

CLIMATOLOGICAL TABLE—Summary of the Records of Temperature, Rainfall, and Sunshine for November 1959—continued

Station	Height of Station Above M.S.L.	Air Temperatures in Degrees (Fahrenheit)								Rainfall in Inches					Bright Sunshine
		Means of		Mean of A and B	Difference From Normal	Absolute Maximum and Minimum				Total Fall	No. of Rain Days	Difference From Normal	Maximum Fall		
		A Max.	B Min.			Maximum	Date	Minimum	Date				Amount	Date	
	Ft.	°F.	°F.	°F.		°F.		°F.		In.			In.		Hrs.
Hanmer	1,270	68.7	43.3	56.0	+2.2	77.8	1	32.7	12	2.03	13	-1.45	0.79	29	215
Hokitika South	15	59.7	47.3	53.5	-0.3*	63.9	3	40.1	22	12.28	18	+2.35*	2.22	5	181
Balmoral	650	70.9	44.6	57.8	+4.1*	80.0	22, 30	30.5	12	1.22	9	-1.09	0.43	18	..
Lake Coleridge	1,195	67.3	44.6	56.0	+1.5	78.0	30	33.0	25	2.90	9	+0.47	1.37	5	..
Eyrewell	520	70.1	44.9	57.5	..	80.9	14	33.2	12	1.22	10	-1.89	0.30	30	..
Franz Josef	450	60.7	44.9	52.8	..	67.1	30	35.9	25	24.11	21	..	6.88	5	..
Ashley Forest	350	68.3	47.3	57.8	+2.3*	78.8	13, 29	37.2	12	1.12	9	-3.34*	0.39	29	..
Darfield	640	70.9	45.8	58.4	+3.4	84.5	22	35.1	12	1.53	12	-0.90	0.43	29	..
Christchurch Airport	94	68.6	46.9	57.8	..	81.3	29	35.9	12	0.66	11	..	0.18	29	224
Christchurch	22	69.2	48.5	58.8	+2.5	81.2	17	39.0	12	0.55	9	-1.27	0.20	29	..
Wigram	74	69.9	48.1	59.0	+2.6*	81.7	24	37.4	10	0.69	11	-1.03*	0.48	29	..
Akaroa	150	70.7	49.7	60.2	+3.1	80.0	24	38.2	25	2.13	16	-0.15*	0.47	6	240
Lincoln	36	69.5	45.1	57.4	+2.3	81.0	29	33.1	12	1.25	14	-0.65	0.55	29	233
Highbank	1,102	66.6	45.7	56.2	..	77.0	22, 30	35.2	21	3.11	13	..	0.81	29	237
The Hermitage	2,510	63.1	43.7	53.4	+2.0	71.0	4, 29	30.0	25	17.53	10	+3.22	7.71	7	179
Winchmore	626	68.7	44.2	56.4	+2.1*	83.3	22	32.5	21	1.31	12	+1.03	0.24	8	..
Haast	15	58.6	46.9	52.8	+1.2*	61.4	16	36.1	25	16.78	21	+3.89*	3.28	15	130
Ashburton	323	72.0	45.9	59.0	+3.3	88.6	22	33.2	10	1.68	11	-0.77	0.35	6, 8	210
Fairlie	1,004	68.7	41.3	55.0	+1.3	82.0	5, 22	31.0	21	1.59	6	-0.80	0.91	8	..
Timaru	56	68.2	47.2	57.7	+2.2	81.0	2	34.5	25	2.06	11	+0.11	0.79	8	213
Adair	200	65.6	46.4	56.0	+2.0*	79.5	13	37.6	25	1.94	13	-0.12*	0.86	8	..
Tara Hills, Omarama	1,600	68.0	40.6	54.3	+0.9*	76.5	28	31.0	26	2.48	5	+0.99*	1.28	8	236
Benmore, Otematata	920	69.1	45.7	57.4	..	78.8	5	33.0	25	2.30	8	..	1.30	8	..
Milford Sound	20	58.0	46.0	52.0	-0.3	64.7	23	38.2	20	31.62	22	+7.56	9.85	5	..
Waimate	200	67.9	46.3	57.1	+1.7	83.3	29	37.2	25	2.58	14	+0.41	0.85	8	164
Naseby Forest	2,300	65.8	39.1	52.4	..	75.8	5	25.2	25	1.98	8	..	0.83	8	..
Queenstown	1,100	65.7	44.5	55.1	+1.2	74.6	28	37.0	26, 30	4.03	13	+1.31	1.60	8	208
Cromwell	720	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Ophir	1,000	68.9	42.2	55.6	+1.4	78.0	29	25.0	25	1.21	7	-0.12	0.85	8	..
Moa Creek	1,400	65.2	39.8	52.5	..	74.0	5	25.5	25	1.22	6	..	0.89	8	..
Earnsclough	500	69.5	43.3	56.4	+0.7*	83.2	29	28.3	25	1.40	6	+0.32*	0.92	8	..
Waipiata	1,550	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Alexandra	520	69.6	45.8	57.7	+1.3	82.1	29	32.1	25	1.16	6	+0.08	0.79	8	205
Garston	1,009	65.7	42.4	54.0	..	74.9	5	30.9	20	3.54	15	..	1.42	8	..
Roxburgh Hydro	350	70.0	43.2	56.6	..	82.5	29	32.5	24	1.86	13	+0.10*	1.03	8	..
Mid Dome	1,252	63.6	42.8	53.2	..	76.3	15	32.5	21	4.05	16	..	1.58	8	..
Moa Flat, West Otago	1,345	61.6	41.1	51.4	..	72.7	5	31.7	9	3.37	19	+0.38*	1.40	8	..
Taieri	80	65.8	44.4	55.1	+1.7*	84.4	5	32.0	24	2.95	15	+0.67*	1.43	8	158
Musselburgh, Dunedin	5	64.3	46.9	55.6	+1.0*	79.0	8	35.5	25	3.78	21	+1.27	1.43	8	163
Tapanui	550	..	..	..	..	..	..	..	..	..	..	..	..	..	..
East Gore	245	64.1	44.0	54.0	+0.9	79.5	5	34.0	24	4.62	19	+1.41	1.87	8	..
Gore	240	64.5	43.7	54.1	+0.6*	79.3	5	36.0	24	4.32	19	+1.11*	1.57	8	169
Otautau	180	62.6	43.5	53.0	+0.9*	74.0	5	35.0	25	5.24	16	+1.73*	1.10	8	160
Pebble Hills	150	64.6	42.8	53.7	..	75.0	4	33.0	24	4.59	20	+1.04*	1.57	8	..
Invercargill	8	61.6	45.8	53.7	+0.7	75.0	5	35.8	30	4.37	20	+0.64*	1.13	8	..
Invercargill Airfield	0	61.1	44.2	52.6	+0.8*	73.4	5	31.5	30	4.27	19	+0.63*	1.13	8	164

