

Government Meteorological Observatory.

METEOROLOGICAL Observations, Wellington, for the month of October, 1927. Observations taken 9 a.m. Altitude of Observatory, 10 ft.

Date.	Pressure in Inches at Sea-level and Standard Gravity.	Temperature in Shade.			Radiation.		Wind: Miles run in previous 24 Hours.	Amount of Cloud (Scale 0 to 10).	Direction of Wind.	Rainfall, in Points (100 points to 1 in.).
		Maximum.	Minimum.	Mean.	Solar Maximum.	Grass Minimum.				
1	30.463	62.0	38.0	50.0	117.0	28.1	48	1	N.E.	..
2	30.196	62.6	49.7	56.1	116.0	45.2	189	7	N.N.E.	..
3	30.064	64.6	49.2	56.9	118.0	43.7	157	1	N.E.	..
4	29.906	61.6	52.4	57.0	114.7	49.7	251	1	N.	Trace
5	29.840	63.2	43.4	53.3	124.0	34.4	152	5	N.W.	..
6	29.719	61.0	51.4	56.2	128.0	47.2	274	3	N.N.W.	..
7	29.858	65.6	43.2	54.4	118.1	31.3	184	0	N.N.W.	..
8	29.613	61.2	52.1	56.6	121.5	48.1	322	4	N.W.	..
9	29.701	65.0	52.6	58.8	123.0	43.7	241	0	N.	..
10	29.924	67.3	49.2	58.2	122.0	39.1	186	8	N.N.W.	..
11	29.933	61.1	52.2	56.6	120.9	48.0	405	3	N.W.	6
12	30.166	61.1	47.2	54.1	121.0	46.3	365	10	S.	..
13	30.157	60.2	52.2	56.2	115.0	52.1	250	5	N.W.	..
14	30.093	62.9	55.0	58.9	125.1	52.9	337	10	N.N.W.	16
15	29.891	63.2	55.0	59.1	118.2	53.3	202	4	N.W.	..
16	29.915	59.7	46.4	53.0	129.8	36.4	307	10	Calm	..
17	29.887	61.6	52.1	56.8	127.1	47.0	239	9	N.W.	1
18	29.702	66.1	54.0	60.0	122.5	51.1	334	2	N.W.	..
19	30.072	71.4	43.8	57.6	133.1	33.1	138	3	N.N.W.	..
20	30.024	63.1	55.2	59.1	129.1	54.4	439	10	N.W.	..
21	29.960	61.9	56.8	59.3	101.0	56.1	579	10	N.W.	..
22	29.772	64.9	56.8	60.8	130.0	55.9	424	8	N.W.	17
23	29.530	62.9	53.6	58.2	127.0	51.1	405	7	N.W.	67
24	29.714	62.6	40.9	51.7	125.9	40.1	374	9	S.	66
25	30.142	51.2	38.9	45.0	120.1	37.8	374	10	S.S.E.	5
26	30.491	52.2	44.4	48.3	112.1	43.0	353	10	S.S.E.	..
27	30.524	56.9	45.7	51.3	125.0	37.1	150	5	N.N.E.	..
28	30.272	64.0	48.1	56.0	127.2	39.8	169	8	N.W.	..
29	30.060	60.4	53.8	57.1	124.0	51.7	409	5	N.W.	..
30	30.112	65.8	51.7	58.7	121.3	44.6	221	8	N.N.W.	..
31	29.898	61.0	51.3	56.1	124.0	47.2	380	10	N.W.	14
*	29.987	62.2	49.6	55.9	122.0	44.8	286	6	0	192
†	29.895	60.3	48.3	54.3	114.8	42.1	285	5	4	419

* Means, &c. † Means previous years.

DIRECTION OF WIND.

N.	N.E.	E.	S.E.	S.	S.W.	W.	N.W.	Calm
10	2	..	..	4	..	..	14	1

NOTE.—A dry and sunny month, with moderate to strong N. and N.W. winds prevailing. Precipitation was 54 per cent. below the mean of previous years. Total bright sunshine, 208 hours 51 minutes, 51 per cent. of the possible. There was one sunless day. Hail fell on the 24th and frost was recorded on the grass on two mornings. Mean earth temperature at 1 ft. was 56.6°, and at 3 ft. 56°. Mean dew-point, 45.9°; mean vapour pressure, 0.309 in.; and mean relative humidity, 70 per cent.

SUMMARY FOR THE MONTH OF OCTOBER, 1927.

During October rainfall was, as a rule, poorly distributed in time and place, and the 14th and 23rd were the only days on which it was at all of a general character. The total for the month was considerably below normal over the whole of the North Island, and in the Marlborough and Nelson Provinces in the South Island. Canterbury and Otago had a moderate excess, while in Westland the differences from normal were slight.

