



LAND & DEEDS OFFICE

23 SEP 1982

GISBORNE

SUPPLEMENT

TO THE

NEW ZEALAND GAZETTE

OF

THURSDAY, 16 SEPTEMBER 1982

Published by Authority

WELLINGTON: MONDAY, 20 SEPTEMBER 1982

CLIMATOLOGICAL TABLE FOR JULY 1982

CLIMATOLOGICAL TABLE—Summary of the Records of Temperature, Rainfall, and Sunshine for July 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			
Huntly	34	..	..	..	..	..	..	..	..	..	..	..	..	..
Ruakura, Hamilton	40	12.8	2.5	7.7	-0.6	16.9	31	-5.6	12	70	14	-47	16	14	133
Whatawhata	104	12.8	3.5	8.2	-0.6	17.0	31	-3.6	10	106	15	-57	22	20	121
Rukuhia	66	12.9	3.6	8.3	-0.3	17.2	31	-3.6	12	60	15	-67	14	14	135
Hamilton Airport	50	13.4	1.4	7.4	-0.4	17.1	31	-6.5	12	72	14	-45	16	14	..
Cambridge	76	12.5	2.6	7.6	..	16.5	31	-6.2	11	63	14	..	15	28	..
Port Taharoa	27	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Mohakatino Station Mokau	46	13.0	5.4	9.2	-0.3	15.9	27	0.2	11	99	12	-79	18	19	..
Arapuni Power Station	123	12.1	2.4	7.3	-0.7	16.5	31	-4.5	11	75	14	-70	17	28	..
Waikeria	46	12.6	1.5	7.1	..	16.8	31	-6.7	11	77	14	..	15	20	..
Te Kuiti	61	12.8	2.6	7.7	-0.3	16.8	31	-3.3	7	97	13	-58	21	30	111
Wairere	122	12.3	1.2	6.8	..	16.0	30	-6.2	10	119	13	-41	21	14	..
Pureora Forest	549	..	0.7	..	..	..	..	-6.0	11	117	14	-61	19	14	..
Taumarunui	171	12.3	0.6	6.5	-0.7	16.0	30	-5.6	11	113	13	-22	22	31	122
Omata	61	..	..	..	..	..	..	..	..	..	..	..	..	..	..
New Plymouth	55	13.4	5.6	9.5	..	16.8	29	-0.6	23	113	13	..	29	20	..
New Plymouth Airport	27	13.1	4.7	8.9	-0.1	16.3	29	-0.8	11	85	13	-78	26	20	165
Tikorangi	77	12.6	4.3	8.5	..	15.6	29	-0.5	25	108	14	..	41	20	..
North Egmont	955	6.4	0.6	3.5	..	10.0	30	-4.1	23	438	17	..	56	19	..
Te Wera Forest	180	11.8	0.1	6.0	-0.7	15.0	29	-6.5	7	163	13	-15	64	20	..
Lower Retaruke	223	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Turangi	366	10.7	0.8	5.8	-0.4	14.2	31	-5.7	7	95	14	..	21	20	140
Chateau, Mt Ruapehu	1119	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Mangamutu, Pahiatua	116	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Mt Bruce Reserve	305	10.1	1.1	5.6	-0.6	15.2	30	-5.0	10	166	20	..	62	20	..
Waingawa, Masterton	114	11.3	1.9	6.6	-0.5	16.5	30	-3.0	8	78	20	-24	41	20	112
Kopua	311	9.9	2.5	6.2	-0.4	15.4	30	-2.1	12	102	15	+3	37	20	..
Waipukurau	137	11.5	2.3	6.9	-0.1	17.5	31	-4.5	8	75	12	-11	26	20	135*
Dannevirke	207	10.9	3.1	7.0	-0.1	15.9	30	-3.2	7	100	18	-7	60	20	113
Porangahau	8	12.5	4.4	8.5	..	17.5	31	-0.4	8	78	15	..	22	20	..
Castlepoint	3	12.0	6.4	9.2	-0.2	15.6	19	..	..	96	20	-11	36	20	..
Ngaumu Forest	244	10.5	1.4	6.0	-0.1	15.6	30	-4.0	8	121	16	-16	47	20	..
Tauherenikau, Alloa	43	11.6	2.5	7.1	-0.4	16.3	30	-2.6	8	109	19	-3	40	20	..
Gladstone, Arahura	116	11.1	2.2	6.7	-0.3	15.5	17	-3.5	8	71	17	-38	36	20	..
Waiorongomai	21	11.2	3.3	7.3	-0.3	14.6	19	-2.5	8	122	22	-43	25	21	..
Cape Palliser	10	11.5	7.1	9.3	-0.2	16.8	30	3.1	25	90	18	-29	26	20	..
