



SUPPLEMENT

TO THE

NEW ZEALAND GAZETTE

OF

THURSDAY, 6 AUGUST 1987

*Published by Authority*

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WELLINGTON: MONDAY, 10 AUGUST 1987

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CLIMATOLOGICAL TABLE  
FOR JUNE 1987

NEW ZEALAND METEOROLOGICAL SERVICE

CLIMATOLOGICAL TABLE—Summary of the Records of Temperature, Rainfall, and Sunshine for June 1987

Station	Height of Station Above M.S.L.	Air Temperature in Degrees Celsius								Rainfall in Millimetres				Bright Sun—shine 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.			Maxi—mum	Date	Mini—mum	Date				Amount		Date
Metres	°C	°C	°C	°C	°C	°C	°C	mm	mm	mm	mm	mm			
Cape Reinga	191	16.1	10.9	13.5	+0.4	19.1	14	8.2	17	47	23	-76	10	27	..
Aupouri Forest	69	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Kaitaia	8	17.0	8.0	12.5	..	19.5	14	3.7	23	67	18	..	12	14	..
Kaitaia Observatory	85	16.0	9.2	12.6	..	18.3	14	4.8	17	72	18	..	13	25	130
Kerikeri M A F	79	16.9	7.4	12.2	..	19.1	5	4.2	17	55	17	..	12	27	..
Kerikeri Aero 2	150	16.2	7.7	12.0	..	18.3	5	4.0	17	53	18	..	12	25	..
Panguru	5	16.9	8.0	12.5	..	19.4	7	1.8	23	133	..	..	25	25	..
Kaikohe Dsir Edr	204	14.3	8.5	11.4	..	16.4	12	3.4	17	43	19	..	12	25	..
Waiootemarama	229	14.3	9.3	11.8	-0.1	16.6	12	5.1	23	151	24	..	40	25	..
Waipoua Forest	88	15.4	8.0	11.7	+0.3	18.0	14	3.0	23	151	23	-52	20	30	..
Dargaville Maf	20	15.8	8.5	12.2	+0.4	18.0	14	3.2	13	96	25	-61	15	5	98
Glenbervie Forest	107	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Whangarei Aero	37	16.0	8.7	12.4	+0.3	18.3	4	3.3	17	44	17	-137	12	25	..
Whangarei Hospital	29	16.4	7.6	12.0	-0.1	19.1	4	2.5	17	57	22	..	13	25	116*
Marsden Power Stn	3	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Poua	97	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Leigh 2	27	16.0	9.6	12.8	-0.1	17.6	2	4.4	17	70	18	-79	27	27	110
Warkworth	72	15.2	7.0	11.1	+0.1	17.5	14	1.5	17	105	23	-105	34	27	..
Woodhill Forest	30	15.6	7.6	11.6	+0.2	17.9	4	0.0	17	124	20	-31	33	25	..
Kumeu	32	15.7	6.6	11.2	+0.6	17.7	4	-1.2	17	152	22	..	35	25	..
Whenuapai Aero	26	15.4	7.2	11.3	+0.5	17.4	6	0.6	17	107	20	-53	28	25	..
Henderson, River Pk	4	15.8	6.5	11.2	..	18.0	15	-0.6	17	142	23	..	41	25	..
Auckland Owairaka	41	15.2	8.1	11.7	+0.5	16.8	4	1.8	17	122	22	-28	28	29	..
Port Fitzroy	4	15.8	..	..	..	17.5	13	..	..	154	22	-81	63	28	..
Little Barrier Is	2	15.8	10.6	13.2	..	17.4	12	7.0	16	71	22	-114	15	27	..
Rotorua Is	30	14.8	10.4	12.6	..	18.6	1	5.3	17	67	16	..	24	25	..
Awaroa Valley	30	15.6	7.5	11.6	..	18.5	27	2.4	17	93	21	..	26	25	..
Manukau Heads 2	244	13.5	9.4	11.5	..	16.0	14	6.2	17	94	24	-34	39	25	..
Coromandel	43	15.4	7.5	11.5	..	18.3	6	-0.4	17	77	19	..	11	25	..
Whangapoua Forest	4	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Thames 2	3	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Tairua Forest	3	15.1	5.1	10.1	-0.5	17.5	4	0.0	23	82	12	-132	42	25	..
