

CLIMATOLOGICAL TABLE—Summary of the Records of Temperature, Rainfall, and Sunshine for September 1960—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.	°F.	In.			In.		Hrs.	
Woodbourne	89	58.4	42.5	50.4	+1.2*	68.8	8	32.7	11	3.61	13	+1.17*	0.62	5	
Blenheim	14	59.5	43.1	51.3	+1.1*	68.9	8	33.1	11	3.31	11	+1.03*	0.61	5	
Lake Grassmere	15	56.4	44.6	50.5	..	67.0	8	32.5	11	2.23	11	..	0.49	5	
Golden Downs	900	55.7	37.7	46.7	+0.7	60.6	21	27.2	11	8.11	17	+4.37	1.43	5	
Waihopai	860	57.6	40.3	49.0	+0.4	62.8	26	31.4	1	4.58	16	+1.92	0.67	6	
Westport	7	58.8	44.7	51.8	+2.4	62.5	29	37.0	1, 12	7.62	15	+1.62*	1.67	7	
Molesworth	2,930	51.2	31.6	41.4	+0.0*	58.5	8	21.0	11	2.13	13	-0.28*	0.39	16	
Reefton	630	58.5	40.0	49.2	..	64.7	25	27.8	11	8.34	18	..	1.43	4	
Totara Flat	254	59.8	39.9	49.8	..	65.0	11, 30	29.0	12	6.15	15	..	1.20	4, 8	
Greymouth	13	58.5	46.1	52.3	+2.7*	63.4	21	36.6	12	8.45	17	+0.91*	1.86	4	
Hanmer Forest	1,270	56.9	36.1	46.5	+0.4	65.8	28	25.0	11	2.89	11	-1.54	0.74	9	
Hokitika South	15	58.0	41.9	50.0	+2.2*	62.8	29	33.1	11	10.87	18	+2.25*	1.88	4	
Balmoral	650	57.9	35.7	46.8	+0.6*	68.2	8	24.2	11	1.53	9	-0.75	0.65	9	
Lake Coleridge	1,195	55.4	36.8	46.1	-0.7	64.0	26	29.0	12, 22	4.00	14	+0.88	0.98	4, 9	
Eyrewell	520	..	..	..	..	..	..	..	..	..	..	..	..	..
Franz Josef	392	57.9	41.4	49.6	..	63.9	15	34.0	10, 12	16.89	19	..	3.63	8	
Ashley Forest	350	54.8	40.2	47.5	-0.4*	71.0	9	33.0	22	1.62	10	-1.04*	0.54	9	
Darfield	640	57.1	37.9	47.5	+0.5	70.7	8	29.1	11	1.86	10	-0.90	0.75	9	
Christchurch Airport	94	55.8	40.8	48.3	..	72.2	8	29.9	22	1.07	11	..	0.30	15	
Christchurch	22	57.2	41.8	49.5	+0.8	73.5	8	31.7	22	1.15	8	-0.91	0.34	15	
Hororata	631	56.4	37.2	46.8	..	72.4	9	27.8	1, 22	1.86	12	..	0.78	9	
Onawe, Akaroa	150	57.8	42.1	50.0	-0.4	74.5	8	34.2	22	1.78	15	-1.50*	0.46	9	
Lincoln	36	55.6	39.0	47.3	-0.2	71.2	9	28.0	22	1.25	9	-0.65	0.45	15	
Highbank	1,102	54.7	39.6	47.2	..	65.5	8	33.5	19	2.22	11	..	1.03	9	
The Hermitage	2,510	51.7	34.0	42.8	+0.3	61.0	27, 29	27.0	10	20.41	16	+6.95	6.51	9	
Winchmore	526	54.9	37.6	46.2	-0.3*	70.5	9	27.5	11	1.59	11	-0.77*	0.68	9	
Haast	15	57.0	42.7	49.8	+1.6*	62.6	21	32.0	10	13.08	18	+2.33*	2.30	5	
Ashburton	323	57.8	38.2	48.0	+0.1	70.8	9	28.2	11	1.88	10	-0.74	0.86	9	
Temuka	80	55.3	37.6	46.4	..	71.0	9	29.5	11	1.81	10	..	0.63	9	
Fairlie	1,004	54.4	35.4	44.9	-0.2	65.0	9	25.0	1, 11	2.85	11	+0.19	1.25	9	
Timaru	56	56.6	39.3	48.0	+0.1	70.2	9	30.8	11	1.79	11	-0.16	0.60	9	
Adair	200	53.2	40.0	46.6	-0.7*	68.2	9	34.4	1	1.72	11	-0.40*	0.63	9	
Tara Hills, Oamarua	1,600	54.0	33.9	44.0	-0.1*	63.2	28	26.0	11	2.76	11	+1.25*	1.51	9	
Benmore, Otematata	920	56.9	38.1	47.5	..	64.1	28	30.6	1	2.17	11	..	1.36	9	
Lake Hawea	1,147	54.0	38.7	46.4	..	63.3	28	30.9	11	3.26	13	..	1.24	9	
Milford Sound	20	57.1	40.5	48.8	+2.4	63.1	15	33.6	11	16.96	13	-2.84	5.79	7	
Waimate	200	57.0	38.6	47.8	-0.7	70.2	7	31.2	11	1.93	12	-0.32	0.69	9	
Naseby Forest	2,300	52.5	31.0	41.8	..	61.8	27	21.4	24	2.06	10	..	1.33	9	
Queenstown	1,100	54.0	37.4	45.7	-0.4	60.5	28	29.0	10	3.17	11	+0.51	1.03	8	
Cromwell	720	57.4	36.7	47.0	+0.9	66.2	26	27.6	11	1.65	9	+0.54*	0.55	5	
Ophir	1,000	56.4	33.1	44.8	-0.5	66.4	27	23.3	1	1.33	7	+0.19	0.59	9	
Moa Creek	1,400	55.3	31.5	43.4	..	68.6	25	20.2	18	1.39	9	..	0.50	9	
Earnsclough	500	58.2	33.9	46.0	-0.4	67.7	26	24.0	1	1.15	8	+0.32	0.45	9	
Waipiata	1,550	..	32.8	..	..	..	..	24.4	18	1.37	7	+0.25	0.65	9
Alexandra	520	57.9	37.1	47.5	+0.4	67.0	26	29.4	18	1.09	7	+0.27	0.42	9	
Garston	1,009	56.5	33.6	45.0	..	67.0	27	26.0	5	2.01	14	..	0.60	8	
Roxburgh Hydro	350	58.4	35.9	47.2	..	68.0	27	29.3	18	1.11	7	+0.02*	0.37	9	
West Arm, Lake Manapouri	593	51.0	38.1	44.6	..	57.9	27	31.1	1	8.92	13	..	3.08	7	
Mid Dome	1,252	54.7	33.8	44.2	..	62.1	26	26.1	20	2.12	13	..	0.69	9	
Cherry Farm, Waikouaiti	21	54.2	37.4	45.8	..	65.6	7	32.8	22	1.49	9	..	0.42	9	
Moa Flat, West Otago	1,345	53.2	35.3	44.2	..	62.6	27	29.3	21	1.69	11	-0.23*	0.81	9	
Taieri	80	55.6	36.2	45.9	-1.8*	66.0	4	25.0	1	1.26	12	-0.67*	0.50	9	
Musselburgh, Dunedin	5	53.6	42.0	47.8	-1.5*	64.3	4	33.0	18	1.98	14	+0.02	0.78	9	
Riversdale	419	57.3	33.3	45.3	..	68.0	13	25.6	21	1.30	7	..	0.70	8	
Tapanui	550	55.9	36.4	46.2	..	65.5	27	30.0	21	1.71	8	..	0.79	9	
East Gore	245	..	..	..	..	..	..	..	..	..	..	..	..	..
Gore	240	57.9	36.4	47.2	-0.4*	70.0	26	26.5	21	1.90	10	-0.56*	0.57	9	
Otautau	180	55.5	36.3	45.9	-0.4*	66.4	26	27.5	21	1.47	11	-1.55*	0.38	9	
Pebble Hills	150	56.2	36.5	46.4	..	66.0	26	27.0	21	1.58	8	-1.26*	0.57	10	
Invercargill Airfield	0	55.0	36.6	45.8	+0.1*	65.8	26	27.9	21	2.16	13	-1.06*	0.65	7	

