

Government Meteorological Observatory.

METEOROLOGICAL Observations, Wellington, for the month of September, 1920. Observations taken 9 a.m.

Altitude of Observatory, 10 ft.

Date.	Barometer reduced and corrected in inches to lat. 45°.	From Self-regulating 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.	Velos. Wind, in Miles.			
1	30.352	50.6	39.2	44.9	105.0	26.1	216	8	Calm	..
2	30.196	52.4	35.7	44.0	103.0	21.7	76	5	N.E.	..
3	30.320	56.5	41.1	48.8	123.0	26.6	145	7	S.E.	..
4	30.355	52.7	41.8	47.2	107.0	32.0	205	7	E.	..
5	30.263	55.1	33.4	44.2	107.0	33.2	61	9	Calm	35
6	30.395	48.0	41.1	44.5	87.0	38.4	394	7	S.S.E.	11
7	30.332	48.4	37.6	43.0	104.0	27.3	281	0	N.E.	..
8	30.138	54.0	47.0	50.5	111.0	42.5	308	2	N.W.	..
9	30.222	55.3	51.1	53.2	115.0	47.2	405	9	N.	..
10	30.237	57.5	39.6	48.5	116.0	28.8	108	2	N.N.W.	2
11	29.872	58.4	46.0	52.2	116.0	33.0	209	10	N.	17
12	29.794	57.0	53.5	55.2	97.0	50.5	388	10	N.W.	11
13	29.538	57.0	51.0	54.0	94.0	47.4	318	10	N.N.W.	11
14	29.819	58.4	44.9	51.6	107.0	41.8	473	10	S.S.E.	Trace
15	29.783	51.0	39.5	45.2	101.0	27.0	216	0	N.E.	..
16	29.992	56.8	39.7	48.2	118.0	28.0	309	10	N.	..
17	29.930	55.3	37.2	46.2	126.0	24.0	164	3	E.	16
18	30.112	57.1	43.1	50.1	115.0	35.5	177	3	S.E.	..
19	30.150	52.3	37.9	45.1	107.0	28.8	186	5	N.	5
20	29.950	54.6	49.2	51.9	127.0	48.1	445	10	N.	50
21	29.813	55.8	53.2	54.5	78.0	52.3	328	10	Calm	76
22	29.447	57.1	49.1	53.1	74.0	48.0	90	8	S.W.	30
23	29.679	59.2	45.8	52.5	127.0	45.0	321	10	S.W.	33
24	30.005	53.0	47.0	50.0	89.0	46.0	423	8	S.S.E.	..
25	29.873	56.1	38.3	47.2	118.0	26.0	156	2	S.E.	..
26	29.717	60.0	44.0	52.0	118.0	32.8	74	8	Calm	..
27	29.692	63.3	49.3	56.3	128.0	41.6	163	8	N.	1
28	29.766	58.4	50.6	54.5	124.0	46.4	349	10	N.N.W.	7
29	30.006	60.4	48.0	54.2	135.0	46.5	201	9	S.	Trace
30	29.788	57.0	44.9	50.9	112.0	35.0	112	10	S.S.E.	55
*	29.984	55.6	44.0	49.8	109.6	36.9	243.3	7.0	..	360
†	29.925	57.4	45.7	51.6	104.5	38.4	244	409

* Means, &c. † Means previous years.

DIRECTION OF WIND.

N.	N.E.	E.	S.E.	S.	S.W.	W.	N.W.	Calm.
9	3	2	3	5	2	..	2	4

NOTE.—A cold, changeable, and showery month, with precipitation on fifteen days, which was 12 per cent. below the mean of previous years. Total bright sunshine, 136 hours 35 minutes, and four sunless days. Frost was recorded on the grass on eleven mornings. Mean earth temperature at 1 ft. was 49.6°, and 50.7° at 3 ft. Mean dew-point, 43.9°; mean elastic force of vapour, 0.287 in.; and mean relative humidity, 80 per cent. of saturation.

