



LAND & DEEDS OFFICE
23 AUG 1982
GISBORNE

SUPPLEMENT

TO THE

NEW ZEALAND GAZETTE

OF

THURSDAY, 12 AUGUST 1982

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CLIMATOLOGICAL TABLE FOR JUNE 1982

NEW ZEALAND METEOROLOGICAL SERVICE

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

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		
Cape Reinga	191	16.1	10.3	13.2	+0.3	18.9	3	7.2	18	121	20	+9	33	30	..
Kaitaia Airport	80	15.7	8.4	12.1	-0.5	19.0	3	4.5	11	117	16	-40	24	21	143
Aupouri Forest	69	16.1	9.6	12.9	-0.2	19.5	3	5.6	18	107	16	-48	30	20	..
Kaitaia	8	16.8	7.2	12.0	..	19.9	3	1.6	10	108	14	..	26	21	..
Kerikeri M A F	79	15.4	7.5	11.5	..	18.3	3	2.4	11	193	21	..	54	21	..
Kerikeri Downs	79	15.3	7.6	11.5	..	18.6	3	2.6	11	193	18	..	57	4	..
Kerikeri Aerodrome	150	14.9	7.0	11.0	..	17.8	3	2.5	19	164	14	..	47	4	..
Umawera	50	15.9	4.9	10.4	..	19.5	3	-1.0	18	94	17	..	19	3	..
Kaikohe	204	14.1	7.8	11.0	-0.2	17.8	5	3.1	18	138	17	..	33	21	121
Waiotemarama	229	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Waipoua Forest	88	15.4	5.3	10.4	-0.9	19.1	5	0.0	19	86	17	-112	13	21	..
Dargaville	20	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Waitangi Forest	55	15.8	7.8	11.8	-0.6	19.0	3	2.5	11	132	16	-20	46	4	121
Glenbervie Forest	107	14.9	3.4	9.2	-1.1	18.2	5	-1.7	19	172	16	-29	46	3	..
Whangarei Airport	37	15.2	6.7	11.0	-1.0	18.7	5	1.9	19	107	16	-53	36	4	..
Whangarei	29	15.6	5.6	10.6	-1.3	19.5	5	0.2	19	145	14	..	35	4	125*
Marsden Power Station	3	..	7.2	..	..	..	..	1.5	14	94	20	..	34	4	..
Pouto	97	14.6	8.7	11.7	..	19.1	5	4.7	19	62	14	..	12	4	..
Leigh	27	15.4	10.5	13.0	+0.3	18.1	5	7.0	18	109	13	-34	36	5	143
Warkworth	72	14.2	5.8	10.0	-0.9	17.5	3	0.0	19	88	15	..	30	4	..
Oyster Point	0	15.1	5.2	10.2	..	19.0	5	-1.7	21	59	13	..	15	4	..
Woodhill Forest	30	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Riverhead Forest	28	14.5	3.5	9.0	-1.5	18.3	3	-2.1	19	78	12	-85	17	24	..
Kumeu	32	14.6	3.1	8.9	..	18.5	3	-4.2	19	83	16	..	14	24	..
Whenuapai	26	14.3	4.3	9.3	-1.3	18.1	5	-1.7	19	79	15	-73	19	21	..
Albert Park, Auckland	49	14.6	7.6	11.1	-0.7	18.2	3	4.1	19	95	15	-40	42	22	151*
Owairaka, Auckland	41	14.1	5.5	9.8	-1.2	17.6	3	-1.0	13	73	14	-74	15	22	..
Port Fitzroy	4	15.7	7.7	11.7	-0.8	19.2	3	3.3	20	139	15	-72	65	4	..
Coromandel	43	15.4	5.2	10.3	..	18.2	5	-0.2	19	94	12	..	40	4	..
Whangapoua Forest	4	15.3	4.7	10.0	-0.8	18.4	3	-0.8	19	96	10	-120	36	4	..
Thames	3	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Tairua Forest	3	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Paeroa	4	14.0	1.8	7.9	-1.6	19.1	3	-3.9	10	54	15	-83	29	4	..
Waihi	91	13.4	1.9	7.7	-1.9	17.5	3	-4.5	19	104	12	-114	32	4	127
Te Aroha	18	13.8	3.1	8.5	-1.5	18.7	3	-1.9	9	61	14	-76	29	4	..
Katikati	2	14.9	2.8	8.9	..	18.1	1	-1.7	15	126	14	..	41	29	..
Tauranga	2	14.3	5.8	10.1	-0.6	17.5	3	2.1	14	88	13	..	26	22	..
Tauranga Airport	4	14.3	4.5	9.4	-0.7	18.7	3	1.2	14	98	12	-34	27	22	158
Te Puke	91	13.5	4.2	8.9	-0.9	16.4	4	0.0	8	171	11	..	51	4	138
Rotoehu Forest	72	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Edgecumbe	5	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Whakatane	2	14.7	3.7	9.2	-0.6	18.5	3	0.5	2	120	11	-4	54	4	141
Whakatane Airport	6	13.9	1.9	7.9	..	17.4	3	-2.9	19	103	10	..	47	4	..
Port Ohope	9	14.5	6.1	10.3	..	17.1	2	2.4	14	87	10	..	39	4	152
Kinlith	383	10.8	2.5	6.7	-0.4	14.9	4	-2.5	9	82	9	-111	23	4	..
Tikitere	338	11.2	3.6	7.4	..	14.3	4	0.8	9	183	12	..	59	22	..
Kawerau	30	13.8	3.2	8.5	-1.1	17.5	4	-4.0	9	199	10	+34	103	4	..
Te Teko	8	14.5	2.9	8.7	-0.7	18.5	1	-1.8	17	161	11	+19	61	4	132
Rotorua Airport	287	11.6	2.3	7.0	-1.1	14.9	4	-2.0	11	135	12	-7	47	22	135
Tarawera Forest	61	13.4	1.1	7.3	-0.8	17.1	1	-3.7	9	285	12	+89	80	4	..
Waiotapu Forest	435	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Atiamuri Power Station	253	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Kaingarua Forest	544	9.9	0.5	5.2	-1.2	14.9	1	-3.5	11	133	10	-12	41	22	..
Murupara	198	12.2	1.1	6.7	..	15.5	4	-4.0	20	134	13	+12	41	4	..
Wairapukao Forest	437	10.8	-0.5	5.2	-0.6	15.4	1	-5.4	11	100	10	-37	37	4	..
Taupo	376	10.9	1.7	6.3	-0.9	14.2	3	-2.6	9	82	12	-40	28	4	103
Wairakei Power Station	342	11.1	1.3	6.2	-1.2	14.5	4	-2.7	11	99	14	-31	35	4	..
Wairakei Research Station	402	11.2	0.0	5.6	-1.1	14.0	4	-4.5	11	105	12	-19	38	4	..
Minginui Forest	366	11.0	1.0	6.0	-0.2	16.9	1	-5.1	11	128	9	-17	52	4	..
Taupo Airport	407	10.6	0.7	5.7	..	14.2	3	-4.0	9	66	10	..	27	4	..
Waimihia Forest	743	7.9	0.6	4.3	-0.4	13.0	1	-3.0	14	121	11	-52	47	4	..
Opotiki	6	14.4	4.7	9.6	-0.2	17.3	2	-0.2	19	104	9	-31	38	22	132
Waimana	37	14.0	0.8	7.4	-1.1	18.7	1	-4.0	28	169	8	+1	66	4	..
Mangere, Auckland	4	13.9	5.2	9.6	-1.4	18.2	3	-0.7	19	107	14	-28	37	22	143
Otara, Auckland	12	14.5	4.3	9.4	-1.1	18.5	3	-2.0	19	65	14	-65	20	4	..
Auckland Airport	8	13.9	5.9	9.9	-1.1	17.7	3	2.5	10	82	14	-50	33	22	145
Ardmore	30	14.5	3.4	9.0	-1.3	18.5	3	-2.0	19	62	10	-83	20	4	..
Pukekohe	82	13.4	4.4	8.9	-1.2	17.9	3	0.1	18	63	12	..	24	22	144
Maioro Forest	52	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Hunua	122	13.9	2.5	8.2	..	18.1	3	-2.5	10	50	12	..	18	4	..
Maramarua Forest	38	13.3	1.1	7.2	-2.1	18.5	4	-3.6	19	47	12	-85	18	4	..
Te Kauwhata	32
Huntly	34
Ruakura, Hamilton	40	13.1	2.1	7.6	-1.3	17.7	3	-3.4	13	55	11	-77	15	23	136

