

Government Meteorological Observatory.

METEOROLOGICAL Observations, Wellington, for the Month of June, 1913. Observations taken 9 a.m.

Altitude of Observatory, 8 ft.

Date.	Barometer reduced and corrected in Inches to Lat. 49°.	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.						
1	30-259	52.8	40.0	46.4	98.0	42.6	209	8	N.	50
2	29-539	58.6	48.0	53.3	82.6	45.0	324	10	N.	9
3	29-709	58.8	54.4	56.6	80.2	51.6	456	2	N.	..
4	30-171	62.2	40.8	51.5	101.6	32.0	36	5	N.	2
5	30-049	56.4	44.6	50.5	101.0	43.4	218	10	N.	33
6	29-689	56.6	46.0	51.3	105.0	37.8	400	2	N.	2
7	29-769	56.0	43.2	49.6	101.4	36.0	106	1	W.	..
8	30-060	56.2	48.8	52.5	98.8	44.6	240	6	N.W.	..
9	29-929	56.6	52.4	54.5	108.8	50.8	540	8	N.	9
10	29-910	58.8	39.4	49.1	107.8	28.6	240	3	N.	3
11	30-159	54.8	41.8	48.3	97.8	39.2	421	8	S.	7
12	30-269	47.6	42.8	45.2	80.4	40.2	395	8	S.E.	16
13	30-319	51.8	45.6	48.7	89.4	43.8	234	7	S.E.	..
14	30-179	54.0	39.4	46.7	99.0	29.0	98	7	S.	3
15	29-999	52.8	36.8	44.8	98.0	28.0	102	5	Calm	..
16	29-639	52.6	41.4	47.0	96.0	38.2	160	2	N.	..
17	29-902	54.8	43.8	49.3	98.0	36.8	136	7	N.	..
18	29-939	54.8	46.2	50.5	98.6	46.2	252	10	N.	1
19	30-060	57.6	52.2	54.9	100.0	50.2	338	8	N.	1
20	30-249	59.8	43.2	51.5	99.0	33.6	10	0	E.	..
21	30-189	60.0	48.4	54.2	100.8	44.6	142	7	N.W.	1
22	30-160	53.6	47.0	50.3	90.6	45.2	370	10	S.	42
23	30-329	48.6	41.6	45.1	62.0	40.2	466	8	S.E.	21
24	30-359	46.8	41.4	44.1	88.0	40.2	566	8	S.E.	..
25	30-209	48.2	37.8	43.0	75.6	28.0	240	7	N.	..
26	30-160	52.8	43.8	48.3	97.2	34.6	91	7	S.E.	..
27	30-173	51.0	39.4	45.2	72.0	30.0	50	8	Calm	..
28	30-299	52.2	41.0	46.6	89.0	33.6	19	3	N.	1
29	30-409	52.8	35.8	44.3	95.4	27.0	78	7	Calm	1
30	30-401	53.4	35.0	44.2	97.8	26.0	12	7	N.	..
*	30-083	54.4	43.4	48.9	93.6	38.2	232	6.3	..	202
†	29-949	54.6	44.2	49.4	86.5	37.2	242	..	..	508

\* Means, &c. † Means previous years.

NOTE.—The weather during the month has been bright and sunny, with moderate northerly winds prevailing, while the rainfall was 60 per cent. below the mean of previous years. Total bright sunshine, 115 hours 5 minutes, and 2 sunless days. Frost was recorded on 8 mornings. Hail fell on the 22nd and 23rd. Earth temperatures during the month declined 6° at 1 ft. and 3° at 3 ft., the mean at the former being 48.0°, and 50.5° at the latter depth. The mean relative humidity was 77 per cent. of saturation; dew-point, 41.7°; and the mean elastic force of vapour, 0.264 inches.

DIRECTION OF WIND.

N.	N.E.	E.	S.E.	S.	S.W.	W.	N.W.	Calm.
15	..	1	5	3	..	1	2	3

CLIMATOLOGICAL TABLE.