Ngatea 3	1	15.1	4.8	10.0	..	19.0	4	-2.2	18	92	18	..	25	25	..
Paeroa	4	14.8	5.4	10.1	+0.4	18.5	4	-2.3	17	76	17	-61	30	25	..
Waihi	91	13.7	5.5	9.6	-0.1	17.6	14	-3.0	23	105	16	-135	40	25	98
Te Aroha	18	14.3	5.6	10.0	-0.2	17.3	15	-1.9	17	70	16	-86	16	25	..
Katikati	2	15.1	4.9	10.0	..	17.7	4	-1.2	17	74	10	..	35	25	..
Waitoa	18	14.5	5.2	9.9	..	17.0	4	0.5	23	75	15	..	21	25	..
Tauranga	2	14.9	7.0	11.0	+0.1	17.4	15	2.2	17	68	11	-58	23	27	..
Tauranga Aero	4	14.6	5.6	10.1	-0.1	17.1	15	0.9	17	70	12	-60	28	27	148
Te Puke	91	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Te Puke Edr	91	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Whakatane Aero	6	14.3	..	..	..	16.9	3	..	..	77	9	-48	15	14	167
Te Kaha	6	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Port Ohope	9	15.0	6.3	10.7	-0.1	17.0	4	1.9	17	48	10	..	19	25	158
Kinleith 2	383	10.9	3.5	7.2	-0.2	13.6	15	-3.0	17	120	14	-44	30	14	..
Tikitere	338	11.6	4.8	8.2	+0.0	14.0	4	-1.0	17	74	11	..	23	27	..
Kawerau	30	14.6	4.3	9.5	-0.2	17.0	4	-1.0	24	111	10	-52	26	27	..
Te Teko	8	14.4	4.1	9.3	-0.2	18.0	6	-0.5	17	74	10	-65	17	14	129
Rotorua Aero 2	287	12.5	3.4	8.0	-0.1	14.8	15	-3.0	23	56	10	-84	14	27	127
Atiamuri Power Stn	253	12.3	3.0	7.7	+0.1	14.6	7	-1.8	22	87	14	-40	20	14	..
Kaingaroa Forest	544	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Murupara	198	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Ohaaki	350	11.5	2.1	6.8	..	14.3	3	-3.8	17	63	22	..	12	25	..
Taupo Nzed	376	11.3	2.9	7.1	-0.2	13.9	15	-2.5	22	54	11	-60	12	14	95
Wairakei Power Stn	342	11.5	2.5	7.0	-0.5	14.0	15	-2.5	16	69	12	-46	19	14	..
Wairakei Research Stn	402	11.7	1.7	6.7	-0.1	14.2	15	-4.7	17	74	12	-39	21	14	..
Minginui Forest	366	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Taupo Aero	400	10.8	2.3	6.6	-0.3	13.5	15	-5.5	17	50	11	-44	10	30	..
Waimihia Forest	762	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Opotiki	6	14.7	4.2	9.5	-0.4	17.3	10	-0.5	17	79	10	-48	25	15	125
Waimana	37	14.5	1.6	8.1	-0.3	16.7	8	-4.2	23	65	12	-96	21	14	..
Matawai Maf Edl	580	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Auckland Mangere	4	15.2	8.7	12.0	+0.7	17.0	14	1.1	17	115	21	-23	35	25	89
Auckland Aero	8	14.9	8.5	11.7	+0.5	17.6	4	2.4	23	91	17	-37	27	25	96
Ardmore	30	14.9	5.7	10.3	-0.1	17.6	2	-2.4	17	118	24	-28	30	25	..
Pukekohe Maf	82	14.6	7.0	10.8	+0.4	16.5	2	-0.9	17	136	20	..	35	25	68
Pukekohe Edr	82	14.4	7.2	10.8	..	16.6	4	-0.3	17	213	21	..	54	25	..
Maio Forest	52	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Hunua	122	14.5	5.2	9.9	..	17.2	4	-2.6	17	144	23	..	26	25	..
Maramarua Forest	38	14.6	5.0	9.8	+0.3	17.2	4	-1.6	17	90	18	-42	15	25	..
Te Kawwhata Maf	32	14.3	5.9	10.1	+0.1	17.1	4	-2.0	17	101	23	-20	26	25	68
Ruakura	40	13.7	4.6	9.2	+0.1	16.4	4	-3.1	17	106	18	-25	33	25	82
Whatawhata	104	13.6	5.4	9.5	-0.2	16.2	4	-1.3	17	149	23	-29	39	29	62
Hamilton Aero	50	14.1	3.6	8.9	+0.2	16.2	15	-3.9	17	114	16	-18	33	25	..

