

Government Meteorological Observatory.

METEOROLOGICAL Observations, Wellington, for the month of September, 1916. 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.					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.	Solar Radiation.	Therm. Radiation					
1	30.289	55.3	41.5	48.4	103.0	31.0	147	8	N.	..	
2	30.174	57.7	51.0	54.3	117.3	46.2	311	1	N.W.	..	
3	30.161	60.0	45.0	52.5	113.0	34.0	294	1	Calm	..	
4	29.999	61.0	47.3	54.1	116.8	39.0	77	0	N.	..	
5	30.108	63.5	41.0	52.2	114.0	39.0	178	2	N.	1	
6	29.957	57.4	52.0	54.7	119.8	50.8	398	2	N.W.	..	
7	29.926	58.1	54.4	56.2	115.0	51.7	624	7	N.	13	
8	30.039	58.0	49.8	53.9	117.1	49.0	592	10	S.	Trace	
9	29.926	55.5	45.1	50.3	96.0	35.8	107	9	N.W.	34	
10	29.890	56.2	52.0	54.1	121.0	50.0	229	10	Calm	7	
11	29.857	57.8	46.6	52.2	105.3	36.0	157	3	N.	..	
12	29.892	61.1	52.6	56.8	115.0	48.8	394	5	S.	..	
13	29.738	59.9	40.2	50.0	114.5	27.3	304	8	N.W.	32	
14	29.441	58.0	49.6	53.8	115.0	44.0	545	4	S.W.	3	
15	29.994	57.0	39.4	48.2	113.0	37.4	395	5	S.	..	
16	30.209	53.7	36.5	45.1	120.0	25.7	150	4	N.	11	
17	29.962	58.1	51.5	54.9	123.0	45.9	341	10	N.	43	
18	30.176	57.2	38.2	47.7	110.9	28.4	278	1	N.E.	Trace	
19	30.662	60.1	45.0	52.5	115.7	31.4	234	5	S.	..	
20	30.515	55.0	43.4	49.2	114.7	44.5	236	7	N.E.	..	
21	30.765	61.0	48.0	54.5	119.5	42.4	364	4	E.	..	
22	30.699	61.0	42.8	51.9	117.9	39.0	150	2	N.	..	
23	30.637	57.4	51.0	54.2	121.0	44.4	307	7	N.	..	
24	30.512	57.8	50.8	54.3	120.4	42.8	272	8	N.	..	
25	30.285	59.9	52.5	56.2	119.0	47.3	265	7	N.	..	
26	30.017	60.5	44.4	52.4	111.0	31.2	97	1	Calm	..	
27	29.961	60.9	47.2	54.0	119.0	42.6	299	10	S.	..	
28	29.723	57.0	52.7	54.8	117.5	50.0	252	10	N.	78	
29	29.916	57.7	46.8	52.2	115.0	45.5	276	10	S.	63	
30	29.798	53.0	44.5	48.7	84.5	42.7	326	10	E.	7	
*	30.107	58.2	46.7	52.5	114.1	40.8	287	5.7	..	292	
†	29.925	57.3	45.4	51.3	104.5	38.4	244	..	..	424

* Means, &c. † Means previous years.

DIRECTION OF WIND.

N.	N.E.	E.	S.E.	S.	S.W.	W.	N.W.	Calm.
12	2	2	..	6	1	..	4	3

Note.—A mild spring month with barometric pressure and temperatures above the average, while precipitation was 31 per cent. below the mean of previous years. Total bright sunshine, 168 hours 43 minutes; and three sunless days. Frost was recorded on six mornings. Mean earth-temperature at 1 ft. was 52.4°, and 52.8° at 3 ft. Mean dew-point, 45.4°; mean elastic force of vapour, 0.304 in.; and mean relative humidity, 76 per cent. of saturation.

CLIMATOLOGICAL TABLE.

MEANS AND TOTALS FROM THE CHIEF STATIONS.

