

LAND & DEEDS OFFICE

- 1 NOV 1982

GIBBORNE



# SUPPLEMENT

TO THE

# NEW ZEALAND GAZETTE

OF

THURSDAY, 14 OCTOBER 1982

*Published by Authority*

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WELLINGTON: TUESDAY, 19 OCTOBER 1982

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# CLIMATOLOGICAL TABLE FOR AUGUST 1982

NEW ZEALAND METEOROLOGICAL SERVICE

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

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	Hrs		
Cape Reinga	191	15.6	9.3	12.5	+0.3	18.4	13	7.1	19	32	17	-90	18	25	..
Kaitaia Airport	80	15.4	7.5	11.5	-0.5	17.2	21	3.4	20	40	21	-125	10	5	179
Aupouri Forest	69	15.4	9.0	12.2	-0.1	17.0	13	5.9	21	34	16	-104	5	5	..
Kaitaia	8	16.5	6.5	11.5	..	19.0	12	2.2	20	50	20	..	16	5	..
Kerikeri M A F	79	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Kerikeri Downs	79	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Kerikeri Aerodrome	150	15.3	6.3	10.8	..	18.2	21	2.5	20	19	13	..	4	15	..
Umawera	50	16.0	5.3	10.7	..	18.0	21	-0.2	20	33	14	..	7	2	..
Kaikohe	204	13.8	7.0	10.4	-0.4	16.3	21	3.6	17	29	18	..	6	5	150
Waiotemarama	229	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Waipoua Forest	88	14.8	6.3	10.6	-0.2	17.0	13	1.0	17	87	25	-104	11	18	..
Dargaville	20	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Waitangi Forest	55	15.9	6.8	11.4	-0.6	18.2	23	2.8	20	21	9	-144	9	15	167
Glenberrie Forest	107	14.9	3.8	9.4	-0.5	17.4	31	-1.4	17	30	17	-183	7	18	..
Whangarei Airport	37	15.3	7.0	11.2	-0.3	18.5	31	2.7	17	27	17	-133	6	25	..
Whangarei	29	15.7	5.7	10.7	-0.6	19.0	31	0.7	17	28	13	..	6	25	152*
Marsden Power Station	3	..	7.0	..	..	..	..	1.5	5	40	19	..	8	2	..
Poua	97	..	8.5	..	..	..	..	3.9	19	58	16	..	11	17	..
Leigh	27	15.1	9.5	12.3	+0.3	17.5	13	5.0	19	40	13	-96	9	29	159
Warkworth	72	14.3	6.0	10.2	-0.1	16.4	13	0.7	17	39	20	..	6	25	..
Oyster Point	0	14.8	6.4	10.6	..	17.0	13	0.2	17	32	20	..	5	18	..
Woodhill Forest	30	14.9	6.7	10.8	+0.2	17.2	13	-1.0	17	43	20	-97	9	18	..
Riverhead Forest	28	15.0	5.5	10.3	+0.1	16.5	13	-1.0	17	33	15	-119	11	11	..
Kumeu	32	14.9	5.6	10.3	..	16.9	13	-1.4	17	49	19	..	10	18	..
Whenuapai	26	15.0	6.1	10.6	+0.2	16.8	14	-0.3	17	37	22	-108	10	1	..
Albert Park, Auckland	49	15.3	8.5	11.9	+0.3	17.5	21	4.6	19	33	20	-109	8	1	150*
Owairaka, Auckland	41	14.7	7.1	10.9	+0.2	16.7	14	1.0	17	38	22	-112	6	25	..
Port Fitzroy	4	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Little Barrier Island	2	14.9	9.0	12.0	..	17.0	13	5.4	19	32	19	-143	6	6	..
Coromandel	43	15.0	5.9	10.5	..	17.6	13	-0.5	19	40	17	..	10	5	..
Whangapoua Forest	4	15.8	5.2	10.5	+0.1	19.3	1	-0.5	17	46	14	-155	12	5	..
Thames	3	14.6	7.4	11.0	-0.1	16.1	14	0.6	19	39	20	-85	9	1	..
Tairua Forest	3	15.1	5.4	10.3	+0.0	18.1	14	-0.7	19	41	13	-160	12	2	..
Paeroa	4	15.1	5.0	10.1	+0.2	16.9	29	-1.9	19	33	17	-104	13	1	..
Waihi	91	14.1	5.3	9.7	+0.1	16.4	14	-2.1	17	45	15	-194	19	18	140
Te Aroha	18	14.7	5.7	10.2	-0.1	16.2	13	-1.1	19	33	16	-122	8	1	..
Katikati	2	15.4	5.5	10.5	..	17.0	11	-0.4	19	32	11	..	9	1	..
Tauranga	2	15.1	6.9	11.0	+0.3	16.9	22	2.4	4	47	11	..	22	12	..
Tauranga Airport	4	14.8	5.4	10.1	-0.1	17.0	23	-1.2	19	31	11	-106	9	1	175
Te Puke	91	14.8	4.7	9.8	+0.0	17.0	21	-0.2	4	42	9	..	12	2	168
Rotoehu Forest	72	14.7	1.7	8.2	-0.5	17.4	23	-2.3	4	33	10	-140	9	1	..
Edgumbe	5	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Whakatane	2	15.5	4.9	10.2	+0.0	19.4	23	0.8	19	37	10	-93	13	5	187
Whakatane Airport	6	14.7	3.1	8.9	..	18.3	23	-1.8	4	35	11	..	11	5	..
Te Kaha	6	15.3	..	..	..	18.0	27	..	..	33	8	..	10	25	..
Port Ohope	9	15.2	6.1	10.7	..	18.9	23	1.7	4	44	11	..	12	5	197
Kinleith	383	11.9	3.0	7.5	-0.2	15.0	22	-3.2	19	43	14	-88	15	25	..
Tikitere	338	12.0	4.3	8.2	..	14.4	12	-1.0	19	25	9	..	8	1	..
Kawerau	30	15.3	4.4	9.9	-0.1	18.0	9	-1.0	4	35	9	-150	9	5	..
Te Teko	8	16.5	3.2	9.9	+0.0	19.5	12	-0.3	19	36	10	-119	11	5	185
Rotorua Airport	287	12.7	3.4	8.1	-0.3	15.5	23	-2.2	19	24	11	-123	6	1	148
Tarawera Forest	61	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Waiotapu Forest	435	12.0	2.2	7.1	+0.2	14.7	23	-4.7	29	42	8	-88	11	11	..
Atiamuri Power Station	253	13.1	1.5	7.3	-0.4	15.7	21	-4.1	19	32	16	-96	10	1	..
Kaingarua Forest	544	11.0	1.2	6.1	-0.6	14.2	22	-3.6	30	45	8	-97	10	11	..
Murupara	198	13.7	2.3	8.0	..	17.0	21	-3.0	19	33	6	-84	8	1	..
Wairapukao Forest	437	..	0.7	..	..	..	..	-5.2	4	42	9	-85	9	11	..
Taupo	376	12.0	2.0	7.0	-0.4	14.4	21	-3.3	19	25	16	-84	6	2	142
Wairakei Power Station	342	12.7	2.6	7.7	+0.1	15.8	22	-3.3	19	31	12	-86	9	2	..
Wairakei Research Station	402	12.5	1.5	7.0	-0.1	15.4	21	-4.4	19	29	9	-85	9	1	..
Minginui Forest	366	12.5	0.5	6.5	-0.1	16.9	23	-5.9	19	34	10	-103	10	1	..
Taupo Airport	407	11.6	1.9	6.8	..	13.5	22	-5.0	19	17	10	..	6	1	..
Waimihia Forest	743	8.6	0.8	4.7	-0.3	12.0	23	-4.0	4	47	13	-110	14	1	..
Opotiki	6	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Waimana	37	15.2	1.7	8.5	-0.4	19.0	23	-3.1	4	22	8	-151	4	5	..
Mangere, Auckland	4	14.5	7.7	11.1	+0.3	16.8	14	1.0	19	38	27	-97	8	1	146
Otara, Auckland	12	14.9	5.9	10.4	+0.0	16.7	13	0.2	17	31	20	-104	8	1	..
Auckland Airport	8	14.2	7.7	11.0	+0.1	15.8	13	3.0	17	35	20	-97	12	1	153
Ardmore	30	14.7	5.3	10.0	-0.3	17.0	13	0.1	17	38	19	-104	11	1	..
Pukekohe	82	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Maioro Forest	52	14.7	6.8	10.8	+0.1	16.5	27	0.4	19	50	17	-90	13	1	..
Hunua	122	14.0	4.6	9.3	..	15.7	27	-1.4	17	56	23	..	12	1	..
Maramarua Forest	38	14.6	4.0	9.3	-0.1	16.4	13	-1.9	19	60	16	-62	15	1	..
Te Kauwhata	32	14.8	4.9	9.9	-0.2	16.9	18	0.1	19	55	26	-62	10	29	122

