

Government Meteorological Observatory.

METEOROLOGICAL Observations, Wellington, for the month of July, 1922. Observations taken 9 a.m.

Altitude of Observatory, 10 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	29.457	56.0	49.8	52.9	98.0	44.8	207	10	N.		23	
2	29.492	55.0	47.0	51.0	66.0	38.5	219	10	S.S.W.			
3	30.104	51.8	43.8	47.8	95.0	35.0	299	0	W.S.W.			
4	30.164	57.0	43.8	50.4	100.0	31.5	93	9	N.			
5	30.232	55.8	40.8	48.3	109.0	29.0	69	0	E.		2	
6	30.311	54.4	45.3	49.8	98.0	39.6	321	5	S.S.E.			
7	30.398	56.2	32.8	44.5	107.0	22.0	156	0	E.N.E.			
8	30.574	56.3	34.0	45.1	98.0	23.5	59	6	N.			
9	30.529	55.0	47.5	51.2	114.0	43.6	288	4	N.			
10	30.226	56.9	52.8	54.8	106.0	47.0	435	10	N.W.		50	
11	29.647	59.0	53.9	56.4	73.0	50.2	664	9	N.W.		5	
12	29.909	58.7	47.0	52.8	86.0	44.9	396	10	S.			
13	30.216	51.2	42.2	46.7	68.0	38.0	372	9	S.	Trace		
14	30.285	50.8	44.9	47.8	103.0	39.8	321	6	S.		16	
15	30.102	51.8	42.9	47.3	104.0	38.8	317	10	S.		39	
16	30.062	48.0	40.0	44.0	85.0	35.5	419	10	S.			
17	29.996	48.1	39.9	44.0	90.0	29.7	273	1	N.N.E.			
18	29.724	51.1	41.9	46.5	96.0	34.9	87	9	N.		10	
19	29.730	55.5	42.7	49.1	92.0	32.1	92	8	S.		1	
20	29.865	54.0	43.4	48.7	105.0	38.0	321	5	S.		9	
21	29.913	53.3	44.9	49.1	101.0	40.7	354	9	S.		1	
22	30.020	52.8	41.3	47.0	107.0	32.0	243	1	S.E.			
23	30.065	57.0	32.5	44.7	100.0	21.0	67	0	Calm			
24	30.173	57.6	35.0	46.3	106.0	24.3	40	9	Calm			
25	30.248	53.3	34.4	43.8	105.0	25.2	85	4	N.			
26	30.170	58.3	34.7	46.5	104.0	25.0	98	2	N.			
27	30.060	58.8	35.8	47.3	105.0	25.8	141	1	N.			
28	30.306	57.9	42.1	50.0	105.0	31.0	280	10	S.S.E.			
29	30.350	50.2	45.4	47.8	72.0	44.0	394	10	S.E.		9	
30	30.210	48.5	42.5	45.5	64.0	39.5	530	10	S.		4	
31	30.108	48.9	31.0	39.9	80.0	18.7	241	0	N.			
*	30.085	54.2	41.8	48.0	94.9	34.5	254	6.0			169	
†	29.918	53.1	42.3	47.7	86.5	34.9	198	5.6			573	

* Means, &c. Means previous years.

DIRECTION OF WIND.

N.	N.E.	E.	S.E.	S.	S.W.	W.	N.W.	Calm.
10	..	2	2	12	..	1	2	2

NOTE.—A fine winter month, with precipitation 71 per cent. below the mean of previous years. Total bright sunshine 119 hours 48 minutes, 41 per cent. of the possible, and four sunless days. Frost was recorded on the grass on thirteen mornings, the lowest reading being 18.7° on the 31st. Fogs occurred on the 7th, 23rd, and 31st. Mean earth-temperature at 1 ft. was 46.8°, and 50.3° at 3 ft. Mean dew-point, 41.1°; mean elastic force of vapour, 0.258 in.; and mean relative humidity, 78 per cent. of saturation.

CLIMATOLOGICAL TABLE.

MEANS AND TOTALS FROM THE CHIEF STATIONS.

July, 1922.

Altitude above Sea-level.	Name of Station and Observer.	Extremes.			Total Rainfall (100 Points to the Inch).	Days with Rain (3 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. 51.2	Deg. 56.7	Deg. 45.8	Points. 169	Dys. 21
131	RUAHURA FARM, HAMILTON EAST W. B. Monro	53.3	56.9	49.7	189	5
46	TE AROHA .. G. F. McGirr	47.8	57.1	38.6	196	9
340	WAIHI .. C. F. Sims	46.5	56.4	36.6	407	11
100	TAURANGA .. C. J. Butcher	47.9	57.8	38.0	123	11
925	ROTORUA .. W. E. Penno	47.7	56.6	38.8	384	7
..	NEW PLYMOUTH .. G. H. Dolby	48.4	55.0	41.9	161	8
250	MOUMAHAKI .. J. G. McFarlane	41.4	45.6	37.3	438	11
2080	TAIHAPE .. A. R. Fannin	40.9	46.4	35.4	278	16
100	PALMERSTON NORTH .. J. A. Colquhoun	46.1	53.5	38.7	155	8
119	CENTRAL DEVELOPMENT FARM, WERAROA J. Beverley	44.3	53.6	35.1	104	9
70	GREENMEADOWS, NA- PIER	47.4	54.9	40.0	330	14
377	MASTERTON .. R. Brown	44.2	52.8	35.7	252	18
186	GREYTOWN .. J. P. Eccleton	44.9	53.4	36.4	275	14
..	MILITARY HOSPITAL, TRENTHAM Miss E. Hooper	45.0	53.4	36.7	350	21
10	WELLINGTON ..	48.0	54.2	41.8	169	12
..	SOUTH ISLAND. BRIGHTWATER .. Ven. Archdeacon Kempthorne	45.5	54.8	36.2	130	6
34	NELSON .. Wm. C. Davies	44.9	54.3	35.6	97	6
1220	HANMER SPRINGS .. W. G. Morrison	38.0	48.5	27.5	290	10
25	CHRISTCHURCH .. H. F. Skey	41.3	49.9	32.7	130	12
42	LINCOLN .. M. J. Scott	41.6	51.0	32.2	50	6
1220	KISSELTON .. A. R. Blackwood	37.1	47.8	26.5	283	3
..	RAKALA .. Miss A. Hardy	38.6	47.4	29.9	136	6
130	TIMARU .. Caretaker of Domain	40.2	48.6	31.9	83	7
200	WAIMATE .. F. Akhurst	40.4	49.4	31.4	91	8
300	DUNEDIN .. D. Tannock	43.0	49.2	36.8	137	10
245	GORE .. A. T. Newman	38.2	47.1	29.3	149	13
12	HOKITIKA .. J. A. Chesney	44.2	54.2	34.2	461	8
12	INVERCARGILL .. L. Lennie	40.9	48.8	33.1	237	14

SUMMARY FOR THE MONTH OF JULY, 1922.

The July rainfall was nearly everywhere below the average, some places showing the lowest fall ever recorded for this month. Precipitation came mostly as light showers, but some heavy downpours occurred in various parts, with boisterous north-west winds, on the 10th, while an intense westerly disturbance was passing in the South and in the northernmost districts about the 28th and 29th, when a tropical depression was located northwards of New Zealand on the edge of an anticyclone centred in the South.

The month was remarkable for a frequency of dry southerly winds, clear days, and cold nights, and frosts were again above the average in number and degree.

D. C. BATES, Director.