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Station	Height of Station Above M.S.L.	Air Temperature in Degrees Celsius								Rainfall in Millimetres					Bright Sun—shine
		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	Hrs		
Cambridge	76	13.5	4.8	9.2	+0.2	16.4	15	-2.2	17	92	17	-25	27	29	..
Mokau Mohakatino Stn	46	13.6	6.9	10.3	-0.1	16.3	3	1.3	17	167	17	+6	53	14	..
Arapuni Power Stn	123	13.0	4.1	8.6	-0.1	18.4	2	-4.5	17	116	16	-33	33	25	..
Waikeria	46	13.5	3.9	8.7	+0.2	16.2	15	-3.5	17	98	14	..	21	25	..
Te Kuiti Wepb	61	13.3	4.8	9.1	+0.3	15.7	2	-1.5	17	97	17	-66	22	14	58
Wairere	122	12.9	4.3	8.6	..	15.4	2	-2.0	17	112	25	-64	20	15	..
Pureora Forest	549	9.6	1.9	5.8	-0.4	11.4	3	-4.5	23	121	24	-70	15	15	..
Mangakahu Valley	397	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Taumarunui	171	12.3	3.4	7.9	+0.0	15.0	15	-3.5	17	140	20	+0	25	14	34
Tokirima	152	12.3	3.3	7.8	..	15.4	19	-3.4	17	159	15	..	32	29	..
Omata	61	14.4	8.3	11.4	+0.2	17.7	3	3.2	17	117	19	-26	17	24	..
New Plymouth	55	..	..	..	..	..	..	..	..	..	..	..	..	..	..
New Plymouth Aero	27	13.8	6.3	10.1	+0.2	16.1	14	0.4	17	122	18	-28	23	27	98
North Egmont	955	7.4	2.1	4.8	..	10.6	2	-2.7	17	519	21	..	173	14	..
Lower Retaruke	223	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Turangī	366	11.5	1.7	6.6	-0.5	13.9	15	-4.1	23	97	12	-68	21	14	101
Mt Ruapehu Chateau 2	1097	..	-0.8	..	..	..	..	-7.4	17	268	..	..	64	29	..
Ruapehu The Chalet	1941	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Mt Bruce Res	305	11.5	3.2	7.4	+0.6	15.7	8	-4.0	23	166	15	-66	55	29	..
Waingawa	114	13.1	2.6	7.9	+0.2	17.7	14	-3.0	23	48	14	-51	10	15	120
Kopua	311	11.7	3.6	7.7	+0.4	16.1	15	-2.7	23	51	14	-58	14	19	..
Waipukurau Aero	137	12.7	2.5	7.6	+0.0	18.4	15	-2.4	23	37	9	-46	8	25	138*
Dannevirke	207	12.2	4.0	8.1	+0.3	16.8	14	-3.3	23	59	14	-38	12	15	95
Porangahau	8	14.2	5.1	9.7	..	19.6	15	-0.5	23	63	12	..	17	25	..
Castlepoint Light	3	13.7	8.2	11.0	+0.7	17.5	1	3.9	23	55	16	-50	13	30	..
Ngaumu Forest	244	11.8	2.2	7.0	+0.1	17.0	1	-3.5	23	55	21	-79	9	29	..
Tauherenikau	43	13.3	5.1	9.2	+1.0	16.5	8	0.1	2	71	14	-33	23	15	103
Waiorongomai	21	12.6	5.8	9.2	+0.8	16.0	1	-0.1	11	109	17	-60	30	15	..
Martinborough	30	13.4	3.7	8.6	..	17.5	1	-1.8	23	35	13	..	12	15	100
Ruatoria	61	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Mangatu Forest	182	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Gisborne, Manutuke	90	15.1	3.5	9.3	-0.3	19.4	3	-2.5	23	72	12	-35	23	25	..
Gisborne Aero	4	14.7	4.3	9.5	-0.3	18.8	15	0.2	16	89	11	-32	31	28	156
Waikaremoana Onepoto	643	10.5	3.7	7.1	+0.2	15.0	3	-1.5	17	94	12	-108	21	26	..
Whararata Forest	439	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Tokomaru Bay Maf Edl	244	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Esk Forest	427	12.0	..	..	..	16.7	1	..	..	81	10	-102	19	25	..
Ngamatea Nzfs	885	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Kaweka Forest	414	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Napier Aero	2	14.6	4.2	9.4	+0.1	18.8	4	-0.3	17	52	10	-48	17	28	..
Napier Nelson Pk	2	15.0	4.2	9.6	+0.1	19.8	15	-1.6	17	57	11	-37	21	28	161
Havelock Nth Dsir 2	9	14.9	1.3	8.1	..	20.2	15	-3.5	17	39	9	..	20	28	138
Havelock Nth Edr	9	14.7	1.0	7.9	..	20.0	15	-3.9	23	42	10	..	22	28	..
Hastings Civic Sq.	16	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Whakatu	6	14.6	2.6	8.6	..	19.8	15	-2.1	17	42	8	..	20	28	..
Gwas Forest	335	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Makaretu	335	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Ongaonga Thornton	190	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Mohaka Forest	286	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Wairoa Frasertown	8	14.7	3.8	9.3	-0.4	19.2	15	0.2	23	77	9	-69	27	28	..
Wairoa Hospital	20	14.7	4.6	9.7	+0.0	19.2	15	0.0	17	64	8	-66	25	28	143
Kapiti Is	16	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Paraparaumu Aero	7	13.0	6.5	9.8	+0.8	15.5	3	-0.1	17	76	14	-24	26	14	98
Bulls Flockhouse	9	13.5	5.5	9.5	+0.6	16.4	14	-1.5	18	62	18	-21	20	14	..
Ohakea Aero	48	13.1	6.2	9.7	+0.6	16.0	14	0.9	17	62	21	-23	18	15	86
Palmerston N Kairanga	15	13.3	4.9	9.1	+0.9	16.1	14	-1.5	17	54	13	-27	16	14	94
Palmerston N Aero	45	13.2	5.5	9.4	+1.2	16.0	4	-2.4	17	74	15	-8	20	14	..
Palmerston N Dsir	34	13.3	6.0	9.7	+0.9	16.3	14	-1.0	17	68	19	-19	22	14	65
Foxton	9	13.6	5.3	9.5	..	16.1	11	-2.1	22	90	21	..	23	14	82
Waitare Forest	3	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Levin Maf	46	13.0	6.1	9.6	+0.6	15.7	2	-0.9	17	75	16	-30	27	29	84
Titahi Bay Te Pene Av	31	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Lower Hutt Avalon	15	13.3	5.8	9.6	+0.6	17.3	1	1.2	17	89	13	-56	30	14	..
Wellington Kelburn	125	12.4	7.3	9.9	+0.8	16.6	1	2.5	17	65	15	-74	23	14	106
Somes Is	43	12.6	7.6	10.1	+0.7	16.5	1	3.0	17	52	11	-87	20	14	..
Lower Hutt Gracefield	34	12.9	6.5	9.7	+0.3	17.0	1	1.2	17	81	12	-66	28	14	..
Wainuiomata Coast Rd	82	12.5	4.5	8.5	+0.2	16.4	1	0.2	17	88	13	-104	25	15	..
Wellington Aero	6	13.1	7.9	10.5	+0.7	16.8	1	3.9	17	45	13	-71	16	14	..
Rimutaka Forest	37	13.0	5.2	9.1	..	16.5	1	0.0	23	72	14	..	16	14	..
Kaitoke	223	11.8	3.7	7.8	+0.7	15.0	19	-1.6	12	161	21	-58	41	14	69
Wallaceville	56	13.0	4.5	8.8	+0.9	16.5	1	-1.5	17	101	18	-33	33	14	82
Stratford Dem Farm	311	11.9	4.6	8.3	+0.4	16.2	4	-1.3	17	129	15	-73	51	14	98
Kapuni	173	12.9	5.8	9.4	..	16.2	14	-0.4	22	98	21	..	39	15	..
Manaia Dem Farm	98	13.1	6.1	9.6	+0.2	16.5	14	-1.0	22	100	18	-29	34	15	85
Normanby Edr	122	12.6	5.8	9.2	..	15.9	14	-0.9	22	80	18	..	33	15	..

