

Government Meteorological Observatory.

METEOROLOGICAL Observations, Wellington, for the month of September, 1919. 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. Fah.						
1	29.345	59.8	45.7	52.7	114.0	32.3	240	0	N.W.	19	
2	29.602	55.9	35.9	45.9	121.0	33.0	351	1	S.W.	1	
3	29.528	55.7	42.8	49.2	108.0	36.7	241	9	S.	..	
4	29.583	51.4	40.3	45.8	112.0	33.8	197	7	N.W.	..	
5	29.618	54.0	36.7	45.3	114.0	26.6	138	5	ENE	Trace	
6	29.963	59.4	37.3	48.3	117.0	26.6	123	10	S.	Trace	
7	30.159	49.6	43.2	46.4	97.0	37.6	310	9	S.E.	..	
8	30.213	52.8	35.1	43.9	118.0	23.0	146	2	N.E.	..	
9	30.139	54.3	31.2	42.7	115.0	23.0	113	0	Calm	Trace	
10	29.893	59.2	41.7	50.4	115.0	30.0	27	10	E.	4	
11	29.711	59.8	47.7	53.7	121.0	44.2	265	10	ENE	1	
12	29.684	55.7	49.7	52.7	98.0	46.0	248	7	S.E.	1	
13	29.772	58.5	48.1	53.3	114.0	45.7	391	10	S.	..	
14	29.826	56.4	40.5	48.4	105.0	29.0	74	5	Calm	..	
15	29.822	62.4	46.1	54.2	115.0	33.1	148	9	N.W.	17	
16	29.526	57.9	47.2	52.5	124.0	45.4	427	6	N.W.	34	
17	29.800	57.3	41.6	49.4	118.0	31.9	191	8	S.	..	
18	29.904	57.5	36.1	46.8	125.0	27.0	65	1	N.W.	..	
19	29.980	60.4	50.5	55.4	121.0	42.0	249	0	N.W.	..	
20	29.997	64.8	53.2	59.0	122.0	46.4	276	0	N.W.	..	
21	29.992	61.2	52.8	57.0	123.0	49.5	555	9	N.W.	14	
22	29.888	58.2	50.3	54.2	106.0	49.0	386	10	S.	10	
23	30.093	51.4	44.6	48.0	105.0	40.0	280	7	SSE	..	
24	30.054	54.3	36.3	45.3	111.0	24.2	147	9	N.	..	
25	29.858	58.7	51.4	55.0	129.0	46.5	299	9	N.W.	15	
26	30.012	65.3	40.7	53.0	135.0	29.8	235	9	S.	..	
27	30.218	53.8	45.2	49.5	120.0	41.5	386	4	S.	..	
28	30.043	56.2	49.2	52.7	125.0	42.0	245	10	N.	12	
29	29.634	55.8	49.7	52.7	122.0	49.4	396	10	N.W.	68	
30	29.856	56.2	42.2	49.2	77.0	40.5	446	9	S.	..	
*	29.857	57.1	43.8	50.4	114.9	36.8	253	6.5	..	196	
†	29.925	57.2	45.4	51.3	104.5	38.4	244	..	..	419	

\* Means, &c. † Means previous years.

DIRECTION OF WIND.

N.	N.E.	E.	S.E.	S.	S.W.	W.	N.W.	Calm.
2	1	3	2	9	1	..	10	2

NOTE.—A dry spring month with precipitation 53 per cent. below the mean of previous years. Total bright sunshine 169 hours 27 minutes, and three sunless days, giving an average of 5 hours 39 minutes per diem. Snow reported on hilltops on 2nd, and thunder and lightning on the 25th. Mean earth-temperature at 1 ft. was 51°, and 52.2° at 3 ft. Mean dew-point, 43.4°; mean elastic force of vapour, 0.281 in.; and mean relative humidity, 77 per cent. of saturation.

CLIMATOLOGICAL TABLE.