CLIMATOLOGICAL TABLE—Summary of the Records of Temperature, Rainfall, and Sunshine for August 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	°C	mm	mm	mm	mm	Hrs		
Huntly	34	..	..	..	..	..	..	..	..	..	..	..	..	..	
Ruakura, Hamilton	40	14.5	4.1	9.3	-0.1	16.5	13	-3.1	17	45	18	-72	15	11	149
Whatawhata	104	13.8	5.6	9.7	+0.0	15.6	27	-1.1	19	66	23	-91	8	2	130
Rukuhia	66	14.6	5.0	9.8	+0.1	16.6	22	-0.2	19	31	15	-91	7	1	143
Hamilton Airport	50	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Cambridge	76	14.0	3.6	8.8	..	16.2	12	-2.6	19	43	15	..	15	5	..
Port Taharoa	27	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Mohakatino Station Mokau	46	13.5	6.4	10.0	-0.2	15.8	14	0.8	19	83	20	-69	21	1	..
Arapuni Power Station	123	14.2	..	..	..	16.9	12	..	..	45	15	-90	10	15	..
Waikeria	46	14.1	2.6	8.4	..	16.7	1	-3.6	19	56	16	..	14	18	..
Te Kuiti	61	14.2	4.3	9.3	+0.2	16.2	12	-2.1	19	72	22	-78	13	1	125
Wairere	122	13.5	3.7	8.6	..	15.9	29	-2.4	19	91	26	-54	14	1	..
Pureora Forest	549	10.0	1.7	5.9	-0.3	14.0	27	-6.5	17	85	22	-80	15	2	..
Taumarunui	171	13.6	3.0	8.3	-0.2	16.3	12	-3.5	19	78	22	-46	14	1	113
Omata	61	..	..	..	..	..	..	..	..	..	..	..	..	..	..
New Plymouth	55	14.0	5.9	10.0	..	16.2	27	-0.7	19	79	21	..	19	5	..
New Plymouth Airport	27	14.0	5.1	9.6	-0.1	15.8	14	-1.1	19	59	17	-88	14	17	184
Tikorangi	77	13.9	4.9	9.4	..	16.2	23	-0.5	19	82	22	..	20	17	..
North Egmont	955	7.8	1.1	4.5	..	11.5	22	-3.0	19	245	22	..	38	2	..
Te Wera Forest	180	12.8	1.5	7.2	-0.6	15.0	12	-4.3	12	63	14	-105	12	1	..
Lower Retaruke	223	13.0	2.9	8.0	+0.2	15.9	27	-3.1	16	74	22	..	12	25	..
Turangi	366	12.0	1.4	6.7	-0.5	15.1	21	-4.1	17	57	13	..	17	2	152
Chateau, Mt Ruapehu	1119	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Mangamutu, Pahiatua	116	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Mt Bruce Reserve	305	12.3	1.8	7.1	+0.3	16.6	21	-4.1	17	139	12	..	43	1	..
Waingawa, Masterton	114	14.0	2.2	8.1	+0.0	17.8	24	-2.0	4	43	15	-48	9	25	177
Kopua	311	12.1	3.3	7.7	+0.1	16.0	14	-3.1	17	34	12	-78	9	1	..
Waipukurau	137	13.4	2.4	7.9	-0.2	17.9	14	-2.1	4	22	12	-64	4	16	182*
Dannevirke	207	12.6	3.6	8.1	+0.0	15.1	13	-2.9	17	44	13	-55	13	1	150
Porangahau	8	14.0	5.0	9.5	..	17.5	14	-0.6	17	21	11	..	6	1	..
Castlepoint	3	13.5	7.3	10.4	+0.5	17.1	20	2.9	17	29	11	-75	6	11	..
Ngaumu Forest	244	12.9	2.3	7.6	+0.6	16.1	22	-3.5	17	38	13	-99	8	25	..
Tauherenikau, Alloa	43	13.8	2.9	8.4	-0.1	17.4	9	-1.7	17	53	13	-46	12	25	..
Gladstone, Arahura	116	13.5	1.8	7.7	-0.3	16.6	22	-4.0	14	33	10	-79	9	25	..
Waiorongomai	21	12.8	3.9	8.4	+0.0	15.6	22	-1.8	17	67	13	-75	15	25	..
Cape Palliser	10	13.9	7.2	10.6	+0.6	18.5	22	2.1	17	34	13	-70	13	31	..
East Cape	17	14.6	7.3	11.0	-0.6	18.5	23	2.6	4	28	11	-124	10	6	..
Ruatoria	61	15.6	4.1	9.9	-0.2	19.4	23	-1.7	4	15	8	-203	5	15	..
