

CLIMATOLOGICAL TABLE—Summary of the Records of Temperature, Rainfall, and Sunshine for September 1972—continued

Station	Height of Station Above M.S.L.	Air Temperatures in Degrees (Celsius)								Rainfall (in millimetres)				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
Metres	°C	°C	°C	°C	°C	°C	°C	mm	mm	mm	mm	Hrs			
Taiaroa Head ..	76	13.8	6.4	10.1	+1.5	22.8	6	3.1	10,28	148	18	+100	60	8	..
Wanaka Post Office ..	296	14.9	4.5	9.7	..	20.2	6	-3.5	30	141	..	+83	61	8	..
Taieri ..	24	15.8	5.2	10.5	+2.2	22.9	6	0.6	29	108	11	+57	55	8	..
Berwick Forest ..	18	15.7	4.8	10.3	+2.0	23.5	6	-0.6	29	146	16	+93	60	8	..
Dunedin Airport ..	1	15.6	4.9	10.3	+1.8	22.6	6	0.4	29	123	16	+77	64	8	143
Musselburgh, Dunedin ..	2	15.1	5.8	10.5	+1.3	24.0	6	1.2	3	129	16	+73	69	8	138
Oamaru ..	30	16.1	6.2	11.2	+2.1	24.2	6	0.4	22	39	8	+3	23	8	161
West Arm, Lake Manapouri ..	180	10.3	4.5	7.4	+1.6	15.6	6	0.3	9	785	25	+455	88	14	..
Queenstown ..	329	14.0	4.8	9.4	+1.4	20.1	6	0.2	30	175	15	+109	63	8	..
Queenstown Aerodrome ..	352	13.8	4.0	8.9	..	20.8	6	-1.2	17	137	15	..	53	8	171
Mid Dome ..	387	13.9	3.9	8.9	+1.0	20.5	6	-1.1	29,30	206	..	+135	63	8	..
Cromwell ..	213	15.9	4.9	10.4	+1.7	21.7	6	0.3	4	86	10	+58	43	8	..
Ophir ..	305	14.8	3.5	9.2	+1.9	20.6	6	-4.0	22	82	8	+54	37	8	..
Moa Creek ..	427	13.8	1.0	7.4	+1.2	20.6	7	-6.4	18	73	8	+50	40	8	..
Earnscleugh ..	152	16.6	3.8	10.2	+2.2	23.9	6	-2.5	22	89	11	+66	52	8	..
Alexandra ..	141	16.2	4.8	10.5	+1.8	22.8	26	-1.2	22	78	13	+58	47	8	174
Roxburgh (Power Station) ..	110	15.9	4.3	10.1	+1.0	23.1	6	0.0	9,29	92	12	+59	56	8	..
Moa Flat ..	410	12.9	2.7	7.8	+0.8	19.4	5,6	-1.2	30	172	19	+121	68	8	..
Mahinerangi Dam ..	396	12.6	3.2	7.9	+1.3	19.8	5	-2.5	29	152	17	+81	59	8	..
Tapanui ..	226	13.6	4.1	8.9	+0.7	20.0	5	-0.1	28	184	20	+118	61	8	..
Rankleburn Forest ..	255	13.8	3.8	8.8	+1.1	20.8	7	0.6	29	204	18	+146	59	8	..
Taieri Mouth ..	15	14.4	5.4	9.9	..	23.9	6	0.7	29	150	14	+92	54	8	..
Otautau ..	55	14.0	5.4	9.7	+1.7	19.2	6,7	0.0	22	194	19	+110	39	7	129
Winton ..	44	14.1	5.6	9.9	+1.5	20.8	6	0.7	22	150	19	..	26	7	145
Gore, DSIR ..	124	13.4	5.4	9.4	..	19.7	5	0.4	28	162	21	+98	33	8	142
Hokonui Forest ..	46	13.8	5.8	9.8	+1.4	20.0	6	2.0	2	171	22	+97	28	7	..
Woodlands ..	47	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Invercargill Aerodrome ..	0	13.3	5.3	9.3	+1.4	19.7	6	2.3	19,20	171	23	+87	35	7	127
Tiwai Point, Bluff ..	5	12.9	6.0	9.5	..	18.5	6	0.5	11	169	23	..	35	7	..
Milton ..	18	15.0	5.2	10.1	+1.6	22.3	6	0.9	29	142	19	+19	46	8	..
Finegand, Balclutha ..	6	14.7	4.9	9.8	+1.6	21.0	13	-0.3	24	131	18	..	30	8	136
Nugget Point ..	131	13.3	5.7	9.5	..	20.7	6	2.2	28	161	23	+105	29	9	..
Rarotonga Airport, Cook Is. ..	5	24.8	18.4	21.6	-0.3	27.5	23	10.1	18	83	16	-31	24	20	129
Raoul Island, Kermadec Is. ..	38	18.8	14.0	16.4	+0.1	20.8	21	11.9	18	75	11	-34	22	14	164
Waitangi, Chatham Islands ..	48	11.8	6.1	9.0	0.0	14.4	1	1.2	18	93	14	+29	55	3	150
Campbell Island ..	15	8.1	2.0	5.7	+0.2	9.8	5,18	-5.8	9	137	29	+35	15	12	64
Scott Base, Antarctica ..	18	..	..	-24.7	+2.7	-5.6	3	-44.8	28	..	..	..	..	..	..
LATE RETURNS															
Whatawhata, Aug. 1972 ..	104	13.4	4.4	8.9	-0.6	16.9	30	-2.2	3	181	18	+36	40	11	154
Minginui Forest, Aug. 1972 ..	366	12.0	-1.5	5.3	-1.0	15.9	31	-8.2	3	132	14	-5	36	12	..
Pureora Forest, Aug. 1972 ..	549	..	-0.4	..	..	..	..	-7.9	3	205	18	+32	52	11	..
Mangatu Forest, Aug. 1972 ..	174	12.1	2.9	7.5	+1.4	17.5	31	-3.0	31	58	13	-79	20	13	..
Makahu Spur, Aug. 1972 ..	1479	1.7	-3.2	-0.7	..	10.9	31	-6.4	8	..	..	..	..	..	..
Whiteman Valley, Aug. 1972 ..	235	10.0	2.3	6.2	..	13.5	11	-2.9	20	118	19	..	17	26,30	..
Black Birch Range, Aug. 1972 ..	1396	2.5	-3.2	-0.4	..	12.0	31	-7.6	18	..	..	..	..	..	..
Ikawai, Aug. 1972 ..	70	11.2	0.5	5.9	..	17.0	31	-4.0	7	16	5	..	4	25	..
Adair, Aug. 1972 ..	85	10.0	2.3	6.1	-0.6	14.4	19	-0.3	4	9	7	-27	3	12	..
Ballantrae No. 2, Woodville, Aug. 1972 ..	171	10.9	3.4	7.2	..	14.9	11	-2.1	5	102	22	..	23	16	..
Errata															
Twizel, Aug. 1972 ..	457	8.0	-3.2	2.4	..	15.3	25	-7.2	7	40	10	..	23	11	..
Queenstown, Aug. 1972 ..	329	8.9	0.0	4.4	-1.0	14.8	31	-3.0	8	47	10	-17	17	11	141
Queenstown Aero., Aug. 1972 ..	352	9.0	-1.7	3.6	..	15.0	31	-7.8	14	29	8	..	11	25	..

