

LAND & FOREST SERVICE
24 MAR 1982
GISBORNE



SUPPLEMENT

TO THE

NEW ZEALAND GAZETTE

OF

THURSDAY, 11 MARCH 1982

Published by Authority

WELLINGTON: WEDNESDAY, 17 MARCH 1982

CLIMATOLOGICAL TABLE FOR JANUARY 1982

CLIMATOLOGICAL TABLE—Summary of the Records of Temperature, Rainfall, and Sunshine for January 1982—continued

Table with columns for Station, Height of Station Above M.S.L., Air Temperature in Degrees Celsius (Means of, Mean of A and B, Difference From Normal, Absolute Maximum and Minimum), Rainfall in Millimetres (Total Fall, No. of Rain Days, Difference From Normal, Maximum Fall), and Bright Sunshine (Hrs).

CLIMATOLOGICAL TABLE—Summary of the Records of Temperature, Rainfall, and Sunshine for January 1982—continued

Station	Height of Station Above M.S.L.	Air Temperature in Degrees Celsius							Rainfall in Millimetres					Bright Sunshine Hrs	
		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			
Fairlie	304	23.2	8.8	16.0	..	32.2	13	1.6	25	37	5	..	15	7	..
Twizel	457	23.7	8.0	15.9	+0.3	32.0	12	-1.0	20	50	10	..	14	26	..
Ikawai	70	21.6	9.7	15.7	+0.6	30.0	13	4.0	24	40	7	..	19	22	..
Geraldine	119	23.5	10.3	16.9	..	34.1	26	4.2	25	16	9	..	7	22	..
Orari Estate	81	23.5	9.8	16.7	+0.7	34.7	26	3.8	25	13	9	-61	5	22	..
Temuka	24	21.8	10.2	16.0	+0.4	35.4	26	4.6	25	11	6	-50	7	22	..
Timaru Airport	26	22.1	9.9	16.0	+0.5	34.8	26	4.8	24	11	7	-47	6	22	..
Adair	85	21.3	10.8	16.1	+0.7	32.2	26	5.2	25	18	12	-40	8	22	..
Timaru	17	21.1	11.5	16.3	+0.3	30.6	26	5.6	25	13	7	-45	5	22	227
Waimate	61	21.8	10.5	16.2	+0.2	29.9	21	5.1	20	47	13	-14	16	22	..
Kurow	207	22.7	10.4	16.6	..	29.4	26	-1.1	29	43	12	..	12	21	..
Oamaru Airport	30	20.4	10.4	15.4	+0.4	30.1	13	5.7	25	41	12	-17	21	22	195
Tara Hills, Omarama	488	23.3	8.9	16.1	+0.3	32.0	12	-0.8	20	46	8	-18	18	21	250
Lake Hawea	350	20.8	10.4	15.6	-1.3	28.4	17	4.7	25	52	9	-17	11	21	..
Wanaka	296	..	..	..	..	..	..	..	..	56	10	-2	20	21	..
Queensberry	277	23.1	10.6	16.9	..	31.3	17	4.0	25	51	12	..	19	21	..
Bendigo	200	24.2	10.6	17.4	..	32.8	12	2.8	20	33	9	..	13	21	..
Naseby Forest	610	21.2	6.5	13.9	+0.3	30.3	12	-1.7	20	54	9	-20	16	22	..
Windsor	88	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Ranfurlly	427	21.7	7.3	14.5	..	31.4	12	0.0	20	41	8	..	17	22	184
Herbert Forest	61	20.4	8.6	14.5	-0.3	31.0	13	3.8	20	85	13	+21	19	21	..
Palmerston	21	20.3	8.8	14.6	+0.1	29.0	13	3.5	29	79	15	..	19	22	158
Cherry Farm Hospital	6	19.8	9.8	14.8	+0.4	30.4	31	5.0	20	78	15	+20	14	22	..
Taiaroa Head	72	17.7	10.9	14.3	+0.4	27.0	13	7.0	23	96	18	+32	21	22	..
Invermay, Taieri	30	19.7	8.8	14.3	..	28.7	31	3.0	9	127	16	..	40	26	133
Berwick Forest	18	19.8	9.2	14.5	-0.1	30.3	31	3.8	24	84	13	+8	19	25	..
Dunedin Airport	1	20.0	8.7	14.4	-0.2	29.4	31	2.9	29	109	16	+48	33	26	146
Musselburgh, Dunedin	2	18.4	10.8	14.6	-0.4	29.4	31	6.7	29	142	20	+68	37	22	134
Te Anau	215	18.8	9.0	13.9	-0.1	24.6	17	1.0	20	176	15	+87	38	31	183