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		Means of		Mean of A and B	Differ-ence From Normal	Absolute Maximum and Minimum				Total Fall	No. of Rain Days	Differ-ence From Normal	Maximum Fall		
		A Max.	B Min.			Maxi-mum	Date	Mini-mum	Date				Amount		Date
Metres	°C	°C	°C	°C	°C	°C	°C	mm	mm	mm	mm	Hrs			
Normanby Maf	122	13.2	5.6	9.4	+1.1	15.9	14	-0.9	22	87	23	..	32	15	..
Patea Hospital	43	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Pipiriki 2	80	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Ohakune Junction 2	629	8.7	2.2	5.5	+0.0	11.1	14	-3.5	23	98	..	-51	..	..	..
Karioi 2	648	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Waiouru Mwd	823	8.3	1.2	4.8	+0.3	13.4	14	-6.0	17	88	18	-19	25	29	..
Waiouru Military Camp	823	7.7	0.3	4.0	-0.3	12.9	14	-6.6	17	93	22	-14	24	29	..
Ahu Ahu Valley	85	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Taihape Rec	433	10.9	1.2	6.1	-0.1	14.3	14	-4.7	17	85	23	-2	30	29	..
Taihape Kahui	518	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Wanganui Cooks Gdns	22	13.8	6.8	10.3	+0.6	17.0	14	1.2	23	109	19	+22	41	15	106
Wanganui Aero	9	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Takaka Kotinga 2	25	13.7	3.1	8.4	..	18.2	3	-0.1	9	100	13	..	53	14	121
Totaranui	10	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Westport Aero	2	13.0	6.2	9.6	+0.8	15.6	3	1.2	16	220	21	+34	49	14	69
Westport Te Kuha Edl	680	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Cobb Dam	823	8.5	0.6	4.6	+0.7	13.4	9	-3.0	17	132	15	-64	40	14	..
Arapito	20	13.5	..	..	..	15.6	24	..	..	222	15	..	74	14	61
Lake Rotoroa	443	8.6	1.3	5.0	..	10.7	2	-2.5	17	159	..	..	49	14	..
Lake Rototoi	634	8.5	-0.2	4.2	+0.8	12.5	3	-4.6	18	138	16	+18	48	29	..
Hokitika Aero	39	12.0	5.2	8.6	+1.0	15.3	26	-0.4	16	259	19	+54	96	13	61
Punakaiki Rocks	4	12.9	8.2	10.6	..	15.2	3	3.5	16	241	20	..	50	14	..
Reefton Nzfs	198	10.2	3.2	6.7	+1.9	13.4	3	-0.6	12	166	17	+5	45	14	..
Barrytown	30	12.8	7.8	10.3	..	15.0	3	4.0	16	240	15	+49	46	13	..
Totara Flat	77	11.0	3.8	7.4	+1.7	14.1	21	-0.5	16	184	..	+26	..	..	..
Greymouth Aero	4	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Otira Substation	383	9.1	2.5	5.8	+1.1	13.2	14	-1.2	17	474	15	+107	130	13	..
Springs Junction	421	8.0	1.2	4.6	+0.9	10.6	10	-3.0	22	232	18	+42	66	14	..
Pukekura	86	11.8	3.3	7.6	..	14.7	26	-1.8	16	374	18	..	169	13	..
Harihari Nzfs	45	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Okarito	10	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Franz Josef	155	11.3	4.7	8.0	..	14.9	26	0.0	17	513	18	..	195	13	59
Fox Glacier Main Rd	152	11.2	4.0	7.6	+0.9	14.8	26	-0.9	16	465	17	+184	188	13	..
Milford Sound	3	10.0	3.3	6.7	+1.0	13.8	2	-0.3	23	661	19	+247	184	3	..
Deep Cove 2	3	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Stephens Is	187	12.2	7.4	9.8	+0.3	14.4	4	5.0	16	68	8	-6	26	14	..