Mangatu Forest	182	14.1	3.5	8.8	-0.1	19.0	24	-2.0	4	26	9	-124	9	15	..
Manutuke Gisborne	9	14.9	2.4	8.7	-1.1	19.6	22	-1.2	4	18	9	-91	5	26	..
Gisborne Airport	4	14.8	3.7	9.3	-0.6	18.9	22	-0.9	4	24	7	-93	8	15	200
Onepoto, Waikaremoana	643	11.6	3.1	7.4	+0.6	18.7	22	-0.8	4	75	15	-151	16	15	..
Wharerata Forest	439	..	..	..	..	..	..	..	..	80	..	..	26	18	..
Esk Forest	427	12.1	3.8	8.0	+0.4	17.6	22	-1.4	17	66	13	-117	15	11	..
Kaweka Forest	414	12.2	4.9	8.6	+0.4	16.4	14	-0.5	17	51	11	..	12	11	..
Napier Airport	2	14.8	3.4	9.1	..	19.1	25	-1.6	28	15	9	-71	3	1	..
Napier	2	15.0	3.7	9.4	-0.4	19.3	14	-1.4	4	16	10	-65	3	25	195
Hastings	16	14.8	2.5	8.7	..	20.2	14	-2.6	4	19	10	..	4	25	..
Havelock North	9	14.4	1.8	8.1	-0.7	19.7	14	-2.9	4	19	9	-65	6	25	183
Gwavas Forest	335	12.3	1.7	7.0	+0.2	17.1	14	-2.6	4	31	14	-101	8	1	..
Makaretu	335	13.0	2.1	7.6	+0.0	17.5	14	-4.0	30	32	18	..	7	1	..
Mohaka Forest	286	13.4	3.7	8.6	+0.2	18.0	22	-1.1	4	51	13	-114	10	15	..
Frasertown, Wairoa	8	15.0	4.3	9.7	-0.2	19.0	9	-0.5	4	68	17	-87	20	11	..
Wairoa	20	14.7	3.8	9.3	-0.6	18.5	22	-0.8	4	45	10	..	11	18	189
Portland Island	78	12.8	8.4	10.6	-0.1	16.5	14	5.3	4	7	10	-105	2	18	..
Kapiti Island	16	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Paraparaumu Airport	7	13.0	5.6	9.3	+0.2	15.5	14	-1.2	19	49	12	-42	17	31	160
Flockhouse, Bulls	9	13.2	4.5	8.9	+0.0	15.4	5	-3.2	17	50	14	-31	17	1	..
Ohakea	48	13.0	5.6	9.3	+0.0	15.2	14	-1.5	17	38	15	-43	11	1	140
Wharite Peak	914	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Kairanga Palmerston North	15	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Palmerston North Airport	45	13.1	3.8	8.5	-0.2	15.7	14	-4.5	17	32	12	-47	14	1	..
Palmerston North D S I R	34	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Foxton	3	..	..	..	..	..	..	..	..	50	15	-31	16	17	..
Tiritea	100	12.6	4.8	8.7	..	15.3	23	-1.2	19	56	14	..	17	1	..
Waitarere Forest	3	13.2	4.6	8.9	+0.1	15.6	23	-2.0	16	43	12	-33	14	1	..
Levin	46	12.9	5.1	9.0	-0.2	16.0	23	-1.3	19	60	15	-37	12	1	126
Titahi Bay	31	13.3	5.8	9.6	..	16.7	23	-1.4	19	28	7	..	12	25	..
Taita, Lower Hutt	65	13.1	4.6	8.9	+0.1	16.8	22	-1.0	17	60	12	-72	19	31	..
Avalon, Lower Hutt	15	13.1	5.4	9.3	+0.4	16.1	20	0.0	16	55	13	-100	19	31	..
Kelburn, Wellington	125	12.5	6.3	9.4	+0.5	16.1	20	1.3	17	67	12	-57	36	25	175
Somes Island	43	12.4	6.6	9.5	..	15.0	20	2.0	17	56	10	..	27	25	..
Gracefield, Lower Hutt	34	12.9	6.1	9.5	+0.1	15.5	4	0.2	17	48	10	-92	18	31	..
Wainuiomata	82	12.7	4.3	8.5	+0.3	16.0	23	-1.1	17	53	11	..	17	25	..
Wellington Airport	6	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Rimutaka Forest	40	13.1	4.8	9.0	..	16.8	23	-1.5	17	57	10	..	28	25	..
Kaitoke	223	12.0	2.3	7.2	-0.1	15.4	23	-3.7	9	101	20	-100	30	31	149

