



23

SUPPLEMENT

TO THE

NEW ZEALAND GAZETTE

OF

THURSDAY, 11 AUGUST 1983

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CLIMATOLOGICAL TABLE

FOR JUNE 1983

NEW ZEALAND METEOROLOGICAL SERVICE

CLIMATOLOGICAL TABLE—Summary of the Records of Temperature, Rainfall, and Sunshine for June 1983

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		mm		mm	mm	Hrs		
Cape Reinga	191	15.5	10.6	13.1	+0.2	19.0	11	5.3	4	150	23	+38	34	6	..
Kaitaia Airport	80	15.4	9.5	12.5	-0.1	17.8	9	2.8	4	163	24	+6	44	8	101
Aupouri Forest	69	15.5	..	..	..	18.4	13	..	..	186	22	+31	59	8	..
Kaitaia	8	16.4	8.9	12.7	..	18.8	11	-0.8	4	172	22	..	57	8	..
Kerikeri M A F	79	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Kerikeri Downs	79	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Kerikeri Aerodrome	150	15.1	7.6	11.4	..	19.1	9	2.0	4	235	22	..	107	8	..
Umawera	9	16.3	6.8	11.6	+0.4	19.5	10	-3.0	4	167	21	-1	54	8	..
Kaikohe	204	13.9	8.4	11.2	+0.0	18.5	9	1.4	4	258	24	..	112	8	96
Waiotemarama	229	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Waipoua Forest	88	15.1	7.8	11.5	+0.2	18.0	12	-1.8	4	242	21	+44	46	7	..
Dargaville	20	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Waitangi Forest	55	15.9	8.1	12.0	-0.4	18.4	9	3.0	4	208	19	+56	85	8	100
Glenberrie Forest	107	14.8	6.3	10.6	+0.3	17.9	9	-2.6	4	355	23	+154	124	8	..
Whangarei Airport	37	15.3	8.2	11.8	-0.2	18.2	9	1.2	4	277	23	+117	108	8	..
Whangarei	29	15.8	7.2	11.5	-0.4	18.5	9	0.0	4	274	22	..	91	8	75*
Marsden Power Stn	3	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Pouto	97	14.2	9.5	11.9	..	17.0	9	4.2	4	159	21	..	34	8	..
Leigh	27	15.3	10.3	12.8	+0.1	17.9	14	4.8	19	109	19	-34	25	6	101
Warkworth	72	14.3	7.1	10.7	-0.2	17.1	14	0.5	19	178	24	..	28	27	..
Oyster Point	0	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Woodhill Forest	30	15.0	8.1	11.6	+0.5	17.6	1	-1.0	4	133	23	-12	25	27	..
Riverhead Forest	28	14.9	6.7	10.8	+0.3	17.1	14	-0.5	4	151	18	-12	32	9	..
Kumeu	32	14.8	6.9	10.9	..	17.3	14	-2.9	4	153	23	..	29	9	..
Whenuapai	26	14.8	7.4	11.1	+0.5	17.1	1	-0.4	4	139	22	-13	38	9	..
Albert Park Auckland	49	14.9	9.1	12.0	+0.2	17.6	1	3.3	4	140	24	+5	39	9	103*
Owairaka, Auckland	41	14.6	8.2	11.4	+0.4	17.1	9	0.9	4	166	22	+19	48	9	..
Port Fitzroy	4	15.5	9.5	12.5	+0.0	17.6	9	2.4	3	314	21	+103	71	7	..
Little Barrier Is	2	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Rotoroa Is	30	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Coromandel	43	14.9	7.8	11.4	..	18.0	1	-0.9	4	273	22	..	77	8	..
Whangapoua Forest	4	15.3	7.2	11.3	+0.5	18.7	10	-2.0	19	190	22	-26	56	8	..
Thames	3	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Tairua Forest	3	15.1	7.3	11.2	+0.6	20.7	10	-1.2	19	133	20	-60	37	27	..
Paeroa	4	14.6	6.4	10.5	+1.0	20.0	10	-4.5	5	172	19	+35	45	8	..
Waihi	91	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Te Aroha	18	14.5	6.9	10.7	+0.7	19.0	10	-3.2	4	180	19	+43	62	9	..
Katikati	2	14.8	6.7	10.8	..	19.0	14	-2.6	4	92	19	..	22	27	..
