

Government Meteorological Observatory.

METEOROLOGICAL Observations, Wellington, for the month of January, 1921. Observations taken 9 a.m.

Altitude of Observatory, 10 ft.

Date.	Barometer reduced and corrected in inches to lat. 46°.	From Self-regulating Instruments, for Twenty-four Hours previously.					Solar Radiation.	Terrestrial Radiation.	Velos. 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.							Fah.
1	30.094	70.3	56.6	63.4	134.0	54.4	271	0	S.S.W.	..	..
2	30.083	81.6	59.5	70.5	138.0	50.4	143	0	N.E.	..	..
3	29.899	77.0	62.5	69.7	139.0	59.7	307	0	N.	..	..
4	29.947	71.7	59.9	65.8	136.0	54.5	266	10	S.	..	..
5	30.235	62.7	58.7	60.7	129.0	50.0	413	6	S.S.E.	..	..
6	30.251	67.5	48.8	58.1	139.0	32.6	166	1	S.E.	..	..
7	30.268	72.6	47.9	60.2	136.0	37.8	182	8	S.	..	..
8	30.427	68.4	53.0	60.7	132.0	47.0	273	8	S.	..	..
9	30.480	69.0	49.4	59.2	129.0	37.9	199	2	S.S.W.	..	..
10	30.372	68.5	46.9	57.7	130.0	34.9	160	0	S.E.	..	..
11	30.207	76.8	55.0	65.9	138.0	43.2	92	2	N.N.W.	..	..
12	29.974	73.9	61.9	67.9	137.0	59.3	272	8	N.	..	..
13	29.773	72.9	62.0	67.4	138.0	59.3	261	7	N.	5	..	
14	29.889	71.8	58.4	65.1	143.0	58.3	258	10	S.S.E.	16	..	
15	29.421	67.0	57.0	62.0	138.0	56.1	223	10	S.	100	..	
16	29.720	61.8	53.1	57.4	99.0	48.5	196	10	S.	..	..
17	29.717	63.6	45.3	54.4	141.0	36.0	134	8	N.W.	14	..	
18	29.829	67.5	54.3	60.9	139.0	51.0	202	10	S.S.E.	..	..
19	29.983	67.0	53.2	60.1	132.0	46.0	205	3	N.N.E.	..	..
20	30.135	69.5	52.7	61.1	137.0	43.5	170	4	S.E.	16	..	
21	30.069	72.5	56.8	64.6	145.0	55.1	145	10	Calm	20	..	
22	29.983	62.9	53.1	58.0	90.0	48.0	82	10	Calm	..	..
23	29.983	71.2	55.2	63.2	136.0	48.9	99	8	Calm	3	..	
24	29.981	72.2	50.2	61.2	145.0	41.2	47	2	E.	..	..
25	29.950	74.2	56.2	65.2	137.0	45.0	132	10	N.W.	..	..
26	30.031	68.3	54.2	61.2	122.0	47.0	173	2	S.S.E.	..	..
27	29.968	74.9	60.7	67.8	135.0	57.2	266	6	N.N.W.	31	..	
28	30.071	67.6	56.4	62.0	140.0	56.1	205	10	Calm	..	..
29	29.759	67.6	58.3	62.9	122.0	55.8	167	2	N.W.	30	..	
30	30.028	72.2	49.2	60.7	135.0	48.5	443	10	S.S.W.	51	..	
31	30.000	59.0	48.1	53.5	131.0	47.1	375	10	S.S.E.	28	..	
*	30.019	69.8	54.7	62.2	133.0	48.7	211	6.0	..	..	314
†	29.899	69.4	55.8	62.6	126.1	48.6	256	..	..	..	328

* Means, &c. † Means previous years.

DIRECTION OF WIND.

N.	N.E.	E.	S.E.	S.	S.W.	W.	N.W.	Calm.
6	1	1	3	13	..	..	3	4

NOTE.—The rainfall for the month of January was 4 per cent. below the mean of previous years, and fell between the 13th and 31st, the earlier part of the month being given over to fine warm weather. Total bright sunshine 239 hours 26 minutes, and one sunless day, giving an average of 7 hours 43 minutes per diem. Mean earth-temperature at 1 ft. was 68.2°, and 65.6° at 3 ft. Mean dew-point, 52.2°; mean elastic force of vapour, 0.391 in.; and mean relative humidity, 70 per cent. of saturation.