East Cape	17	13.4	7.6	10.5	-0.8	16.3	17	1.6	8	67	12	-75	19	28	..
Ruatoria	61	..	4.2	..	..	..	..	..	..	159	11	-52	67	29	..
Mangatu Forest	182	11.8	3.7	7.8	-0.5	17.6	30	-2.2	8	69	13	-73	20	29	..
Manutuke Gisborne	9	13.0	3.4	8.2	-0.8	18.3	30	-3.3	8	54	14	-58	15	29	..
Gisborne Airport	4	13.2	3.7	8.5	-0.7	18.2	30	-1.6	8	55	15	-57	18	29	127
Onepoto, Waikaremoana	643	8.4	2.4	5.4	-0.7	15.4	13	-1.3	8	95	10	-103	21	20	..
Wharerata Forest	439	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Esk Forest	427	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Kaweka Forest	414	10.4	3.5	7.0	-0.6	18.6	26	-0.4	7	109	10	..	28	29	..
Napier Airport	2	12.7	2.9	7.8	..	18.4	30	-5.3	28	75	9	-6	18	29	..
Napier	2	13.1	3.7	8.4	-0.5	18.6	31	-3.0	12	62	9	-17	17	29	149
Hastings	16	13.0	2.8	7.9	..	19.7	30	-2.6	12	85	9	..	20	29	..
Havelock North	9	12.8	1.5	7.2	-0.4	18.9	31	-4.0	8	79	10	+0	21	3	117
Gwasas Forest	335	10.4	..	..	..	16.8	30	..	..	123	11	+9	34	29	..
Makaretu	335	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Mohaka Forest	286	11.2	2.4	6.8	-0.7	16.5	31	-2.7	8	61	10	-85	14	4	..
Frasertown, Wairoa	8	12.8	3.9	8.4	-0.5	19.1	30	-1.0	8	53	16	-87	17	20	..
Wairoa	20	12.8	2.8	7.8	-1.3	19.1	30	-1.7	8	56	13	..	22	20	113
Portland Island	78	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Kapiti Island	16	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Paraparaumu Airport	7	12.0	3.3	7.7	-0.5	15.0	31	-2.5	6	74	16	-33	24	19	161
Flockhouse, Bulls	9	12.3	2.5	7.4	-0.6	15.8	30	-4.1	10	55	11	-24	25	20	..
Ohakea	48	12.1	3.5	7.8	-0.6	16.9	30	-0.5	7	66	10	-15	33	20	166
Wharite Peak	914	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Kairanga Palmerston North	15	12.2	2.6	7.4	-0.2	15.7	19	-5.1	7	70	7	..	30	20	162
Palmerston North Airport	45	11.9	2.7	7.3	-0.2	16.0	30	-4.5	7	67	7	-17	35	20	..
Palmerston North D S I R	34	12.0	4.0	8.0	+0.0	16.2	30	-2.6	7	63	12	-28	28	20	130
Foxton	3	..	..	..	..	..	..	..	..	57	12	-27	32	20	..
Tiritea	100	11.4	4.0	7.7	..	16.5	31	-1.0	10	56	11	..	33	20	..
Waitare Forest	3	12.1	3.1	7.6	-0.1	16.0	17	-4.0	7	68	10	-16	35	20	..
Levin	46	12.0	3.1	7.6	-0.6	15.2	19	-2.0	10	75	11	-32	31	20	155
Titahi Bay	31	11.8	4.7	8.3	..	15.4	28	-1.2	7	88	13	..	37	19	..
Taita, Lower Hutt	65	11.6	3.7	7.7	-0.4	14.7	30	-1.0	8	88	15	-57	29	19	..
Avalon, Lower Hutt	15	11.8	4.3	8.1	-0.2	14.9	30	0.0	10	78	15	-79	25	19	..
Kelburn, Wellington	125	11.0	5.3	8.2	-0.1	13.8	27	1.5	10	86	12	-54	40	19	154
Somes Island	43	11.2	5.1	8.2	..	14.5	30	1.7	11	107	13	..	52	19	..
Gracefield, Lower Hutt	34	11.7	4.8	8.3	-0.3	15.1	30	0.4	10	94	16	-53	34	19	..
Wainuiomata	82	11.0	2.6	6.8	-0.7	14.8	28	-2.2	8	121	15	..	35	20	..
Wellington Airport	6	11.9	5.4	8.7	-0.2	14.8	19	0.6	8	77	12	-32	44	19	..
Rimutaka Forest	40	11.2	14.5	17	114	13	..	33	20	..
Kaitoke	223	10.2	2.1	6.2	-0.1	14.7	28	-3.7	12	194	23	-27	41	31	89

