

Government Meteorological Observatory.

METEOROLOGICAL Observations, Wellington, for the month of September, 1921. Observations taken 9 a.m.

Altitude of Observatory, 10 ft.

Date.	Barometer reduced and corrected in inches to lat. 49°.	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.	Velos. Wind, in Miles.			
1	30-016	48-9	31-0	39-9	105-0	26-1	221	3	N.E.	3
2	30-156	57-9	44-0	50-9	106-0	39-8	278	5	S.	..
3	30-048	55-0	41-6	48-3	116-0	34-5	187	2	S.S.W.	..
4	30-155	56-4	36-8	46-6	115-0	30-8	137	2	N.N.W.	..
5	30-269	58-7	36-1	47-4	114-0	29-8	107	1	N.	..
6	30-170	56-3	48-0	52-1	118-0	42-1	242	6	N.N.W.	5
7	30-374	59-7	45-3	52-5	118-0	41-7	322	7	S.S.W.	1
8	30-421	53-8	37-0	45-4	114-0	30-0	199	8	N.E.	..
9	30-274	55-3	50-1	52-7	115-0	48-6	321	3	N.N.E.	..
10	30-144	57-9	50-9	54-4	117-0	48-8	335	4	N.N.W.	..
11	30-015	60-2	53-0	56-6	121-0	51-0	373	10	N.N.W.	..
12	30-060	56-7	51-9	54-3	100-0	50-1	380	1	N.N.E.	..
13	30-085	60-5	51-1	55-8	117-0	47-1	264	1	N.	..
14	30-045	64-8	52-9	58-8	119-0	51-8	343	9	N.	2
15	29-978	60-3	52-7	56-5	128-0	53-7	281	10	N.W.	..
16	30-250	61-6	45-4	53-5	120-0	41-5	225	10	N.N.W.	112
17	29-584	54-5	49-7	52-1	70-0	52-0	25	10	Calm	378
18	29-359	53-6	47-2	50-4	66-0	50-0	161	10	S.	26
19	29-607	50-2	46-0	48-1	77-0	48-7	374	9	S.	16
20	29-208	58-7	44-5	51-6	114-0	42-2	187	8	N.N.W.	28
21	29-356	60-0	52-0	56-0	126-0	51-0	361	4	N.N.W.	5
22	29-783	58-6	46-8	52-7	125-0	47-9	333	8	S.	..
23	30-014	58-9	42-1	50-5	123-0	38-8	80	7	N.N.E.	..
24	30-260	59-0	39-3	49-1	115-0	35-7	105	1	N.E.	..
25	30-283	63-8	51-0	57-4	120-0	47-0	270	9	N.	..
26	30-538	62-5	37-8	50-1	123-0	30-8	127	0	N.E.	..
27	30-420	61-6	51-9	56-7	121-0	46-8	288	8	N.N.E.	..
28	30-344	59-5	51-5	55-5	125-0	44-4	266	5	N.	..
29	30-425	68-2	50-4	59-3	132-0	49-3	202	7	S.	..
30	30-253	61-5	41-5	51-5	117-0	31-1	85	10	N.E.	..
31	..	..	..	..	..	..	..	..	..	..
*	30-063	58-5	46-0	52-2	113-2	42-8	236	5-9	..	576
†	29-925	57-4	45-7	51-6	104-5	38-4	244	..	..	408

* Means, &c. † Means previous years.

DIRECTION OF WIND.

N.	N.E.	E.	S.E.	S.	S.W.	W.	N.W.	Calm.
16	5	..	..	7	..	..	1	1

NOTE.—A fine sunny month, with barometric pressure and temperatures above the mean of previous years. Precipitation, the major portion of which was recorded between the 16th and 21st, was 41 per cent. above the mean. Total bright sunshine, 192 hours 11 minutes, 54 per cent. of the possible, and four sunless days. Frost was recorded on the grass on six mornings, and hail fell on the 20th. Mean earth-temperature at 1 ft. was 52-1°, and 52-5° at 3 ft. Mean dew-point, 44-5°; mean elastic force of vapour, 0-294 in.; and mean relative humidity, 75 per cent. of saturation.