Motueka Dsir	8	14.0	2.1	8.1	+0.5	18.7	4	-1.8	17	42	11	-81	15	14	138
Tapawera	146	12.8	-0.2	6.3	..	16.3	1	-3.8	18	64	..	..	..	..	..
Pelorous Sd Crail Bay	13	13.1	7.0	10.1	..	17.5	19	2.0	17	88	15	..	52	14	..
Appleby	17	13.4	4.1	8.8	+0.9	16.5	4	-0.1	18	28	9	-53	12	29	..
Nelson Aero	2	13.0	3.1	8.1	+0.9	15.8	4	-1.0	18	23	8	-56	11	29	145
Rai Valley	79	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Blenheim Research	4	14.0	3.5	8.8	..	17.4	3	-0.2	23	26	7	..	14	14	155
Wairau Valley	162	12.5	1.8	7.2	..	15.8	4	-4.2	23	32	9	..	16	14	..
Blenheim Aero	64	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Brancott Valley	64	13.8	3.0	8.4	..	17.6	4	-2.0	23	25	7	..	17	14	..
Spray Point Waihopai	457	11.3	-0.7	5.3	..	15.9	3	-5.8	23	46	8	-42	19	29	..
Duntroon	350	..	..	..	..	..	..	..	..	28	..	-42	16	14	..
Grassmere Salt Works	2	13.2	4.7	9.0	+1.0	18.0	1	-0.5	22	23	9	-28	6	15	135
Boyle River Lodge	600	8.9	0.6	4.8	..	12.8	11	-6.0	23	219	25	..	57	14	..
Hanmer Forest	387	10.9	0.4	5.7	+1.5	16.8	13	-6.2	23	67	14	-38	20	25	87
Molesworth	893	8.6	-2.2	3.2	+0.9	13.2	3	-8.7	23	14	7	-40	5	29	..
Kaikoura Weather Stn	108	12.5	6.6	9.6	+1.3	19.6	3	2.5	16	52	9	-16	21	26	120
Arthurs Pass	738	6.6	-0.1	3.3	..	9.7	7	-4.3	22	373	15	+88	99	13	..
Culverden Mwd	174	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Balmoral Forest	198	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Waiau Lyndon St 2	137	12.5	0.9	6.7	..	17.8	4	-4.5	23	39	6	..	18	15	..
Cheviot	85	12.5	1.8	7.2	..	18.4	4	-3.0	10	42	8	..	19	25	86
Mt Cook The Hermitage	765	8.2	0.3	4.3	+1.4	13.5	9	-4.6	23	382	16	+141	139	13	59
Mt John	1027	6.4	0.7	3.6	+1.1	13.0	12	-5.0	16	57	10	+18	15	13	..
Craigieburn Forest	914	7.7	-0.7	3.5	+1.0	12.4	1	-5.2	16	147	16	+46	48	14	..
Lake Coleridge	364	10.1	1.3	5.7	+1.2	15.7	12	-4.7	23	76	12	+8	25	13	..
Highbank Power Stn	336	10.4	3.4	6.9	+0.5	16.1	4	-1.3	23	53	12	-11	10	14	100
Hororata Substation	192	11.7	0.7	6.2	+1.2	17.4	4	-4.1	23	54	9	-4	18	25	102
Winchmore Maf	160	11.2	2.4	6.8	+1.4	17.7	4	-1.7	23	53	10	+0	14	25	..
Peel Forest	274	11.2	1.2	6.2	+1.5	19.0	12	-4.2	23	80	20	+31	23	14	..
Ashburton Council	101	11.7	2.4	7.1	+1.1	18.4	12	-1.0	10	55	11	+1	15	25	112
Ashley Forest 1	107	11.7	2.7	7.2	+0.3	19.0	4	-5.5	20	83	8	+28	22	15	97
Rangiora Nzfs	46	12.2	1.7	7.0	+1.0	18.9	4	-2.0	2	83	11	+35	39	25	..
Darfield	195	11.7	2.6	7.2	+1.4	18.4	4	-2.5	23	56	10	-5	16	25	..
Eyrewell Forest	158	..	..	..	..	..	..	..	..	65	..	+9	23	25	..
Christchurch Aero	30	11.9	1.6	6.8	+0.8	18.5	4	-3.1	10	89	8	+37	39	25	108
Christchurch Gardens	7	12.3	2.8	7.6	+1.1	18.9	4	-0.4	11	61	9	+2	32	15	..
Christchurch Bromley	9	12.4	4.0	8.2	+1.2	18.8	4	0.9	11	53	12	-2	21	25	..
Mt Pleasant	137	11.8	6.5	9.2	+1.0	18.0	4	0.6	16	74	15	+6	35	15	..