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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	
Metres	°C	°C	°C	°C	°C	°C	°C	mm	mm	mm	mm	Hrs			
Wallaceville	56	11.4	1.7	6.6	-0.7	15.4	30	-3.5	8	85	17	-50	27	19	119
Cape Egmont	8	13.1	5.7	9.4	-0.6	16.5	27	-1.0	11	67	15	-88	18	20	..
Oaonui	30	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Stratford Mountain House	846	6.3	0.4	3.4	-0.3	11.3	30	-3.9	7	361	15	-350	66	19	..
Stratford Dem. Farm	311	10.7	2.4	6.6	-0.4	13.9	29	-3.0	8	124	14	-97	41	20	149
Manaia Dem. Farm	98	11.9	3.7	7.8	-0.6	15.9	19	-2.0	8	90	18	-42	33	20	149
Normanby	122	11.6	2.8	7.2	..	15.8	30	-2.7	7	61	18	..	19	20	..
Patea	43	12.5	5.3	8.9	-0.3	17.0	29	-0.5	7	72	13	-73	31	20	..
Ruatiti	354	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Ohakune Junction	629	8.3	-0.1	4.1	..	13.2	29	-6.0	7	104	14	..	28	20	..
Karioi	648	8.4	0.1	4.3	-0.6	15.2	30	-4.4	8	83	14	-24	20	20	..
Waiouru	823	7.2	-0.6	3.3	-0.5	14.5	30	-7.0	7	63	12	-39	19	14	..
Waiouru Military Camp	823	6.6	-0.5	3.1	-0.3	13.5	30	-7.0	7	73	15	-31	23	14	..
Ahu Ahu Valley	85	12.3	1.2	6.8	..	16.5	29	-4.6	7	94	15	..	50	20	..
Taihape	433	..	0.2	..	..	..	..	-6.8	7	61	15	..	20	14	..
Kahui, Taihape	518	8.9	1.4	5.2	-1.1	15.1	30	-3.5	8	52	10	..	18	20	..
Patupa	24	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Wanganui	22	12.7	3.6	8.2	-0.5	18.0	30	-0.8	7	40	11	-41	22	20	158
Wanganui Airport	9	13.0	3.4	8.2	..	17.4	30	-0.5	7	47	12	..	24	20	..
Farewell Spit	3	12.8	4.8	8.8	-0.3	16.0	19	-1.2	10	57	18	-73	11	19	..
Totaranui	10	12.2	3.9	8.1	..	15.4	17	0.4	15	82	11	..	31	19	..
Westport Airport	2	..	..	..	..	..	..	..	..	166	14	-17	25	18	..
Cobb Dam	823	6.6	-2.0	2.3	-0.7	10.2	28	-6.7	11	171	16	-37	33	19	..
Arapito	20	12.4	3.5	8.0	..	17.6	28	-1.5	22	272	13	..	45	18	118
Lake Rotoroa	443	8.2	-1.8	3.2	..	13.2	28	-6.0	9	195	12	..	33	18	..
Lake Rotoiti	634	7.5	-3.1	2.2	-0.8	11.7	28	-8.7	15	134	15	-23	31	18	..
Hokitika Airport	39	11.7	2.0	6.9	-0.2	16.9	29	-2.1	22	185	13	-56	30	19	135
Reefton	198	8.1	-1.4	3.4	-1.3	13.9	29	-6.5	7	191	13	+26	30	19	..
Barrytown	30	12.5	6.1	9.3	..	16.8	29	2.5	15	217	15	..	28	18	..
Totara Flat	77	9.8	-0.8	4.5	-0.9	14.0	28	-6.8	2	211	14	+54	31	18	..
Greymouth	4	11.7	3.5	7.6	+0.0	15.5	28	-1.7	16	198	16	+5	30	19	118
Otira Substation	383	8.5	-1.1	3.7	..	13.5	28	..	..	327	12	-29	83	31	..
Springs Junction	421	..	..	..	..	..	..	..	..	278	..	+103	..	..	..
Hari Hari	45	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Franz Josef	122	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Fox Glacier	152	11.2	0.5	5.9	..	16.1	28	-2.3	15	210	11	-104	43	30	..
Milford Sound	3	7.3	-0.6	3.4	-2.2	13.0	28	-3.5	7	360	10	-18	70	31	..
Puysgur Point	43	10.2	5.0	7.6	..	15.2	29	2.3	20	268	24	+95	139	31	..