Tauranga	2	14.8	8.1	11.5	+0.8	18.3	14	1.2	4	104	17	..	29	27	..
Tauranga Airport	4	14.5	6.4	10.5	+0.4	17.7	14	-1.5	19	84	17	-48	26	27	120
Te Puke	91	14.2	5.5	9.9	+0.1	18.8	14	-2.9	19	153	13	..	41	27	129
Rotochu Forest	72	14.2	3.4	8.8	+0.4	18.1	14	-4.3	4	141	13	-9	47	10	..
Whakatane Airport	6	14.4	4.3	9.4	..	17.9	14	-3.9	19	85	14	..	27	27	132
Te Kaha	6	15.5	8.3	11.9	..	19.0	13	0.5	19	134	12	..	62	10	..
Port Ohope	9	14.9	7.0	11.0	..	18.7	13	-0.5	19	67	11	..	17	12	142
Kinleith	383	11.5	4.4	8.0	+0.9	17.0	10	-4.2	4	86	16	-107	21	27	..
Tikitere	338	11.8	5.9	8.9	..	15.5	13	-1.2	4	173	15	..	61	27	..
Kawerau	30	14.5	4.9	9.7	+0.1	17.9	13	-3.0	25	170	13	+5	70	10	..
Te Teko	8	15.3	4.6	10.0	+0.6	19.3	13	-2.5	19	117	14	-25	43	10	120
Rotorua Airport	287	12.7	5.1	8.9	+0.8	16.8	13	-2.8	4	126	15	-16	44	27	118
Waiotapu Forest	435	11.5	3.4	7.5	+1.3	16.8	9	-5.6	6	105	18	-40	28	27	..
Atiamuri Power Stn	253	12.8	3.8	8.3	+0.8	16.4	13	-3.0	3	66	17	-75	15	27	..
Kaingaroa Forest	544	10.5	2.9	6.7	+0.3	15.2	9	-5.7	4	132	17	-13	47	27	..
Murupara	198	13.3	2.6	8.0	..	19.0	13	-4.4	4	109	12	-13	47	10	..
Wairapakao Forest	437	11.5	0.8	6.2	+0.4	17.3	9	-7.3	4	107	17	-30	43	10	..
Taupo	376	11.9	4.4	8.2	+1.0	17.0	11	-2.5	3	67	17	-55	31	27	97
Wairakei Power Stn	342	12.4	3.8	8.1	+0.7	16.7	11	-4.0	5	78	16	-52	26	27	..
Wairakei Research Stn	402	12.4	2.9	7.7	+1.0	17.3	11	-5.2	4	80	15	-44	25	27	..
Minginui Forest	366	12.2	1.5	6.9	+0.7	17.3	11	-8.2	19	92	13	-53	32	10	..
Taupo Airport	407	11.6	3.4	7.5	..	17.1	9	-5.4	4	57	13	..	25	27	..
Waimihia Forest	743	8.8	2.1	5.5	+0.8	13.8	11	-5.5	19	103	15	-70	32	10	..
Opotiki	6	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Waimana	37	14.4	3.1	8.8	+0.3	18.5	13	-5.9	19	140	10	-28	58	27	..
Mangere Auckland	4	14.5	9.5	12.0	+1.0	18.0	9	-1.3	4	136	24	+1	39	9	96
Otara Auckland	12	14.8	7.1	11.0	+0.5	17.7	9	-1.0	4	115	23	-15	28	27	..
Auckland Airport	8	14.3	8.6	11.5	+0.5	18.0	9	0.6	4	122	20	-10	30	27	95
Ardmore	30	14.7	6.2	10.5	+0.2	18.3	9	-1.5	4	120	19	-25	27	9	..
Pukekohe	82	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Maioro Forest	52	14.5	7.7	11.1	+0.2	18.5	13	-0.2	4	103	21	-47	24	27	..
Hunua	122	14.0	5.9	10.0	..	17.8	9	-2.8	4	102	20	..	22	27	..
Maramarua Forest	38	14.1	5.3	9.7	+0.4	17.5	13	-2.5	4	105	22	-27	23	27	..
Te Kauwhata	32	14.2	5.2	9.7	-0.1	18.4	9	-2.9	4	81	22	-54	19	27	99
Huntly	34	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Taupiri	23	14.6	4.9	9.8	..	18.0	13	-5.2	4	97	20	..	23	27	..
Ruakura Hamilton	40	13.8	5.3	9.6	+0.7	18.4	13	-4.5	5	105	17	-27	29	27	100

CLIMATOLOGICAL TABLE—Summary of the Records of Temperature, Rainfall, and Sunshine for June 1983—continued

Table with columns: Station, Height of Station Above M.S.L., Air Temperature in Degrees Celsius (Means of A and B, Absolute Maximum and Minimum), Rainfall in Millimetres (Total Fall, No. of Rain Days, Difference From Normal, Maximum Fall), and Bright Sunshine (Hrs). Rows list various New Zealand locations including Whatawhata, Rukuhia, Hamilton Airport, etc.