West Arm, Manapouri	232	16.3	8.5	12.4	-1.5	22.0	9	3.0	25	654	21	..	100	31	..
Borland Burn	183	19.6	7.8	13.7	..	26.0	18	2.0	20	166	19	..	41	13	..
Queenstown	329	21.5	9.7	15.6	-0.3	31.2	17	4.5	20	94	14	+20	20	21	207
Queenstown Airport	349	20.4	8.5	14.5	-0.9	28.5	17	1.6	20	63	13	-5	13	21	..
Otama	183	18.7	8.2	13.5	..	26.1	31	3.1	20	135	20	+61	42	13	..
Cromwell	213	24.1	10.2	17.2	-0.4	32.8	12	3.7	20	38	11	-5	14	21	250
Northburn	210	23.5	10.3	16.9	..	31.7	12	4.2	20	29	11	..	12	21	..
Lauder	370	22.3	8.6	15.5	..	31.2	12	1.1	25	44	9	..	12	22	..
Clyde Dam	160	23.4	10.4	16.9	..	31.8	12	5.6	25	55	10	..	13	22	..
Ophir	305	22.7	8.1	15.4	-0.5	31.9	12	0.0	25	28	9	-25	9	27	..
Moa Creek	427	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Earnsclough	152	23.9	9.0	16.5	+0.2	32.6	12	1.9	25	37	11	-9	9	21	..
Alexandra	141	22.9	10.2	16.6	-0.6	31.5	12	4.3	25	37	11	-9	7	22	228
Roxburgh Power Station	110	22.5	8.8	15.7	-0.6	30.0	12	4.0	20	39	11	-14	8	22	..
Deep Stream	396	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Beaumont	46	20.5	8.9	14.7	..	28.5	31	3.2	29	141	18	+57	23	13	..
Mahinerangi Dam	396	17.4	7.6	12.5	-0.6	25.2	31	2.4	29	114	16	+17	24	25	..
Tapanui	226	18.7	7.7	13.2	-1.4	26.5	31	2.7	20	133	18	+44	27	13	..
Taieri Mouth	15	17.9	9.4	13.7	+0.2	29.0	31	5.1	29	108	12	+29	30	26	..
Tuatapere	27	18.9	9.1	14.0	..	27.0	12	5.7	7	175	19	..	49	13	..
Otautau	55	18.7	8.7	13.7	-0.3	26.8	12	2.5	29	204	20	+113	54	13	157
Winton	44	18.4	8.8	13.6	-0.9	25.8	31	2.8	29	145	19	+81	44	13	158
Gore	123	18.1	9.1	13.6	-1.1	25.0	31	4.4	29	213	23	..	50	13	168
Hokonui Forest	46	18.9	8.7	13.8	-0.9	25.4	31	2.5	29	198	23	+112	47	13	..
Woodlands	47	18.4	8.7	13.6	-0.2	26.1	31	3.4	29	206	30	..	33	13	..
Invercargill Airport	0	17.4	9.0	13.2	-0.5	25.8	31	3.6	29	215	23	+126	43	13	148
Tiwai Point, Bluff	5	16.8	10.2	13.5	-0.7	25.0	31	5.0	9	224	24	..	42	13	..
Stewart Island	3	16.6	9.4	13.0	..	23.3	31	5.2	8	246	28	..	41	13	..
Milton	18	19.6	9.0	14.3	-0.3	29.9	31	3.5	7	122	15	+53	26	22	..
Finegand, Balclutha	6	19.3	9.6	14.5	+0.0	28.2	31	4.9	9	121	20	..	34	13	166
Owaka	5	18.1	8.3	13.2	..	27.1	31	2.4	29	177	19	..	30	13	..
Nugget Point	129	16.8	9.0	12.9	-0.4	26.6	31	4.8	23	168	20	+94	28	22	..
Tautuku	61	17.5	..	..	..	27.5	31	..	..	223	20	..	36	13	..
Pekoa Airport	56	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Nandi Airport, Fiji	19	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Rarotonga Airport	7	29.5	23.8	26.7	+0.9	31.4	25	21.5	10	73	15	-186	19	27	207
Totokoitu, Rarotonga	9	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Raoul Island	38	25.0	19.7	22.4	+0.8	26.8	5	16.4	26	20	7	-71	12	31	244
Campbell Island	15	11.9	6.0	9.0	..	14.2	4	0.9	6	162	27	..	30	12	114
Waitangi, Chatham Island	44	17.7	11.4	14.6	+0.2	20.6	27	4.9	9	46	15	-7	15	23	237
Scott Base, Antarctica	16	-1.0	-7.6	-4.3	..	2.6	9	-13.2	29	..	..	..	..	..	..X