MEANS AND TOTALS FROM THE CHIEF STATIONS.

June, 1913.

Ft.	Name of Station and Observer.	Altitude above Sea-level.	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.	Deg.		
NORTH ISLAND.								
20	DARGAVILLE ..	..	..	Deg.	Deg.	Deg.	Points.	Dys
	Dr. H. M. Levinge							
125	AUCKLAND ..	50.8	57.2	44.4	147	14		
	T. F. Cheeseman							
..	TE AROHA ..	..	..	..	226	12		
	G. F. McGirr							
925	ROTORUA ..	45.4	54.5	36.3	164	5		
	J. F. Robieson							
370	WAIHI ..	45.2	56.9	33.5	213	13		
	H. B. Devereux							
..	TAURANGA ..	48.0	59.3	36.8	198	9		
	C. J. Butcher							
63	NEW PLYMOUTH ..	54.3	67.2	41.4	256	12		
	W. D. Fletcher							
250	MOUMAHAKI ..	46.3	53.8	46.3	177	7		
	A. S. Huntington							
2080	TAIHAPE ..	41.2	47.3	35.1	125	14		
	A. R. Fannin							
..	PALMERSTON NORTH	48.9	57.5	40.4	180	7		
	J. E. Vernon							
186	GREYTOWN *	43.9	62.2	35.7	185	13		
	W. C. Davies							
377	MASTERTON ..	44.4	54.9	33.8	107	13		
	Wm. Hood							
..	GISBORNE ..	47.8	56.7	38.9	174	12		
	C. H. Ferris							
14	GREENMEADOWS, NA	48.0	56.2	39.8	86	5		
	PIER							
	Very Rev. Dean Smyth							
10	WELLINGTON ..	48.9	54.4	43.4	202	17		
	F. W. Simms							
SOUTH ISLAND.								
34	NELSON ..	45.6	54.8	36.4	194	11		
	Rev. J. P. Kempthorne							
1218	HANMER SPA ..	40.2	50.5	29.9	200	9		
	Dr. J. C. Duncan							
25	CHRISTCHURCH ..	41.0	50.9	31.2	106	12		
	H. F. Skey							
42	LINCOLN ..	42.4	51.8	33.1	96	12		
	G. Gray							
130	TIMARU ..	43.0	52.3	33.7	114	10		
	Caretaker of Domain							
90	WAIMATE ..	43.3	51.5	35.1	65	7		
	G. V. Cochrane							
300	DUNEDIN ..	44.4	50.6	38.2	91	8		
	D. Tannock							
350	GORE ..	39.8	47.6	32.1	219	18		
	Captain A. A. Scott							
12	HOKITIKA ..	43.0	50.1	35.9	913	17		
	F. T. Sandford							
18	INVERCARGILL ..	42.7	49.3	36.1	391	25		
	L. Lennie							

SUMMARY FOR JUNE.

June, meteorologically the first month of winter, was on the whole favoured with fair, though during the first half somewhat changeable, weather. Consequently the rainfall was nearly everywhere lower than the normal. In the North Island this deficiency averaged 57 per cent., while in the South the difference was about 41 per cent. Southland was the only district that approximated the mean to any extent, and a few stations here exceeded it slightly. During the month New Zealand was affected by four well-defined types of pressure-distribution, each accounting for different weather conditions. A cyclonic system passed in the South on the night of the 2nd, bringing general rain about this date. Two moderate westerly low-pressure areas ruled, the first between the 4th and 10th, and the second from the 15th to the 19th. Squally and changeable conditions were experienced while they lasted, with passing showers, especially in western districts. The remaining types were anti-cyclones, two between the 10th and 14th and the 22nd and 25th respectively being centred further south than usual, on account of which cold easterly winds prevailed. From the 25th to the close of the month normal anti-cyclonic conditions, with fine and bright weather, prevailed.

Meteorological Office, Wellington, 22nd July, 1913.

D. C. BATES, Director.