

Government Meteorological Observatory.

METEOROLOGICAL Observations, Wellington, for the month of September, 1917. Observations taken 9 a.m.

Altitude of Observatory, 8 ft.

Date.	Barometer reduced and corrected in inches to Lat. 40°.	From Self-registering Instruments for Twenty-four Hours previously.							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.	Solar Radiation.	Terrestrial Radiation.	Veloc. Wind in Miles.	Direction of Wind.			
		Fah.	Fah.	Fah.	Fah.						
1	29.615	58.2	51.5	54.8	118.0	47.6	374	8	N.	77	
2	29.181	58.2	51.5	54.8	111.0	50.0	313	2	N.W.	9	
3	29.598	60.1	47.0	53.5	137.0	44.0	251	10	SSE	..	
4	29.753	51.2	34.3	42.7	100.0	25.2	171	0	Calm	..	
5	29.923	56.1	39.3	47.7	117.0	29.2	151	1	N.W.	12	
6	29.768	58.0	50.6	54.3	116.0	49.1	463	7	NNW	..	
7	29.762	59.3	52.8	56.0	119.0	47.9	319	7	NNW	25	
8	29.830	60.7	45.3	53.0	123.0	39.1	48	7	Calm	Trace	
9	29.946	59.0	40.0	49.5	122.0	31.0	530	8	NNE	5	
10	29.594	59.3	45.1	52.2	122.0	35.7	74	10	Calm	11	
11	29.550	53.6	49.5	51.5	70.0	48.3	162	10	S.	10	
12	30.122	59.7	47.5	53.6	123.0	45.0	444	10	SSE	3	
13	30.466	54.8	47.2	51.0	107.0	42.6	341	1	S.	..	
14	30.537	58.8	38.7	48.7	121.0	29.0	130	0	Calm	..	
15	30.267	61.7	44.1	52.9	125.0	31.3	94	6	N.W.	..	
16	30.322	58.0	41.0	49.5	124.0	29.1	130	10	S.	..	
17	30.352	58.5	44.9	51.7	120.0	33.6	129	7	N.	58	
18	30.404	59.9	53.0	56.4	128.0	49.6	360	10	N.W.	Trace	
19	30.371	59.2	55.0	57.1	125.0	53.8	548	10	N.	..	
20	30.595	59.0	56.5	57.7	98.0	54.6	423	7	N.	..	
21	30.479	60.9	55.3	58.1	130.0	52.3	399	8	N.W.	..	
22	30.414	61.3	56.5	58.9	125.0	54.7	500	8	N.	..	
23	30.209	62.0	55.5	58.7	132.0	53.8	317	7	N.	..	
24	29.982	59.3	55.4	57.8	128.0	53.2	518	6	N.W.	6	
25	29.802	59.8	57.1	58.9	106.0	55.7	397	10	N.W.	152	
26	29.358	60.9	57.0	58.9	105.0	55.5	526	10	N.	37	
27	29.563	62.0	54.0	58.0	116.0	49.2	535	4	N.	..	
28	29.836	60.0	51.8	55.9	135.0	47.0	308	4	N.W.	1	
29	30.025	60.2	47.3	53.7	126.0	37.1	112	4	Calm	45	
30	30.030	67.5	46.0	56.7	133.5	35.8	105	9	N.	5	
..	
*	29.985	59.2	49.0	54.1	118.7	45.6	306	6.7	..	456	
†	29.925	57.3	45.4	51.5	104.5	38.4	244	414	

* Means, &c. † Means previous years.

DIRECTION OF WIND.

N.	N.E.	E.	S.E.	S.	S.W.	W.	N.W.	Calm.
12	5	8	5

NOTE.—The weather during the month has been cloudy and unsettled, with moderate to strong N. and N.W. winds predominating. Total bright sunshine, 128 hours 13 minutes; and three sunless days. Frost was recorded on the grass on six mornings. The mean earth-temperature at 1 ft. and 3 ft. was 53.5°; mean dew-point, 48°; mean elastic force of vapour, 0.335 in.; and mean relative humidity, 80 per cent. of saturation.