CLIMATOLOGICAL TABLE—Summary of the Records of Temperature, Rainfall, and Sunshine for January 1982—continued

Station	Height of Station Above M.S.L.	Air Temperature 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	mm	Hrs		
LATE RETURNS AND CORRECTIONS															
Kerikeri M A F 12/1981	79	22.5	14.4	18.5	..	25.0	25	7.5	11	55	15	..	16	31	..
Kerikeri Downs 12/1981	79	22.5	14.3	18.4	..	25.3	25	7.7	11	51	13	..	16	31	..
Waiotemarama 12/1981	229	21.5	13.9	17.7	..	24.6	26	7.1	12	50	9	..	13	8	..
Woodhill Forest 12/1981	30	22.2	14.0	18.1	+1.3	25.7	23	7.3	12	51	10	-35	13	8	..
Kumeu 12/1981	32	22.7	13.4	18.1	..	27.0	26	5.4	12	59	11	..	15	23	..
Port Fitzroy 12/1981	4	22.7	14.9	18.8	+1.2	26.1	26	9.6	12	36	12	-78	11	5	..
Tarawera Forest 12/1981	61	23.9	13.6	18.8	+2.2	28.9	15	6.4	4	148	16	-15	32	7	..
Huntly 12/1981	34	23.4	14.8	19.1	..	29.0	24	9.1	14	65	..	..	26	7	..
Omata 12/1981	61	20.6	14.0	17.3	+1.2	24.9	26	10.5	14	95	16	..	22	31	..
Lower Retaruke 11/1981	223	20.1	8.2	14.2	+0.5	23.2	23	1.3	24	121	13	..	49	9	..
Lower Retaruke 12/1981	223	23.4	12.9	18.2	+2.7	28.7	26	4.7	11	177	16	..	42	31	..
Tauherenikau, Alloa 11/1981	43	19.1	7.8	13.5	-0.4	23.9	4	2.9	21	66	14	-15	26	7	..
Tauherenikau, Alloa 12/1981	43	22.3	12.8	17.6	+1.7	26.4	26	5.0	11	65	16	-19	13	23	..
Whararata Forest 12/1981	439	20.4	11.9	16.2	..	26.9	13	8.2	11	16	7	..	5	15	..
Palmerston North D S I R 12/1981	34	21.8	13.8	17.8	+1.7	26.4	27	7.4	12	94	15	-10	47	31	161
Kaitoke 12/1981	223	19.8	12.3	16.1	+2.1	25.0	27	3.0	11	212	18	+49	47	9	147
Wallaceville 12/1981	56	20.5	13.2	16.9	+1.6	24.5	27	3.5	11	123	14	+26	37	6	171
Manaia Dem. Farm 12/1981	98	20.6	12.6	16.6	+1.7	24.6	5	6.5	5	52	21	-47	12	8	175
Hari Hari 11/1981	45	18.4	9.5	14.0	+1.8	27.1	29	5.0	28	299	15	-120	93	6	..
Hari Hari 12/1981	45	19.7	11.6	15.7	+1.6	26.4	27	5.5	12	585	19	+285	107	1	..
Rai Valley 12/1981	79	21.7	12.9	17.3	+2.2	26.9	14	5.0	12	177	12	+32	50	30	..
Waiau 12/1981	137	23.7	11.8	17.8	..	30.4	20	4.7	12	27	7	..	6	21	..
Ashley Forest 12/1981	107	21.1	12.2	16.7	+1.9	29.1	20	5.1	11	22	8	-64	13	31	170
Christchurch 12/1981	7	22.3	13.0	17.7	+2.2	28.3	30	5.5	11	30	7	-26	8	23	..
Lake Tekapo 11/1981	683	17.1	6.4	11.8	+0.3	23.3	5	0.0	18	14	8	-37	5	17	182
Lake Pukaki 12/1981	556	20.7	9.8	15.3	+1.8	27.1	26	4.4	4	31	12	..	9	7	..
Temuka 12/1981	24	21.4	11.5	16.5	+2.2	27.7	20	3.7	11	39	10	-30	23	27	..
Ranfurlly 12/1981	427	21.3	8.8	15.1	..	28.1	29	1.2	4	27	12	..	5	31	143
Cromwell 12/1981	213	23.0	11.6	17.3	+1.3	31.1	26	3.8	4	31	11	-5	14	7	191
Ophir 12/1981	305	22.0	9.8	15.9	+1.5	29.1	26	1.4	11	36	12	-10	13	23	..
Winton 12/1981	44	18.7	10.3	14.5	+1.1	25.9	29	5.6	10	134	18	+68	22	7	113
Tautuku 12/1981	61	17.8	..	..	..	27.0	20	..	..	100	18	..	25	7	..
Nandi Airport, Fiji 12/1981	19	32.0	23.0	27.5	+0.9	34.7	10	21.6	25	119	16	..	63	11	210
Totokoitu, Rarotonga 12/1981	9	27.9	22.6	25.3	..	32.2	13	20.5	19	361	26	..	69	8	..
Raoul Island 12/1981	38	23.7	20.1	21.9	+1.4	25.7	23	18.3	8	34	10	-55	15	10	180
Campbell Island 12/1981	15	11.7	7.3	9.5	+0.9	15.1	23	3.3	28	166	21	+64	56	2	86