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		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	
Wallaceville	56	13.1	3.4	8.3	+0.2	16.4	23	-3.0	19	62	13	-57	20	31	156
Cape Egmont	8	13.8	7.0	10.4	+0.1	15.4	14	-1.5	19	51	24	-89	11	17	..
Oaonui	30	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Stratford Mountain House	846	8.1	0.5	4.3	+0.0	12.0	22	-2.6	17	190	19	-458	39	1	..
Stratford Dem. Farm	311	12.1	3.2	7.7	-0.1	15.2	14	-1.6	19	85	14	-128	17	1	177
Manaia Dem. Farm	98	12.7	5.1	8.9	+0.0	16.7	22	-1.1	16	76	23	-41	14	1	149
Normanby	122	12.4	4.7	8.6	..	14.8	14	-1.6	16	56	20	..	17	1	..
Patea	43	13.3	6.6	10.0	+0.2	16.0	14	0.0	17	54	12	-33	16	17	..
Ruatiti	354	11.6	2.9	7.3	..	14.5	27	-3.2	17	90	22	..	19	2	..
Ohakune Junction	629	9.5	1.3	5.4	..	12.5	27	-4.1	17	76	24	..	19	1	..
Karioi	648	9.9	1.0	5.5	-0.3	13.5	27	-5.6	17	64	18	-38	13	2	..
Waiouru	823	8.9	0.0	4.5	-0.2	12.5	27	-8.0	19	51	19	-48	12	2	..
Waiouru Military Camp	823	8.5	0.1	4.3	-0.1	11.6	13	-7.0	19	56	22	-51	14	2	..
Ahu Ahu Valley	85	13.7	3.4	8.6	..	15.9	4	-3.2	19	64	22	..	17	1	..
Taihape	433	11.9	1.2	6.6	-0.2	14.8	21	-4.7	19	51	17	..	15	2	..
Kahui, Taihape	518	10.9	2.3	6.6	-0.5	14.3	21	-2.9	19	44	13	..	11	1	..
Patupa	24	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Wanganui	22	13.6	5.8	9.7	+0.1	17.0	14	0.4	17	47	14	-29	14	1	148
Wanganui Airport	9	13.8	5.4	9.6	..	16.4	14	-0.8	30	38	11	..	12	17	..
Farewell Spit	3	14.4	4.9	9.7	+0.0	18.1	20	0.0	19	46	11	-71	10	25	..
Totaranui	10	14.2	4.7	9.5	..	17.5	14	0.7	19	45	8	..	15	31	..
Westport Airport	2	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Cobb Dam	823	8.6	0.2	4.4	+0.6	12.0	20	-3.8	19	118	17	-98	38	1	..
Arapito	20	13.1	5.5	9.3	..	15.0	4	0.6	19	219	20	..	49	31	105
Lake Rotoroa	443	10.4	1.3	5.9	..	13.7	27	-4.3	19	137	17	..	44	1	..
Lake Rotoiti	634	10.2	-0.8	4.7	+0.4	13.7	20	-6.8	19	85	16	-65	29	1	..
Hokitika Airport	39	12.3	4.4	8.4	+0.4	14.1	12	0.0	3	189	24	-47	27	13	115
Reefton	198	11.4	3.0	7.2	+0.8	14.9	27	-2.8	19	130	20	-38	28	13	..
Barrytown	30	12.6	7.0	9.8	..	14.0	12	4.2	3	202	25	..	42	31	..
Totara Flat	77	12.2	3.7	8.0	+1.0	15.5	6	-1.5	19	149	21	-11	31	31	..
Greymouth	4	12.1	5.2	8.7	-0.2	13.9	12	0.5	3	197	25	+6	32	31	87
Otira Substation	383	9.8	1.4	5.6	..	13.5	27	-3.5	19	595	22	+204	108	31	..
Springs Junction	421	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Hari Hari	45	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Franz Josef	122	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Fox Glacier	152	11.2	2.4	6.8	..	13.4	11	-0.7	19	439	19	+65	66	1	..
Milford Sound	3	10.6	2.8	6.7	-0.1	14.3	20	-0.3	12	697	25	+273	190	30	..
Puysegur Point	43	11.1	6.6	8.9	..	13.6	4	2.5	16	178	30	+0	20	24	..
Stephens Island	187	11.7	7.4	9.6	..	14.5	23	0.1	15	27	13	-47	9	25	..
Riwaka, Motueka	8	14.6	2.5	8.6	+0.6	18.8	22	-2.3	19	41	9	-99	10	25	200
Tapawera	146	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Craig Bay Pelorus Sd	13	13.5	6.3	9.9	..	19.0	22	0.8	19	50	9	..	26	31	..
Appleby	17	14.1	3.7	8.9	+0.7	17.9	20	-1.6	19	32	6	-62	12	25	..
Nelson Airport	2	13.8	3.0	8.4	+0.9	17.4	20	-2.0	19	23	6	-71	8	25	199
Rai Valley	79	14.3	1.6	8.0	+0.6	18.4	23	-5.3	19	66	6	-132	26	31	..
Moutere Hills	110	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Blenheim Airport	27	15.0	2.7	8.9	+1.1	19.8	24	-2.4	19	18	7	-53	6	25	..
Brancott Valley	64	15.1	2.7	8.9	..	19.7	24	-2.3	16	15	7	..	7	25	..
Blenheim	4	15.6	2.7	9.2	+1.0	20.3	24	-2.6	19	14	8	-47	5	25	203
Waihopai Power Station	262	13.8	1.5	7.7	+0.7	18.8	20	-3.0	19	25	6	-54	15	25	..
Vernon Lagoons	2	15.2	2.1	8.7	+0.9	19.9	22	-3.2	19	14	7	..	5	13	199
Lake Grassmere	2	13.9	4.1	9.0	+0.8	19.3	22	-3.5	18	5	1	-48	5	25	201
Cape Campbell	3	13.3	6.9	10.1	+1.4	16.4	22	4.1	16	10	4	-54	6	25	..
Hanmer Forest	387	13.3	0.3	6.8	+1.4	17.2	22	-5.0	19	51	11	-63	14	25	138
Molesworth	893	9.5	-2.3	3.6	+0.8	14.6	24	-8.6	19	18	7	-40	6	25	..
Kaikoura Flats	24	13.9	2.3	8.1	..	19.9	25	-1.6	17	25	7	..	7	25	..
Kaikoura	108	13.2	5.7	9.5	+1.3	20.2	31	1.9	16	18	7	-63	5	17	189
Arthurs Pass	738	7.4	-0.8	3.3	..	10.5	27	-5.0	3	340	18	+35	57	13	..
Balmoral Forest	198	14.0	1.2	7.6	+1.7	18.1	9	-4.5	17	28	10	-30	6	25	..
Waiau	137	..	..	..	..	..	..	..	..	..	..	..	..	..	..
The Hermitage, Mt Cook	765	9.6	0.0	4.8	+1.2	15.6	9	-5.8	18	392	16	+110	60	25	116
Mt John	1027	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Craigieburn Forest	914	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Lake Coleridge	364	13.5	0.8	7.2	+1.6	17.6	24	-3.2	19	65	11	-14	17	25	..
Highbank Power Station	336	12.8	3.8	8.3	+1.7	16.9	22	-2.0	18	55	14	-19	14	14	170
Hororata Substation	192	14.9	1.1	8.0	+2.0	21.4	24	-4.4	17	57	14	-7	13	14	..
Winchmore	160	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Peel Forest	274	14.2	0.6	7.4	..	21.2	24	-3.5	..	59	16	..	15	25	..
Ashburton	101	14.5	1.7	8.1	+1.3	22.1	24	-2.6	16	23	9	-38	8	25	163
Waipara	64	14.6	3.9	9.3	..	18.4	9	-2.8	16	15	9	..	8	17	..
Ashley Forest	107	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Rangiora	46	14.8	0.7	7.8	+1.0	20.0	31	-5.0	17	21	8	-32	9	17	..
Darfield	195	14.9	3.1	9.0	+2.4	19.1	22	-2.6	16	44	8	-20	16	17	..
Eyrewell Forest	158	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Christchurch Airport	30	14.1	1.5	7.8	+1.1	19.4	25	-4.0	16	14	8	-39	7	17	190
Templeton	46	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Christchurch	7	14.1	2.0	8.1	+0.8	20.0	24	-2.2	16	15	6	-38	9	17	..