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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	
		°C	°C	°C	°C	°C	°C	mm	mm	mm	mm	Hrs			
Whatawhata	104	12.9	3.3	8.1	-1.5	17.5	3	-1.7	10	93	13	-98	41	24	119
Rukuhia	66	13.0	2.8	7.9	-1.4	17.6	3	-2.7	9	54	9	-83	13	24	138
Hamilton Airport	50	13.6	0.9	7.3	-1.2	18.0	3	-4.5	9	62	12	-70	18	24	..
Cambridge	76	13.0	2.1	7.6	..	17.8	4	-3.9	17	52	12	..	13	4	..
Port Taharoa	27	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Mohakato Station Mokau	46	13.5	5.4	9.5	-0.8	17.0	3	1.2	9	79	7	-106	26	24	..
Arapuni Power Station	123	12.6	2.2	7.4	-1.2	17.1	3	-2.2	9	92	13	-63	20	4	..
Waikeria	46	13.2	0.9	7.1	..	18.0	3	-5.2	19	68	10	..	29	24	..
Te Kuiti	61	13.2	2.4	7.8	-0.9	16.3	3	-2.6	15	91	14	-77	21	24	127
Wairere	122	12.6	1.5	7.1	..	15.6	3	-5.4	19	69	10	-99	18	3	..
Pureora Forest	549	9.7	0.1	4.9	-1.1	12.6	5	-5.0	19	103	12	-93	26	22	..
Taumarunui	171	12.9	0.5	6.7	-1.1	17.2	3	-4.6	17	50	9	-102	12	3	94
Omata	61	14.0	7.2	10.6	-0.5	16.5	23	4.0	8	196	8	..	110	3	..
New Plymouth	55	13.6	6.2	9.9	..	16.0	23	2.3	9	224	11	..	104	3	..
New Plymouth Airport	27	13.2	5.1	9.2	-0.5	16.2	3	0.3	9	128	11	-40	58	23	158
Tikorangi	77	12.9	4.8	8.9	..	15.7	2	1.0	9	160	12	..	59	3	..
North Egmont	955	7.0	1.3	4.2	..	11.0	4	-1.4	16	596	17	..	162	3	..
Te Wera Forest	180	12.0	1.5	6.8	-0.6	15.9	3	-6.0	16	141	8	-39	38	3	..
Lower Retaruke	223	11.9	0.8	6.4	-0.8	15.7	3	-5.7	16	66	9	..	20	3	..
Turangi	366	11.0	0.9	6.0	-1.1	13.2	1	-5.0	16	98	13	..	31	4	135
Chateau, Mt Ruapehu	1119	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Mangamutu, Pahiatua	116	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Mt Bruce Reserve	305	10.0	..	..	..	17.0	2	..	..	109	15	..	27	5	..
Waingawa, Masterton	114	11.2	4.5	7.9	+0.3	19.2	3	-1.2	30	109	22	+2	45	4	75
Kopua	311	9.9	3.4	6.7	-0.7	17.4	3	-0.4	30	129	18	+25	49	4	..
Waipukurau	137	11.5	2.9	7.2	-0.4	17.5	3	-2.5	1	130	14	+49	47	5	85*
Dannevirke	207	10.9	3.3	7.1	-0.5	18.2	3	-0.9	9	115	18	+13	44	4	83
Porangahau	8	12.9	5.0	9.0	..	18.9	3	0.6	29	227	19	..	97	5	..
Castlepoint	3	12.2	7.7	10.0	-0.2	16.5	1	3.1	29	223	21	+114	73	5	..
Ngaumu Forest	244	10.4	3.2	6.8	+0.2	18.0	3	-2.6	29	198	19	+63	59	5	..
Tauherenikau, Alloa	43	11.7	3.4	7.6	-0.6	19.4	3	-1.5	29	134	18	+22	53	4	..
Gladstone, Arahura	116	11.0	3.8	7.4	-0.1	18.2	3	-1.4	29	138	17	+26	48	4	..
Waiorongomai	21	11.0	5.2	8.1	-0.3	17.8	3	-0.2	29	210	18	+42	79	25	..
Cape Palliser	10	12.0	8.1	10.1	-0.3	20.7	1	4.1	30	191	25	+82	58	25	..
East Cape	17	14.4	8.7	11.6	-0.5	19.0	1	4.1	29	142	16	-10	74	4	..
Ruatoria	61	..	5.5	..	..	..	..	0.5	29	122	16	-71	59	4	..
Mangatu Forest	182	12.0	4.1	8.1	-0.8	19.5	1	-0.8	28	113	15	-24	39	4	..