CLIMATOLOGICAL TABLE.

MEANS AND TOTALS FROM THE CHIEF STATIONS.

September, 1917.

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 (3 Point or more).
			Mean Max. Temp.	Mean Min. Temp.		
Ft.		Deg.	Deg.	Deg.	Points.	Dys.
125	NORTH ISLAND. AUCKLAND .. F. A. F. Burnett	55.3	60.1	50.5	703	18
46	TE AROHA .. G. F. McGirr	56.5	65.1	48.0	600	11
925	ROTORUA .. J. W. McKinna	49.8	56.5	43.1	425	16
340	WAIHI .. P. A. Clifford	54.0	64.0	44.0	771	18
..	TAURANGA .. C. J. Butcher	53.4	62.4	44.4	583	15
160	NEW PLYMOUTH .. W. W. Smith	54.1	62.5	45.7	575	18
250	MOUMAHAKI .. T. W. Lonsdale	58.0	61.4	54.6	242	11
2080	TAIHAPÉ .. A. R. Fanning	48.5	55.4	41.7	335	16
100	PALMERSTON NORTH .. J. E. Vernon	53.2	61.2	45.2	311	18
186	GREYTOWN .. W. C. Davies	54.6	64.1	45.1	245	9
377	MASTERTON .. Wm. Hood	54.4	64.2	44.7	221	14
70	GREENMEADOWS, NA-PIER T. B. McBrean	56.0	63.9	48.2	235	7
10	WELLINGTON ..	54.1	59.2	49.0	456	15
34	SOUTH ISLAND. NELSON .. J. R. Dart	53.8	60.8	46.9	371	9
1220	HANMER SPA .. Miss M. Stewart	49.7	58.9	40.6	930	16
25	CHRISTCHURCH .. H. F. Skey	51.8	58.8	44.8	259	14
42	LINCOLN .. L. J. Wild	51.2	59.2	43.3	253	11
1220	KISSELTON	49.2	57.7	40.7	578	11
..	RAKAI .. Miss A. Hardy	50.0	58.1	42.0	521	9
130	TIMARU .. Caretaker of Domain	50.5	58.9	42.2	547	13
200	WAIMATE .. F. Akhurst	48.6	55.9	41.3	527	12
300	DUNEDIN .. D. Tannock	50.3	57.2	43.4	718	13
245	GORE .. H. Dolamore	48.4	58.3	38.6	347	14
12	HOKITIKA .. W. H. Fleming	50.7	58.1	45.3	1,798	20
12	INVERCARGILL .. L. Lennie	48.9	58.8	39.0	291	14

SUMMARY FOR THE MONTH OF SEPTEMBER, 1917.

September proved a mild but changeable month. With the exception of the east coast of the North Island most parts of the Dominion recorded a total rainfall in excess of the average; and, owing to some extremely heavy downpours, particularly about the 1st and 2nd, 11th and 25th, the difference above the mean was considerable over the greater portion of the South Island.

Of the three principal disturbances, two which ruled between the 1st and 3rd and the 24th and 28th respectively were westerly cyclones with centres passing over the South Island; the other, whose effects were chiefly felt between the 10th and 12th, was an extropical cyclone, the centre of which passed in the northern districts—this disturbance was responsible for heavy rain in various parts and for phenomenal floods in the Kaikoura district.

Between the 13th and 23rd an anticyclone ruled, with an exceptionally high barometer, in the north, but on the night of the 18th and again on the 21st depressions passed in the south bringing high north-west winds in and southward of Cook Strait and rain in the west coast and southern parts of the South Island. There was a remarkable prevalence of strong westerly winds, but on the whole the weather during the month was favourable to rapid vegetable growth. This is shown in the marked increase in the earth-temperatures at a depth of 1 ft., the mean at the Wellington Observatory for the first week being 51.3° F. and for the last week 56.8° F.

D. C. BATES, Director.