CLIMATOLOGICAL TABLE—Summary of the Records of Temperature, Rainfall, and Sunshine for August 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	°C	mm	mm	mm	mm	Hrs	
Bromley, Christchurch	9	13.6	3.9	8.8	+1.3	18.9	22	-1.8	16	14	7	-37	6	17	
Mt Pleasant	137	13.7	5.5	9.6	+1.5	19.5	24	-1.5	18	17	6	-44	8	17	
Lincoln	11	14.0	2.3	8.2	+1.5	19.9	24	-4.3	16	23	7	-33	9	25	
Akaroa	3	14.8	1.9	8.4	..	21.8	23	-2.0	16	48	7	..	13	16	
Lake Tekapo	683	9.9	-0.8	4.6	+1.0	14.5	21	-9.0	18	54	11	+6	19	25	
Lake Pukaki	556	..	..	..	..	..	..	..	..	..	..	..	..	..	
Fairlie	304	14.3	-1.8	6.3	..	20.5	23	-6.6	26	32	7	..	16	25	
Twizel	457	..	..	..	..	..	..	..	..	..	..	..	..	..	
Ikawai	70	15.0	0.3	7.7	+1.6	20.5	24	-5.0	16	12	5	..	6	25	
Geraldine	119	14.8	0.7	7.8	..	21.3	24	-4.2	17	42	7	..	16	31	
Orari Estate	81	14.6	0.4	7.5	+1.8	21.8	24	-4.2	17	40	9	-16	15	31	
Temuka	24	14.5	0.6	7.6	+1.4	22.0	24	-4.5	17	24	8	-19	11	25	
Timaru Airport	26	14.3	0.3	7.3	+1.5	22.0	24	-4.0	17	17	8	-24	8	25	
Adair	85	14.1	3.2	8.7	+1.9	21.9	24	-0.7	17	21	7	-20	8	25	
Timaru	17	13.3	2.2	7.8	+1.0	21.9	24	-3.1	17	18	8	-20	8	25	
Waimate	61	14.9	2.4	8.7	+1.6	..	..	-1.5	13	19	6	-22	9	25	
Kurow	207	..	..	..	..	..	..	..	..	..	..	..	..	..	
Oamaru Airport	30	13.8	2.0	7.9	+1.8	19.9	9	-2.9	17	8	7	-25	2	25	
Tara Hills, Oamarua	488	11.2	-0.2	5.5	+1.8	15.7	9	-4.6	17	55	13	+25	21	25	
Lake Hawea	350	..	..	..	..	..	..	..	..	..	..	..	..	..	
Wanaka	296	12.1	1.2	6.7	+1.5	16.2	21	-3.7	16	88	13	+37	22	25	
Queensberry	277	11.9	2.0	7.0	..	16.6	21	-3.2	16	58	12	..	22	25	
Bendigo	200	12.7	2.0	7.4	..	17.5	21	-4.2	16	43	12	..	25	25	
Naseby Forest	610	..	..	..	..	..	..	..	..	..	..	..	..	..	
Windsor	88	..	..	..	..	..	..	..	..	..	..	..	..	..	
Oamaru	5	14.5	3.2	8.9	..	20.5	10	-1.7	17	14	6	..	4	22	
Ranfurlly	427	10.8	-0.4	5.2	..	16.3	10	-7.1	26	36	9	..	18	25	
Herbert Forest	61	14.8	1.0	7.9	+1.7	20.5	10	-3.8	17	26	10	-17	5	17	
Palmerston	21	14.5	0.9	7.7	+1.7	19.8	10	-6.0	17	17	7	..	5	2	
Cherry Farm Hospital	6	14.5	2.1	8.3	+1.9	19.2	25	-2.2	17	24	10	-12	7	2	
Taiaroa Head	72	12.5	5.1	8.8	+1.5	17.7	24	0.3	3	23	13	-15	5	31	
Invermay, Taieri	30	13.4	2.3	7.9	..	18.9	24	-3.8	16	44	16	..	11	2	
Berwick Forest	18	..	..	..	..	..	..	..	..	..	..	..	..	..	
Dunedin Airport	1	13.1	1.5	7.3	+1.1	19.2	24	-5.2	13	32	13	-6	9	17	
Musselburgh, Dunedin	2	12.9	4.1	8.5	+1.2	19.2	24	-1.0	26	47	11	+1	11	2	
Te Anau	215	10.9	2.6	6.8	+1.5	14.6	4	-3.2	18	127	15	+41	30	1	
West Arm, Manapouri	232	..	..	..	..	..	..	..	..	..	..	..	..	..	
