

CLIMATOLOGICAL TABLE—Summary of the Records of Temperature, Rainfall, and Sunshine for September 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.			Maxi-mum	Date	Mini-mum	Date				Amount		Date
Ft.	°F.	°F.	°F.	°F.	°F.		°F.	In.		In.		Hrs.			
Hanmer	1,270	59.0	37.2	48.1	+2.0	67.0	5	27.4	11	3.63	12	-0.80	1.19	30	158
Hokitika South	15	56.3	42.5	49.4	+1.6*	62.8	22	33.5	11	11.73	20	+3.11*	2.56	15	106
Balmoral	650	61.0	36.5	48.8	+2.6	71.0	23	26.0	9	0.89	7	-1.39	0.49	30	..
Lake Coleridge	1,195	59.0	38.9	49.0	+2.2	69.0	21	28.0	11	2.73	11	-0.39	0.98	30	..
Eyrewell	520	60.4	37.8	49.1	..	71.0	17	25.5	9	0.48	5	-2.96*	0.13	22, 28	..
Franz Josef	450	57.0	41.7	49.4	..	67.1	22	35.2	12	29.61	20	..	8.05	15	..
Ashley Forest	350	59.3	40.9	50.1	+2.2*	69.2	17	31.2	9	0.54	8	-2.12*	0.15	13	..
Darfield	640	60.9	39.1	50.0	+3.0	70.2	17	30.4	9	0.81	7	-1.95	0.23	30	..
Christchurch Airport	94	59.9	38.9	49.4	..	71.2	6, 17	26.6	9	0.32	6	..	0.11	13	172
Christchurch	22	61.0	40.8	50.9	+2.2	73.8	6	31.4	1	0.24	5	-1.82	0.08	13	..
Wigram	74	60.7	40.1	50.4	+1.6*	72.1	6	31.1	28	0.27	5	-1.63*	0.10	22	..
Akaroa	150	59.9	43.4	51.6	+1.2	71.0	7	34.0	27	0.46	10	-2.82*	0.10	2	174
Lincoln	36	59.4	38.4	48.9	+1.4	70.5	6	27.9	27	0.29	5	-1.61	0.08	2, 22	179
Highbank	1,102	57.6	41.6	49.6	..	65.5	6	35.3	14	1.14	9	..	0.44	30	180
The Hermitage	2,510	54.8	36.5	45.6	+3.1	63.0	6	29.0	8	19.24	15	+5.70	7.15	15	103
Winchmore	626	58.6	38.4	48.5	+2.0	68.8	6	27.2	9	0.48	6	-1.88*	0.20	30	..
Haast	15	55.8	43.4	49.6	+1.4*	64.0	22	36.8	8	19.95	18	+9.20*	3.25	2	124
Ashburton	323	62.4	38.8	50.6	+2.7	74.8	6	28.2	11, 12	0.48	7	-2.14	0.21	30	160
Fairlie	1,004	59.0	34.5	46.8	+1.7	70.5	15	22.0	9	1.53	8	-1.13	0.64	30	..
Timaru	56	60.0	39.8	49.9	+2.0	72.7	7	32.0	9	0.47	6	-1.48	0.21	30	166
Adair	200	56.7	41.2	49.0	+1.7*	71.3	6	32.8	9	0.55	7	-1.57*	0.30	30	..
Tara Hills, Omarama	1,600	58.3	33.5	45.9	+1.8*	66.8	16	20.3	9	1.89	10	+0.38*	0.97	30	183
Benmore, Otematata	920	60.2	36.4	48.3	..	69.0	15	23.9	9	0.89	7	..	0.47	30	..
Milford Sound	20	55.0	40.7	47.8	+1.4	61.1	25	34.2	8	31.16	17	+11.36	8.44	15	..
Waimate	200	60.1	38.8	49.4	+0.9	73.0	7	29.9	9	0.44	8	-1.81	0.14	2	148
Naseby Forest	2,300	56.7	31.8	44.2	..	64.6	17	22.2	9	0.71	7	..	0.28	24	..
Queenstown	1,100	57.2	38.0	47.6	+1.5	64.3	16	30.5	8	3.33	14	+0.67	1.04	15	175
Cromwell	720	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Ophir	1,000	60.3	32.0	46.2	+0.9	66.8	16	19.0	8	0.49	6	-0.65	0.22	30	..
Moa Creek	1,400	58.0	29.7	43.8	..	66.0	16	17.6	14	0.52	6	..	0.22	30	..
Earnsclough	500	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Waipiata	1,550	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Alexandra	520	61.1	35.7	48.4	+1.3	67.0	20	26.4	9	0.83	9	+0.01	0.42	30	208
Garston	1,009	58.9	36.0	47.4	..	67.1	20	24.7	9	1.98	11	..	0.51	15	..
Roxburgh Hydro	350	61.3	37.2	49.2	..	69.5	17	26.0	9	0.30	6	-0.79*	0.10	2	..
Moa Flat, West Otago	1,345	55.0	36.2	45.6	..	62.9	23	30.4	9	1.14	12	-0.78*	0.32	1	..
Taieri	80	58.8	37.6	48.2	+0.5*	70.0	15	25.7	9	0.77	9	-1.16*	0.37	1	186
Musselburgh, Dunedin	5	57.6	41.8	49.7	+0.4*	69.0	15	33.7	9	1.01	11	-0.95	0.35	1	176
Tapanui	550	59.0	38.3	48.6	..	69.0	23	28.5	28	2.10	13	..	0.49	7	..
East Gore	245	59.9	38.8	49.4	+2.1	71.0	23	29.0	9	1.78	10	-0.68	0.42	1	..
Gore	240	59.6	38.8	49.2	+1.6*	71.0	23	31.0	9, 29	1.74	11	-0.72*	0.37	1	189
Otautau	180	53.7	37.4	45.6	-0.7*	62.5	15	29.0	26, 28	2.32	11	-0.70*	0.58	15	157
Pebble Hills	150	58.6	38.9	48.8	..	70.5	23	29.0	9, 29	2.59	11	-0.25*	0.58	24	..
Invercargill	8	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Invercargill Airfield	0	56.5	39.2	47.8	+2.1*	67.8	23	30.2	9	1.92	15	-1.30*	0.38	15	165