Manutuke Gisborne	9	13.6	4.2	8.9	-0.5	21.7	1	-1.2	28	70	18	-32	38	4	..
Gisborne Airport	4	13.6	4.3	9.0	-0.7	20.0	1	0.4	29	112	20	+0	50	4	93
Onepoto, Waikaremoana	643	8.4	3.4	5.9	-0.9	..	..	..	..	215	19	+27	53	4	..
Wharerata Forest	439	..	..	..	..	..	..	..	..	291	..	..	..	..	..
Esk Forest	427	9.8	3.9	6.9	-0.7	18.8	1	-1.2	11	164	18	-1	62	4	..
Kaweka Forest	414	10.3	4.3	7.3	-1.0	19.9	1	1.0	27	99	17	..	47	4	..
Napier Airport	2	12.7	3.8	8.3	..	18.4	3	-0.6	28	85	10	-12	46	4	..
Napier	2	12.9	4.4	8.7	-0.9	19.5	3	0.7	28	101	11	+12	52	4	83
Hastings	16	12.7	3.7	8.2	..	19.0	3	0.2	28	85	12	..	48	4	..
Havelock North	9	12.7	2.8	7.8	-0.4	19.3	3	-1.5	28	103	11	+19	49	4	74
Gwavas Forest	335	11.8	..	..	..	21.2	2	..	..	127	16	+15	68	4	..
Makaretu	335	10.7	2.3	6.5	-1.1	18.1	3	-1.4	30	113	19	..	61	4	..
Mohaka Forest	286	11.3	3.8	7.6	-0.7	20.2	1	-1.3	28	153	17	+18	43	4	..
Frasertown, Wairoa	8	12.9	5.4	9.2	-0.3	19.7	4	0.8	1	184	17	+49	45	4	..
Wairoa	20	13.0	4.8	8.9	-0.9	19.1	4	0.1	11	166	16	..	39	4	63
Portland Island	78	12.3	8.6	10.5	-0.8	16.5	4	6.8	18	120	22	+11	36	5	..
Kapiti Island	16	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Paraparaumu Airport	7	12.0	4.8	8.4	-0.5	17.4	3	-0.7	9	115	13	+11	36	4	98
Flockhouse, Bulls	9	12.4	2.4	7.4	-1.4	18.7	3	-2.4	9	88	9	-1	52	4	..
Ohakea	48	12.0	4.1	8.1	-1.0	18.4	3	1.4	16	76	8	-15	46	4	109
Wharite Peak	914	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Kairanga Palmerston North	15	12.2	2.5	7.4	-0.6	18.5	3	-2.5	9	88	10	..	39	4	107
Palmerston North Airport	45	12.0	3.4	7.7	-0.4	18.6	3	-2.3	9	68	10	-21	34	4	..
Palmerston North D S I R	34	12.1	4.3	8.2	-0.5	19.2	3	-0.4	9	65	15	-34	26	4	85
Foxton	3	..	..	..	..	..	..	..	..	74	8	-17	34	4	..
Tiritea	100	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Waitarere Forest	3	12.0	1.9	7.0	-1.4	18.6	3	-4.0	19	70	9	-16	26	4	..
Levin	46	12.0	4.3	8.2	-0.7	17.7	3	-0.4	9	75	12	-34	22	4	99
Titahi Bay	31	11.6	5.6	8.6	..	15.8	3	-0.2	9	143	17	..	72	25	..
Taita, Lower Hutt	65	11.1	5.0	8.1	-0.5	17.2	3	-0.5	9	204	19	+62	76	25	..
Avalon, Lower Hutt	15	11.5	5.5	8.5	-0.2	16.9	3	-0.2	19	205	17	+40	83	25	..
Kelburn, Wellington	125	10.6	6.4	8.5	-0.4	15.6	3	2.4	30	199	20	+64	60	25	61
Somes Island	43	10.8	6.6	8.7	..	16.5	3	2.2	30	155	17	..	30	4	..
Gracefield, Lower Hutt	34	11.0	5.9	8.5	-0.8	17.0	3	1.0	30	234	19	+84	91	25	..
Wainuiomata	82	10.9	4.9	7.9	-0.3	17.1	3	-1.7	30	408	20	..	134	25	..
Wellington Airport	6	11.7	6.8	9.3	-0.3	16.8	3	0.9	30	154	20	+47	49	25	..
Rimutaka Forest	40	11.0	5.5	8.3	..	16.5	3	-0.9	9	286	21	..	85	25	..
Kaitoke	223	10.2	3.5	6.9	+0.1	16.3	3	-3.3	9	285	22	+64	79	4	50
Wallaceville	56	11.2	3.6	7.4	-0.5	17.6	3	-4.1	9	195	18	+63	52	25	57
Cape Egmont	8	13.4	5.6	9.5	-1.0	16.0	2	-0.6	20	164	15	+4	69	4	..