Borland Burn	183	..	..	..	..	..	..	..	..	..	..	..	..	..	
Queenstown	329	11.1	1.7	6.4	+0.9	15.4	9	-2.9	15	100	14	+39	19	30	
Queenstown Airport	349	10.8	0.1	5.5	+0.6	15.2	9	-4.0	16	110	12	+65	23	25	
Otama	183	..	..	..	..	..	..	..	..	..	..	..	..	..	
Cromwell	213	12.5	1.0	6.8	+1.6	17.8	21	-5.0	16	36	12	+13	16	25	
Northburn	210	12.6	1.2	6.9	..	17.2	24	-3.7	16	37	11	..	17	25	
Lauder	370	11.3	1.2	6.3	..	16.2	10	-8.2	26	38	11	..	24	25	
Clyde Dam	160	12.9	1.3	7.1	..	17.5	24	-4.0	17	34	12	..	15	25	
Ophir	305	11.6	-1.4	5.1	+0.8	15.5	8	-8.6	25	43	7	+23	25	25	
Moa Creek	427	..	..	..	..	..	..	..	..	33	9	+18	15	25	
Earnsclough	152	13.0	0.1	6.6	+1.8	19.4	10	-6.1	16	43	12	+25	26	25	
Roxburgh Power Station	110	13.2	2.4	7.8	+1.4	18.0	24	-4.5	16	30	8	+5	8	25	
Deep Stream	396	..	..	..	..	..	..	..	..	..	..	..	..	..	
Beaumont	46	13.0	1.4	7.2	..	19.2	9	-4.5	16	110	18	+54	22	31	
Mahinerangi Dam	396	10.2	0.7	5.5	+1.3	15.8	24	-4.5	16	83	17	+32	18	31	
Tapanui	226	11.2	2.7	7.0	+0.7	16.5	24	-3.6	16	80	15	+29	18	31	
Taieri Mouth	15	12.5	2.3	7.4	+1.0	19.1	24	-2.6	16	51	11	+13	13	2	
Tuatapere	27	12.3	3.2	7.8	..	16.3	21	-2.1	16	131	16	..	20	17	
Otautau	55	12.2	2.5	7.4	+1.4	16.4	21	-3.3	16	137	16	+61	24	24	
Winton	44	12.3	1.9	7.1	+0.7	16.0	9	-3.5	16	83	16	+35	18	24	
Gore	123	11.6	2.6	7.1	+1.5	15.5	24	-3.4	16	84	19	..	16	31	
Hokonui Forest	46	12.1	2.4	7.3	+1.0	16.4	9	-4.5	16	64	14	+3	21	24	
Woodlands	47	11.9	2.8	7.4	+0.8	15.8	9	-3.2	16	105	28	..	16	24	
Invercargill Airport	0	11.8	2.8	7.3	+1.1	16.0	9	-2.9	16	97	23	+31	18	24	
Tiwai Point, Bluff	5	11.2	4.3	7.8	+0.6	15.6	9	-1.3	16	120	25	..	17	24	
Stewart Island	3	11.2	4.7	8.0	..	15.5	9	-1.5	16	176	31	..	35	30	
Milton	18	12.4	1.5	7.0	+1.1	18.9	24	-4.5	16	51	13	+13	11	2	
Finegand, Balclutha	6	..	..	..	..	..	..	..	..	..	..	..	..	..	
Owaka	5	12.3	2.1	7.2	..	17.4	24	-4.8	16	63	17	..	12	17	
Nugget Point	129	11.4	3.7	7.6	+1.2	17.5	24	0.4	16	49	24	-2	8	17	
Tautuku	61	12.4	3.7	8.1	..	17.0	24	-3.2	26	101	22	..	14	17	
Nandi Airport, Fiji	19	27.8	19.2	23.5	-0.1	31.2	2	14.9	30	61	10	..	25	22	
Rarotonga Airport	7	24.0	18.4	21.2	-0.3	25.5	6	15.4	3	84	15	-38	28	13	
Totokoitu, Rarotonga	9	..	..	..	..	..	..	..	..	..	..	..	..	..	
Raoul Island	38	17.8	11.8	14.8	-1.2	19.6	1	8.3	21	104	16	-33	31	11	
Campbell Island	15	8.0	2.6	5.3	+0.3	9.9	3	-1.7	18	143	30	+34	20	13	
Waitangi, Chatham Island	44	10.8	5.9	8.4	+0.3	13.5	26	0.9	18	37	18	-52	8	20	
Scott Base, Antarctica	16	-19.8	-31.9	-25.9	+5.3	-9.6	11	-52.4	24	..	..	..	..	..	

