186	1	N.	..	..	
18	29-815	67.8	59.0	63.4	131.7	55.0	342	9	N.W.	..	21	
19	29-716	64.0	54.5	59.2	133.0	52.0	217	10	S.	..	2	
20	29-881	61.9	51.5	56.7	114.5	46.0	108	10	S.	..	..	
21	29-902	65.6	49.2	57.4	131.0	37.2	162	1	N.	..	..	
22	29-993	66.0	54.4	60.2	131.0	41.0	219	2	N.	..	..	
23	29-860	66.2	58.2	62.2	142.0	52.0	460	10	N.W.	..	..	
24	29-960	68.0	59.5	63.7	135.0	57.0	348	10	NNW	..	12	
25	29-510	67.8	58.7	63.2	147.0	56.0	454	10	N.	..	35	
26	29-801	63.0	53.0	58.0	147.5	51.5	274	9	S.S.E	..	14	
27	29-673	63.6	59.0	61.3	140.0	57.3	542	10	N.	..	117	
28	29-651	62.5	56.6	59.5	121.0	55.5	530	1	NNW	..	..	
29	29-837	63.5	54.1	58.8	129.0	50.4	515	1	W.	..	11	
30	30-255	61.5	40.5	51.0	133.0	30.0	165	0	N.W.	..	..	
*	29-878	64.2	53.5	58.8	131.7	45.9	296	6.8	..	..	598	
†	29-873	63.5	50.3	56.8	120.2	43.6	271	..	..	..	338	

\* Means, &c. † Means previous years.

DIRECTION OF WIND.

N.	N.E.	E.	S.E.	S.	S.W.	W.	N.W.	Calm.
13	1	2	1	4	..	1	6	2

NOTE.—An unsettled month with rainfall 77 per cent. above the mean of previous years. Total bright sunshine, 177 hours 35 minutes; and four sunless days. Frost was recorded on the grass on one morning. Mean earth-temperature at 1 ft. was 60.1°, and 59.0° at 3 ft. Mean dew-point, 51.2°; mean elastic force of vapour, 0.377 in.; mean relative humidity, 76 per cent. of saturation.

CLIMATOLOGICAL TABLE.

MEANS AND TOTALS FROM THE CHIEF STATIONS. November, 1916.

Ft.	Name of Station and Observer.	Absolute Mean Temp. Air in Shade.	Extremes.			Total Rainfall (100 Points to the Inch).	Days with Rain (4 Point or more).
			Max. Temp.	Mean Min. Temp.	Deg.		
<b>NORTH ISLAND.</b>							
125	AUCKLAND .. F. A. F. Burnett	Deg. 61.7	Deg. 67.2	Deg. 56.3	Points. 774	Dys. 22	
46	TE AROHA .. G. F. McGirr	.. 56.8	67.6	46.0	753	18	
925	ROTORUA .. S. R. Edwards	.. 59.1	66.7	51.5	837	19	
340	WAIHI .. P. A. Clifford	.. 60.5	69.0	52.0	903	22	
..	TAURANGA .. C. J. Butcher	.. 59.4	67.0	51.9	1123	18	
160	NEW PLYMOUTH .. W. W. Smith	.. 61.4	67.7	55.1	825	18	
250	MOUMAHAKI .. T. W. Lonsdale	.. 58.4	67.2	49.6	452	14	
2080	TAIHAPE .. A. R. Fannin	.. 54.3	61.7	47.0	334	14	
100	PALMERSTON NORTH .. J. E. Vernon	.. 58.5	66.2	50.8	484	13	
186	GREYTOWN .. W. C. Davies	.. 58.8	69.2	48.5	248	12	
377	MASTERTON .. Wm. Hood	.. 59.7	70.5	48.9	118	12	
70	GREENMEADOWS, NA PIER .. W. B. Buckley	.. 62.7	71.3	54.2	151	11	
10	WELLINGTON ..	.. 58.8	64.2	53.5	598	15	
<b>SOUTH ISLAND.</b>							
34	NELSON .. J. R. Dart	.. 60.1	67.7	52.5	917	17	
1220	HANMER SPA .. J. W. McKinna	.. 56.9	66.1	47.7	487	13	
25	CHRISTCHURCH .. H. F. Skey	.. 58.7	67.6	49.9	49	12	
42	LINCOLN .. L. J. Wild	.. 59.0	69.2	48.8	102	10	
..	RAKAIA .. Miss A. Hardy	.. 58.4	68.8	48.1	61	9	
130	TIMARU .. Caretaker of Domain	.. 57.9	67.6	48.2	184	10	
200	WAIMATE .. F. Akhurst	.. 55.5	64.4	46.7	168	14	
300	DUNEDIN .. D. Tannock	.. 55.3	63.1	47.6	281	12	
245	GORE .. H. Dolamore	.. 54.6	64.9	44.3	390	16	
12	HOKITIKA .. F. T. Sandford	.. ..	..	..	..	..	
12	INVERCARGILL .. L. Lennie	.. 53.9	62.5	45.3	475	17	

SUMMARY FOR THE MONTH OF NOVEMBER, 1916.

November proved a very unsettled month, and except in the Hawke's Bay and Canterbury Districts the aggregate rainfall was everywhere above the average. North of Auckland, Taranaki, and Nelson experienced excessive rainfalls on several days, and an unusual number of wet days. The west coast of the South Island also had many wet days, but the falls were not particularly heavy except in the higher country. Central Otago reported excellent rains during the latter half of the month, while precipitation in Hawke's Bay and Canterbury was of a showery nature only.

Some very interesting data is disclosed in the returns, of which the following are particularly notable:—

The total month's rainfall at Auckland was 7.74 inches, which is the highest November fall recorded at that city.

At Wekaweka (south of Hokianga Harbour), on the 8th, 8.05 inches of rain fell, while the month's total was 18.68 inches. Okoke, Taranaki, recorded 10.94 inches on the 8th, and a total for the month of 21.96 inches; while Upper Mangorei on the 7th had 6.32 inches, on the 8th 6.72 inches, and 25.22 inches for the month.

At Bainham on the Aorere River, Nelson, 37.40 inches fell during the month. On the 6th, 7th, and 8th, 6.27 inches, 11.24 inches, and 1.78 inches fell respectively. The heavy rainfall about this time caused serious floods in many of the rivers in Nelson and Marlborough.

Endeavour Inlet recorded 11.20 inches on the 8th, the Observer stating that the rate of fall averaged between 0.55 and 0.72 inches per hour throughout the day.

Although the rainfall in Canterbury was small, isolated stations received some good falls accompanying local thunderstorms. At Coalgate, on the 16th, during a severe thunderstorm, 1.44 inches fell in half an hour between 12.30 and 1 p.m.

Otira, Westland, had an aggregate for the month of 30.03 inches.

The most intense storm during the month was one which passed on the 27th. The barometer fell as low as 28.85 at the Bluff, but although the conditions were particularly boisterous, especially in and southward of Cook Strait, the storm was not responsible for much rainfall, and the heaviest and most widespread falls were the result of a similar disturbance, but of less intensity, which ruled between the 6th and 10th.

† A subtropical depression passing between the 11th and 14th also accounted for heavy downpours in the northernmost districts.

D. C. BATES, Director.