

Government Meteorological Observatory.

METEOROLOGICAL Observations, Wellington, for the month of July, 1923. Observations taken 9 a.m.

Altitude of Observatory, 10 ft.

Date.	Barometer reduced and corrected to sea-level 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.	Mean Temp. in Shade.						
1	29.805	50.0	40.9	45.4	98.0	30.0	163	0	S.S.E.	..	
2	29.735	53.8	44.4	49.1	97.0	32.4	144	1	N.W.	48	
3	29.202	56.8	47.6	52.2	102.0	42.3	371	8	N.W.	19	
4	29.295	59.0	49.6	54.3	104.0	44.1	411	6	WNW	1	
5	29.674	55.3	41.0	48.1	97.0	29.0	167	9	S.	28	
6	30.028	54.9	39.9	47.4	80.0	36.4	478	9	S.S.W.	21	
7	30.195	45.0	40.4	42.7	66.0	37.0	431	9	S.	..	
8	30.290	47.0	43.0	45.0	81.0	37.3	321	8	S.S.E.	..	
9	30.213	49.3	42.0	45.6	101.0	35.0	171	8	S.W.	Trace	
10	30.124	49.2	42.8	46.0	83.0	40.4	227	10	S.	4	
11	30.181	47.0	41.0	44.0	65.0	32.1	227	7	N.E.	..	
12	30.176	56.9	39.3	48.1	108.0	29.8	19	8	Calm	..	
13	30.134	52.4	35.3	43.8	99.0	27.2	52	1	Calm	..	
14	29.910	55.8	40.6	48.2	106.0	30.4	84	9	E.N.E.	Trace	
15	29.822	54.0	48.3	51.1	80.0	40.0	138	10	Calm	..	
16	29.754	55.9	48.8	52.3	97.0	40.5	96	10	N.E.	..	
17	29.606	59.0	41.7	50.3	108.0	31.4	47	4	Calm	17	
18	29.585	55.3	45.0	50.1	97.0	38.6	231	10	S.	9	
19	29.635	48.8	45.5	47.1	74.0	42.2	192	10	S.	43	
20	29.738	49.2	46.2	47.7	61.0	45.5	205	10	S.	33	
21	29.870	49.2	46.0	47.6	62.0	45.6	185	10	S.	15	
22	29.984	49.2	46.4	47.8	63.0	45.0	225	10	S.	30	
23	30.112	51.9	44.8	48.3	87.0	42.2	410	5	S.	5	
24	30.117	51.2	44.5	47.8	100.0	39.8	291	10	S.	..	
25	29.970	51.3	34.6	42.9	107.0	24.3	90	5	N.	1	
26	29.898	52.3	35.0	43.6	104.0	23.9	79	10	S.	71	
27	30.085	49.2	40.0	44.6	92.0	39.1	362	10	S.	15	
28	30.381	46.6	40.8	43.7	86.0	31.3	365	10	S.	13	
29	30.477	49.6	42.4	46.0	88.0	29.8	201	8	S.S.E.	2	
30	30.550	52.8	44.9	48.8	104.0	41.5	430	6	S.	..	
31	30.502	50.1	39.7	44.9	102.0	30.3	176	7	E.N.E.	2	
*	29.969	51.9	42.7	47.3	90.3	36.0	226	7.7	..	377	
†	29.918	53.1	42.3	47.7	87.5	35.7	203	5.6	..	573	

* Means, &c. † Means previous years.

DIRECTION OF WIND.

N.	N.E.	E.	S.E.	S.	S.W.	W.	N.W.	Calm.
1	2	2	..	18	1	1	2	4

NOTE.—The weather during the month has been dull and showery, with moderate to strong southerly winds prevailing. Precipitation was 34 per cent. below the mean of previous years. Total bright sunshine 96 hours 32 minutes, 33 per cent. of the possible, and six sunless days. Hail fell on the 5th, 23rd, and 28th, fog occurred on the 17th, while frost was recorded on the grass on eleven mornings. Mean earth-temperature at 1 ft. was 45.5°, and 49.1° at 3 ft. Mean dew-point, 40.9°; mean elastic force of vapour, 0.256 in.; and mean relative humidity, 79 per cent. of saturation.

SUMMARY FOR THE MONTH OF JULY, 1923.