Stephens Island	187	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Riwaka, Motueka	8	11.8	0.5	6.2	-0.8	16.1	17	-4.8	10	66	15	-79	33	19	156
Tapawera	146	10.6	-1.2	4.7	..	14.4	28	-6.3	10	77	14	..	22	19	..
Crail Bay Pelorus Sd	13	..	..	..	..	..	..	..	..	55	..	..	37	19	..
Appleby	17	11.9	1.5	6.7	-0.5	15.6	28	-2.7	11	38	9	-53	20	19	..
Nelson Airport	2	11.7	0.4	6.1	-0.3	14.9	17	-3.8	10	35	12	-56	21	19	171
Rai Valley	79	11.8	0.4	6.1	+0.1	15.2	17	-5.7	23	70	8	-113	45	19	..
Moutere Hills	110	11.3	4.0	7.7	-0.1	15.1	28	0.4	10	39	11	-65	17	19	..
Blenheim Airport	27	12.1	1.3	6.7	+0.0	15.4	17	-3.9	12	51	8	-20	39	19	..
Brancott Valley	64	12.0	1.2	6.6	..	15.1	31	-4.7	12	41	9	..	29	19	..
Blenheim	4	12.7	1.3	7.0	-0.1	15.9	31	-4.2	12	42	8	-24	31	19	174
Waihopai Power Station	262	10.4	-0.2	5.1	-0.9	14.1	31	-4.5	9	29	7	-50	18	19	..
Vernon Lagoons	2	12.5	0.5	6.5	-0.3	15.7	19	-5.1	12	35	8	..	25	19	168
Lake Grassmere	2	..	2.5	..	..	..	..	-2.3	12	32	8	-34	18	19	173
Cape Campbell	3	11.7	5.8	8.8	+0.3	14.5	19	2.5	10	39	9	-37	18	19	..
Hanmer Forest	387	9.0	-2.8	3.1	-0.6	16.0	30	-7.0	11	81	13	-23	22	18	122
Molesworth	893	6.0	-4.0	1.0	-0.5	11.2	30	-12.7	10	33	10	-28	15	19	..
Kaikoura Flats	24	11.3	2.1	6.7	..	18.3	18	-1.8	25	44	8	..	22	20	..
Kaikoura	108	10.4	4.7	7.6	-0.2	17.7	18	2.4	22	41	9	-40	21	20	149
Arthurs Pass	738	4.5	-5.9	-0.7	..	8.0	27	-10.1	6	..	..	..	..	..	..
Balmoral Forest	198	9.5	-1.7	3.9	-0.6	14.5	30	..	..	43	11	-21	22	19	..
Hawarden	244	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Waiau	137	9.9	-1.5	4.2	..	16.7	31	-5.6	11	44	10	..	15	19	..
The Hermitage, Mt Cook	765	5.0	-4.1	0.5	-1.4	9.2	16	-8.3	5	272	10	+28	70	18	102
Mt John	1027	3.6	-2.8	0.4	-0.9	8.4	12	-6.2	22	21	7	-25	11	31	..
Craigieburn Forest	914	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Lake Coleridge	364	8.5	-3.2	2.7	-1.2	14.4	30	-6.6	7	66	10	-15	18	19	..
Highbank Power Station	336	8.7	0.8	4.8	-0.8	13.5	30	-1.4	29	37	9	-42	20	19	179
Hororata Substation	192	10.1	-1.6	4.3	-0.2	15.9	12	-5.6	25	46	14	-20	21	19	..
Winchmore	160	9.8	-0.5	4.7	+0.0	15.1	12	-2.7	15	23	7	-38	6	20	..
Peel Forest	274	10.1	-1.9	4.1	..	16.7	17	-4.5	7	19	9	..	7	19	..
Ashburton	101	10.2	-0.9	4.7	-0.5	16.4	12	-4.7	25	16	6	-45	5	20	175
Waipara	64	11.0	0.4	5.7	..	15.9	31	-3.5	25	36	8	..	21	19	..
Ashley Forest	107	10.0	1.7	5.9	-0.3	16.8	31	-1.8	25	59	6	-12	33	19	144
Rangiora	46	10.6	-0.1	5.3	-0.1	17.2	31	-4.5	12	45	6	-8	25	19	..
Darfield	195	10.4	0.5	5.5	+0.5	15.8	31	-2.2	1	50	10	-16	25	19	..
Eyrewell Forest	158	10.2	-0.3	5.0	+0.4	16.9	31	-4.8	25	54	6	-12	29	19	..
Christchurch Airport	30	10.4	-0.3	5.1	-0.3	17.6	31	-4.4	25	53	9	-8	25	19	152
Templeton	46	10.3	17.9	31	55	8	..	27	19	..