CLIMATOLOGICAL TABLE.

MEANS AND TOTALS FROM THE CHIEF STATIONS.

September, 1920.

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 Point or more).
			Mean Max. Temp.	Mean Min. Temp.		
Ft. 125	NORTH ISLAND.	Deg.	Deg.	Deg.	Points.	Dys.
..	AUCKLAND .. F. A. F. Burnett	53.9	59.6	48.3	508	19
46	TE AROHA .. G. F. McGirr	52.0	62.5	41.5	407	10
925	ROTORUA .. L. Bayfield	49.8	60.3	39.3	695	15
340	WAIHI .. P. A. Clifford	49.7	60.2	39.3	843	16
..	TAURANGA .. C. J. Butcher	50.2	60.0	40.5	502	18
160	NEW PLYMOUTH .. W. W. Smith	51.5	60.3	42.8	645	14
250	MOUMAHAKI .. J. G. McFarlane	49.5	58.9	40.2	343	13
2080	TAIHAPE .. A. R. Fannin	44.6	51.8	37.5	486	17
100	PALMERSTON NORTH .. J. A. Colquhoun	48.2	58.4	38.0	216	10
119	CENTRAL DEVELOPMENT FARM, WERAROA J. Beverley	47.9	56.6	39.2	164	13
186	GREYTOWN .. T. W. Bowman	48.5	57.9	39.1	464	14
377	MASTERTON .. R. Brown	48.3	57.9	38.8	524	14
70	GREENMEADOWS, NAPIER T. B. McBreen	51.0	59.2	42.8	235	9
..	TRENTHAM MILITARY HOSPITAL	43.7	51.5	35.9	333	12
10	WELLINGTON .. Ven. Archdeacon Kempthorne	49.8	55.6	44.0	360	15
..	SOUTH ISLAND.					
..	BRIGHTWATER .. J. Williams	49.4	58.6	40.2	417	10
34	NELSON .. G. J. O'Brien	50.5	57.3	43.7	420	11
1220	HANMER SPA .. H. F. Skey	45.6	54.8	36.5	551	10
25	CHRISTCHURCH .. L. J. Wild	46.6	53.1	40.1	367	15
42	LINCOLN .. A. R. Blackwood	46.0	55.4	36.7	497	17
1220	KISSLETON .. Miss A. Hardy	46.2	55.5	36.9	359	11
..	RAKAIKA .. Caretaker of Domain	45.0	53.8	36.3	620	11
130	TIMARU .. F. Akhurst	45.4	53.5	37.4	603	9
200	WAIMATE .. D. Tannock	45.1	52.7	37.6	645	13
300	DUNEDIN .. A. T. Newman	46.0	52.7	39.4	529	17
245	GORE .. J. A. Chesney	45.1	54.8	35.5	264	15
12	HOKITIKA .. L. Lennie	49.9	57.2	42.7	698	18
12	INVERCARGILL ..	46.2	55.1	37.4	199	17

SUMMARY FOR THE MONTH OF SEPTEMBER, 1920.

With the exception of a few isolated places along the western coast and about Foveaux Strait all parts of the Dominion recorded a total rainfall above the average. The greatest difference was in the East Coast districts of the South Island, where, in places, as much as three times the average amount fell.

The first week, when an anticyclone ruled, proved the only period during which fair weather prevailed over the Dominion as a whole. The remainder of the month was extremely changeable, and at times very cold and stormy.

The heaviest rains were experienced about the 21st and 22nd and the 28th and 29th. On the former two days floods occurred in the Kaikoura district, and on the latter two severe floods were reported in the East Coast districts south of Banks Peninsula.

The chief disturbances were of tropical origin, and well-defined westerly low-pressure areas, which are usually frequent at this season, were notable by their absence. As a result easterly and south-easterly winds were more prevalent than usual, particularly in and southwards of Cook Strait.

Though regarded as the first month of Spring, September this year was of a wintry character, and vegetable growth made very little progress.