

period, and there were considerable snowfalls on the high levels. Thunderstorms were recorded at many places. A combination of rain and snow in a thunderstorm and a north-westerly gale was responsible for the loss of five lives in the Tasman Glacier on the 19th. At Auckland on the 21st a torrential downpour caused flooding in some of the city streets. The steamship "Awarua" was struck by a thunderbolt while at Half-moon Bay, Stewart Island, on the 20th.

During the remainder of the month the storm systems were mainly of cyclonic form. On the 8th a shallow cyclone developed in the Bay of Plenty and deepened rapidly through the night. At the same time, a rather intense anticyclone crossed the southern portion of the South Island. The result was that strong southerly or south-easterly winds suddenly set in and rose to gale force in places, especially in Cook Strait. Temperatures fell sharply, bringing on an unusually cold spell for the season of the year. Rain was almost general, with many heavy falls between the 8th and the 11th—especially on the 8th and 9th—eastern districts receiving the highest totals. On the night of the 8th snow fell on the mountain tops of the South Island, and hail was recorded at places.

Another cyclone approached New Zealand on the 14th and passed through Cook Strait on the 15th. Except in the far North and south-west, there was again general and heavy rain. Falls were particularly heavy in Canterbury, where there was much flooding. In the Ashburton county the floods were the heaviest known.

Almost general rains with many heavy falls, especially in the South Island, were again experienced on the 27th and 28th, when a cyclone moved across Canterbury.

Thunderstorms were rather numerous during the month.

EDWARD KIDSON, Director.

CLIMATOLOGICAL TABLE.
MEANS AND TOTALS FROM CHIEF STATIONS.
January, 1930.

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.		
NORTH ISLAND.													
Ft.		Deg.	Deg.	Deg.	Points.		Ft.		Deg.	Deg.	Deg.	Points.	
225	WAIPOUA, DONNELLY'S CROSSING D. Grant	60.8	70.3	51.2	587	16	186	NORTH ISLAND— <i>ctd.</i> GREYTOWN ... W. Allan	60.4	71.7	50.2	689	18
65	RIVERHEAD .. W. J. McKibbin	61.3	69.6	53.0	754	15	415	WELLINGTON	59.2	64.4	54.1	544	19
152	AUCKLAND .. H. M. Vincent	66.6	73.0	60.2	840	14	SOUTH ISLAND.						
340	WAIHI .. F. Haszard	62.7	71.2	54.2	634	14	34	NELSON .. O. B. Pemberton	60.2	68.9	51.5	576	14
46	TE AROHA .. C. E. Christensen	64.2	75.2	53.2	803	14	..	GOLDEN DOWNS, NELSON Forest Ranger	57.9	67.6	48.2	664	19
100	TAURANGA .. Miss K. Butcher	60.2	72.4	47.9	552	12	1220	HANMER SPRINGS .. H. Roche	56.2	66.8	45.5	707	19
131	R U A K U R A F A R M, HAMILTON EAST P. S. Syme	61.2	72.2	50.1	584	16	743	BALMORAL, CULVERDEN W. Staveley	58.6	69.5	47.8	565	20
..	CAMBRIDGE .. H. Sturgeon	61.8	72.3	51.4	595	15	12	HOKITIKA .. J. A. Chesney	57.2	63.5	50.8	699	17
925	ROTORUA .. G. R. Ewing	60.9	70.0	51.8	991	15	1220	LAKE COLERIDGE .. H. E. M. Hart	57.4	67.8	47.0	680	14
1000	ROTORUA NURSERY, WHAKAREWAREWA W. T. Morrison	61.4	72.7	50.2	1185	18	1200	"RUDSTONE," METHVEN James Carr	55.2	64.4	46.1	895	17
60	NEW PLYMOUTH .. G. H. Dolby	60.5	67.2	53.8	513	20	25	CHRISTCHURCH .. H. F. Skey	58.6	66.4	50.7	508	16
3670	CHATEAU, TONGARIRO, NATIONAL PARK A. T. Salmon	49.8	58.2	41.5	1875	24	42	LINCOLN .. D. J. Sidey	58.8	67.3	50.4	513	16
2125	KARIOI .. S. Trask	54.1	67.7	40.5	416	16	2510	THE HERMITAGE, MOUNT COOK G. G. Woolley	55.6	71.1	40.0	1075	12
5	NAPLIER .. R. Thomas	63.2	72.7	53.7	494	11	323	ASHBURTON .. H. P. Clayton	57.8	66.7	49.0	537	17
45	HASTINGS .. H. N. Fowler	63.0	74.3	51.8	393	12	2350	LAKE TEKAPO .. Miss D. C. Trott	*	*	*	311	8
2080	TAIHAPE .. A. R. Fannin	57.4	66.2	48.5	404	21	1000	FAIRLIE .. J. Fraser	56.8	68.0	45.7	648	15
8	TANGIMOANA .. E. Belworthy	61.0	69.0	52.9	342	14	56	TIMARU .. Caretaker of Domain	59.0	67.0	50.9	638	19
100	PALMERSTON NORTH .. J. A. Colquhoun	60.9	68.6	53.2	366	19	200	WAIMATE .. F. Akhurst	58.2	67.2	49.1	345	19
..	MASSEY AGRI. COL., PALMERSTON NORTH L. Whelan	60.6	68.1	53.1	551	20	1110	QUEENSTOWN .. H. O. Barker	56.6	66.0	47.2	368	14
384	M A N G A M U T U, PAHIATUA A. W. Hamilton	63.0	69.4	51.2	698	20	1000	OPHIR .. Rev. A. Don	57.5	69.6	45.5	185	13
44	KAPITI ISLAND .. A. S. Wilkinson	56.8	66.7	47.0	291	16	1550	SANATORIUM, WAIPIATA .. Dr. A. Kidd	55.8	67.2	44.4	248	12
377	MASTERTON .. Miss R. Robinson	60.9	71.5	50.3	632	18	520	ALEXANDRA .. Geo. Smith	59.0	69.6	48.4	325	13
							..	MANORBURN DAM J. C. Buchanan	50.5	60.8	40.2	202	15
							300	DUNEDIN .. D. Tannock	56.0	64.2	47.9	425	19
							245	GORE .. A. T. Newman
							12	INVERCARGILL .. L. Lennie	56.4	64.7	48.2	391	20

* No records.