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Metres	°C	°C	°C	°C	°C	°C	°C	°C	mm	mm	mm	mm	Hrs		
Oaonui	30	
Stratford Mountain House	846	6.6	0.8	3.7	-0.8	10.6	2	-3.0	16	606	17	-90	174	3	
Stratford Dem. Farm	311	10.7	3.0	6.9	-0.9	14.7	4	-1.9	16	245	15	+24	85	3	
Manaia Dem. Farm	98	12.0	3.7	7.9	-1.3	16.0	3	-3.4	16	159	19	+14	78	4	
Normanby	122	11.6	3.4	7.5	..	15.8	3	-4.0	19	169	17	..	45	4	
Patea	43	12.5	5.7	9.1	-0.8	18.0	2	1.0	9	196	11	+84	73	4	
Ohakune Junction	629	8.6	0.4	4.5	..	13.9	3	-4.5	16	58	12	..	16	4	
Karioi	648	8.9	-0.1	4.4	-1.1	14.9	3	-4.4	2	50	13	-77	22	4	
Waiouru	823	7.5	0.1	3.8	-0.5	13.5	1	-5.0	14	50	13	-72	21	4	
Waiouru Military Camp	823	7.0	-0.1	3.5	-0.5	12.7	1	-5.3	16	55	15	-67	23	4	
Ahu Ahu Valley	85	12.1	2.9	7.5	..	17.0	3	-1.3	15	124	13	..	57	4	
Taihape	433	..	..	..	..	..	..	..	..	43	17	..	23	4
Kahui, Taihape	518	..	..	..	..	..	..	..	..	..	..	..	..	..
Wanganui	22	12.7	4.4	8.6	-0.9	18.8	3	-1.6	16	97	13	+6	51	4	
Wanganui Airport	9	12.8	4.2	8.5	..	18.2	3	-0.8	16	96	11	..	50	4	
Farewell Spit	3	13.0	6.3	9.7	+0.3	16.0	4	1.1	12	115	13	-2	29	21	
Totaranui	10	12.8	5.1	9.0	..	16.2	4	1.4	16	138	10	..	38	21	
Westport Airport	2	13.0	4.3	8.7	+0.0	15.2	3	0.8	16	129	10	-59	54	22	
Cobb Dam	823	8.0	-1.8	3.1	-0.8	13.0	1	-6.2	16	285	11	+89	111	21	
Arapito	20	13.2	4.0	8.6	..	17.5	3	0.2	20	119	6	..	47	22	
Lake Rotoroa	443	8.8	-0.4	4.2	..	12.0	3	-3.8	16	129	9	..	42	3	
Lake Rototoi	634	8.9	-2.1	3.4	+0.1	12.0	1	-6.5	17	134	9	-8	35	21	
Hokitika Airport	39	12.4	2.7	7.6	+0.1	14.8	3	-2.2	19	119	9	-110	43	21	
Reefton	198	7.9	-0.6	3.7	-1.1	14.8	3	-6.5	17	112	7	-58	39	3	
Barrytown	30	13.9	7.0	10.5	..	16.5	21	3.2	17	76	6	..	41	22	
Totara Flat	77	10.6	-0.5	5.1	-0.7	15.9	3	-5.2	16	77	7	-86	35	3	
Greymouth	4	12.3	4.3	8.3	+0.0	16.0	3	0.1	17	77	6	-119	39	22	
Otira Substation	383	10.1	0.8	5.5	..	15.0	3	-3.5	15	216	9	-155	89	3	
Springs Junction	421	..	..	..	..	..	..	..	..	110	6	-68	47	3
Hari Hari	45	12.9	-0.3	6.3	+0.3	15.6	4	-5.1	20	129	7	-125	44	21	
Franz Josef	122	13.0	1.6	7.3	+0.3	16.0	1	-3.5	15	147	8	-150	72	3	
Fox Glacier	152	12.7	2.5	7.6	..	15.3	1	-1.1	20	209	8	-108	77	21	
Milford Sound	3	7.9	0.7	4.3	-1.4	16.2	2	-3.3	20	154	5	-265	50	1	
Puysegur Point	43	10.6	5.8	8.2	..	15.7	2	3.5	19	128	17	-83	38	2	
Stephens Island	187	11.1	7.3	9.2	..	15.2	2	-3.0	19	40	10	-36	12	22	
Riwaka, Motueka	8	12.6	1.1	6.9	-0.6	15.6	3	-3.1	17	232	9	+113	116	21	
Tapawera	146	11.7	-1.3	5.2	..	15.8	1	-6.0	19	152	9	..	46	21	
Craik Bay Pelorus Sd	13	11.9	6.3	9.1	..	16.4	4	2.6	9	140	12	..	49	22	