The "normal" refers to the present site of the instruments. Standard period for normals is 1941-1970. 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 rainy 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.

THE WEATHER IN NEW ZEALAND IN JANUARY 1982

General—Over the North Island and north and east of the South Island sunny warm and dry weather prevailed. In the remainder of the country, wet cool and cloudy weather was experienced.

Pressures were lower than average over the country, especially in the south and to the southeast of New Zealand. There were slightly more westerly winds than usual with a high frequency of strong ones at Invercargill.

Because of the dry weather over many parts of New Zealand farmers reported negligible pasture growth, but stock health was good. In the wet areas of the South Island farmers noted that conditions were poor for hay making although there was plenty of grass for animal feed.

Rainfall—Over the North Island and north and east of the South Island, dry conditions were experienced with many northern and eastern areas having less than 40 percent of their usual January rainfall. In the remainder of the country, rainfall was above normal with over 200 percent of the average rainfall being measured in some areas.

At Milford Sound 1500 mm of rain fell, making it the wettest January since records began in 1930, and only the second highest total for any month. Otira measured 906 mm during the month; this being the highest January total since 1931 and the second wettest since rainfall measures started in 1906. The monthly total of 215 mm at Invercargill was the highest since records started in 1939.

Heavy rainfalls along the West Coast during 21–22 January resulted in flooding at the township of Otira and slips closed the Otira Gorge road. The daily rainfall at Otira on the 22nd was 241 mm, which corresponds to a maximum rainfall of return period about 3 years. There were further heavy rains along the West Coast during 25–26 January: Milford Sound recorded 193 mm, Otira 252 mm, Hari Hari 233 mm, Inchbonnie 228 mm and Whataroa 291 mm.