CLIMATOLOGICAL TABLE—Summary of the Records of Temperature, Rainfall, and Sunshine for June 1987—continued

Station	Height of Station Above M.S.L.	Air Temperature in Degrees Celsius								Rainfall in Millimetres					Bright Sun—shine
		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			
Lincoln	11	11.8	2.3	7.1	+1.1	18.6	4	-2.4	10	57	11	-2	35	15	93
Akaroa Rue Lavaud	3	13.3	3.5	8.4	+1.2	19.0	4	1.0	6	81	10	..	37	15	..
Lake Tekapo Nzed	683	7.5	0.2	3.9	+1.1	14.5	12	-4.0	17	66	10	+16	19	13	..
Fairlie Riverview Tce	304	11.2	-0.7	5.3	..	17.3	12	-4.9	10	53	8	..	11	13	..
Twizel Substation	451	6.8	-1.1	2.9	..	13.4	8	-9.7	17	46	8	..	17	13	..
Ikawai	70	12.3	1.0	6.7	+1.5	19.0	3	-5.5	24	51	10	+18	22	25	..
Geraldine Nzfs	119	11.9	1.9	6.9	+1.7	19.4	12	-3.6	23	64	10	+21	14	25	..
Orari Estate	81	11.4	1.7	6.6	+1.6	18.7	12	-1.8	23	61	13	+20	15	25	..
Temuka	24	12.2	1.7	7.0	+1.3	19.2	12	-1.2	6	59	10	+23	16	25	..
Timaru Aero	26	12.0	1.6	6.8	+1.4	18.7	4	-1.4	6	61	11	+28	23	25	..
Timaru 2	17	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Waimate	61	12.0	3.3	7.7	+1.0	18.7	3	-1.1	23	60	11	+21	17	25	..
Benmore Power Stn	253	9.4	3.0	6.2	..	16.1	2	-1.0	22	35	11	+3	14	13	..
Aviemore 2	241	10.5	3.0	6.8	..	16.2	12	-3.3	10	29	9	+1	10	13	..
Kurow	207	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Knobs Flat	375	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Tara Hills Edr	488	8.7	-1.1	3.8	..	14.2	3	-8.4	23	51	11	..	23	13	..
Lake Hawea	350	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Wanaka	296	9.1	1.0	5.1	+1.4	15.7	3	-3.6	21	65	13	+14	23	13	..
Queensbury Mwd	277	8.3	1.3	4.8	..	16.1	3	-3.0	21	40	20	..	11	25	..
Bendigo 2	200	9.0	1.2	5.1	..	17.1	3	-4.5	21	35	17	..	11	13	..
Naseby Forest 2	607	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Oamaru Spey St	5	12.2	3.7	8.0	..	19.0	12	-3.0	23	47	9	..	19	25	..
Ranfurlly Maniototo	427	9.3	-1.5	3.9	+1.5	16.5	2	-9.5	23	34	10	+8	10	14	52
Herbert Forest	61	11.2	1.7	6.5	+0.8	18.2	3	-3.0	23	80	10	+39	36	25	..
Palmerston	21	11.7	2.3	7.0	+1.7	19.1	11	-5.4	23	73	12	+27	31	25	75
Cherry Farm Hospital	6	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Taiaroa Head	72	10.6	5.8	8.2	+0.8	17.0	3	1.0	16	73	16	+16	18	25	..
Invermay Edr	30	10.3	2.9	6.6	..	17.4	11	-4.9	23	80	18	..	13	13	..
Berwick Forest	18	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Dunedin Aero	1	10.8	2.6	6.7	+1.6	18.0	2	-6.4	23	64	14	+13	12	13	67
Dunedin Musselburgh	2	10.8	5.4	8.1	+1.2	17.5	2	-0.6	23	88	17	+17	26	25	49
Te Anau Po	215	9.1	2.4	5.8	+1.2	14.8	11	-2.0	21	131	14	+29	36	12	59
Manapouri West Arm 2	232	7.6	2.5	5.1	+0.9	12.1	11	-1.0	22	428	22	+149	89	12	..
Borland Burn	183	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Queenstown	329	9.0	2.1	5.6	+1.3	15.9	3	-2.3	23	102	12	+32	28	13	62
Queenstown Aero	349	8.6	0.8	4.7	+1.4	15.8	3	-4.0	22	81	12	+27	25	13	..
Burwood Sub	490	8.2	0.7	4.5	..	13.5	11	-4.3	21	155	18	..	27	12	..
Cromwell Sub Stn	213	8.6	1.1	4.9	..	17.0	3	-3.3	22	30	11	-4	8	13	..
Cromwell Mwd	213	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Northburn	210	8.8	1.2	5.0	..	16.9	3	-3.4	21	28	18	..	7	25	..
Cromwell 2	213	8.5	0.6	4.6	..	17.0	3	-4.8	22	29	18	..	10	13	66
Lauder Edr	370	7.6	-0.8	3.4	..	16.0	2	-5.6	22	36	15	..	9	14	..
Clyde Dam	160	8.7	0.6	4.7	..	17.3	3	-3.9	22	36	13	..	13	13	..
Ophir 2	305	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Clyde Dsir	171	8.8	-0.6	4.1	..	18.0	3	-5.1	22	38	12	..	12	13	..
Alexandra B Council	141	9.0	-0.2	4.4	..	19.0	3	-4.7	22	39	8	..	12	13	63
Roxburgh Power Stn	110	9.6	2.1	5.9	+1.0	17.3	2	-4.5	22	56	12	+24	13	13	..
Ettrick No 1	83	10.4	1.0	5.7	..	18.5	2	-6.0	22	63	14	..	11	13	..
Ettrick No 2	91	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Beaumont Nzfs	46	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Mahinerangi Dam	396	7.7	2.2	5.0	+1.0	14.9	2	-3.5	24	122	19	+35	22	18	..
Tapanui	226	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Taieri Mouth	15	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Winton B Council	44	9.8	2.7	6.3	+0.7	16.2	3	-3.4	23	132	22	+52	25	12	41
Gore Edr	123	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Wyndham	20	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Invercargill Aero	0	10.1	3.7	6.9	+1.5	15.4	3	-2.6	22	126	21	+23	23	12	61
Tiwai Point	5	10.0	5.2	7.6	+1.0	14.3	12	-1.0	23	103	23	-10	17	3	..
Stewart Is	3	10.4	4.4	7.4	+1.2	15.5	11	-1.4	29	159	25	+28	47	3	..
Clinton School	120	9.5	2.4	6.0	..	15.2	2	-5.5	23	124	23	..	23	18	..
Balclutha Finegand	6	10.2	2.6	6.4	+1.0	15.9	2	-3.9	24	55	..	-7	11	25	60
Owaka	5	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Nugget Point	129	9.1	4.6	6.9	+0.6	15.5	2	1.3	23	102	24	+16	19	18	..
Tautuku	40	9.9	4.2	7.1	+0.5	16.9	3	-1.4	23	148	..	+6	21	18	..
Fiji Nadi Aero	15	28.9	17.0	23.0	-1.3	31.6	7	13.6	16	0	0	-74	0	..	187
Ci Rarotonga Aero	7	24.7	19.0	21.9	-0.7	27.0	6	13.4	25	105	10	-8	36	13	166
Ci Raro Totokoitu	9	23.7	18.2	21.0	-1.4	26.3	6	13.3	25	121	15	..	30	13	..
Raoul Is	38	20.1	14.5	17.3	-0.2	22.5	1	11.4	19	45	19	-111	13	1	150
Campbell Is	15	6.8	2.3	4.6	-0.2	10.0	11	-0.7	23	92	29	-28	9	4	4
Chatham I Waitangi	44	11.2	6.4	8.8	+0.2	14.6	4	0.4	22	90	25	-7	16	15	93
Chatham I Kaiangaroa	41	11.4	6.7	9.1	..	14.9	4	2.0	22	73	27	..	13	15	..
Ant Scott Base	16	-17.8	-28.4	-23.1	+3.2	-9.6	7	-38.9	18	..	..	..	..	..	..
LATE RETURNS AND CORRECTIONS															
Panguru 04/1987	5	..	..	..	..	..	..	..	..	201	..	..	..	..	..
Panguru 05/1987	5	18.9	8.9	13.9	..	20.5	3	2.6	3	94	..	..	27	18	..

