

of the 1st and 2nd that the only typical strong north-westerly winds occurred, while the southerly winds following it on the 3rd brought the last touch of real winter weather, snow falling on the high levels and hail on parts of the east coast. In north-westerly gales on the 2nd some damage was done on the Canterbury Plains, and severe dust storms were experienced.

Another series of westerly depressions passed between the 5th and the 8th, but they were shallow and the winds accompanying them were not strong. Nevertheless, they brought the heaviest rains experienced during the month to the west coast of the South Island.

On the 9th a very intense anticyclone advanced across the South Tasman Sea. The centre, as it passed on the 10th, was just to the south of New Zealand, and barometers at several places read over 30.7 inches. At this time of year one expects the anticyclones to pass well to the north. The consequence of this departure from normal conditions was that the prevailing pressure gradient was reversed, there being a fall towards the north instead of a rise. In place of the usual westerlies or north-westerlies, winds between south and east were experienced. These conditions prevailed with only few and short breaks until the end of the month. There is no record of a similar spell of weather in past years. During the period a number of cyclones formed off the central east coast of Australia. There was much stormy weather on the New South Wales coast, and vessels crossing the Tasman Sea reported strong easterly winds of unprecedented persistence. In many cases, delays were occasioned. By the time the cyclones reached New Zealand, most of their energy was expended. The principal ones passed on the nights of the 15th and 19th respectively, and on the afternoon of the 27th. The last mentioned was the deepest and its centre crossed the Auckland Peninsula, while the others followed more northerly tracks. Each of them caused widespread rain. That of the 15th was responsible for the only really good rain experienced in the eastern portion of the South Island, Canterbury, particularly, having moderate to heavy rains. In connection with the last one, heavy thunderstorms occurred in parts of the Auckland Peninsula. There were some particularly sudden downpours, and Ruatangata experienced a hailstorm in which some of the stones reached an inch in length. This depression caused very persistent and, in places, heavy rain in Hawke's Bay, and resulted in some flooding of the low-lying areas near Napier.

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CLIMATOLOGICAL TABLE.
MEANS AND TOTALS FROM CHIEF STATIONS,
September, 1932.

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 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 (4 Point or more).
			Mean Max. Temp.	Mean Min. Temp.	Deg.						Deg.	Deg.	Deg.		
	NORTH ISLAND.	Deg.	Deg.	Deg.	Points			SOUTH ISLAND.	Deg.	Deg.	Deg.	Points.			
200	TE PAKI, TE HAPUA .. B. H. Morrison	54.7	62.1	47.3	185	5	34	NELSON .. O. B. Pemberton	51.1	59.2	43.0	116	6		
225	WAIPOUA, DONNELLY'S CROSSING A. C. Forbes	52.9	62.0	43.8	238	14	57	APPLEBY, NELSON .. W. J. Biggar	49.9	58.2	41.6	88	5		
65	RIVERHEAD .. W. J. McKibbin	51.7	60.6	42.9	305	15	..	BLENHEIM .. P. J. Galliers	49.9	58.1	41.7	50	3		
160	AUCKLAND .. S. M. Yallop	54.7	60.9	48.6	239	15	860	WAIHOPAI, BLENHEIM .. J. Stanwell	48.0	56.5	39.6	107	5		
340	WAIHI .. M. F. Haszard	50.9	59.3	42.4	1051	12	800	GOLDEN DOWNS, NELSON Forest Ranger	46.8	57.9	35.7	140	7		
46	TE AROHA .. C. E. Christensen	53.7	63.6	43.8	376	12	1220	HANMER SPRINGS .. H. Roche	45.2	54.7	35.6	267	9		
100	TAURANGA .. Miss K. Butcher	51.6	60.7	42.5	293	11	743	BALMORAL, CULVERDEN .. J. E. Fletcher	46.1	55.3	37.0	87	6		
131	RUAKURA FARM, HAMILTON EAST G. K. McPherson	51.7	63.4	39.9	120	10	12	HOKITIKA .. J. A. Chesney	50.2	58.4	42.0	661	13		
230	CAMBRIDGE .. H. McArthur	52.2	62.9	41.4	119	11	1220	LAKE COLERIDGE .. H. E. M. Hart	47.0	56.8	37.1	106	6		
925	ROTORUA .. W. E. Penno	50.6	59.5	41.8	215	9	1200	"RUDSTONE," METHVEN James Carr	46.3	53.7	38.9	174	10		
1000	ROTORUA NURSERY, WHAKAREWAREWA W. T. Morrison	49.8	60.5	39.1	202	10	25	CHRISTCHURCH .. H. F. Skey	47.8	54.1	41.4	104	12		
617	ONGARUE .. D. J. Gardiner	49.7	62.0	37.4	184	12	42	LINCOLN .. E. W. Hullett	47.7	55.1	40.3	97	8		
60	NEW PLYMOUTH .. G. H. Dolby	53.9	61.0	46.8	198	14	2510	THE HERMITAGE, MOUNT COOK C. Elms	44.6	54.3	34.8	492	5		
3670	CHATEAU TONGARIRO, NATIONAL PARK L. H. Young	40.7	48.6	32.8	347	11	323	ASHBURTON .. H. P. Clayton	46.5	55.3	37.7	106	9		
2125	KARIOI .. L. H. Bailey	44.4	56.1	22.6	103	8	1000	FAIRLIE .. C. Searle	46.8	57.8	35.9	222	9		
5	NAPIER .. T. R. Hutton	49.2	56.4	41.9	370	15	56	TIMARU .. A. W. Anderson	46.0	53.2	38.8	95	4		
45	HASTINGS .. H. N. Fowler	49.2	58.0	40.4	434	14	200	WAIMATE .. F. Akhurst	45.8	54.3	37.2	81	6		
2080	TAIHAPE .. A. R. Fannin	46.1	53.6	38.6	110	9	1110	QUEENSTOWN .. F. W. Bailey	46.0	55.7	36.3	144	4		
8	TANGIMOANA .. G. W. Braddell	50.2	58.9	41.5	122	10	1000	OPHIR .. Rev. A. Don	45.1	57.9	32.3	69	5		
100	PALMERSTON NORTH .. E. J. Werry	51.6	59.1	44.1	130	11	1550	SANATORIUM, WAIPIATA Dr. A. Kidd	45.1	56.6	33.5	69	6		
..	MASSEY AGRIC. COL., PALMERSTON NORTH Meteorological Observer	50.3	56.8	43.8	118	11	520	ALEXANDRA .. Geo. Smith	46.7	58.6	34.9	44	2		
384	MANGAMUTU, PAHIATUA .. A. W. Hamilton	..	..	..	..	..	2448	MANORBURN DAM S. Wragge	40.5	50.5	30.5	88	8	
44	KAPITI ISLAND .. A. S. Wilkinson	51.4	57.0	45.8	127	7	240	DUNEDIN .. D. Tannock	46.5	54.8	38.1	118	9		
377	MASTERTON .. Miss R. Robinson	48.6	56.5	40.7	141	15	245	GOBE .. A. T. Newman	..	..	..	..	..
415	WELLINGTON ..	48.7	53.5	43.9	105	15	12	INVERCARGILL .. L. Lennie	46.0	55.3	36.7	102	11		