The "normal" refers to the present site of the instruments. The standard periods for normals are: for temperature 1931-60, for rainfall 1921-50, and for sunshine 1935-60. No normals are available for stations with only short records.

\*The sunshine recorder is not located at the station but is in the near vicinity.

A rainday is a day with rainfall equal to or greater than 0.1 mm.

NOTES ON THE WEATHER FOR SEPTEMBER 1972

General—September was a warm month marked by exceptionally strong winds from a westerly quarter. Over most of the North Island and in Nelson, Marlborough, and Canterbury conditions were rather too dry but the weather was favourable for lambing. However, in Southland and Otago this was a particularly wet month and it followed 6 months of predominantly wet weather, especially in Southland. Besides stock losses due to flooding, there were many reports of losses of both lambs and ewes from the wet weather and lack of feed. Many gales were reported, especially in the South Island on the 13th, with some damage. On this occasion Dunedin suffered particularly severe damage. At the Airport the wind reached gale force during nearly all the afternoon and evening, the highest mean speed over a 10-minute

period being 59 kts and the highest gust 84 kts. Two small local tornadoes were reported, the first at Frankton, Hamilton, on the 17th, the second at Levin on the 21st. Considerable damage was done, especially at Levin.

Rainfall—Rainfall showed wide variations. It was below normal except in western and southern districts of the South Island. On the Canterbury Plains and in most of Marlborough, also in the Waimea Plains of Nelson and in Gisborne and Northern Hawke's Bay, it was less than half the normal value. By contrast, over nearly the whole of Fiordland, Southland, and Otago rainfall was from 2 to 4 times the normal value. Over most of Otago and part of Southland more than half the month's rain, amounting to 70-150 mm, fell during the 8th and 9th, causing serious flooding of the Clutha and Mataura Rivers.