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		A Max.	B Min.			Maximum	Date	Minimum	Date				Amount	Date	
Metres	°C	°C	°C	°C	°C	°C	mm	mm	mm	Hrs					
Christchurch	7	..	..	..	..	..	..	..	..	..	..	..	..	..
Bromley, Christchurch	9	10.4	1.6	6.0	-0.4	16.8	31	-3.5	26	55	11	-1	18	19	
Mt Pleasant	137	10.3	3.9	7.1	-0.4	17.1	31	1.2	6	71	12	-3	23	19	
Lincoln	11	10.2	0.2	5.2	-0.2	16.7	31	-4.3	7	52	10	-6	22	19	
Akaroa	3	..	..	..	..	..	..	..	..	..	..	..	..	..
Lake Tekapo	683	4.4	-5.2	-0.4	-2.1	10.7	12	-10.0	3	35	8	-18	14	31	
Lake Pukaki	556	4.7	-4.2	0.3	-0.8	12.7	17	-10.7	5	30	10	..	20	31	
Fairlie	304	9.8	-3.8	3.0	..	14.8	17	-7.4	6	11	3	..	6	17	
Twizel	457	4.7	-6.2	-0.8	-1.6	12.0	17	-11.0	6	32	9	..	21	31	
Ikawai	70	10.4	-1.7	4.4	-0.1	15.5	17	-6.5	25	4	2	..	2	13	
Geraldine	119	10.7	-1.7	4.5	..	17.8	17	-4.9	25	8	5	..	2	20	
Orari Estate	81	10.5	-1.7	4.4	-0.1	18.2	17	-5.2	25	9	7	-49	3	29	
Temuka	24	10.8	-1.1	4.9	-0.1	16.7	17	-4.5	25	9	5	-37	4	13	
Timaru Airport	26	10.8	-1.4	4.7	+0.0	16.2	17	-4.8	25	7	5	-36	2	29	
Adair	85	10.6	1.1	5.9	+0.2	16.3	31	-1.4	22	7	5	-36	3	13	
Timaru	17	10.1	0.2	5.2	-0.1	15.9	17	-3.4	26	8	5	-33	4	29	
Waimate	61	11.2	0.6	5.9	+0.0	17.8	17	-3.2	25	6	3	-37	3	13	
Kurow	207	..	..	..	..	..	..	..	..	..	..	..	..	..
Oamaru Airport	30	10.0	0.6	5.3	+0.3	15.7	17	-2.3	21	4	5	-32	2	21	
Tara Hills, Oamarua	488	5.2	-5.7	-0.3	-1.6	11.9	12	-13.1	3	33	4	+5	25	31	
Lake Hawea	350	6.2	-1.3	2.5	-1.2	11.2	17	-3.8	22	48	7	-10	24	31	
Wanaka	296	6.9	-2.5	2.2	-1.3	12.5	17	-5.8	11	42	6	-11	20	31	
Queensberry	277	5.9	-2.2	1.9	..	12.7	17	-5.2	24	27	9	..	10	31	
Bendigo	200	6.6	-2.2	2.2	..	14.2	17	-5.7	11	15	7	..	5	31	
Naseby Forest	610	..	..	..	..	..	..	..	..	..	..	..	..	..
Windsor	88	..	..	..	..	..	..	..	..	..	..	..	..	..
Oamaru	5	..	..	..	..	..	..	..	..	..	..	..	..	..
Ranfurly	427	6.0	-3.3	1.4	..	10.6	12	-8.6	1	8	4	..	5	13	
Herbert Forest	61	..	..	..	..	..	..	..	..	..	..	..	..	..
Palmerston	21	10.7	-0.9	4.9	+0.3	15.5	12	-6.1	25	8	8	..	2	12	
Cherry Farm Hospital	6	10.4	-0.3	5.1	-0.3	15.5	11	-3.4	21	16	9	-30	6	14	
Taiaroa Head	72	..	..	..	..	..	..	..	..	..	..	..	..	..
Invermay, Taieri	30	9.8	0.3	5.1	..	15.1	31	-5.1	1	22	14	..	7	14	
Berwick Forest	18	9.3	0.1	4.7	+0.1	13.6	12	-5.9	3	43	13	-5	17	14	
Dunedin Airport	1	9.7	-1.4	4.2	-0.2	14.7	31	-7.9	3	23	13	-23	7	14	
Musselburgh, Dunedin	2	9.5	2.9	6.2	-0.1	15.2	31	-1.3	2	33	16	-23	12	14	
Te Anau	215	7.1	-0.2	3.5	-0.4	12.0	26	-3.1	22	80	12	-9	20	17	