CLIMATOLOGICAL TABLE.
MEANS AND TOTALS FROM THE CHIEF STATIONS.
September, 1921.

Altitude above Sea-level.	Name of Station and Observer.	Extremes.			Total Rainfall (100 Points to the Inch).	Days with Rain (4 Point or more).
		Absolute Mean Temp. Air in Shade.	Mean Max. Temp.	Mean Min. Temp.		
Ft.	NORTH ISLAND.	Deg.	Deg.	Deg.	Points.	Dys.
125	AUCKLAND .. F. A. F. Burnett	55-2	60-8	49-6	372	9
131	RUAKURA FARM, HAMILTON EAST W. B. Monro	52-9	63-1	42-7	354	12
46	TE AROHA .. G. F. McGirr	53-8	61-9	45-7	219	19
340	WAIHI .. C. F. Sims	54-1	62-9	45-3	304	11
100	TAURANGA .. C. J. Butcher	53-3	63-5	43-2	181	6
925	ROTORUA .. G. J. O'Brien	51-6	61-2	42-0	310	7
..	NEW PLYMOUTH .. J. Simpson	53-8	59-6	48-1	351	12
250	MOUMAHAKI .. J. G. McFarlane	51-4	60-0	42-8	253	12
2080	TAIHAPÉ .. A. R. Fannin	47-5	54-4	40-7	174	15
100	PALMERSTON NORTH .. J. A. Coiquhoun	51-8	59-5	44-1	247	12
119	CENTRAL DEVELOPMENT FARM, WERAROA J. Beverley	51-7	58-6	44-8	319	11
70	GREENMEADOWS, NA- PIER	54-0	63-2	44-8	81	5
377	MASTERTON .. R. Brown	51-2	62-8	39-7	153	11
186	GREYTOWN .. J. P. Eccleton	51-8	62-9	40-8	305	10
..	TRENTHAM MILITARY HOSPITAL	48-6	54-5	42-7	512	7
10	WELLINGTON ..	52-2	58-5	46-0	576	10
..	SOUTH ISLAND.					
..	BRIGHTWATER .. Ven. Archdeacon Kempthorne	51-6	61-0	42-2	477	8
34	NELSON .. Wm. C. Davies	52-1	61-3	42-9	506	8
1220	HANMER SPRINGS .. W. G. Morrison	47-8	58-4	37-3	393	11
25	CHRISTCHURCH .. H. F. Skey	49-4	57-6	41-2	227	7
42	LINCOLN .. Wm. C. Purdie	50-1	59-9	40-4	178	7
1220	KISSELTON .. A. R. Blackwood	49-4	60-2	38-6	206	7
..	RAKAIÁ .. Miss A. Hardy	50-4	61-3	39-6	440	6
130	TIMARU .. Caretaker of Domain	48-5	57-2	39-9	384	10
200	WAIMATE .. F. Akhurst	48-6	57-2	40-1	331	7
300	DUNEDIN .. D. Tannock	50-1	57-6	42-6	177	14
245	GORE .. A. T. Newman	47-7	57-6	37-8	179	11
12	HOKITIKA .. J. A. Chesney	49-7	56-4	43-1	673	15
12	INVERCARGILL .. L. Lennie	48-7	57-7	39-7	251	12

SUMMARY FOR THE MONTH OF SEPTEMBER, 1921.

The chief meteorological feature in September was the heavy rain on the 17th, 18th, and 19th, which benefited nearly all parts of the Dominion. This rain storm was caused by a cyclone centre passing from the north-westward and traversing Cook Strait early on the morning of the 18th. It was followed by an intense Antarctic depression. The latter ruled until the 23rd, and also accounted for rain in many districts and for severe thunderstorms in the northern portion of the North Island.

Except about the period above mentioned—viz., 16th to 23rd—anticyclonic conditions dominated, and the weather generally proved fair and mild, with a low wind-force.

The total rainfall was above the average in the vicinity of Cook Strait and in South Canterbury and South Westland, but deficiencies occurred elsewhere.

D. C. BATES, Director.