Appleby	17	12.3	2.2	7.3	-0.5	15.4	4	-2.0	17	152	8	+71	63	21	
Nelson Airport	2	12.2	1.4	6.8	-0.2	16.8	4	-2.7	17	147	8	+68	61	21	
Rai Valley	79	..	..	..	..	..	..	..	..	..	..	..	..	..
Moutere Hills	110	11.7	4.8	8.3	+0.0	14.4	4	0.8	17	167	8	+73	64	21	
Blenheim Airport	27	11.9	2.1	7.0	+0.0	17.6	3	-2.0	18	93	10	+32	26	24	
Brancott Valley	64	12.1	1.9	7.0	..	17.4	2	-2.0	14	94	11	..	22	24	
Blenheim	4	12.6	2.0	7.3	-0.1	18.1	1	-1.9	8	88	10	+30	26	24	
Waihopai Power Station	262	10.3	0.7	5.5	-0.9	16.6	2	-2.5	17	142	8	+73	33	3	
Vernon Lagoons	2	12.5	1.6	7.1	+0.1	17.2	2	-2.8	8	93	10	..	33	25	
Lake Grassmere	2	11.7	4.6	8.2	+0.5	16.7	2	-0.7	8	141	8	+90	59	25	
Cape Campbell	3	11.9	7.3	9.6	+0.6	15.2	2	4.5	10	116	10	+50	52	25	
Hanmer Forest	387	8.7	-1.3	3.7	-0.5	18.0	3	-6.6	18	192	10	+93	84	24	
Molesworth	893	..	..	..	..	..	..	..	..	..	..	..	..	..
Kaikoura Flats	24	11.4	3.3	7.4	..	18.5	1	-0.5	8	160	8	..	83	24	
Kaikoura	108	10.4	6.0	8.2	-0.2	18.0	1	3.5	16	148	11	+82	71	24	
Arthurs Pass	738	5.9	-3.1	1.4	..	12.0	3	-8.9	19	..	..	..	..	..
Balmoral Forest	198	9.9	0.2	5.1	+0.2	19.2	3	-5.0	18	154	13	+103	100	24	
Hawarden	244	..	..	..	..	..	..	..	..	..	..	..	..	..
Waiarau	137	..	..	..	..	..	..	..	..	..	..	..	..	..
The Hermitage, Mt Cook	765	5.9	-2.6	1.7	-1.2	15.9	2	-6.2	21	155	7	-96	75	3	
Mt John	1027	4.1	-1.1	1.5	-1.0	11.6	2	-5.4	6	38	5	-3	14	3	
Craigieburn Forest	914	..	..	..	..	..	..	..	..	..	..	..	..	..
Lake Coleridge	364	8.8	-0.5	4.2	-0.2	16.5	2	-5.1	19	44	8	-27	21	24	
Highbank Power Station	336	8.7	2.2	5.5	-0.9	16.0	2	-2.0	18	51	9	-10	19	24	
Hororata Substation	192	10.2	-0.1	5.1	+0.2	20.2	2	-5.0	19	41	13	-15	15	3	
Winchmore	160	9.7	0.8	5.3	+0.1	18.8	2	-3.3	18	58	6	+2	20	3	
Peel Forest	274	9.1	-0.4	4.4	..	19.1	2	-5.0	19	55	11	..	28	24	
Ashburton	101	10.1	0.1	5.1	-0.7	20.9	2	-4.1	18	43	8	-13	13	3	
Waipara	64	10.8	1.8	6.3	..	20.7	3	..	..	74	13	..	47	24
Ashley Forest	107	10.4	2.9	6.7	-0.1	20.4	1	-1.0	15	37	7	-16	24	24	
Rangiora	46	11.0	1.2	6.1	+0.2	22.1	1	-4.0	15	25	12	-16	13	24	
Darfield	195	10.2	1.9	6.1	+0.6	18.9	1	-3.1	18	46	9	-12	14	3	
Eyrewell Forest	158	10.4	0.8	5.6	+0.3	20.9	1	-3.4	18	22	9	-36	9	24	
Christchurch Airport	30	10.7	0.5	5.6	-0.3	21.4	1	-4.5	18	24	16	-32	5	25	
Templeton	46	10.5	0.4	5.5	..	20.1	2	-4.1	18	20	11	..	4	25	
Christchurch	7	11.1	1.7	6.4	+0.1	21.7	1	-2.5	18	29	14	-27	8	11	
Bromley, Christchurch	9	11.0	3.0	7.0	+0.2	19.3	2	-1.6	15	20	14	-33	6	24	
Mt Pleasant	137	10.8	5.5	8.2	+0.1	20.5	1	2.5	15	37	14	-29	15	11	
Lincoln	11	10.5	0.9	5.7	-0.1	20.0	2	-4.4	18	32	13	-26	7	25	