West Arm, Manapouri	232	4.0	-0.2	1.9	-1.3	8.6	26	-4.2	2	294	15	..	54	17	
Borland Burn	183	..	..	..	..	..	..	..	..	..	..	..	..	..
Queenstown	329	7.1	-2.0	2.6	-1.1	12.4	17	-5.8	5	54	9	-10	16	31	
Queenstown Airport	349	6.2	-3.4	1.4	-1.4	12.0	17	-7.1	8	37	7	-13	12	31	
Otama	183	..	..	..	..	..	..	..	..	..	..	..	..	..
Cromwell	213	6.2	-3.1	1.6	-1.3	14.7	17	-6.9	11	19	8	-4	6	17	
Northburn	210	6.4	-2.5	2.0	..	14.7	17	-5.7	24	15	8	..	4	31	
Lauder	370	4.7	-3.4	0.7	..	12.8	17	-7.6	5	16	8	..	8	13	
Clyde Dam	160	6.1	-2.3	1.9	..	13.6	17	-5.5	24	16	11	..	4	17	
Ophir	305	5.3	-5.0	0.2	-1.5	13.2	17	-8.5	11	10	4	-8	5	15	
Moa Creek	427	..	..	..	..	..	..	..	..	..	..	..	..	..
Earnsclough	152	6.3	-3.8	1.3	-1.0	14.6	17	-7.3	24	14	8	-4	4	14	
Roxburgh Power Station	110	7.1	-1.0	3.1	-1.2	13.0	17	-6.1	4	64	10	+39	19	16	
Deep Stream	396	..	..	..	..	..	..	..	..	..	..	..	..	..
Beaumont	46	8.1	-1.7	3.2	..	14.0	17	-7.6	3	166	15	+102	56	15	
Mahinerangi Dam	396	6.8	-1.4	2.7	-0.6	11.5	26	-6.2	3	91	17	+30	29	15	
Tapanui	226	7.6	0.1	3.9	-0.9	12.3	28	-5.5	4	93	16	+27	25	15	
Taieri Mouth	15	9.4	1.0	5.2	-0.3	14.0	31	-3.0	3	44	8	-9	20	14	
Tuatapere	27	9.2	1.3	5.3	..	14.4	28	-2.8	3	146	20	..	24	17	
Otautau	55	9.0	-0.5	4.3	-0.4	13.5	26	-6.7	2	152	19	+76	32	13	
Winton	44	9.0	0.0	4.5	-0.7	15.0	26	-6.4	3	89	17	+41	16	14	
Gore	123	8.0	0.1	4.1	+0.1	13.0	31	-5.4	3	88	18	..	23	15	
Hokonui Forest	46	8.8	0.0	4.4	-0.5	13.9	26	-7.0	3	76	12	+10	18	15	
Woodlands	47	9.2	0.5	4.9	-0.2	13.8	26	-6.4	3	99	23	..	29	17	
Invercargill Airport	0	9.2	-0.1	4.6	-0.3	13.6	26	-6.4	3	104	21	+35	28	17	
Tiwai Point, Bluff	5	9.4	1.8	5.6	-0.2	13.9	26	-4.4	3	111	21	..	25	17	
Stewart Island	3	9.1	1.0	5.1	..	12.2	31	-2.5	3	148	29	..	45	11	
Milton	18	9.0	-0.9	4.1	-0.2	13.3	31	-6.6	2	37	12	-14	9	14	
Finegand, Balclutha	6	8.8	-0.2	4.3	-0.3	13.0	31	-5.6	3	34	8	..	9	14	
Owaka	5	9.8	0.1	5.0	..	14.0	31	-5.8	2	120	17	..	28	15	
Nugget Point	129	8.4	2.0	5.2	-0.4	11.7	11	-0.8	2	97	22	+36	21	15	
Tautuku	61	9.1	1.6	5.4	..	14.2	31	-3.1	24	190	19	..	40	17	
Nandi Airport, Fiji	19	..	..	..	..	..	..	..	..	..	..	..	..	..
Rarotonga Airport	7	24.9	19.2	22.1	+0.4	28.3	3	14.8	10	107	17	+10	29	7	
Totokoitu, Rarotonga	9	..	..	..	..	..	..	..	..	..	..	..	..	..
Raoul Island	38	18.6	13.0	15.8	-0.4	21.7	21	8.1	12	183	23	+20	40	28	
Campbell Island	15	7.0	3.4	5.2	+0.6	9.3	26	-3.0	16	93	28	-14	15	30	
Waitangi, Chatham Island	44	9.8	4.4	7.1	-0.6	13.5	20	0.6	17	86	27	+7	39	21	
Scott Base, Antarctica	16	-25.6	-40.3	-32.9	-3.1	-16.0	4	-51.3	20	..	..	..	..	..