LATE RETURNS															
Karipapanga, Oct 1959	1,600	55.6	41.0	48.2	..	64.7	11, 22	30.4	8	7.78	11	..	2.60	15	..
Ashley Forest, Oct 1959	350	57.4	40.7	49.0	-3.0*	69.4	26	33.8	19	2.50	10	-0.14*	0.69	13	..
Akaroa, Oct 1959	150	59.6	42.8	51.2	-3.1	70.2	31	35.5	3	2.28	15	-0.16*	0.41	14	226
Invercargill, Oct 1959	8	55.5	41.7	48.6	-2.1	63.5	30	33.2	19	3.31	13	-0.24*	0.96	4	..

NOTE—At stations where departures from normal have an asterisk, the temperature record has been maintained for less than 10 years, the rainfall record for less than 20 years. Rainfall normals have been revised and now refer to the standard period 1921–50. Where observations are not available for the whole period, or where the site of the rain gauge has been changed, the normals are partly interpolated.

NOTES ON THE WEATHER FOR NOVEMBER 1959

General: November was windy and changeable, and comparatively dry. In many districts pasture growth was less than usual for the time of the year and more rain would have been appreciated. However, in Southland and parts of Otago growth was reported to be adequate.

Strong north-westerly gales were reported on several occasions. On the 6th and 9th they affected mainly areas about Cook Strait. On the 23rd they caused considerable damage to power installations in Southland.

Rainfall: In northern districts of both Islands and in eastern districts of the North Island rainfall was only half the average value. Elsewhere it was mainly about three-quarters of the normal value, except on the West Coast and in Southland and most of Otago, where there was a slight excess.

Temperatures: Temperatures were above average by about a degree, except on the West Coast. Highest departures of 2–3 degrees were experienced in parts of Canterbury and Marlborough. The warmest day in Canterbury was the 22nd, when the temperature at Ashburton reached 89 degrees. Other warm days in Canterbury, nearly all in north-westerly conditions, were 5, 13, 19, 29, and 30.

Snow was reported to low levels in parts of Otago on the 8th. The ranges of Otago and Southland also received a coating of snow on the 24th.

Sunshine: Sunshine was below average, except in eastern districts north of Dunedin and in parts of Westland. Largest deficiencies of 30–60 hours were recorded in western districts from Hamilton to Westport. For New Plymouth with 159 hours and Palmerston

North with 121 hours it was one of the cloudiest Novembers on record.

The Gisborne - Hawke's Bay - Taupo area and parts of coastal Canterbury were favoured with 20–30 hours more sunshine than usual.

Weather Sequence: On the 1st the weather was fair or fine, under the influence of an anticyclone centred east of the North Island. During the next three days a weak trough moved over the country, but the only district which received a substantial amount of rain was the West Coast.

On the 5th and 6th a very deep depression passed far to the south and the associated trough of low pressure crossed the country. North-westerly winds reached gale force in many districts, causing some damage about Cook Strait. Rain was more or less general; it was heavy on the West Coast but there were only very light falls in Hawke's Bay and Canterbury. On the following day the weather cleared temporarily as a ridge of high pressure crossed the country. Another deep depression passed far to the south from the 8th to the 11th with general rain, and strong gales about Cook Strait. A change to cool south-westerlies also occurred, with snow to low levels in Otago on the 8th. On the 12th an anticyclone was centred west of the North Island and there was another brief interval of fine weather.

From the 13th to the 16th a trough became stationary over the South Island with rain on the West Coast and in most of Southland and Otago. During the next three days the trough moved on to the North Island while a small depression developed west of Auckland and moved south-eastward. Rain covered the North Island and the northern half of the South Island, with some considerable falls about Cook Strait and in North Taranaki.