

Government Meteorological Observatory.

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

Altitude of Observatory, 10 ft.

Date.	Barometer reduced and corrected in Inches to Lat. 45°.	From Self-regulating 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	30-176	54-0	50-0	52-0	103-0	47-5	453	10	N.W.	2		
2	30-103	55-7	51-5	53-6	79-0	45-2	377	10	N.N.W.	4		
3	29-993	56-8	51-6	54-2	62-0	46-4	247	10	N.N.W.	218		
4	29-776	57-0	46-4	51-7	64-0	46-1	484	10	S.	Trace		
5	30-118	49-3	38-1	43-7	75-0	28-1	413	0	N.E.	Trace		
6	29-939	52-3	44-9	48-6	105-0	40-3	325	10	N.	19		
7	30-221	55-7	46-4	51-0	80-0	44-7	387	10	S.	..		
8	30-436	52-9	33-0	42-9	106-0	24-0	99	10	Calm	..		
9	30-360	53-1	32-1	42-6	103-0	22-2	50	9	N.E.	6		
10	30-381	50-9	43-1	47-0	103-0	36-3	327	10	S.S.W.	..		
11	30-277	48-7	30-3	39-5	80-0	26-8	253	7	N.N.E.	14		
12	29-987	53-0	45-8	49-4	109-0	43-0	479	10	N.W.	9		
13	29-870	56-7	51-0	53-8	111-0	45-6	432	3	N.	Trace		
14	30-033	60-0	51-9	55-9	109-0	43-7	260	7	N.	16		
15	29-782	57-0	53-6	55-3	92-0	51-5	413	10	N.N.W.	25		
16	29-874	57-0	49-0	53-0	73-0	43-0	507	10	N.	40		
17	29-358	58-3	51-9	55-1	75-0	48-9	584	3	N.W.	Trace		
18	29-582	59-8	40-2	50-0	109-0	40-9	203	10	Calm	1		
19	30-092	54-4	40-2	47-3	107-0	31-8	320	0	S.W.	4		
20	29-842	54-4	48-0	51-2	101-0	38-9	240	10	N.E.	Trace		
21	29-791	57-5	42-9	50-2	111-0	36-0	223	2	N.W.	Trace		
22	30-115	56-0	32-4	44-2	101-0	28-8	247	0	N.E.	50		
23	29-886	52-1	40-1	46-1	101-0	33-1	378	10	S.	6		
24	30-173	48-7	40-0	44-3	103-0	36-4	499	9	S.S.W.	..		
25	30-214	53-2	45-8	49-5	102-0	42-8	666	10	S.	..		
26	29-950	48-1	35-8	41-9	79-0	29-0	196	7	S.	Trace		
27	29-802	47-9	42-3	45-1	99-0	41-1	300	10	S.S.E.	Trace		
28	29-653	45-6	41-9	43-7	72-0	40-2	166	9	N.	..		
29	29-588	51-0	38-6	44-8	89-0	29-9	78	1	N.E.	..		
30	29-503	59-0	32-8	45-9	110-0	28-4	36	10	S.	21		
31	29-292	50-0	45-7	47-8	79-0	45-2	241	7	N.	26		
*	29-941	53-7	43-1	48-4	93-3	38-3	254-3	7-5	..	461		
†	29-906	53-1	42-3	47-7	86-5	34-9	198	..	..	576

* Means, &c. † Means previous years.

DIRECTION OF WIND.

N.	N.E.	E.	S.E.	S.	S.W.	W.	N.W.	Calm.
10	5	..	..	9	1	..	4	2

NOTE.—An unsettled and cloudy month, with strong northerly and southerly winds prevailing. Total bright sunshine 99 hours 35 minutes, and six sunless days, 34 per cent. of the possible. Frost was recorded on the grass on nine mornings. Hail fell on the 23rd, and there were fogs on the 8th and 18th. Mean earth temperature at 1 ft. was 47-9°, and 51-4° at 3 ft. Mean dew-point, 43-2°; mean elastic force of vapour, 0-279 in.; and mean relative humidity, 82 per cent. of saturation.