CLIMATOLOGICAL TABLE—Summary of the Records of Temperature, Rainfall, and Sunshine for June 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	mm	Hrs		
Akaroa	3	11.1	2.3	6.7	..	20.0	2	-1.0	8	78	17	..	15	25	..
Lake Tekapo	683	4.4	-3.5	0.5	-2.3	14.0	2	-7.5	17	125	6	+77	99	10	..
Lake Pukaki	556	4.1	-3.2	0.5	-1.8	13.3	1	-7.9	17	38	6	..	24	3	..
Fairlie	304	8.7	-3.5	2.6	..	19.0	2	-8.9	18	39	4	..	20	24	..
Twizel	457	3.8	-5.2	-0.7	-2.5	12.0	1	-9.0	19	41	6	..	29	3	..
Ikawai	70	10.0	-0.9	4.6	-0.5	17.0	2	-5.0	17	1	2	..	1	24	..
Geraldine	119	10.2	-0.6	4.8	..	17.5	2	-4.8	19	34	4	..	17	24	..
Orari Estate	81	9.7	-0.4	4.7	+0.1	17.3	2	-4.6	19	31	9	-12	17	24	..
Temuka	24	10.2	0.2	5.2	-0.2	16.4	2	-3.5	19	17	3	-21	12	24	..
Timaru Airport	26	10.2	-0.5	4.9	-0.4	15.6	2	-4.2	18	13	3	-23	8	24	..
Adair	85	10.2	..	..	..	17.1	2	..	..	12	5	-24	7	24	..
Timaru	17	9.9	1.2	5.6	-0.3	15.1	2	-2.2	15	12	6	-24	6	3	124
Waimate	61	11.3	1.1	6.2	-0.4	18.4	2	-3.0	15	14	5	-27	10	3	..
Kurow	207	8.6	0.1	4.4	..	17.2	1	-5.2	16	16	3	..	14	3	..
Oamaru Airport	30	9.9	1.0	5.5	-0.2	17.1	2	-2.6	18	10	7	-23	7	3	125
Tara Hills, Oamarua	488	5.1	-4.3	0.4	-1.9	14.1	1	-9.4	16	22	3	-8	20	3	142
Lake Hawea	350	5.3	0.5	2.9	-1.3	15.1	2	-2.0	6	35	4	-23	25	3	..
Wanaka	296	5.8	-0.2	2.8	-1.0	15.5	2	-4.5	6	46	6	-5	25	3	..
Queensberry	277	5.1	-0.2	2.5	..	15.0	1	-3.8	16	29	7	..	23	3	..
Bendigo	200	5.8	0.2	3.0	..	15.8	2	-3.5	27	23	6	..	18	3	..
Naseby Forest	610	5.7	-3.0	1.4	-0.8	14.4	2	-8.2	20	22	4	-16	18	4	..
Windsor	88	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Oamaru	5	10.6	2.0	6.3	..	17.6	2	-2.6	18	18	5	..	11	3	..
Ranfurly	427	6.2	-2.1	2.1	..	13.6	1	-7.4	20	18	9	..	12	3	85
Herbert Forest	61	10.6	0.5	5.6	+0.0	15.2	23	-3.8	19	12	6	-28	7	3	..
Palmerston	21	10.8	0.8	5.8	+0.6	16.8	1	-6.6	18	13	7	..	8	3	106
Cherry Farm Hospital	6	10.8	1.7	6.3	+0.2	17.3	2	-2.6	18	14	9	-39	8	3	..
Taiaroa Head	72	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Invermay, Taieri	30	9.3	1.9	5.6	..	16.5	1	-6.1	18	62	13	..	20	3	79
Berwick Forest	18	9.7	1.8	5.8	+0.6	18.7	2	-6.0	18	45	11	-16	18	3	..
Dunedin Airport	1	9.7	0.8	5.3	+0.4	20.1	1	-7.9	19	45	12	-8	17	3	90
Musselburgh, Dunedin	2	9.5	4.3	6.9	+0.1	18.0	2	-2.4	18	39	9	-27	17	3	87
Te Anau	215	6.8	1.2	4.0	-0.5	15.1	2	-3.2	5	64	7	-45	44	3	51
West Arm, Manapouri	232	4.8	1.0	2.9	-1.5	12.3	2	-3.5	21	122	9	..	55	1	..
Borland Burn	183	6.8	-0.3	3.3	..	15.5	2	-5.0	14	68	24	..	35	3	..
Queenstown	329	6.7	-1.0	2.9	-1.4	15.2	2	-4.8	20	30	6	-36	24	3	77
Queenstown Airport	349	5.9	-2.3	1.8	-1.3	15.3	2	-6.4	19	26	5	-26	22	3	..
Otama	183	7.0	-0.3	3.4	..	16.3	1	-7.4	21	43	12	-23	20	3	..
Cromwell	213	5.6	-0.4	2.6	-0.9	15.7	2	-4.8	5	24	7	-4	19	3	55
Northburn	210	5.8	0.0	2.9	..	16.9	2	-3.4	5	23	9	..	17	3	..
Lauder	370	4.3	-2.3	1.0	..	..	..	..	..	27	9	..	19	3	..
Clyde Dam	160	5.3	-0.6	2.4	..	16.3	1	-5.0	21	22	6	..	18	3	..
Ophir	305	4.2	-2.7	0.8	-1.5	14.9	2	-8.6	21	23	5	-2	20	3	..
Moa Creek	427	4.1	-3.0	0.6	-1.0	14.0	2	..	..	17	6	-6	12	3	..
Earnsclough	152	5.4	-2.1	1.7	-1.1	15.9	1	-6.6	16	19	6	-4	14	3	..
Roxburgh Power Station	110	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Deep Stream	396	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Beaumont	46	7.7	-0.3	3.7	..	15.8	1	-7.5	21	39	15	-55	18	3	..
Mahinerangi Dam	396	7.1	0.6	3.9	+0.0	14.5	1	-5.0	18	56	14	-23	17	3	..
Tapanui	226	7.5	1.2	4.4	-0.8	14.4	2	-4.2	18	54	14	-35	21	3	..
Taieri Mouth	15	9.7	3.4	6.6	+0.4	16.7	2	-3.4	19	50	8	-21	19	23	..
Tuatapere	27	9.0	1.8	5.4	..	18.0	2	-3.1	20	90	14	..	21	3	..
Otautau	55	8.6	0.0	4.3	-1.2	16.6	2	-7.1	20	63	14	-49	21	3	42
Winton	44	9.0	1.1	5.1	-0.6	17.7	2	-6.2	20	47	12	-27	19	3	94
Gore	123	7.4	0.8	4.1	-0.4	16.2	1	-5.5	21	43	17	..	21	3	91
Hokonui Forest	46	8.7	1.1	4.9	-0.5	17.1	1	-5.6	19	48	13	-43	16	3	..
Woodlands	47	8.9	1.7	5.3	-0.4	16.2	1	-4.9	21	52	22	..	14	3	..
Invercargill Airport	0	9.1	1.0	5.1	-0.4	16.7	2	-7.2	20	59	17	-48	15	3	91
Tiwai Point, Bluff	5	9.4	3.2	6.3	-0.4	16.4	2	-2.5	18	44	17	..	12	3	..
Stewart Island	3	9.4	2.5	6.0	..	14.0	1	-2.9	21	61	23	..	18	1	..
Milton	18	8.8	1.2	5.0	+0.1	16.9	2	-8.1	19	66	13	+0	22	23	..
Finegand, Balclutha	6	9.2	1.5	5.4	+0.1	16.0	1	-6.0	19	41	9	..	16	23	78
Owaka	5	10.0	1.9	6.0	..	15.5	2	-6.2	19	59	13	..	15	3	..
Nugget Point	129	8.7	4.0	6.4	+0.4	14.9	2	0.0	18	64	16	-22	17	3	..
Tautuku	61	9.5	3.2	6.4	..	15.3	1	-2.0	19	75	15	..	24	3	..
Nandi Airport, Fiji	19	28.9	19.8	24.4	+0.1	32.0	15	16.8	19	209	11	..	115	15	161
Rarotonga Airport	7	25.2	20.3	22.8	+0.4	27.6	18	14.9	6	65	12	-32	21	17	145
Totokoitu, Rarotonga	9	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Raoul Island	38	19.2	14.3	16.8	-0.5	22.5	17	11.0	29	181	18	31	37	16	121
Campbell Island	15	7.9	3.9	5.9	+1.1	9.6	1	-0.1	27	57	28	-73	12	21	4
Waitangi, Chatham Island	44	10.3	5.6	8.0	-0.7	14.5	3	0.2	13	74	26	-20	21	23	50
Scott Base, Antarctica	16	-22.7	-35.4	-29.1	-2.9	-6.4	10	-51.4	24	..	..	..	..	..	..