SUMMARY FOR THE MONTH OF JANUARY, 1921.

Anticyclonic influences were predominant during the first portion of the month, and fine and warm weather was experienced generally. The warmest day was the 3rd, when maximum shade temperatures of over 90° Fahr. were recorded in Canterbury. At Ashburton as high as 100° Fahr. was reported.

A westerly low-pressure passed in the South on the 13th, and was followed by an ex-tropical cyclone. The centre of the latter reached Cape Maria van Diemen on the morning of the 15th, and apparently passed in the neighbourhood of Cook Strait the same night. Good general rains occurred at this time.

The last half of the month proved changeable, with frequent showers.

On the night of the 29th a secondary "low" developed considerable intensity between the East Coast of the South Island and Chatham Island, and accounted for south-west gales and heavy seas along the east coast south of East Cape.

The total rainfall was much above the average in Canterbury and in parts of the Auckland peninsula, but elsewhere it was below.

D. C. BATES, Director.

CLIMATOLOGICAL TABLE.
MEANS AND TOTALS FROM THE CHIEF STATIONS.
January, 1921.

Ft. 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 (4 Point or more).
			Mean Max. Temp.	Mean Min. Temp.		
	NORTH ISLAND.	Deg.	Deg.	Deg.	Points.	Dys.
125	AUCKLAND .. F. A. F. Burnett	65.4	71.4	59.4	307	9
46	TE AROHA .. G. F. McGirr	64.9	76.3	53.5	346	7
925	ROTORUA .. G. J. O'Brien	62.4	73.9	50.9	406	7
340	WAIHI .. C. F. Sims	64.5	74.6	54.5	360	13
..	TAURANGA .. C. J. Butcher	62.2	72.7	51.8	356	7
160	NEW PLYMOUTH .. ..	..	..	..	..	..
250	MOUMAHAKI .. J. G. McFarlane	63.1	73.0	53.3	269	6
2080	TAIHAPE .. A. R. Fanning	59.6	69.8	49.4	219	10
100	PALMERSTON NORTH .. J. A. Colquhoun	62.9	75.0	50.8	165	7
119	CENTRAL DEVELOPMENT FARM, WERAROA J. Beverley	60.7	71.3	50.2	229	8
186	GREYTOWN .. J. P. Eccleton	62.7	74.6	50.9	414	10
377	MASTERTON .. R. Brown	62.7	75.5	50.0	232	11
70	GREENMEADOWS, NA-PIER T. B. McBreen	63.6	72.5	54.7	111	..
..	TRENTHAM MILITARY HOSPITAL	57.1	65.3	48.9	224	8
10	WELLINGTON ..	62.2	69.8	54.7	314	11
	SOUTH ISLAND.					
..	BRIGHTWATER .. Ven. Archdeacon Kempthorne	63.7	73.6	53.8	206	9
34	NELSON .. Wm. C. Davies	62.6	71.3	53.9	212	9
1220	HANMER SPA .. L. Bayfield	59.7	71.1	48.3	440	13
25	CHRISTCHURCH .. H. F. Skey	60.0	68.1	52.0	462	15
42	LINCOLN .. L. J. Wild	..	..	..	..	..
1220	KISSELTON .. A. R. Blackwood	60.4	71.0	49.8	263	9
..	RAKAIA .. Miss A. Hardy	60.5	71.6	49.4	374	14
130	TIMARU .. Caretaker of Domain	60.6	70.0	51.3	296	15
200	WAIMATE .. F. Akhurst	59.4	68.3	50.6	310	15
300	DUNEDIN .. D. Tannock	57.9	67.2	48.6	247	13
245	GORE .. A. T. Newman	56.8	69.4	44.2	202	13
12	HOKITIKA .. J. A. Chesney	59.0	66.3	51.8	360	12
12	INVERCARGILL .. L. Lennie	57.8	70.8	44.9	261	13