LATE RETURNS

Kuripapanga, Aug 1960 ..	1,600	53.6	31.5	42.6	..	65.2	3	22.8	24	3.54	..	..	..	..
East Gore, Aug 1960 ..	245	49.8	33.6	41.7	-1.0	61.0	31	24.0	14	2.39	11	+0.32	0.50	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 SEPTEMBER 1960

General: September was unusually cloudy, especially in the North Island. Persistent north-easterly winds brought exceptionally wet weather to the Auckland Province, adversely affecting the health of stock. Elsewhere it was considered to be a reasonably favourable month for stock and crops.

Rainfall: Rainfall was appreciably above average over most of the Auckland Province and also in parts of Taranaki, Hawke's Bay, Nelson, and inland South Canterbury. It was mainly two to four times normal in Northland, Auckland, Coromandel, and northern Waikato; and over a considerable part of this area it was the wettest September on record.

Elsewhere rainfall was close to normal, except in parts of Canterbury and Southland, which were drier than usual.

Following heavy rain from the 10th to the 14th, serious flooding occurred in the Hauraki Plains on the 15th, with some flooding also in parts of Waikato and Northland. At Waitekauri, near Waihi, the total rainfall for the month exceeded 34 in., of which 24 in. fell between the 10th and the 15th.

Temperatures: Temperatures were 2 degrees above average over most of the North Island from Wanganui and Napier northward and also in Nelson and on the West Coast. Elsewhere they were mainly close to average.

Snow was reported in the high country of both islands on the 10th.

Sunshine: In the North Island (except Manawatu and Wellington) and in Nelson totals were 40 to 90 hours below average, and for many districts it was the cloudiest September on record. Auckland, Waihi, Rotorua, and Taumarunui all received less than 100 hours.

Elsewhere sunshine was mainly deficient by about 30 hours. However, Invercargill was favoured with a surplus of 21 hours.

Weather Sequence: During the first four days several depressions passed south of New Zealand and winds from a westerly quarter prevailed. Considerable rain fell on the West Coast, and some rain was also reported in western districts of the North Island, about Cook Strait, and in the far south. Rain became general on the 5th, as a trough moving over the country was retarded and a depression