

Government Meteorological Observatory.

METEOROLOGICAL Observations, Wellington, for the Month of July, 1913. 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.	Fah.						
1	30.359	52.2	46.0	49.1	93.8	46.0	224	8	N.	..	..
2	30.089	56.2	49.2	52.7	96.8	49.2	246	10	N.W.	..	37		
3	29.779	58.6	51.8	55.2	62.2	50.0	516	10	N.W.	..	14		
4	29.811	59.2	47.2	53.2	106.4	46.2	182	10	Calm	..	1		
5	29.561	55.2	48.0	51.6	94.6	46.2	82	10	S.W.	..	2		
6	29.910	50.0	40.8	45.4	70.4	31.0	460	3	N.	..	2		
7	30.179	52.2	44.0	48.1	106.0	39.8	38	7	S.E.	..	1		
8	30.150	55.2	37.4	46.3	99.0	30.0	76	4	N.W.	..	..
9	29.853	54.2	50.4	52.3	101.3	49.2	338	8	N.W.	..	48		
10	29.752	54.4	46.6	50.5	86.2	39.8	154	3	N.W.	..	30		
11	29.789	55.6	40.0	47.8	98.8	32.0	145	10	S.E.	..	..
12	30.101	46.2	41.4	43.8	62.4	38.0	367	3	S.	..	..
13	30.031	48.8	34.4	41.6	92.2	24.0	120	3	N.	..	1		
14	29.992	57.4	37.0	47.2	99.0	30.0	12	2	N.	..	25		
15	30.069	58.6	43.2	50.9	101.2	42.4	176	7	S.	..	..
16	30.032	54.6	47.2	50.9	97.2	43.6	124	8	N.	..	..
17	30.209	55.0	43.4	49.2	74.4	34.0	131	8	N.	..	3		
18	30.249	59.4	48.2	53.8	100.4	48.2	155	10	N.W.	..	7		
19	30.130	57.2	53.4	55.3	92.0	52.0	314	10	N.	..	8		
20	29.549	56.6	48.2	52.4	68.0	41.0	158	8	N.W.	..	16		
21	29.171	54.8	50.0	52.4	94.6	46.8	332	8	N.W.	..	64		
22	29.529	55.8	45.2	50.5	101.4	43.4	228	10	S.	..	17		
23	29.871	49.6	44.2	46.9	69.0	42.0	442	8	S.	..	31		
24	30.062	56.6	41.2	48.9	94.0	33.2	90	8	S.	..	5		
25	29.819	50.4	41.0	45.7	96.0	35.0	160	1	N.W.	..	..
26	29.659	55.8	46.2	51.0	102.0	32.0	100	1	N.	..	1		
27	29.910	61.2	38.4	49.8	104.0	30.0	106	8	N.	..	..
28	29.919	57.2	50.4	53.8	104.6	47.0	236	0	N.	..	..
29	30.351	61.6	41.0	51.3	101.0	31.0	138	8	Calm	..	1		
30	30.381	52.8	35.8	44.3	97.2	26.0	26	4	N.	..	..
31	30.029	52.0	44.6	48.3	91.6	43.2	274	10	N.	..	1		
*	29.945	55.0	44.4	49.7	92.2	39.4	198	6.5	..	..	315
†	29.906	52.9	42.1	47.4	86.5	34.9	232	..	..	..	584

* Means, &c. † Means previous years.

DIRECTION OF WIND.

	N.	N.E.	E.	S.E.	S.	S.W.	W.	N.W.	Calm.
13	2	5	1	..	8	2

NOTE.—A mild winter month, with temperatures well above the average. Precipitation occurred on 21 days, but the total rainfall was considerably below the mean of former years. Total bright sunshine, 108 hours 1 minute, and 4 sunless days. Nine frosts were recorded on the grass. Mean earth-temperature at 1 ft. was 47.5°, and 49.5° at 3 ft. Mean dew-point, 42.5°; mean elastic force of vapour, 0.272 inches; mean relative humidity, 77 per cent. of saturation.

CLIMATOLOGICAL TABLE.

MEANS AND TOTALS FROM THE CHIEF STATIONS.

July, 1913.

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.	NORTH ISLAND.	Deg.	Deg.	Deg.	Points.	Dys.
20	DARGAVILLE .. Dr. H. M. Levinge	57.0	63.4	50.7	198	16
125	AUCKLAND .. T. F. Cheeseman	51.7	56.7	46.8	437	25
..	TE AROHA .. G. F. McGirr	52.1	59.3	45.0	561	19
925	ROTORUA .. J. F. Robieson	47.7	54.1	41.2	547	14
370	WAIHI .. H. B. Devereux	48.4	57.1	39.8	818	27
..	TAURANGA .. C. J. Butcher	49.8	59.1	40.6	372	18
63	NEW PLYMOUTH .. W. D. Fletcher	56.2	67.7	44.6	496	23
250	MOUMAHAKI .. A. S. Huntington	47.8	54.4	41.2	507	13
2080	TAIHAPE .. A. R. Fannin	42.5	48.3	36.8	312	21
..	PALMERSTON NORTH J. E. Vernon	48.5	58.5	38.4	452	12
186	GREYTOWN * W. C. Davies	45.2	53.6	36.7	227	15
377	MASTERTON .. Wm. Hood	45.6	55.8	35.4	148	14
..	GIBBORNE .. C. H. Ferris	50.7	59.5	41.9	138	10
14	GREENMEADOWS, NA PIER Very Rev. Dean Smyth	48.7	57.4	40.1	105	4
10	WELLINGTON .. F. W. Simms	49.7	55.0	44.4	315	21
Ft.	SOUTH ISLAND.	Deg.	Deg.	Deg.	Points.	Dys.
34	NELSON .. Rev. J. P. Kempthorne	47.3	54.9	39.6	292	12
1218	HANMER SPA .. Dr. J. C. Duncan	43.1	52.8	33.5	233	9
25	CHRISTCHURCH .. H. F. Skey	43.5	51.7	35.2	259	12
42	LINCOLN .. G. Gray	45.6	53.2	38.0	274	12
130	TIMARU .. Caretaker of Domain	42.9	50.9	35.0	180	10
90	WAIMATE .. G. V. Cochrane	43.6	51.0	36.2	206	9
300	DUNEDIN .. D. Tannock	44.9	50.6	39.1	447	10
350	GORE .. Captain A. A. Scott	40.6	47.6	33.6	315	17
12	HOKITIKA .. F. T. Sandford	45.6	51.8	39.5	1273	26
18	INVERCARGILL .. L. Lennie	43.0	49.0	37.0	508	23

SUMMARY FOR JULY.

Owing to the predominance of moderate westerly winds the east coast districts between East Cape and Oamaru were favoured with exceptionally fair weather and a rainfall considerably below the average. The vicinity of Cook Strait also returned a remarkably low rainfall, and besides experienced very fair and mild conditions, which were most favourable to early vegetable growth. The Wanganui District was the only portion of the North Island where an excess of the normal rainfall occurred, but in the South Island the whole of the west coast and southern districts suffered in this respect, and were subject to unsettled weather.

There were no serious atmospheric disturbances during the month, the westerly low-pressure area ruling between the 19th and 23rd having the most effect on weather conditions. At this time many parts of the country recorded moderately heavy rains.

Meteorological Office Wellington, 27th August, 1913.

D. C. BATES, Director.