

The third depression, however, which dominated the weather between the 15th and 18th, was much more vigorous. It produced practically general rains with many heavy falls, and marked the end of the drought. In Westland the rain was very heavy and some flooding occurred. There were several washouts on roads and railways.

The next storm was experienced between the 21st and 24th. It became very deep after crossing New Zealand, and was followed by strong southerlies which were responsible for a cold Christmas, conditions in the South Island being almost wintry. Rain was widespread and hailstorms did some damage, especially in the South Island. Heavy snowfalls occurred on the mountains. Banks Peninsula received a white coating, and even in Christchurch there were some snow showers.

The fifth and last storm raged from the 27th to the 30th. It, again, became very deep after passing to the eastward, and the southerlies which resulted far surpassed those of its predecessor in severity. The gale commenced in the south on the 28th and did not die out over the North Island until the night of the 30th. In many places it rose to a whole gale, being one of the worst southerlies experienced for many years. Once more there were heavy snowfalls down to low levels on the mountains and numerous hailstorms. Heavy rain fell at many places. Much damage was done to fruit and crops and vegetation generally by the cold, the hailstones, and the persistent gales.

Thunderstorms accompanied each of the last three storms, but were most violent and widespread on the 24th and 28th.

On the 4th December a small tornado, arising as a waterspout over the sea, struck a portion of New Plymouth and partially wrecked one or two buildings. Two other waterspouts were seen near Patea on the 28th.

EDWARD KIDSON, Director.

CLIMATOLOGICAL TABLE.
MEANS AND TOTALS FROM CHIEF STATIONS.
December, 1933.

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.	SOUTH ISLAND.	Deg.	Deg.	Deg.	Points.	
200	TE PAKI, TE HAPUA .. R. J. Harrison	63-0	70-6	55-3	136	10	24	NELSON .. O. B. Pemberton	62-0	71-3	52-8	242	6
225	WAIPOUA, DONNELLY'S CROSSING A. McKinnon, B.Sc.	62-1	70-7	53-5	163	10	57	APPLEBY, NELSON .. W. J. Biggar	61-3	70-0	52-6	188	6
110	RIVERHEAD .. J. Johnson	60-0	72-1	47-7	66	4	60	BLENHEIM .. P. J. Galliers	64-6	76-7	52-4	92	7
160	AUCKLAND .. S. M. Yallop	64-6	71-2	57-9	215	7	860	WAIHOPAI, BLENHEIM .. J. Stanwell	62-8	74-0	51-5	186	9
404	WAIHI .. M. F. Haszard	62-4	72-0	52-8	195	5	800	GOLDEN DOWNS, NELSON Forest Ranger	58-6	71-7	45-6	266	5
46	TE AROHA .. C. E. Christensen	65-0	75-7	54-4	253	8	1225	HANMER SPRINGS .. H. Roche	59-2	71-6	46-7	412	11
100	TAURANGA .. Miss K. Butcher	62-0	72-0	52-1	174	7	743	BALMORAL, CULVERDEN .. J. E. Fletcher	61-4	72-4	50-5	312	9
131	R U A K U R A F A R M, HAMILTON EAST G. K. McPherson	62-0	73-8	50-1	232	9	12	HOKITIKA .. J. A. Chesney	59-3	66-2	52-4	1108	15
230	CAMBRIDGE .. H. McArthur	..	..	..	..	..	1220	LAKE COLERIDGE .. H. E. M. Hart	59-8	69-8	49-9	450	13
925	ROTORUA .. W. E. Penno	62-0	72-1	52-0	130	8	1200	"RUDSTONE," METHVEN James Carr	58-7	67-9	49-5	550	13
1000	ROTORUA NURSERY, WHA-KAREWAREWA W. T. Morrison	61-2	73-4	49-1	164	8	22	CHRISTCHURCH .. H. F. Skey	60-2	69-0	51-4	296	12
60	NEW PLYMOUTH .. G. H. Dolby	61-8	69-2	54-2	412	11	36	LINCOLN .. E. W. Hullett	60-6	70-7	50-4	309	10
3670	CHATEAU TONGARIRO, NATIONAL PARK W. J. Stevens	50-6	60-6	40-5	800	13	2510	THE HERMITAGE, MOUNT COOK C. Elms	56-0	66-4	45-6	15-23	13
2125	KARIOI .. L. H. Bailey	54-6	66-4	42-7	299	13	323	ASHBURTON .. H. P. Clayton	60-4	70-4	50-4	332	10
5	NAPIER .. T. R. Hutton	63-0	70-0	56-1	343	7	2350	LAKE TEKAPO .. Miss D. C. Trott	58-5	68-2	48-8	311	7
45	HASTINGS .. H. N. Fowler	61-8	73-9	49-7	180	7	1000	FAIRLIE .. C. Searle	..	..	..	..	..
2157	TAIHAPE .. A. R. Fannin	57-4	66-5	48-4	295	9	56	TIMARU .. A. W. Anderson	60-0	69-0	51-0	331	10
8	TANGIMOANA .. G. W. Braddell	61-2	69-5	52-8	239	9	200	WAIMATE .. F. Akhurst	58-6	68-6	48-7	374	9
100	PALMERSTON NORTH .. E. J. Werry	62-0	71-1	52-9	270	12	1110	QUEENSTOWN .. F. W. Bailey	60-2	71-7	48-8	337	10
110	MASSEY AGR. COL., PALMERSTON NORTH Meteorological Observer	61-5	70-3	52-7	278	11	1000	OPHIR .. Rev. A. Don	60-8	74-0	47-5	189	9
384	PAHIATUA .. A. W. Hamilton	60-4	69-8	51-1	344	12	1550	SANATORIUM, WAIPIATA .. Dr. A. Kidd	59-0	71-1	46-8	158	13
44	KAITI ISLAND .. A. S. Wilkinson	61-6	67-8	55-4	172	9	520	ALEXANDRA .. Geo. Smith	62-0	73-0	51-1	95	7
387	MASTERTON .. Miss R. Robinson	62-2	74-8	49-5	111	10	2448	MANORBURN DAM S. Wragge	54-5	65-7	43-3	207	11
415	WELLINGTON ..	60-0	66-3	53-6	89	9	240	DUNEDIN .. D. Tannock	57-8	67-0	48-5	186	17
							245	GORE .. A. T. Newman	..	..	..	..	..
							12	INVERCARGILL .. L. Lennie	57-4	66-3	48-5	330	16