July was characterized by cold, dull, and damp weather, although the total rainfall was below the average over the greater part of the Dominion. An excess was experienced only at a few places in the northern and east coast districts of the North Island, and in North Canterbury in the South.

A westerly depression between the 1st and 6th accounted for heavy and widespread falls of snow in the highlands of the South Island.

From the 7th to the 9th anticyclonic conditions and fair weather prevailed, and this was the only period during which such conditions were general. The remainder of the month was very dull, misty, and showery, but heavy rain fell on the 14th and 15th in the northern and east coast districts of the North Island, owing to the passage of a cyclone centred northward of New Zealand.

The barometer rose very high towards the close of the month, but the weather, though fine over most of the country continued cold and showery with strong south-easterly winds in the east coast districts. This was accounted for by a disturbance which persisted in the neighbourhood of the Chatham Islands on the edge of the anticyclone.

D. O. BATES, Director.

CLIMATOLOGICAL TABLE.

MEANS AND TOTALS FROM THE CHIEF STATIONS.

July, 1923.

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.		
NORTH ISLAND.						
125	AUCKLAND ..	Deg. 50.2	Deg. 55.6	Deg. 44.7	Points. 281	19
131	RUAKURA FARM, HAMILTON EAST W. B. Monro	..	..	..	..	..
46	TE AROHA ..	.. 49.0	.. 57.0	.. 41.0	.. 761	14
340	WAIHI ..	.. 47.2	.. 56.4	.. 38.1	.. 621	19
100	TAURANGA ..	.. 48.8	.. 56.9	.. 40.8	.. 453	13
925	ROTORUA ..	.. 45.5	.. 53.8	.. 37.2	.. 216	14
60	NEW PLYMOUTH ..	.. 48.3	.. 54.6	.. 42.1	.. 565	16
250	MOUMAHAKI ..	.. 45.3	.. 52.3	.. 38.3	.. 283	14
2080	TAIHAPE ..	.. 40.3	.. 45.1	.. 35.5	.. 266	19
100	PALMERSTON NORTH ..	.. 45.6	.. 53.0	.. 38.3	.. 271	14
5	OROUA DOWNS ..	.. 44.8	.. 53.2	.. 36.5	.. 220	12
119	CENTRAL DEVELOPMENT FARM, WERAROA J. E. Sharp	.. 45.2	.. 52.8	.. 37.6	.. 289	11
377	MASTERTON ..	.. 44.3	.. 50.4	.. 38.2	.. 549	26
186	GREYTOWN ..	.. 45.0	.. 51.0	.. 39.0	.. 534	25
10	WELLINGTON ..	.. 47.3	.. 51.9	.. 42.7	.. 377	19
SOUTH ISLAND.						
87	BRIGHTWATER ..	.. 43.9	.. 54.2	.. 33.7	.. 218	7
34	NELSON ..	.. 45.2	.. 53.7	.. 36.8	.. 256	9
1220	HANMER SPRINGS ..	.. 36.5	.. 44.3	.. 28.8	.. 271	10
25	CHRISTCHURCH ..	.. 41.0	.. 46.6	.. 35.5	.. 390	22
42	LINCOLN ..	.. 40.9	.. 47.7	.. 34.1	.. 286	21
1220	KISSELTON ..	.. 35.4	.. 44.7	.. 26.1	.. 174	12
349	RAKAI ..	.. 39.0	.. 47.0	.. 32.0	.. 272	16
130	TIMARU ..	.. 40.3	.. 47.0	.. 33.7	.. 182	11
200	WAIMATE ..	.. 40.7	.. 48.1	.. 33.4	.. 229	14
300	DUNEDIN ..	.. 42.4	.. 47.2	.. 37.7	.. 214	13
245	GORE ..	.. 35.5	.. 44.4	.. 26.7	.. 108	10
12	HOKITIKA ..	.. 42.4	.. 52.4	.. 32.5	.. 250	8
12	INVERCARGILL ..	.. 38.3	.. 46.7	.. 30.0	.. 163	12
LATE RETURNS.						
	BRIGHTWATER (June, 1923)	.. 46.0	.. 55.1	.. 36.9	.. 135	12
	GORE (May, 1923)	.. 44.1	.. 53.9	.. 34.4	.. 196	14