Temperatures—Temperatures were above normal over most of the country. Areas having lower mean temperatures than usual were South Westland, Fiordland and the coastal areas of Southland and Otago. In these areas temperatures were about 0.5°C below the January normals. Over the rest of New Zealand mean temperatures were about 1.0°C above normal.

During a cold spell over the South Island on the 4th and 5th of the month snow was reported on the Remarkables around Queenstown.

At times during the month, eastern districts had high temperatures associated with northwesterly conditions, with some stations recording over 30°C. On the 13th Gisborne recorded 32.0°C, Napier 34.9°C, Christchurch 35.5°C, Winchmore 32.2°C, Hororata 33.9°C and Timaru 31.8°C. On the 21st and 26th further warm conditions were experienced especially over the South Island.

Sunshine—In many areas there were appreciable departures in the hours of sunshine from the January normals. Southern areas of the country had large shortfalls: Dunedin 39 hours, and Invercargill 37 hours. Those areas to record over 40 hours more than usual include Kaitaia (53 hours), Auckland City (51 hours), Gisborne (45 hours), Kelburn, Wellington (47 hours), Nelson (46 hours) and Timaru (42 hours).

THE WEATHER SEQUENCE—JANUARY 1982

1–7 January

A cold front across central North Island on the 1st January brought rain to central and northern areas of the North Island. Rain cleared from the north on the 2nd as an anticyclone moved onto the country, although a cold front associated with a depression near Tasmania brought rain to western and southern areas of the South Island. A disturbed westerly airstream developed over the country on the 3rd and was maintained until the 7th. Fronts travelling within this flow crossed the country on the 3rd, 4th and 6th bringing rain at times to most districts except those to the east, and some heavy falls were recorded in western parts of the South Island. Temperatures were very cool during this period and snow was reported on the hills around Queenstown on the 4th and 5th.

8–14 January

Weather in the second week of January was dominated by the development of a belt of high pressure across New Zealand. The weather was generally fine but cool during the first two days and became fine and warm during the rest of the week. Maximum temperatures above 30°C were recorded in many eastern districts on the 12th and 13th and minimum temperatures were also high during this period. A cold front associated with a depression near Macquarie Island brought rain to Fiordland, Southland and South Otago on the 13th and this spread to Westland on the 14th. Temperatures were cooler in southern districts but remained warm elsewhere.

15–21 January

Light rain fell in some eastern districts on the 15th as the cold front which lay over the South Island on the 14th moved eastward off the country. A belt of high pressure covered the north of the North Island and extended a ridge onto the South Island bringing fine weather to the rest of the country. Fine, warm weather continued until the 18th when a cold front extending across the Tasman Sea from Australia to Campbell Island brought rain and cooler temperatures to western and southern areas. Rain fell in central and eastern areas on the 19th as this frontal system crossed the country. Temperatures were cool. Rain cleared on the 20th as an anticyclone moved onto New Zealand but a front passing to the south on the 21st again brought heavy rain to southern and western districts of the South Island.

22–31 January

A westerly to south-westerly airstream developed across New Zealand between the 22nd and 24th. Cold fronts within this flow brought rain on the 22nd and 23rd to the whole country apart from the east coast northward from Christchurch. Temperatures were generally cool. An anticyclone in the north Tasman Sea brought fine weather to the North Island on the 25th, but temperatures remained cool and rain continued in the South Island. As the anticyclone moved onto the North Island there was a north-westerly wind change with high temperatures recorded in northern and eastern areas. Heavy rain continued to fall in western and southern areas of the South Island on the 26th and 27th and in some central areas of the North Island on the 27th as a trough crossed the country. An extensive anticyclone began to move onto New Zealand on the 28th and brought fine weather to most of the country until the end of the month, although Fiordland and Southland had further rain on the last two days.

J. S. HICKMAN, Director.

(N.Z. Met. S. Pub. 107)

