

As the anti-cyclone continued eastward another series of westerly depressions appeared on the 21st accompanied by showers. By the 23rd the situation had deteriorated, with heavy rain and widespread electrical storms west of the ranges. The south-westerly winds became stronger, showers were general, and heavy hail and snow fell in Otago and Southland and in scattered regions up to Hawke's Bay.

Once more with a steep southerly gradient between the high pressure to the west and the low to the east, a very severe snow-storm raged during the 25th and 26th in the South Island, but Nelson and Westland escaped, and it continued up the North Island where snow fell in Auckland City early on the 27th. On that day the thaw set in down south, but fresh secondaries arrived, followed by south-westerly gales, which were particularly squally in Banks Peninsula. On the 28th the anti-cyclone extended on to the Dominion but the gales continued, the wind becoming more westerly in the north. However, a further fall of pressure to the east brought more southerly winds with additional snowfalls in Otago and Banks Peninsula. The cold checked the thaw in Southland and staved off serious flooding.

At the close of the month the anti-cyclone was over Southland, but south-easterly gales, accompanied by snow, raged between Marlborough and East Cape and about Taranaki. Snow occasionally fell farther north, even up to Cape Maria van Diemen.

Wellington, N.Z., 4th August, 1939.

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CLIMATOLOGICAL TABLE.

SUMMARY OF THE RECORDS OF TEMPERATURE, RAINFALL, AND SUNSHINE FOR JULY, 1939.