CLIMATOLOGICAL TABLE—Summary of the Records of Temperature, Rainfall, and Sunshine for July 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															
Dargaville 05/1982	20	18.0	10.0	14.0	+0.5	21.7	8	1.1	31	40	16	-92	7	22	143
Dargaville 06/1982	20	15.4	5.7	10.6	-1.0	20.0	3	-2.0	19	73	17	-77	10	25	..
Thames 06/1982	3	14.0	4.9	9.5	-1.4	19.6	3	-0.3	12	62	11	-73	42	4	..
Tairua Forest 06/1982	3	14.2	3.4	8.8	-1.8	18.5	3	-1.3	14	105	10	-88	28	4	..
Rotoehu Forest 06/1982	72	13.6	1.4	7.5	-0.9	16.8	3	-3.5	9	160	10	+10	55	4	..
Waiotapu Forest 06/1982	435	10.8	1.1	6.0	-0.2	17.5	4	-3.7	11	118	12	-27	40	4	..
Atiamuri Power Station 06/1982	253	11.7	0.7	6.2	-1.3	15.3	4	-3.5	12	71	13	-70	23	4	..
Mauro Forest 06/1982	52	..	3.0	..	..	..	..	-0.4	22	62	8	-88	20	22	..
Te Kauwhata 06/1982	32	13.2	2.2	7.7	-2.1	17.5	3	-3.5	19	53	14	-82	14	4	136
Huntly 06/1982	34	13.2	4.1	8.7	..	17.7	3	-0.9	9	44	..	..	16	22	..
Port Taharoa 06/1982	27	14.7	6.8	10.8	-0.4	17.6	3	2.4	15	77	..	..	..	..	..
Wharite Peak 06/1982	914	5.0	1.9	3.5	-0.3	12.2	3	-0.4	14	159	18	-44	70	4	..
Tiritea 06/1982	100	11.2	4.8	8.0	..	18.4	3	1.0	9	60	14	..	24	4	..
Kahui, Taihape 06/1982	518	9.2	1.9	5.6	-1.2	15.6	3	-2.7	15	38	9	..	19	4	..
Rai Valley 06/1982	79	11.2	1.8	6.5	+0.2	15.7	3	-3.5	7	176	7	+13	73	3	..
Molesworth 06/1982	893	6.8	-2.9	2.0	-0.3	18.9	1	-8.1	29	134	8	+86	50	25	..
Waiau 06/1982	137	10.2	-0.2	5.0	..	21.4	3	-5.5	18	109	11	..	52	24	..
Windsor 06/1982	88	..	..	..	..	..	..	..	..	13	3	..	11	3	..
Taiaroa Head 06/1982	72	9.4	5.7	7.6	+0.2	16.5	2	2.5	6	33	12	-25	10	3	..
Roxburgh Power Station 06/1982	110	6.9	0.8	3.9	-1.0	16.0	1	-4.4	5	17	6	-19	9	3	..
Deep Stream 05/1982	396	11.8	0.7	6.3	..	18.8	7	-6.9	4	49	..	..	..	..	..
Deep Stream 06/1982	396	7.6	-2.0	2.8	..	14.5	1	-10.0	19	28	13	..	14	3	..