CLIMATOLOGICAL TABLE—Summary of the Records of Temperature, Rainfall, and Sunshine for August 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	
		°C	°C	°C	°C	°C	°C	°C	°C	mm	mm	mm	Hrs		
LATE RETURNS AND CORRECTIONS															
Waiotemarama 04/1982	229	17.9	11.1	14.5	..	19.9	7	7.3	28	159	17	..	46	8	..
Woodhill Forest 06/1982	30	14.9	4.4	9.7	-1.4	18.9	3	-1.5	19	82	13	-63	17	24	..
Woodhill Forest 07/1982	30	14.2	4.1	9.2	-1.0	18.1	20	-3.4	11	128	14	-12	50	28	..
Port Fitzroy 07/1982	4	14.7	7.2	11.0	-0.6	17.9	20	1.1	12	134	20	-67	55	28	..
Little Barrier Island 06/1982	2	..	..	..	..	..	..	..	..	109	14	-59	41	4	..
Little Barrier Island 07/1982	2	..	8.6	..	..	..	..	3.9	23	105	19	-50	49	28	..
Thames 07/1982	3	13.2	5.9	9.6	-0.6	18.7	20	-2.2	10	121	14	-6	56	28	..
Tairua Forest 07/1982	3	13.6	4.4	9.0	-0.7	18.4	31	-2.1	10	115	13	-73	41	28	..
Te Kauwhata 07/1982	32	12.8	2.7	7.8	-1.3	17.7	31	-5.0	10	61	15	-61	11	20	135
Huntly 07/1982	34	13.0	3.4	8.2	..	17.4	31	-4.0	11	66	..	..	19	14	..
Port Taharoa 07/1982	27	13.7	6.9	10.3	-0.6	16.3	29	1.8	11	74	..	..	..	..	..
Lower Retaruke 07/1982	223	11.4	-0.4	5.5	-1.1	15.4	29	-6.5	2	111	13	..	22	31	..
Chateau, Mt Ruapehu 07/1982	1119	..	-2.4	..	..	..	..	-7.7	8	207	14	-62	44	20	..
Wharerata Forest 07/1982	439	..	..	..	..	..	..	..	..	194	17	..	39	21	..
Esk Forest 07/1982	427	..	2.6	..	..	..	..	-3.6	8	146	10	-22	42	20	..
Makaretu 07/1982	335	10.8	2.1	6.5	-0.3	16.0	31	-4.5	25	96	17	..	33	20	..
Portland Island 07/1982	78	11.7	7.3	9.5	-0.7	17.3	20	4.3	23	96	18	-26	14	29	..
Hari Hari 07/1982	45	11.8	..	..	..	16.9	28	..	..	171	10	-70	35	18	..
Stephens Island 07/1982	187	10.7	7.0	8.9	..	13.0	30	-0.9	5	33	13	-51	11	19	..
Christchurch 07/1982	7	10.9	0.4	5.7	-0.2	18.3	31	-3.2	24	58	11	+0	22	19	..
Akaroa 07/1982	3	11.0	..	..	..	17.5	31	..	..	124	17	..	20	29	..
Naseby Forest 07/1982	610	5.1	-5.1	0.0	-1.6	10.2	30	-9.8	1	19	3	-14	13	13	..
Windsor 07/1982	88	9.8	1.0	5.4	..	15.3	17	-2.4	21	2	2	..	1	29	..
Oamaru 07/1982	5	10.9	2.1	6.5	..	17.1	17	-3.0	25	3	4	..	1	21	..
Herbert Forest 07/1982	61	11.0	-1.1	5.0	+0.2	16.0	17	-3.8	25	11	8	-51	3	29	..
Taiaroa Head 07/1982	72	9.0	4.0	6.5	-0.3	14.0	17	1.9	19	31	15	-17	8	18	..
Borland Burn 07/1982	183	6.6	-1.6	2.5	..	12.0	26	-4.0	16	121	..	..	26	17	..
Otama 07/1982	183	7.3	-1.2	3.1	..	12.7	31	-6.9	2	71	16	+23	20	14	..
Moa Creek 07/1982	427	..	..	..	..	..	..	..	..	14	5	-1	6	15	..
Nandi Airport, Fiji 07/1982	19	28.6	20.2	24.4	+0.8	31.5	29	16.4	15	127	12	..	56	18	148
Totokoitu, Rarotonga 06/1982	9	25.0	19.5	22.3	..	28.4	18	15.0	24	93	15	..	33	19	..
Raoul Island 06/1982	38	19.2	14.3	16.8	-0.5	22.5	17	11.0	29	181	18	+31	37	16	104
Campbell Island 04/1982	15	10.1	6.1	8.1	+1.0	11.9	27	0.4	8	79	24	-43	16	29	34
Campbell Island 05/1982	15	9.2	5.3	7.3	+1.2	13.9	7	-0.9	20	239	28	+99	106	22	11
Campbell Island 06/1982	15	7.9	3.9	5.9	+1.1	9.6	1	-0.1	27	57	28	-73	12	21	4
Campbell Island 07/1982	15	6.9	3.4	5.2	+0.6	9.3	26	-3.0	16	93	28	-14	15	30	13