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

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. 125	NORTH ISLAND. AUCKLAND .. F. A. F. Burnett	Deg. 51-6	Deg. 56-7	Deg. 46-5	Points. 342	Dys. 22	
131	RUAKURA FARM, HAMILTON EAST W. B. Monro	47-6	57-3	37-9	385	17	
46	TE AROHA .. G. F. McGirr	48-2	57-0	39-5	363	15	
340	WAIHI .. C. F. Sims	47-9	56-2	39-6	566	16	
100	TAURANGA .. C. J. Butcher	48-1	57-5	38-8	335	14	
925	ROTORUA .. G. J. O'Brien	45-9	54-9	37-0	353	13	
..	NEW PLYMOUTH ..	..	..	..	..	..
250	MOUMAHAKI .. J. G. McFarlane	46-7	53-8	39-6	528	17	
2080	TAIHAPE .. A. R. Fannin	42-0	47-7	36-4	484	21	
100	PALMERSTON NORTH .. J. A. Colquhoun	47-3	54-1	40-6	521	16	
119	CENTRAL DEVELOPMENT FARM, WERAROA J. Beverley	46-8	54-0	39-7	519	18	
70	GREENMEADOWS, NA- PIER	49-6	57-4	41-9	210	11	
377	MASTERTON .. R. Brown	46-4	54-9	38-0	360	..	
186	GREYTOWN .. J. P. Eccleton	46-5	54-4	38-7	549	16	
..	TRENTHAM MILITARY HOSPITAL	44-0	49-0	39-0	431	7	
10	WELLINGTON ..	48-4	53-7	43-1	461	16	
..	SOUTH ISLAND. BRIGHTWATER .. Ven. Archdeacon Kempthorne	44-4	54-9	33-9	202	13	
34	NELSON .. Wm. C. Davies	45-4	54-5	36-3	283	10	
1220	HANMER SPRINGS .. W. G. Morrison	42-3	50-6	34-0	317	9	
25	CHRISTCHURCH .. H. F. Skey	44-7	52-5	37-0	88	8	
42	LINCOLN .. Wm. C. Purdie	..	..	..	..	..
1220	KISSELTON .. A. R. Blackwood	42-9	51-9	33-9	285	7	
..	RAKAI .. Miss A. Hardy	43-3	52-9	33-9	53	6	
130	TIMARU .. Carstaker of Domain	43-5	51-6	35-5	54	9	
200	WAIMATE .. F. Akhurst	42-9	52-3	33-6	58	7	
800	DUNEDIN .. D. Tannock	40-5	43-5	37-5	166	11	
245	GORE .. A. T. Newman	40-8	49-0	32-6	266	15	
12	HOKITIKA .. J. A. Chesney	45-1	53-1	37-1	1432	18	
12	INVERCARGILL .. L. Lennie	42-4	50-7	34-2	334	20	
..	ROTORUA, JUNE, 1921	48-8	56-7	41-0	611	14	

SUMMARY FOR THE MONTH OF JULY, 1921.

July was an unsettled month, though the weather was milder than usual, and in consequence vegetation made an appreciable growth.

The total rain was above the average in the West Coast districts of the South Island, and between New Plymouth and Wanganui in the North Island; elsewhere the amounts were below, the greatest deficiencies occurring in the Hawke's Bay and Canterbury districts.

Some heavy rain fell on the 2nd and 3rd, with high westerly to southerly winds, when a disturbance in the South ruled in conjunction with one which passed in the vicinity of Cook Strait during the night of the 3rd.

A very intense Antarctic storm prevailed between the 12th and 18th, and on the night of the 16th a north-west gale of exceptional severity was experienced, particularly in and southward of Cook Strait.

From the 26th to the close of the month a cyclone centre persisted off the western coast, but, though the weather proved dull and misty during this period, the disturbance was responsible for very little rainfall.

D. C. BATES, Director.