September, 1916.

Ft.	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 .. F. A. F. Burnett	Deg. 55.3	Deg. 60.7	Deg. 50.0	Points. 268	Dys. 16
46	TE AROHA .. G. F. McGirr	53.3	62.7	44.0	176	11
925	ROTORUA .. S. R. Edwards	51.7	61.7	41.8	250	13
340	WAIHI .. P. A. Clifford	53.3	63.4	43.3	476	13
..	TAURANGA .. C. J. Butcher	53.6	64.3	42.9	364	11
160	NEW PLYMOUTH .. W. W. Smith	55.3	62.1	48.5	609	11
250	MOUMAHAKI .. T. W. Lonsdale	..	..	..	420	9
2080	TAIHAPE .. A. R. Fannin	47.5	54.9	40.2	258	11
100	PALMERSTON NORTH .. J. E. Vernon	51.8	60.0	43.7	247	12
186	GREYTOWN .. W. C. Davies	52.4	64.1	40.7	432	9
377	MASTERTON .. Wm. Hood	52.1	64.0	40.2	501	11
70	GREENMEADOWS, NA-PIER .. W. B. Buckley	55.5	65.0	46.0	163	7
10	WELLINGTON .. A. Stretton	52.5	58.2	46.7	292	11
SOUTH ISLAND.						
34	NELSON .. J. R. Dart	Deg. 51.6	Deg. 60.7	Deg. 42.5	Points. 131	Dys. 7
1220	HANMER SPA* .. J. W. McKinna	48.9	60.1	37.9	478	5
25	CHRISTCHURCH .. H. F. Skey	50.3	61.0	39.6	157	11
42	LINCOLN .. L. J. Wild	50.8	61.4	40.3	102	9
..	RAKAIA .. Miss A. Hardy	50.1	61.9	38.3	134	5
130	TIMARU .. Caretaker of Domain	51.0	63.5	38.6	98	6
200	WAIMATE .. F. Akhurst	49.4	60.2	38.7	60	5
300	DUNEDIN .. D. Tannock	50.5	59.8	41.3	173	8
245	GORE .. H. Dolamore	47.6	57.1	38.2	335	16
12	HOKITIKA .. F. T. Sandford	48.8	56.5	41.1	720	16
12	INVERCARGILL .. L. Lennie	48.4	56.3	40.5	629	17
..	* July	..	..	..	557	9

SUMMARY FOR THE MONTH OF SEPTEMBER, 1916.

The weather during September was on the whole mild and spring-like, and, except in the southernmost districts, precipitation was everywhere below the average.

There were three noteworthy atmospheric depressions accounting for short periods of disturbed weather, and these may be briefly described.

Although an anti-cyclone ruled in the north between the 1st and the 11th, relatively low pressure was in evidence during this period in the southern districts, and on the 6th and 7th this depression intensified considerably over the South Island, being responsible for somewhat boisterous conditions in and southward of Cook Strait. Some heavy rainfalls occurred about this time in Westland and Otago. Bluff recorded 5.57 in. for twenty-four hours up to 9 a.m. on the 7th, and some of the rivers in Otago rose to flood-level.

Between the 13th and 15th the passage of an intense Antarctic low-pressure area caused very stormy weather, heavy westerly gales prevailing on the 13th, changing to south-westerly on the 14th. Considerable rain fell, and on the 15th snow was also reported in various districts in the South and inland on the higher levels in the North Island.

The third unsettled period—viz., between the 26th and the end of the month—was the result of a disturbance located on the Tasman Sea, the centre of which passed down the west coast on the 28th and 29th. Dull skies and much mist and fog were experienced, with rain in scattered districts, but in Taranaki heavy rain fell on the two latter days.

A week of very fine weather was experienced from the 18th to the 25th, when a decided anti-cyclone held sway which, on the 21st, was remarkable for a central isobar of nearly 30.8 in. about Cook Strait.

D. C. BATES, Director.