MEANS AND TOTALS FROM THE CHIEF STATIONS.

September, 1919.

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 (4 Points more)
			Mean Max. Temp.	Mean Min. Temp.		
Ft.	NORTH ISLAND.	Deg.	Deg.	Deg.	Points.	Dys.
125	AUCKLAND .. F. A. F. Burnett	50.0	58.3	41.7	356	18
46	TE AROHA .. G. F. McGirr	52.2	60.6	43.9	550	17
925	ROTORUA .. J. R. Cummins	51.8	65.9	37.8	457	8
340	WAIHI .. P. A. Clifford	51.4	60.4	42.4	539	15
..	TAURANGA .. C. J. Butcher	50.6	60.5	40.7	754	9
160	NEW PLYMOUTH .. W. W. Smith	52.9	60.4	45.4	510	21
250	MOUMAHARI .. T. W. Lonsdale	49.5	59.4	39.7	296	10
2080	TAIHAPE .. A. R. Fannin	44.9	52.1	37.7	392	18
100	PALMERSTON NORTH .. J. A. Colquhoun	49.2	57.1	41.3	272	12
119	CENTRAL DEVELOPMENT FARM, WERAROA J. Beverley	49.0	56.5	41.6	312	16
186	GREYTOWN .. W. C. Davies	..	..	..	..	..
377	MASTERTON .. Wm. Hood	48.7	60.5	37.0	367	16
70	GREENMEADOWS, NAPIER T. B. McBreen	51.3	60.4	42.2	256	5
..	TRENTHAM MILITARY CAMP Lieut.-Col. Leahy	48.8	57.6	40.0	396	11
10	WELLINGTON .. SOUTH ISLAND.	50.4	57.1	43.8	196	12
..	BRIGHTWATER .. Ven. Archdeacon Kempthorne	49.6	59.8	39.5	158	11
34	NELSON .. J. Williams	..	58.8	..	209	11
1220	HANMER SPA .. G. J. O'Brien	44.4	53.9	34.9	686	11
25	CHRISTCHURCH .. H. F. Skey	46.0	54.7	37.4	302	12
42	LINCOLN .. L. J. Wild	47.4	57.8	37.0	265	11
1220	KISSELTON .. A. R. Blackwood	45.7	56.8	34.6	542	10
..	RAKATA .. Miss A. Hardy	45.9	55.5	36.3	410	11
130	TIMARU .. Caretaker of Domain	46.9	56.5	37.4	282	11
200	WAIMATE .. F. Akhurst	45.6	53.9	37.4	483	12
300	DUNEDIN .. D. Tannock	47.1	54.4	39.9	358	15
245	GORE .. H. Dolamore	44.4	54.7	34.1	299	13
12	HOKITIKA .. W. H. Fleming	47.0	54.9	39.2	772	17
12	INVERCARGILL .. L. Lennie	46.3	56.7	35.9	343	12

SUMMARY FOR THE MONTH OF SEPTEMBER, 1919.

The weather during September was extremely changeable, and the mean temperature was generally below that of previous years. Consequently vegetable growth was rather backward for this season in most parts of the Dominion. Total rainfall was deficient in nearly all districts with a westerly aspect, while Hawke's Bay and the eastern half of the South Island experienced more than the average, chiefly owing to very heavy rains which occurred on the 10th and 11th. The storm at this time was an ex-tropical cyclone, the centre of which passed in the north on the 10th and 11th and off East Cape on the night of the 12th. It was responsible for south-east gales in the East Coast districts, and floods in some of the rivers in the Hawke's Bay, Marlborough, and Kaikoura districts. The rainfall reported at Hapuku, Kaikoura, for the three days was 10.45 inches, of which amount 6.37 inches fell on the 11th. Frequent disturbances of the westerly type were in evidence during the month, accounting for strong north-west to south-west winds, particularly during the first four days and between the 15th and 20th.

B. V. PEMBERTON, Acting-Director.