CLIMATOLOGICAL TABLE—Summary of the Records of Temperature, Rainfall, and Sunshine for June 1983—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	B			Maximum	Date	Minimum	Date				Amount		Date
		Max.	Min.	°C	°C	°C	°C	°C	°C	mm	mm	mm	mm		
Rangiora	46	11.4	1.4	6.4	+0.5	18.0	14	-4.0	4	52	19	+11	19	9	..
Darfield	195	11.0	1.6	6.3	+0.8	16.3	13	-2.9	18	58	11	+0	20	9	..
Eyrewell Forest	158	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Christchurch Airport	30	11.3	1.2	6.3	+0.4	16.9	14	-2.8	17	66	16	+10	22	9	134
Templeton	46	11.2	2.1	6.7	..	17.1	26	-1.3	4	63	12	..	19	9	..
Christchurch	7	11.4	1.9	6.7	+0.4	17.8	14	-1.8	3	70	13	+14	24	9	..
Bromley Christchurch	9	11.1	3.4	7.3	+0.5	16.9	15	-0.5	17	71	17	+18	19	9	..
Mt Pleasant	137	11.1	5.1	8.1	+0.0	16.5	14	1.8	2	82	15	+16	21	9	..
Lincoln	11	11.2	1.9	6.6	+0.8	16.3	15	-2.1	5	59	16	+1	16	9	124
Akaroa	3	12.2	1.4	6.8	..	19.0	15	-5.5	20	181	12	..	67	9	..
Lake Tekapo	683	6.8	-1.7	2.6	-0.2	12.5	9	-6.2	18	125	11	+77	83	26	..
Lake Pukaki	556	6.6	-1.7	2.5	+0.2	14.3	26	-5.3	25	96	15	..	68	26	..
Fairlie	304	10.6	-1.8	4.4	..	17.3	26	-5.7	25	58	4	..	37	26	..
Twizel	457	6.9	-3.3	1.8	+0.0	15.0	26	-7.5	2	91	20	..	64	26	..
Ikawai	70	10.9	0.3	5.6	+0.5	16.0	14	-3.5	8	46	6	..	38	9	..
Geraldine	119	11.6	0.0	5.8	..	18.2	14	-4.0	3	34	5	..	29	9	..
Orari Estate	81	11.1	-0.1	5.5	+0.9	16.6	26	-2.6	4	36	9	-7	29	9	..
Temuka	24	11.7	-0.3	5.7	+0.3	18.5	14	-3.2	3	37	7	-1	34	9	..
Timaru Airport	26	11.2	-0.7	5.3	+0.0	17.8	14	-3.4	3	40	7	+4	35	9	..
Adair	85	11.0	2.5	6.8	+0.3	16.9	14	-1.1	13	45	10	+9	37	9	..
Timaru	17	10.3	1.1	5.7	-0.2	16.0	14	-2.0	3	41	10	+5	36	9	129
Waimate	61	10.9	1.6	6.3	-0.3	16.9	14	-1.4	3	55	7	+14	45	9	..
Kurow	207	10.0	0.4	5.2	..	17.8	26	-3.3	8	26	12	..	15	9	..
Oamaru Airport	30	10.5	1.1	5.8	+0.1	16.7	26	-1.9	4	59	10	+26	52	9	121
Knobs Flat	360	6.3	-1.5	2.4	..	12.0	12	-5.1	9	240	13	+75	95	26	..
Tara Hills Omarama	488	6.9	-2.3	2.3	+0.0	12.0	26	-5.2	8	104	11	+74	67	26	120
Lake Hawea	350	7.0	-1.0	3.0	-1.2	13.5	13	-3.9	3	126	16	+68	69	26	..
Wanaka	296	7.4	-1.3	3.1	-0.7	14.0	13	-4.8	3	129	12	+78	77	26	..
Queensberry	277	6.6	-0.8	2.9	..	13.2	26	-4.2	3	96	18	..	66	26	..
Bendigo	200	7.4	-0.7	3.4	..	14.6	13	-4.8	3	53	16	..	39	26	..
Naseby Forest	610	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Windsor	88	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Oamaru	5	11.4	1.6	6.5	..	16.4	4	-1.1	8	42	7	..	32	9	..
Ranfurly	427	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Herbert Forest	61	11.5	0.8	6.2	+0.6	16.2	4	-2.0	3	46	12	+6	32	9	..
Palmerston	21	11.2	0.4	5.8	+0.6	16.1	14	-4.3	8	41	7	..	26	9	111