The pressure distribution was chiefly of the westerly type, and the disturbances of slight to moderate intensity. The changes were generally too rapid to allow of rain developing to any extent. On the 23rd, however, a very intense cyclone developed east of the South Island, and on the 24th the Chatham Island barometer fell to 29.07 inches. From the 23rd to 25th strong southerly winds to gales were experienced, and very cold temperatures prevailed in the rear of this cyclone. Light falls of snow occurred on the 23rd and 24th in various parts of the South Island and also in the high central area of the North Island. Ground frosts were reported on the mornings of the 25th and 26th, more especially in Canterbury and Otago, but the damage to fruit-trees was, fortunately, only slight.

There was a tendency for anticyclones to move in more northern latitudes, but one, which controlled the weather between the 25th and the 29th, was centred over New Zealand on the 27th, with pressure as high as 30.50 inches.

On the whole, fair to fine weather predominated, with moderate to strong north-westerly winds. The cold spell from 23rd to 25th was, however, severe, especially in Canterbury

and Otago, and some losses of lambs occurred. Though dry, the month was a good spring month. It was particularly favourable for sheep, but less so, owing to the dryness, for the dairy industry.

CLIMATOLOGICAL TABLE.
MEANS AND TOTALS FROM CHIEF STATIONS.
October, 1927.

Altitude above Sea-level.	Name of Station and Observer.	Mean Temp. Air in Shade.	Extremes.		Total Rainfall (100 Points to the Inch).	Days with Rain (4 or more).
			Mean Max. Temp.	Mean Min. Temp.		
		Deg.	Deg.	Deg.	Points.	
	NORTH ISLAND.					
152	AUCKLAND ..	56.3	61.9	50.7	266	12
131	RUAKURA FARM, HAMILTON EAST ..	55.8	67.4	44.3	202	12
211	A. Y. Montgomery MATAMATA ..	54.5	65.2	43.8	210	6
46	W. Halligan TE AROHA ..	58.5	67.0	50.0	157	4
340	C. E. Christensen WAIHI ..	56.3	65.7	46.9	214	10
100	Wm. C. Morris TAURANGA ..	56.6	66.7	46.6	207	8
925	C. J. Butcher ROTORUA ..	54.3	64.5	44.2	194	6
..	W. E. Penno ROTORUA NURSERY, WHAKAREWAREWA ..	53.8	65.3	42.3	232	6
60	W. T. Morrison NEW PLYMOUTH ..	54.4	60.8	48.0	296	11
2125	G. H. Dolby KARIOI ..	48.2	60.3	36.1	361	11
2080	N. J. Dolamore TAIHAPE ..	48.9	56.6	41.3	249	7
100	A. R. Fanning PALMERSTON NORTH ..	53.4	60.5	46.3	237	13
8	J. A. Colquhoun TANGIMOANA ..	54.7	61.8	47.6	203	11
119	T. E. Stringer CENTRAL DEVELOPMENT FARM, WERAROA ..	53.9	60.3	47.6	218	10
5	J. E. Sharp NAPIER ..	57.3	65.8	48.9	47	5
384	Chas. L. Thomas MANGAMUTU, PAHIATUA ..	53.0	60.7	45.4	495	19
377	A. W. Hamilton MASTERTON ..	54.0	65.0	43.0	259	8
186	R. Brown GREYTOWN ..	54.5	64.7	44.3	344	8
10	W. Allan WELLINGTON ..	55.9	62.2	49.6	192	8
	SOUTH ISLAND.					
11	TAKAKA, NELSON ..	..	..	..	..	..
34	J. H. Scott NELSON ..	53.0	62.0	44.0	107	6
..	O. B. Pemberton BALMORAL, CULVERDEN ..	52.0	64.8	39.3	222	9
1220	D. D. Dunn HANMER SPRINGS ..	51.8	62.2	41.5	336	10
25	W. Montgomery CHRISTCHURCH ..	53.2	62.5	43.8	275	9
42	H. F. Skey LINCOLN ..	52.8	62.6	43.1	197	10
1220	D. J. Sidey LAKE COLERIDGE ..	59.5	75.7	43.3	463	11
323	E. T. Cockburn ASHBURTON ..	52.1	61.9	42.3	317	13
1000	H. P. Clayton FAIRLIE ..	50.4	60.8	40.0	279	7
2350	R. J. Rainey LAKE TEKAPO ..	48.0	58.3	37.6	123	5
130	R. R. Beauchamp TIMARU ..	52.4	61.6	43.3	235	11
200	Caretaker of Domain WAIMATE ..	51.9	60.9	42.9	294	13
1550	F. Akhurst SANATORIUM, WAIPIATA ..	48.6	58.4	38.9	140	14
1000	Dr. A. Kidd OPHIR ..	51.0	61.6	40.5	104	8
300	Rev. A. Don DUNEDIN ..	50.7	58.8	42.6	501	19
142	D. Tannock BURNSIDE, DUNEDIN ..	52.3	59.7	45.0	403	17
245	P. W. Piper GORE ..	49.9	59.4	40.4	392	20
12	A. T. Newman HOKITIKA ..	51.2	57.4	45.0	1,264	23
12	J. A. Chesney INVERCARGILL ..	..	..	..	..	..
	L. Lennie	..	..	..	..	..

EDWARD KIDSON, Director.