CLIMATOLOGICAL TABLE—Summary of the Records of Temperature, Rainfall, and Sunshine for June 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	Hrs		
LATE RETURNS AND CORRECTIONS															
Waiotemarama 03/1982	229	21.0	13.0	17.0	..	24.4	11	10.0	18	115	13	..	34	1	..
Port Fitzroy 05/1982	4	18.3	11.4	14.9	+0.6	19.9	4	5.7	30	106	19	-79	27	11	..
Maioiro Forest 05/1982	52	17.3	..	..	..	19.8	7	..	..	94	15	-41	26	20	..
Huntly 05/1982	34	16.9	8.0	12.5	..	19.9	11	1.6	30	85	18	..	23	14	..
Port Taharoa 05/1982	27	17.3	10.7	14.0	+0.3	20.0	11	6.1	29	80	..	..	..	..	..
Lower Retaruke 02/1982	223	24.9	11.2	18.1	+1.1	31.8	9	1.6	7	91	8	..	30	24	..
Lower Retaruke 03/1982	223	21.6	8.8	15.2	-0.4	25.8	10	1.1	16	102	10	..	28	31	..
Lower Retaruke 04/1982	223	18.0	4.8	11.4	-1.2	22.8	1	-1.7	23	50	8	..	17	8	..
Lower Retaruke 05/1982	223	14.5	3.7	9.1	-0.5	17.9	11	-2.3	4	157	15	..	34	14	..
Chateau, Mt Ruapehu 05/1982	1119	..	0.5	..	..	..	..	-4.0	2	224	..	-33	30	20	..
Castlepoint 05/1982	3	16.0	9.7	12.9	+0.6	20.0	27	5.5	5	69	11	-45	24	14	..
Gladstone, Arahura 05/1982	116	15.2	5.4	10.3	+0.3	19.4	19	-2.5	6	71	11	-41	30	1	..
Esk Forest 05/1982	427	13.9	5.8	9.9	+0.0	18.0	31	-0.5	29	55	14	-118	10	8	..
Havelock North 05/1982	9	17.0	3.6	10.3	-0.2	21.5	11	-1.8	27	29	10	-50	12	1	156
Wharite Peak 05/1982	914	7.9	3.6	5.8	+0.1	11.7	7	1.0	19	125	18	-71	19	20	..
Kairanga Palmerston North 05/1982	15	15.9	5.3	10.6	+0.0	19.8	8	-2.7	4	97	11	..	22	20	152
Palmerston North D S I R 05/1982	34	15.4	6.5	11.0	+0.0	19.0	8	1.2	4	105	16	+19	21	20	124
Tiritea 05/1982	100	14.9	6.9	10.9	..	18.4	8	2.6	27	101	15	..	22	20	..
Rimutaka Forest 04/1982	40	..	..	..	..	..	..	..	..	0	0	..	0	..	..
Rimutaka Forest 05/1982	40	14.9	7.5	11.2	..	17.8	27	0.0	5	48	13	..	19	14	..
Reefton 05/1982	198	12.0	4.0	8.0	+0.1	17.4	1	-1.1	3	296	20	+118	46	11	..
Crail Bay Pelorus Sd 05/1982	13	15.6	..	..	..	17.8	8	..	..	116	11	..	39	11	..
Windsor 05/1982	88	14.0	5.1	9.6	..	19.2	30	0.0	4	37	5	..	19	12	..
West Arm, Manapouri 04/1982	232	11.5	5.5	8.5	-0.7	15.0	2	1.7	9	151	10	..	65	5	..
West Arm, Manapouri 05/1982	232	9.1	4.0	6.6	+0.2	13.5	29	0.0	3	685	20	..	136	19	..
Deep Stream 04/1982	396	13.6	-0.9	6.4	..	18.7	5	-7.5	27	18	9	..	7	6	..
Totokoitu, Rarotonga 05/1982	9	26.4	21.4	23.9	..	29.6	15	17.2	8	196	20	..	63	31	..
Raoul Island 03/1982	38	23.5	18.7	21.1	-0.8	26.3	2	15.8	13	114	24	-18	27	18	149
Raoul Island 04/1982	38	22.4	16.6	19.5	-1.2	24.8	11	13.0	17	64	15	-60	22	30	186
Raoul Island 05/1982	38	21.1	16.2	18.7	-0.1	23.6	11	12.4	20	122	14	-23	98	12	167
Scott Base, Antarctica 08/1981	16	-21.4	-35.4	-28.4	+2.8	-7.3	3	-49.4	25	..	..	..	..	..	..
Scott Base, Antarctica 09/1981	16	-25.7	-37.6	-31.7	-3.5	-13.6	8	-51.5	5	..	..	..	..	..	..
Scott Base, Antarctica 10/1981	16	-17.9	-29.6	-23.8	-1.0	-5.8	7	-47.4	4	..	..	..	..	..	..