Cherry Farm Hospital	6	11.4	1.6	6.5	+0.4	16.0	4	-1.3	13	48	12	-5	17	9	..
Taiaroa Head	72	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Invermay, Taieri	30	10.4	2.0	6.2	..	15.7	26	-1.5	24	59	15	..	25	30	87
Berwick Forest	18	10.3	2.1	6.2	+1.0	16.5	26	-2.0	24	78	12	+17	30	30	..
Dunedin Airport	1	10.7	1.8	6.3	+1.4	17.0	26	-3.2	8	55	13	+2	24	30	100
Musselburgh Dunedin	2	10.3	4.0	7.2	+0.4	15.2	26	0.0	18	78	14	+12	30	9	98
Te Anau	215	7.5	0.8	4.2	-0.3	13.0	4	-3.4	18	173	17	+64	64	26	54
West Arm, Manapouri	232	5.7	1.7	3.7	-0.7	10.4	4	-1.0	9	410	20	..	89	26	..
Borland Burn	183	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Queenstown	329	7.1	0.1	3.6	-0.7	13.5	26	-2.9	8	152	15	+86	86	26	65
Queenstown Airport	349	7.4	-1.3	3.1	+0.0	13.6	13	-5.1	9	100	12	+48	52	26	..
Otama	183	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Cromwell Sub Stn	213	7.0	-1.4	2.8	..	14.1	14	-4.5	5	34	8	..	20	26	..
Cromwell	213	7.3	-1.6	2.9	-0.6	14.8	14	-5.1	3	37	18	+9	21	26	73
Northburn	210	7.2	-1.0	3.1	..	14.5	26	-5.1	4	41	17	..	24	26	..
Lauder	370	6.7	-2.4	2.2	..	14.5	13	-7.4	9	36	16	..	16	26	..
Clyde Dam	160	7.6	-0.7	3.5	..	15.0	26	-3.7	7	34	12	..	20	26	..
Ophir	305	6.9	-2.8	2.1	-0.2	14.9	26	-6.5	22	41	8	+16	19	26	..
Moa Creek	427	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Alexandra	141	7.5	-1.4	3.1	-0.2	15.6	26	-4.5	3	31	15	+11	9	26	67
Clyde	171	7.4	-1.5	3.0	..	15.4	26	-5.1	3	31	13	..	18	26	..
Roxburgh Power Stn	110	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Deep Stream	396	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Beaumont	46	9.0	0.6	4.8	..	16.0	26	-2.7	9	104	18	+10	45	18	..
Mahinerangi Dam	396	7.5	0.9	4.2	+0.3	13.0	26	-2.2	24	102	15	+23	17	17	..
Tapanui	226	8.7	1.5	5.1	-0.1	14.1	26	-2.5	30	80	18	-9	26	18	..
Taieri Mouth	15	9.9	2.7	6.3	+0.1	15.6	26	-1.2	8	84	12	+13	19	30	..
Tuatapere	27	9.2	1.6	5.4	..	15.1	13	-1.3	30	164	20	..	41	26	..
Otautau	55	8.9	0.7	4.8	-0.7	14.8	13	-5.0	8	142	18	+30	21	17	35
Winton	44	9.3	1.5	5.4	-0.3	14.7	13	-2.9	8	76	16	+2	17	18	72
Gore	123	8.4	1.6	5.0	+0.5	12.9	26	-2.6	8	74	24	..	23	18	72
Hokonui Forest	46	9.1	1.3	5.2	-0.2	14.7	13	-2.4	8	86	19	-5	13	17	..
Woodlands	47	9.2	1.6	5.4	-0.3	13.7	13	-3.6	8	93	24	..	13	14	..
Invercargill Airport	0	9.4	2.0	5.7	+0.2	13.4	13	-3.1	9	87	22	-20	17	14	58
Tiwai Point, Bluff	5	9.3	3.6	6.5	-0.2	13.0	11	-0.5	9	85	20	..	20	14	..
Stewart Is	3	9.0	2.5	5.8	..	12.5	5	-0.9	9	151	26	..	26	29	..
Milton	18	9.6	1.1	5.4	+0.5	15.1	26	90	16	+24	35	30	..
Finegand Balclutha	6
Owaka	5	10.0	2.3	6.2	..	14.0	10	-4.6	8	148	18	..	27	18	..

