

The finest spell of weather during the month followed the westerly weather, and persisted till the 15th. During this period a severe tropical cyclone developed in the Fiji group and moved slowly away. On the night of the 11th and the morning of the 12th, a heavy fog in Cook Strait caused delays to shipping.

On the 17th the second cyclone crossed Southern Otago, and again northerly gales and almost general rain accompanied its passage. Thunderstorms were a marked feature of this cyclone during the whole time that it was moving over the Tasman Sea and New Zealand. The accompanying "atmospherics" were particularly frequent and violent, and wireless communication with shipping was at times greatly interfered with. On the 16th a cloud-burst at Norris Mill, six miles from Westport, raised a flood in the Waimea Creek, and several bridges were damaged. Another cloud-burst was reported from Pukemiro, in the Thames Valley, on the 18th.

A third cyclone traversed the Dominion on the 22nd, the centre this time crossing South Canterbury. Precipitation was again general, and the southerly winds in the rear of the depression brought particularly heavy rain to the eastern districts of the South Island. Had the cyclone not moved away so quickly severe flooding would have been inevitable. As it was, the Leith Stream again threatened to inundate Dunedin, and parts of Christchurch were under water. At Kaikoura the phenomenal fall of 3 in. in sixty-five minutes was registered. Thunder and hail storms were very violent and widespread in connection with this storm, especially on the 22nd. Wireless operators again experienced trouble from "atmospherics."

The last of the month's cyclones moved over Southern Otago on the 29th. Boisterous weather and almost general rain accompanied its passage. At Wellington over seventy miles per hour was registered in a northerly gale on the 29th.

Each of the cyclonic storms described was responsible for falls of snow on the ranges in the South Island, and a number of frosts occurred.

EDWARD KIDSON, Director.

CLIMATOLOGICAL TABLE.

MEANS AND TOTALS FROM CHIEF STATIONS.

December, 1929.

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 (½ Point or more).	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 (½ Point or more).
			Mean Max. Temp.	Mean Min. Temp.						Mean Max. Temp.	Mean Min. Temp.		
Ft.	NORTH ISLAND.	Deg.	Deg.	Deg.	Points.		Ft.	NORTH ISLAND— <i>ctd.</i>	Deg.	Deg.	Deg.	Points.	
225	WAIPOUA, DONNELLY'S CROSSING D. Grant	59.8	68.8	50.9	359	21	186	GREYTOWN W. Allan	59.8	69.4	50.2	534	15
65	RIVERHEAD W. J. McKibbin	61.0	68.1	54.0	367	19	415	WELLINGTON	57.1	62.7	51.5	267	16
152	AUCKLAND H. M. Vincent	64.4	70.6	58.2	393	20		SOUTH ISLAND.					
340	WAIHI F. Haszard	61.5	69.9	53.2	436	18	34	NELSON O. B. Pemberton	58.8	66.5	51.2	399	17
46	TE AROHA C. E. Christensen	64.0	72.7	55.2	473	17	..	GOLDEN DOWNS, NELSON Forest Ranger	56.2	64.5	47.8	860	16
100	TAURANGA Miss K. Butcher	60.6	71.5	49.6	390	18	1220	HANMER SPRINGS .. H. Roche	56.1	65.7	46.5	454	18
131	R U A K U R A F A R M, HAMILTON EAST P. S. Syme	60.4	69.6	51.3	425	21	743	BALMORAL, CULVERDEN W. Staveley	57.4	68.2	46.6	319	12
211	MATAMATA W. Halligan	60.8	71.2	50.5	440	19	12	HOKITIKA J. A. Chesney	56.6	62.5	50.7	1975	25
..	CAMBRIDGE H. Sturgeon	62.5	70.0	55.0	400	18	1220	LAKE COLERIDGE .. H. E. M. Hart	55.6	65.7	45.4	570	19
925	ROTORUA G. R. Ewing	60.2	68.5	52.0	560	13	1200	"RUDSTONE," METHVEN James Carr	55.0	64.2	45.9	665	18
1000	ROTORUA NURSERY, WHA- KAREWAREWA W. T. Morrison	61.9	73.5	50.3	650	18	25	CHRISTCHURCH H. F. Skey	58.5	67.1	49.8	340	19
60	NEW PLYMOUTH G. H. Dolby	59.3	64.9	53.7	687	21	42	LINGOLN D. J. Sidey	59.0	68.3	49.8	392	15
3670	CHATEAU, TONGARIRO NATIONAL PARK A. T. Salmon	*	*	*	1529	25	2510	THE HERMITAGE, MOUNT COOK G. G. Woolley	54.3	71.2	37.5	1702	17
2125	KARIOI S. Trask	50.0	60.2	39.8	777	18	323	ASHBURTON H. P. Clayton	57.3	66.2	48.5	364	18
5	NAPIER R. Thomas	63.4	70.9	55.9	109	9	2350	LAKE TEKAPO Miss D. C. Trott	*	*	*	328	14
45	HASTINGS H. N. Fowler	61.3	72.3	50.3	136	9	1000	FAIRLIE J. Fraser	55.0	66.2	44.9	559	19
2080	TAIHAPE A. R. Fannin	54.8	62.1	47.4	440	20	56	TIMARU Caretaker of Domain	57.3	65.5	49.1	244	21
8	TANGIMOANA E. Belworthy	59.8	67.6	52.0	475	17	200	WAIMATE F. Akhurst	55.8	64.6	47.0	283	25
100	PALMERSTON NORTH .. J. A. Colquhoun	59.6	67.2	52.0	557	19	1110	QUEENSTOWN H. O. Barker	54.0	62.3	45.8	421	16
..	MASSEY AGR. COL., PAL- MERSTON NORTH L. Whelan	59.6	66.3	52.9	533	23	1000	OPHIR Rev. A. Don	55.8	66.1	45.5	208	12
384	MANGAMUTU, PAHIA- TUA A. W. Hamilton	58.3	66.6	50.0	900	21	1550	SANATORIUM, WAIPIATA Dr. A. Kidd	52.7	62.6	42.8	244	20
119	LEVIN H. A. Donaldson	59.5	70.6	48.5	542	18	520	ALEXANDRA Geo. Smith	56.8	66.3	47.4	201	14
44	KAPITI ISLAND A. S. Wilkinson	55.2	64.5	46.0	466	20	..	MANORBURN DAM .. J. C. Buchanan	48.3	57.3	39.4	256	17
377	MASTERTON Miss R. Robinson	59.6	69.6	49.5	371	16	300	DUNEDIN D. Tannock	53.3	59.8	46.8	594	23
							245	GORE A. T. Newman
							12	INVERCARGILL L. Lennie	53.6	60.0	47.3	525	23

* Unreliable.