Station.	Height of Station above M.S.L.	Air Temperatures in Degrees (Fahrenheit).						Rainfall in Inches.				Bright Sunshine (Hours).			
		Means of		Mean of A and B.	Difference from Normal.	Absolute Maximum and Minimum.				Total Fall	No. of Wet Days.		Difference from Normal.	Most in a Day.	
		A Max.	B Min.			Maximum.	Date.	Minimum.	Date.					Amount.	Date.
	Ft.	°F.	°F.	°F.	°F.	°F.		°F.		In.	In.	In.			
Te Pahi, Te Hapua ..	200	57.7	44.9	51.3	(-1.1)	61.0	1, 12	30.0	20	6.77	28	..	1.96	12	172.9
"Ramote," Kerikeri ..	400	56.6	41.0	48.8	..	63.0	1, 13	34.3	21	6.70	21	..	1.85	12	177.8
Waipoua State Forest ..	225	56.2	40.9	48.6	(-1.2)	62.0	2	31.0	20	11.86	30	..	1.39	2	115.6
Riverhead ..	105	55.1	37.7	46.4	(-2.1)	60.0	2	24.0	11	11.21	30	..	1.50	12	..
Auckland ..	160	54.9	43.8	49.4	-2.1	59.2	17	35.0	27	8.44	26	+2.86	1.57	12	149.8
Waihi ..	404	52.4	36.6	44.5	-2.9	57.5	2	27.0	10, 11	10.58	20	+0.83	2.45	12	123.2
Wharekawa Nursery, Whangamata	50	55.6	38.7	47.2	..	61.0	13	28.8	10, 21	5.94	19	..	1.61	12	..
Te Aroha ..	46	54.4	35.8	45.1	-3.7	61.0	3	24.2	22	7.14	20	+0.69	1.32	11	..
Tauranga ..	100	54.3	38.1	46.2	-2.4	60.0	2	29.5	10	5.81	17	+0.87	2.38	12	173.9
Ruakura Farm, Hamilton	131	53.4	35.5	44.4	-2.8	59.7	29	24.0	21	7.32	19	+2.39	1.48	22	143.3
Rotoehu Plantation ..	235	53.5	33.1	43.3	..	59.0	1	19.2	27	4.90	13	..	1.20	12	..
Rotorua ..	925	53.6	35.4	44.5	-3.2	59.4	3	23.9	27	5.23	16	+0.23	0.98	22	161.1
Whakarewarewa ..	1,000	52.0	33.4	42.7	(-2.5)	61.2	2	22.2	27	4.96	12	+0.33	0.85	23	..
Gisborne ..	25	53.0	36.9	45.0	..	63.2	1	28.3	26	3.40	12	..	0.75	12	118.7
Onepoto, Lake Waikaremoana	2,110	44.2	34.6	39.4	..	54.6	1	28.5	27	5.54	21	..	1.38	13	..
New Plymouth ..	190	52.5	39.4	46.0	-2.8	58.5	3	29.4	10	5.83	20	-0.55	1.05	2	150.9
Chateau Tongariro ..	3,670	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Dawson Falls ..	3,100	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Karioi ..	2,125	42.4	29.3	35.8	-3.5	53.0	1	15.5	27	7.09	27	..	1.07	23	..
Napier ..	5	51.8	37.7	44.8	-2.2	58.6	2	27.5	22	4.01	11	+0.74	1.27	12	150.4
Hastings ..	45	52.5	34.1	43.3	(-1.5)	61.0	15	23.0	26	4.05	12	..	0.92	12	..
Taihape ..	2,157	41.9	32.4	37.2	-4.4	54.0	1, 2	23.0	26	5.49	26	+2.52	0.77	16	..
Wanganui ..	72	50.2	38.7	44.4	..	56.2	16	30.7	31	5.24	24	..	1.09	3	96.6
Tangimoana ..	8	50.8	35.8	43.3	-3.4	59.0	1	28.0	26	4.11	16	+1.04	1.09	3	..
Palmerston North ..	100	49.8	34.9	42.4	-3.9	61.0	1	25.0	27	4.15	21	+0.88	0.97	16	..
Massey College, P.N. ..	110	49.3	34.2	41.8	(-4.0)	60.3	1	26.0	27	4.39	20	(+0.69)	0.84	16	98.1
Pahiatua ..	384	49.3	33.8	41.6	(-3.4)	60.0	1	24.2	27	7.90	20	(2.94)	1.20	16	..
Kapiti Island ..	44	49.9	41.6	45.8	-1.8	62.0	1	36.0	26	3.92	20	-0.27	0.75	4	..
Masterton ..	387	48.1	34.4	41.2	-4.0	60.6	1	24.1	11	7.77	27	+3.59	1.30	3	110.7
Wellington ..	415	48.1	38.6	43.4	-3.5	59.0	1	32.8	26, 27	6.03	22	(+1.18)	0.83	19	113.2
Nelson ..	24	51.2	34.4	42.8	-2.6	57.5	15	25.4	26	2.94	13	-0.54	0.72	1	165.5
Apleby, Nelson ..	57	50.6	35.5	43.0	(-1.8)	57.2	15	27.8	26	4.94	13	..	1.17	1	..
Blenheim ..	30	50.9	32.3	41.6	(-2.2)	57.8	15	23.0	26	3.63	13	(+0.84)	0.87	12	158.0
Golden Downs ..	900	47.2	28.2	37.7	(-3.4)	57.0	1	21.2	21	5.00	12	..	1.09	1	..
Waihopai ..	860	48.4	30.8	39.6	(-3.9)	55.1	10	22.1	26	2.41	11	..	0.54	1, 30	..
Westport ..	23	51.2	39.1	45.2	..	55.2	2	30.5	27	4.34	15	..	1.07	22	155.1
Hanmer Springs ..	1,225	42.0	27.1	34.6	-2.1	54.1	1	15.2	21	5.92	26	+0.63	1.12	19	79.6
Balmoral ..	743	44.5	30.8	37.6	(-2.8)	55.0	1, 22	22.5	12, 21	3.23	21	..	0.63	1	..
Hokitika ..	12	51.0	33.1	42.0	-2.7	57.0	2	25.0	26	4.01	12	-4.95	1.37	22	158.3
Lake Coleridge ..	1,220	44.2	29.9	37.0	-2.4	56.5	1	19.0	21	4.38	18	+1.42	1.70	29	..
Darfield ..	640	45.4	30.2	37.8	..	55.6	28	24.2	17	4.21	20	..	0.88	1	..
Christchurch ..	22	45.0	33.7	39.4	-3.1	54.0	1	28.8	11	8.70	23	+5.16	1.55	6	95.5
Wigram Aerodrome, Sockburn	74	45.9	33.3	39.6	..	54.3	1	27.6	7	8.03	23	..	1.24	6	..
Rudstone, Methven ..	1,217	42.3	32.0	37.2	(-3.9)	54.0	1	25.5	17	4.49	21	+1.75	1.56	30	95.2
Lincoln ..	36	45.5	33.4	39.4	-3.5	54.8	1	26.0	11	8.24	25	+5.60	1.35	18	83.3
Onawe, Duvauchelle's Bay	150	46.0	36.7	41.4	..	55.9	1	28.8	26	16.33	24	..	4.31	6	..
Hermitage, Mount Cook	2,510	39.0	25.5	32.2	(-2.4)	49.0	1, 2, 15	16.0	21	1.80	16	-6.95	0.21	1	64.5
Ashburton ..	323	..	31.2	..	..	..	..	21.8	22	3.74	19	+1.16	0.77	30	..
Lake Tekapo ..	2,350	38.2	24.5	31.4	(-3.5)	50.7	1	13.8	22	1.05	10	..	0.17	18, 22	108.2
Jacksons Bay ..	22	49.7	34.6	42.2	..	54.8	1	29.0	26	4.48	7	..	1.05	21	..
Fairlie ..	1,000	44.4	29.5	37.0	(-1.0)	55.0	15	17.0	22	0.67	10	..	0.19	1	112.0
Timaru ..	56	44.8	32.4	38.6	-3.2	56.2	14	25.0	21, 22	1.43	14	-0.41	0.42	30	92.1
Waimate ..	200	46.9	34.7	40.8	-1.1	54.3	28	26.0	21	2.68	16	+0.62	0.55	17	93.6
Milford Sound ..	23	46.0	33.1	39.6	..	53.9	8	25.6	21	4.03	9	..	1.89	22	..
Queenstown ..	1,110	41.6	30.8	36.2	(-1.8)	50.8	1	25.6	21	2.77	16	+0.74	0.59	27	60.4
Ophir ..	1,000	39.9	26.2	33.0	-1.6	52.3	1	11.6	21	1.07	15	+0.30	0.25	26	..
Waipiata ..	1,550	38.1	27.1	32.6	-4.1	50.2	1	15.4	21	2.84	21	..	0.88	27	84.1
Alexandra ..	520	42.8	30.1	36.4	(-0.1)	52.0	28	18.8	13	0.90	14	(+0.22)	0.30	27	110.1
Manorburn Dam ..	2,448	33.3	22.1	27.7	-4.5	44.2	1	2.5	21	1.57	23	+0.51	0.34	27	..
Dunedin ..	240	43.4	35.1	39.2	-4.2	52.0	1	27.4	26	10.23	28	+7.25	1.97	25	67.0
Invercargill ..	..	44.6	33.0	38.8	-2.1	51.0	1	23.0	21	4.86	27	+1.59	0.77	29	72.5

LATE RETURN.

Hermitage, Mount Cook, June, 1939.	2,510	46.3	32.2	39.2	(+5.0)	57.0	2, 28	22.5	18	17.55	21	+5.42	4.76	7	41.8
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NOTE.—At stations where departures from normal are in parentheses the record has been maintained for less than ten years in the case of temperatures and for less than twenty years in the case of rainfall, and the normals are partly interpolated.