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		A Max.	B Min.			Maximum	Date	Minimum	Date				Amount	Date	
Metres	°C	°C	°C	°C	°C	°C	°C	°C	mm	mm	mm	mm	Hrs		
Nugget Point	129	8.7	3.5	6.1	+0.1	12.8	26	-0.7	18	128	20	+42	21	17	..
Tautuku	61	9.5	3.2	6.4	..	14.0	11	-1.2	8	184	22	..	33	18	..
Nandi Airport, Fiji	19	30.5	19.0	24.8	+0.5	33.1	5	15.2	19	12	3	..	12	3	241
Rarotonga Airport	7	25.8	19.1	22.5	+0.1	29.5	26	15.3	9	43	16	-54	13	9	138
Totokoitu, Rarotonga	9	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Raoul Is	38	19.9	15.4	17.7	+0.4	22.4	9	10.9	22	374	28	+224	77	13	111
Campbell Is	15	7.0	2.1	4.6	-0.2	10.3	10	-3.6	18	109	28	-21	17	28	8
Waitangi, Chatham Is	44	10.5	6.3	8.4	-0.3	13.8	29	1.3	19	49	24	-45	13	29	53
Scott Base Antarctica	16	-22.0	-35.1	-28.6	-2.4	-4.2	25	-46.5	16	..	..	..	..	..	..
LATE RETURNS AND CORRECTIONS															
Umawera No 2 05/1983	9	18.1	8.5	13.3	+0.1	21.2	2	-0.5	25	69	16	-83	17	5	..
Port Ohope 05/1983	9	16.5	8.1	12.3	..	19.5	6	2.6	12	31	12	..	9	29	137
Huntly 05/1983	34	16.0	7.9	12.0	..	19.7	5	2.4	20	71	16	..	9	5	..
Taupiri 05/1983	23	16.5	6.4	11.5	..	19.6	5	-1.4	14	108	20	..	17	10	..
Port Taharoa 04/1983	27	19.1	12.7	15.9	-0.5	22.6	14	6.8	29	132	..	..	..	..	..
Omata 05/1983	61	16.1	8.8	12.5	-0.6	18.5	13	5.0	16	113	21	..	25	17	..
Ruatoria 05/1983	61	17.5	7.4	12.5	+0.0	21.7	5	0.7	19	48	12	-158	23	22	..
Mangatu Forest 05/1983	182	16.1	6.2	11.2	+0.1	20.9	5	0.7	19	76	9	-56	33	22	..
Kaweka Forest 05/1983	414	14.4	6.9	10.7	+0.3	22.3	5	2.0	14	81	17	..	24	22	..
Wharite Peak 05/1983	914	7.4	3.3	5.4	-0.3	14.0	5	0.1	13	184	25	-12	27	6	..
Kairanga Palmerston N 05/1983	15	14.7	6.3	10.5	-0.1	20.9	5	-1.7	14	84	16	..	25	6	91
Palmerston N D S I R 05/1983	34	14.5	7.3	10.9	-0.1	21.1	5	1.0	14	82	19	-4	21	6	72
Waiouru 05/1983	823	10.3	2.7	6.5	-0.2	19.5	5	-3.8	14	185	19	+76	38	20	..
Ahu Ahu Valley 05/1983	85	14.5	6.7	10.6	..	20.0	5	-0.6	14	194	19	..	43	20	..
Totaranui 05/1983	10	15.5	5.8	10.7	..	19.2	5	2.5	13	144	12	..	32	30	..
Springs Junction 05/1983	421	10.6	1.9	6.3	..	14.4	5	-5.2	24	429	..	+231	..	..	..
Franz Josef 05/1983	122	13.2	3.3	8.3	-1.1	17.5	9	-1.0	13	602	14	+191	98	16	..
Crail Bay Pelorus Sd 05/1983	13	15.3	7.9	11.6	..	19.3	5	2.5	24	145	14	..	39	30	..
Waiau 05/1983	137	14.5	3.0	8.8	..	24.3	5	-5.9	24	112	17	..	19	20	..
Craigieburn Forest 05/1983	914	9.8	0.0	4.9	+0.0	16.0	5	-4.3	13	236	17	+99	41	30	..
Eyrewell Forest 05/1983	158	14.4	3.7	9.1	+1.2	24.8	5	-3.0	24	80	15	-1	27	18	..
Akaroa 05/1983	3	14.6	4.9	9.8	..	25.0	3	-0.5	24	202	15	..	50	20	..
Windsor 04/1983	88	15.9	5.6	10.8	..	25.1	12	-0.9	10	92	11	..	38	26	..
Windsor 05/1983	88	12.2	3.6	7.9	..	20.0	5	-1.1	24	19	5	..	6	29	..
Palmerston 05/1983	21	13.1	2.4	7.8	+0.4	23.3	5	-3.5	24	40	9	..	12	17	90
Ophir 05/1983	305	10.8	-0.2	5.3	+0.1	17.4	5	-6.2	25	27	9	-3	11	17	..
Moa Creek 05/1983	427	..	..	..	..	..	..	..	..	27	9	-1	10	18	..
Deep Stream 04/1983	396	12.9	1.6	7.3	..	20.0	6	-6.2	10	76	18	..	23	14	..
Deep Stream 05/1983	396	10.8	1.1	6.0	..	20.7	5	-6.7	24	65	18	..	20	17	..
Rarotonga Airport 05/1983	7	27.4	22.5	25.0	+1.6	29.1	17	20.4	17	100	16	-83	40	27	159
Totokoifu, Rarotonga 05/1983	9	26.7	22.3	24.5	..	28.8	11	20.0	22	197	20	..	57	2	..
Raoul Is 03/1983	38	24.2	19.9	22.1	+0.2	25.6	15	16.3	9	204	14	+72	123	29	139
Raoul Is 04/1983	38	23.3	18.4	20.9	+0.2	24.6	5	16.3	9	53	16	-71	20	27	161