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 DURING JUNE 1982

General—June was generally drier, cooler and less windy than usual. Mean sea level pressures at Campbell Island were unusually high, and consequently there was a very high frequency of light winds from the easterly quarter over New Zealand.

There was widespread fog over northern districts of the North Island on the 1st and 2nd, causing disruptions to both domestic and international air traffic. Widespread freezing fog on the 15th and again on the 16th blanketed the McKenzie Basin area of South Canterbury during the daytime.

Farmers over the country reported that the growth of grass was very slow, and in eastern South Island areas, the dry soil conditions which were reported in May continued through June. Most farmers noted that stock health was good.

Rainfall—Apart from central New Zealand, the rainfall over New Zealand during June was generally below average. Rainfall was particularly low about Westland and Fiordland, and in some eastern areas of the South Island.

In parts of central New Zealand, more than 150 percent of the usual June rain was recorded. Most of the month's rain fell between 9 a.m. on the 21st to 9 a.m. on the 26th. Those places measuring large daily totals during this time include Nelson, (61 mm on the 21st), Kaikoura (71 mm on the 24th), and Wellington (60 mm on the 25th).

Intense short period heavy rainfall leading to surface flooding occurred in New Plymouth on the 4th and in Auckland City on the 22nd. At New Plymouth, 30 mm was recorded between midnight and 7 a.m. In one hour at Auckland, 38 mm was measured. A rain storm of this magnitude normally recurs about once in every 40 years. The entire storm lasted nearly two hours.

Fresh falls of snow were observed on the South Island high country on the 4th and 21st, and on the North Island high country on the 7th.

Temperatures—Over the North Island mean temperatures were mostly 0.5°C to 1.0°C below average. Many areas of the South Island were close to or just below normal, although parts of Westland were more than 0.5°C above, and Central Otago and inland Southland were at least 1.5°C below the normal June temperatures. The low temperatures were largely due to the position of the semi-permanent anticyclone near Campbell Island which brought air from the far south of New Zealand.

There was a brief mild spell on the 1st and 2nd, during a period when north-westerlies covered the country. Maximum temperatures were above average, by as much as 8°C over the eastern South Island. Locations to record temperatures of at least 20°C during this time include Ashley Forest, Hororata, Christchurch and Ashburton.

During the 15th to 22nd there was a cold spell, which affected the southern half of the South Island, when maximum temperatures remained mostly below 10°C. Alexandra recorded maximum temperatures of below freezing on 4 consecutive days from the 18th to the 21st. The last time there were a number of days of below freezing maxima occurred in 1973.

Sunshine—Sunshine hours were above normal except in eastern areas of both islands where there was less than usual.

Among stations to have greatest departures this month were : Alexandra (-46 hours), Wellington (-44 hours), Gisborne (-39

hours), Hokitika (+30 hours), Westport (+29 hours), Tauranga (+26 hours), and Invercargill (+21 hours).

At Kelburn, Wellington there were only 61 hours of sunshine, and at Alexandra there were only 52 hours—the lowest totals ever recorded.

THE WEATHER SEQUENCE, JUNE 1982

1st-7th June

An anticyclone lay centred to the east of the North Island at the beginning of June, with a disturbed north-westerly flow across the south of the South Island. Apart from rain in some western areas the weather was fine and very mild until the 3rd. A complex depression had formed over the Tasman Sea by the 3rd and as an associated front moved onto the country, rain became widespread, apart from some eastern areas, on the 3rd and 4th. Temperatures remained mild. Rain began clearing from the south as the depression moved across the North Island on the 5th and a ridge from an anticyclone centred over Tasmania extended onto the south of the South Island. By the 7th the depression lay to the east of the North Island with a southerly to south-easterly flow across the country. Temperatures became cool and there were isolated outbreaks of rain.

8th-14th June

The anticyclone that was centred over Tasmania moved slowly south-eastwards during this period, to be centred close to Campbell Island by the 14th. Although most of the country had dry weather during this week there was some light rain or drizzle in the Cook Strait/South Wairarapa area between the 11th and 14th. Northern and western areas were without rain throughout this week and temperatures were cool.

15th-21st June

The weather continued to be dominated by the anticyclone which remained centred southeast of the South Island between the 15th and 20th. Light rain fell at times in Northland and in the east of both Islands. A weak stationary cold front, associated with a shallow trough of low pressure lying in the Tasman Sea brought rain to the north of the North Island on the 20th. Rain became widespread, and locally heavy, in the north and west of both Islands on the 21st.

22nd-30th June

The trough of low pressure covering the Tasman Sea at the beginning of the period drifted south to lie over the South Island, but by the 25th was lying across the central North Island. The trough brought rain to the country and heavy falls were recorded about central New Zealand on the 25th. By the 27th the trough had moved off New Zealand. A fine, cool south-west airflow covered the country and a narrow ridge of high pressure covered the western Tasman Sea. A cold front moved into the Tasman on the 28th. The ridge moved eastwards and a large slow moving anticyclone developed east of Canterbury on the 29th bringing fine frosty weather to the country. Cyclogenesis on the cold front occurred during the 28th, and the resulting shallow stationary depression covered the central Tasman Sea till the end of the month.

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J. S. HICKMAN, Director.