CLIMATOLOGICAL TABLE—Summary of the Records of Temperature, Rainfall, and Sunshine for June 1987—continued

Station	Height of Station Above M.S.L.	Air Temperature in Degrees Celsius								Rainfall in Millimetres				Bright Sun—shine 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.			Maxi—mum	Date	Mini—mum	Date				Amount		Date
		Metres	°C	°C	°C	°C	°C	°C	°C	mm	mm	mm	mm		mm
Waiotemarama 05/1987	229	16.5	10.8	13.7	+0.0	18.1	3	6.8	4	87	18	..	25	18	..
Kumeu 05/1987	32	17.8	7.5	12.7	+0.1	21.0	19	0.2	3	88	16	..	19	29	..
Thames 2 05/1987	3	..	9.0	..	..	..	..	3.9	10	70	13	-50	19	29	..
Te Puke 05/1987	91	17.3	6.5	11.9	+0.0	20.4	10	0.2	3	88	10	-116	49	18	148
Te Puke Edr 04/1987	91	19.7	9.5	14.6	..	23.4	13	0.7	25	118	9	..	32	21	..
Te Puke Edr 05/1987	91	16.9	6.0	11.5	..	19.9	10	0.0	3	90	10	..	51	18	..
Te Kaha 04/1987	6	20.4	11.9	16.2	..	24.8	17	5.3	25	69	8	..	35	21	..
Te Kaha 05/1987	6	17.6	8.9	13.3	..	20.0	15	6.0	2	83	10	..	35	18	..
Wairakei Research Stn 05/1987	402	14.8	3.9	9.4	+0.3	18.7	10	-3.4	3	87	11	-18	29	18	..
Mangakahu Valley 05/1987	397	13.5	4.8	9.2	..	16.5	10	-0.5	8	128	13	..	39	19	..
Mt Ruapehu Chateau 2 05/1987	1097	10.3	1.2	5.8	..	15.2	10	-3.0	3	176	..	..	29	28	..
Ngaumu Forest 05/1987	244	15.3	4.8	10.1	+0.8	18.6	10	-0.5	8	51	11	-77	12	21	..
Esk Forest 05/1987	427	..	..	..	..	..	..	..	..	55	..	-86	..	..	..
Havelock Nth Edr 02/1987	9	..	..	..	..	..	..	..	..	36	5	..	24	15	..
Havelock Nth Edr 05/1987	9	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Totara Flat 05/1987	77	..	..	..	..	..	..	..	..	175	..	-19	..	..	..
Greymouth Aero 05/1987	4	14.6	8.3	11.5	+0.9	17.0	21	2.8	3	221	18	-5	57	18	59
Culverden Mwd 05/1987	174	15.5	3.9	9.7	..	21.0	28	-3.0	3	63	5	..	36	21	..
Lincoln 05/1987	11	15.2	5.7	10.5	+1.7	21.1	26	-0.4	23	63	8	-5	25	21	143
Lake Tekapo Nzed 05/1987	683	12.3	2.6	7.5	+1.5	16.9	16	-2.5	3	65	12	+5	21	18	..
Timaru 2 05/1987	17	14.5	6.1	10.3	..	19.6	28	1.0	24	144	6	..	54	21	130
Knobs Flat 04/1987	375	..	..	..	..	..	..	..	..	163	..	-68	..	..	..
Ranfurly Maniototo 04/1987	427	16.5	2.6	9.6	+0.5	23.6	7	-4.6	11	16	9	-25	5	30	120
Ranfurly Maniototo 05/1987	427	12.9	1.0	7.0	+1.7	18.9	4	-6.5	3	38	10	+6	20	18	95
Invermay Edr 12/1986	30	19.1	9.7	14.4	..	27.1	20	4.8	31	66	11	..	20	24	..
Invermay Edr 01/1987	30	21.8	10.2	16.0	..	28.2	15	2.7	24	73	12	..	25	22	..
Lauder Edr 03/1987	370	18.0	6.6	12.3	..	23.8	8	-0.5	26	121	12	..	41	9	..
Lauder Edr 04/1987	370	16.0	3.7	9.9	..	23.0	7	-2.5	11	23	11	..	9	9	..
Ettrick No 2 04/1987	91	16.7	4.0	10.4	..	24.6	28	-2.5	11	28	15	..	5	23	..
Ettrick No 2 05/1987	91	14.0	2.6	8.3	..	19.1	27	-3.5	3	53	12	..	20	18	..
Gore Edr 05/1987	123	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Ci Raro Totokoitu 03/1987	9	..	..	..	..	..	..	..	..	114	18	..	53	2	..
Ci Raro Totokoitu 04/1987	9	..	..	..	..	..	..	..	..	36	13	..	6	18	..
Ci Raro Totokoitu 05/1987	9	25.2	20.9	23.1	-0.3	28.9	1	16.3	28	303	22	..	84	17	..