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 rainday 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—JULY 1982

General—Over the country, July was generally a dry, cool and sunny month.

There was a predominance of south-westerly winds over the South Island. Over the North Island, winds were generally lighter than usual, and there was also a higher frequency than normal of north-east winds.

In the nine months from November 1981 to July 1982, many areas of the Canterbury Plains experienced extremely dry conditions. Some places on the plains, especially those in Mid-Canterbury, received less than half their average rainfalls during this period.

Heavy rain and high winds affected northern districts during the 28th and 29th of July. At the height of the storm during the afternoon of the 28th, Cape Reinga recorded a maximum gust of 95 knots.

Rainfall—Apart from Northland and Southland, below average rain fell over the country during July. Previous dry conditions in Canterbury continued again this month, with areas of coastal South Canterbury and North Otago recording less than 15 mm of rain. This was the driest July for at least 10 years. Those locations to record less than 15 mm include: Oamaru (5 mm), Orari (9 mm), Geraldine (8 mm), Timaru (8 mm), Aviemore (6 mm), Waitaki (6 mm), Duntroon (0.8 mm), Tengawai (13 mm), and "Heatherleigh" Cave (8 mm).

Snow fell to low levels in Otago and Southland on the 14th, and many roads in these regions were seriously affected by it.

Heavy rains, and high winds, affected Northland, Auckland and the Bay of Plenty during the last week of July. In a three-day period from the 27th to 29th (but 28th–30th in Bay of Plenty) stations to record over 100 mm include Paparoa (102 mm), Kawakawa (319 mm), Waitangi (148 mm), Glenbervie (107 mm), Coromandel (147 mm), Te Arika Falls (129 mm), and Mahoetahu (134 mm).

Temperature—Mean temperatures over the country were below the July average. This largely resulted from night-time minimum temperatures being cooler than is normal.

During a spell of anticyclonic weather conditions from the 10th to the 13th, the minimum temperatures over northern and eastern districts of the North Island fell below freezing. Auckland Airport on the 12th recorded a minimum of -0.7°C , this being the extreme July value since 1965. Other places to record low temperatures during this period include Warkworth, Hamilton, Whakatane, Kinleith, Rotorua, New Plymouth, and Napier.

Sunshine—Bright sunshine hours were normal or above normal over the country.

Some areas were particularly sunny and Kelburn, Wellington recorded 154 hours, its highest total ever for July since 1928 when records were started. Timaru with 163 hours also had its sunniest July since 1930.

Among those stations with greatest departures this month were: Kelburn (+49 hours), Ohakea (+47 hours), Timaru (+39 hours), New Plymouth (+33 hours), and Christchurch (+29 hours).

THE WEATHER SEQUENCE—JULY 1982

1st–7th July

The large intense anticyclone centred just east of Canterbury drifted slowly south-west to lie near Macquarie Island by the end of the period. The shallow depression in the central Tasman Sea remained slow moving, but extended a trough of low pressure to the area north of the country. While fine frosty weather occurred over much of New Zealand during this period, a moist east to north-east airflow over northern districts brought showers to Northland and Gisborne.

8th–14th July

The anticyclone moved slowly northwards into the central Tasman Sea, and the trough of low pressure moved eastwards away from the country. A disturbed west to south-west airstream became established over New Zealand as the anticyclone moved north. Weak cold fronts in the airflow brought showers chiefly to the south and south-west of the South Island, but mostly fine cool weather predominated elsewhere.

A cold front in the south-west Tasman Sea on the 13th moved over New Zealand on the 14th. Some rain with the front fell on many areas of the country. Colder showery southerlies followed, and snow fell to low levels in parts of Otago and Southland.

15th–21st July

A strong cold south to south-west airstream covered the country until the 17th, bringing showery periods to western areas of the North Island. By the 18th the strong airflow had turned westerly as a very deep depression moved over Campbell Island. An associated cold front in the westerlies moved onto the South Island. Rain was recorded along the West Coast and in Southland, and showers fell in western areas of the North Island.

On the 19th, the deep depression continued to move slowly away from Campbell Island, and a trough of low pressure extended towards the north-west Tasman Sea. A shallow depression formed within the trough on the cold front, and on the 20th lay over central New Zealand. Rain fell in many regions, with some heavy falls over central districts. The depression lay east of the country by mid-day on the 21st, causing a cold showery southerly airstream to flow over New Zealand.

22nd–31st July

A large anticyclone covering the Tasman Sea moved north-eastwards bringing fine frosty weather, and on the 25th lay east of the North Island, remaining almost stationary until the end of the month.

A trough of low pressure entered the Tasman Sea from the west late on the 24th, and a shallow depression developed during the 25th near Lord Howe Island. It moved slowly towards Northland, bringing rain to the northern districts from the 28th. The depression deepened rapidly late on the 28th, lying just west of Northland. Gale force winds and heavy rain affected the northern half of the North Island. The depression decayed quickly during the afternoon of the 29th, but a trough of low pressure persisted over the Tasman Sea.

A cold front generated within this system crossed New Zealand during the night of the 30th, bringing showers to the west of the country, and followed on the 31st by a cool westerly airstream.

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

J. S. HICKMAN, Director.