LATE RETURNS

Whatawhata, Aug 1959	340	58.0	42.2	50.1	..	62.0	7, 13	32.5	30	3.75	19	..	0.72	20	110
Kaingaroo, Jul 1959	1,800	50.7	33.2	42.0	+1.0	58.0	21	25.1	19	3.72	9	-0.93	1.80	26	..
Kaingaroo, Aug 1959	1,800	53.5	34.7	44.1	+1.8	61.2	21	27.0	25	2.07	15	-3.16	0.43	21	..
Chateau Tongariro, Aug 1959	3,670	45.7	32.6	39.2	+2.1	52.0	29	25.0	26, 29	3.32	13	-5.00*	0.46	14	..

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 SEPTEMBER 1959

General: September was a mild month. The spell of dry, settled weather which had commenced in about mid-August was broken in many districts by welcome rains in mid-September, and in these areas pasture growth was satisfactory. However, in parts of Canterbury the dry weather persisted also in the second half of the month, seriously affecting pastures. As in August, conditions were particularly favourable for lambing; and generally it was a good month for stock apart from a few reports of boat in the Auckland Province.

On the 15th and 16th north-westerly gales raged from Wellington to Otago, causing damage in parts of Westland and Canterbury.

Rainfall: Rainfall was only half the average value in Canterbury and Otago and two-thirds in Southland and in northern and western districts of the Auckland Province. In the Christchurch-Ashburton area and on Banks Peninsula totals were mainly below half an inch.

For August and September combined, the Christchurch total of 0.78 in. was the lowest in nearly 100 years of record.

On the other hand, it was wetter than usual in western and northern districts of the South Island and also in Wellington and South Manawatu.

Heavy rain was reported about Cook Strait from the 17th to the 19th, with disruption of rail and road transport just north of Wellington. In Nelson and Marlborough for the 17th and 18th some stations reported 8–9 in.; while Kowhai Ridge (near Paekakariki) received 7.21 in. for the 18th and 19th.

Temperatures: Temperatures were above average, mainly by 1 to 2 degrees.

Snow fell on the ranges of both islands about the end of the month.

Sunshine: Sunshine was below average in western and northern districts of the South Island and in the North Island south of Hamilton, mainly by about 30 hours. For Nelson, with a total of 155 hours of sunshine, it was one of the cloudiest Septembers on record.

Otago was favoured with 30–40 hours more sunshine than usual; and sunshine was also appreciably above average in Southland and Northland.

Weather Sequence: The first 11 days was a period of dry, settled weather, except at times in western and far southern districts of the South Island. From the 1st to the 3rd an anticyclone moved across the North Island, but a weak trough of low pressure brought considerable rain to the West Coast and some rain also to Otago and Southland; a few showers were reported in Northland, Gisborne, and Hawke's Bay. For the next three days an extensive belt of high pressure covered New Zealand and the weather was fair. The passage of a weak trough across the South Island on the 7th brought some rain to Westland, Southland, and parts of the Otago and Canterbury high country. However, from the 8th to the 11th the weather was again mainly fine, under the influence of a large anticyclone. Some showers occurred in Northland, Coromandel, and Gisborne.

From the 12th to the 17th north-westerly winds prevailed, with considerable rain on the West Coast. During the first half of this period a weak trough moved northward over the country, with rain in western districts of both islands and also in northern districts of the South Island. From the 15th to the 17th pressure was high to the north-east, and two depressions in succession moved south-eastward past Southland. North-westerly gales were