The "normal" refers to the present site of the instruments. Standard period for normals is 1951–1980. 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 IN JUNE 1987

*General*—June was warmer and cloudier than usual over much of New Zealand, with rainfall below average over the North Island, and above average over the south of the South Island. Mean sea level pressures were near normal to the south of New Zealand, and up to 4 Hpa above normal over the North Island. Strong winds were infrequent over the North Island, but occurred on half the days of the month over the south of the South Island; being the highest frequency in June for at least 30 years. South-westerlies predominated again this month over the whole of the country. Light falls of snow were reported on roads in Otago and inland Canterbury on the 15th.

*Rainfall*—Rainfall totals were below normal throughout the North Island, and in the north of the South Island, especially in regions sheltered from the south-west (where totals were below 65 percent of normal for June). At Whangarei Airport rainfall at less than 30 percent of normal was the lowest for 20 years. In Blenheim and Nelson totals were also about 30 percent of normal, with both places recording approximately 20 mm. In south Westland, south Canterbury and central Otago rainfall was 50 to 100 percent above normal.

*Temperature*—Prior to the 15th mean daily temperatures were generally warmer than usual over much of New Zealand, after which it was colder. At Christchurch Airport there were only 3 days during the last 2 weeks when the maximum daily temperature exceeded 10°C. Over most of the North Island mean temperatures were near normal, but on the west coast, from Wanganui south, they were 0.5 to 1°C above normal. Mean temperatures were 1°C above normal in the south of the South Island, and 1.5 to 2°C higher in places in Otago and Southland. Night time minimum temperatures were the highest at both Invercargill and Dunedin Airports for at least 25 years, being almost 2.5 and 3°C above normal respectively. They were also 2°C higher than usual in Westland.

*Sunshine*—Hours of bright sunshine were about 120 percent of normal in eastern regions, from East Cape to the Kaikoura Coast. Cloudier than usual conditions prevailed in the west coast of the North Island, and over most of the South Island south of Kaikoura, including the West Coast. Just over half of the normal amount of sunshine was recorded at Hokitika Airport, the second lowest for June since records began in 1964. Only 70 percent of normal sunshine was recorded at Dunedin Airport, the lowest since records began in 1963.

J. S. HICKMAN, Director.

THESE MAPS ARE MEAN SEA LEVEL ANALYSES FOR 0000 HOURS. THEY WERE PREPARED BY NEW ZEALAND METEOROLOGICAL SERVICE MINISTRY OF TRANSPORT P.O. BOX 722 WELLINGTON











