

CLIMATOLOGICAL TABLE—Summary of the Records of Temperature, Rainfall, and Sunshine for January 1974—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	°C	mm	mm	mm	Hrs			
Kaitoke, October 1973 ..	226	14.9	7.1	11.0	..	19.5	29	-1.5	19	151	..	-42	..	..	..
Wanganui, February 1973	22	23.1	13.5	18.3	+0.3	27.5	7	7.0	14	1	1	-63	1	10	261
Otira Substation, October 1973	383	14.1	5.7	9.9	..	20.0	28	-5.0	17	519	20	+26	123	21	..
Otira Substation, November 1973	383	14.9	7.5	11.2	..	23.0	29	2.6	19	805	26	+261	152	2	..
Otira Substation, December 1973	383	19.8	9.4	14.6	..	24.5	15	5.4	20	238	11	-194	84	31	..
Waihopai Power Station, December 1973	262	22.6	..	..	..	29.5	16	..	..	68	6	-8	38	18	..
Christchurch, December 1973	7	20.9	11.3	16.1	+0.7	28.9	17	5.0	20	25	7	-31	10	18	..
Lake Tekapo, January 1973	683	22.8	7.7	15.3	+0.0	32.2	21	2.0	30	6	5	-45	2	11	294
Lake Tekapo, August 1973	683	5.5	-2.9	1.3	-2.1	14.0	30	-10.4	22	124	14	+76	30	5	99
Waimate, December 1973	61	21.2	10.0	15.6	+0.8	32.1	4	6.2	28	36	10	-35	16	17	210
Takahe Valley, August 1973	762	4.8	-4.7	0.1	..	12.0	30	-10.5	23	113	23	..	18	10	..
Takahe Valley, September 1973	762	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Takahe Valley, October 1973	762	10.2	0.5	5.4	..	17.6	29	-5.0	4	236	21	..	52	21	..
Takahe Valley, November 1973	762	11.7	1.9	6.8	..	..	..	..	..	533	23	..	81	11	..
Otautau, December 1973 ..	55	19.1	7.0	13.1	-0.1	26.2	23	0.6	19	40	7	-44	27	17	241
Rarotonga Airport, February 1973	7	30.1	24.7	27.4	+1.6	31.9	23	20.1	10	83	19	-125	21	2	193
Campbell Island, October 1973	15	8.2	3.0	5.6	-0.6	10.3	10	-2.3	17	114	31	-3	13	15	63
Campbell Island, November 1973	15	9.4	3.4	6.4	-0.8	11.7	29	-1.7	21	145	26	+38	39	21	105
Campbell Island, December 1973	15	11.1	6.4	8.8	+0.0	14.5	27	2.5	9	71	19	-31	13	16	93
Scott Base, Antarctica, April 1973	16	-18.9	-30.1	-24.5	-0.6	-8.3	22	-38.2	7	..	..	..	..	..	..
Scott Base, Antarctica, May 1973	16	-19.9	-30.3	-25.1	+2.9	-7.4	25	-44.7	2	..	..	..	..	..	..
Scott Base, Antarctica, June 1973	16	-20.8	-31.4	-26.1	-0.2	-10.8	15	-44.6	6	..	..	..	..	..	..
Scott Base, Antarctica, July 1973	16	-21.2	-32.5	-26.9	+2.8	-7.8	9	-49.1	19	..	..	..	..	..	..

The "normal" refers to the present site of the instruments. Standard periods for normals are: Temperature 1931-60, Rainfall 1941-70 Sunshine 1935-60. No normals are available for stations with only short records.

*Indicates that the sunshine recorder is not located at the station but is in the near vicinity.

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

Where the extremes of temperature and rainfall have occurred more than once during the month, the date of the first occurrence is given.

NOTES ON THE WEATHER FOR JANUARY 1974

General—Barometers were high over the South Island in January and there was a comparatively high frequency of southerly to easterly winds. It was a dry month, with the driest, warmest, and sunniest weather in western and northern districts. In parts of the North Island rainfall had been inadequate since September. In most areas there was very little pasture growth, and in some places supplementary feed was being supplied to cows and sheep. Dairy production was already seriously affected.

Rainfall—Rainfall was below normal except in a 30-mile wide strip near the coast from Tokomaru Bay to Wairoa and also near the coast from Dunedin to Balclutha. The deficiency was greatest in northern and western districts of both Islands. The whole area from Auckland through Waikato to Waitomo and Rotorua-Taupo received less than a quarter of the normal rainfall, as did a considerable part of the Alps and the Canterbury high country, and parts of Nelson and Marlborough. The average percentage of the 1941-70 normal was 35 percent in the North Island and 55 percent in the South Island.

Temperatures—Temperatures were up to 1°C above normal in western districts, and in northern districts of the North Island. Elsewhere they were about the same amount below normal.

Sunshine—Western and most northern districts were favoured with 30-70 hours above normal sunshine. In the east sunshine showed considerable variations. North Otago and South Canterbury received up to 60 hours above normal, but Gisborne and Northern Hawke's Bay had a deficiency of 40 hours.

Weather Sequence—During the first three days of January two troughs of low pressure moved eastward over the country, the second associated with a small depression just south of Stewart Island. Scattered rain was reported, especially on the West Coast, the southern and eastern coasts of the South Island, the Wellington-Manawatu area, and the centre of the North Island. Temperatures became cool in the southerly winds behind the second trough. On the following day the weather was fine but still rather cold during the passage of an anticyclone north-eastward over New Zealand. Another weak trough brought rain to the West Coast during the 5th and 6th with scattered light falls elsewhere, while temperatures still remained rather cool. During the following two days yet another trough associated with a depression passing near Campbell Island affected western districts as far north as New Plymouth and also Southland and South Otago, and parts of the Canterbury Plains, with rain, mainly light.

From the 9th to the 14th an anticyclone over the South Tasman Sea advanced on to New Zealand and became stationary there, while pressures remained low near Raoul Island. The weather was mainly fine but cool except in Gisborne and Hawke's Bay, where it was unsettled with rain at times. Gisborne recorded considerable rain on the 12th with the passage of a depression to the north-east. Other eastern districts of the North Island besides Bay of Plenty, Coromandel, and eastern Northland had showery conditions on some days during this period.

From the 15th to the 17th another weak trough crossed New Zealand with an anticyclone behind it. Some rain was reported over the greater part of the South Island and also in eastern districts of the North Island. Temperatures were still cool. Yet another