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—AUGUST 1982

*General*—August was generally a dry, sunny month that was slightly cooler than usual in the North Island but mild in the South Island.

In the north winds were generally lighter than usual and south-westerly winds were much more frequent than normal. South-westerlies were also very frequent in the south and Invercargill has its greatest frequency of both south-westerly winds and strong winds since 1964.

The dry, sunny conditions experienced in most districts suited lambing but farmers in drier areas, especially the Kaikoura Coast and mid-Canterbury, are experiencing feed shortages for stock. Snowfall in Southland on the 26th caused some stock losses.

Galeforce winds and thunderstorms were widespread on the 2nd as an active front crossed the country, and a tornado, at Netherton (near Paeroa) caused some damage locally.

*Rainfall*—It was a very dry month in the North Island, with most areas recording less than half their normal August rainfall. Many eastern areas and some parts of Northland recorded less than 20 percent of their usual rainfall. Rainfall totals for the North Island for the year to date are between 70 percent and 90 percent of normal, with central and southern areas having the greatest departures. Lake levels are consequently very low for this time of the year.

In the South Island most northern and eastern areas recorded less than half their normal August rainfall. The driest areas were the Kaikoura coast, where between 10 percent and 25 percent of normal rainfall was recorded, and coastal Canterbury where between 20 percent and 50 percent of the usual month's rainfall was received. Drought conditions continued in these areas, which have had only 50 percent to 70 percent of their usual rainfall for the year to date.

In contrast southern Westland, Fiordland, Southland and Central Otago had above average rainfall this month, with some parts of Central Otago recording more than twice their usual August rainfalls.

*Temperatures*—Average temperatures in the North Island were between normal and 1.0°C below normal in northern areas and up to 0.5°C above normal in the south. August was relatively mild in the South Island, with most areas averaging temperatures about 1°C above normal with parts of Canterbury up to 2°C above normal. This was mostly due to high daytime temperatures, these being up to 3°C above average for the month. Some high temperatures were recorded during a warm spell between the 22nd and 25th. On the 24th 22.1°C was recorded at Ashburton 21.9°C at Timaru and 21.4°C at Hororata, the warmest August temperatures for over 10 years.

*Sunshine*—August was generally sunny, with the only areas to record less sunshine than usual being the west coast of the South Island and Southland. Eastern areas were particularly sunny, with Gisborne recording its highest August total since opening in 1937, Masterton its highest for August since 1935 and Christchurch its second highest for August since opening in 1949.

Among those stations recording high sunshine totals were: Gisborne (+52 hrs), Masterton (+47 hrs), Wellington (+44 hrs), Christchurch (+42 hrs), Napier (+41 hrs), Timaru (+35 hrs), and Kaikoura and New Plymouth (both +31 hrs).

## THE WEATHER SEQUENCE—AUGUST 1982

## 1-7 August

A shallow trough lay over New Zealand on the 1st, with an associated weak frontal system lying to the west of the country. As this trough crossed the country rain fell in all districts, except those on the east of the South Island, on the 1st and over most of the North Island and south of the South Island on the 2nd. An extensive anticyclone, centred near Lord Howe Island had begun to spread onto New Zealand by the 3rd and rain cleared from most districts, although the ensuing south-westerly flow over the south of the South Island brought some showers to western areas on the 4th. Northern and eastern areas had light rain on the 5th and 6th and the passage of a cold front on the 7th brought isolated falls in some districts but the weather was otherwise fine and cool under the influence of a belt of high pressure across the country.

## 8-14 August

During the 8th and 9th an extensive anticyclone, centred close to Australia, covered the Tasman Sea and extended onto New Zealand, bringing generally fine, mild weather. Although this anticyclone still covered the North Island on the 10th a strong disturbed south-westerly flow developed over the South Island. A front within this flow brought heavy rain to the south and west of the South Island on the 10th with lighter falls over the North Island on the 11th. There was further rain in many parts of the South Island on the 13th as a second front crossed the country. By the 14th the anticyclone had moved away to the east and a trough moved onto the country, bringing light rain to many areas.

## 15-21 August

The trough and its associated front, which moved onto the country at the end of the second week, continued to bring light rain to many areas, particularly in the North Island as it moved eastward during the 15th and 16th. During the 16th a belt of high pressure extended across the country with strong westerly flows developing to the south. A cold front within the flow moved onto the South Island on the 17th and rain fell in southern and western areas of both Islands. There were some isolated light showers on the 18th but by the 19th the front had moved east of the country and a ridge from an anticyclone in the eastern Tasman Sea extended onto New Zealand. The weather became generally fine and cool during the next two days apart from isolated falls of rain in western areas of the South Island.

## 22-31 August

Although a belt of high pressure still extended over the North Island on the 22nd there was a disturbed westerly to south-westerly flow onto the South Island. A front within this flow brought heavy rain to Fiordland and Westland on the 22nd and lighter falls in other southern areas. A second, more extensive front brought further rain to western parts of the South Island on the 24th and there were heavy falls in most districts as this front crossed the country during the 25th. This rain cleared, apart from isolated light falls in eastern and central areas of the North Island, during the 26th as the front moved eastward off the country. Fine, cool weather continued as a ridge from an anticyclone over southern Australia extended onto New Zealand on the 27th, although there were some showers in Westland and Fiordland due to a front lying to the south-west. These showers spread into western and southern areas of both Islands on the 28th as the front crossed the country. Isolated showers continued in some districts on the 29th but the weather was otherwise fine. A complex trough began to move onto the country on the 30th, bringing heavy rain to Westland and Fiordland, and as this trough and an associated front moved eastwards rain spread over most of the South Island and the south of the North Island on the 31st.

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

J. S. HICKMAN, Director.