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 NEW ZEALAND WEATHER IN JUNE 1983

General—June was a rather cloudy and windy month, with very cold periods in most places.

Strong winds were more frequent than usual, as were winds from the north-east. North-westerlies were less frequent than usual over the North Island.

A north-easterly storm which affected Northland between the 5th and the 8th, unfortunately coincided with the return of several yachts from the Auckland to Suva race. Mishaps during the storm resulted in the loss of 8 lives and the destruction of 2 yachts. North-westerly gales in South Canterbury during the night of the 26–27th demolished buildings and uprooted trees in the Methven to Hinds area.

A moist north-easterly airstream brought fog, low cloud and drizzle to eastern areas of both islands between the 11th and the 13th, closing airports at Wellington and Christchurch for prolonged periods.

Farmers throughout the country reported rather slow growth, but sufficient to give some recovery in areas affected by summer droughts. Frosts on the 3rd and 4th were severe in parts of the Bay of Plenty, causing some damage to Kiwifruit crops.

Rain and Snow—Rainfalls were less than normal over the North Island, apart from Northland, Auckland, Gisborne and parts of the central high country. Gisborne and Whangarei received 141 percent and 133 percent respectively of their usual June rainfalls, while parts of Taranaki, Hawkes Bay, the Wairarapa and Wellington received less than 60 percent.

Much of the South Island received rainfalls close to, or above normal, with some high country areas being extremely wet. Mount John for example received 255 percent of its normal June rainfall. High country areas received much of their rain during the 26th and 27th. Blocked drains led to localised flooding and road damage in Queenstown during the afternoon of the 26th and night of the 26–27th. Nelson and Marlborough were very dry, with Cape Campbell receiving on 17 percent of its normal June total.

Widespread snowfalls occurred during the 17th, 18th and 19th, with the snow in Dunedin being described as the heaviest in many years. On the 18th snow lay at very low levels in many central and southern North Island area. Roads throughout Southland and Otago, and in central North Island areas were closed during this period. Dunedin Airport had a 5 cm covering of snow for a time.

Temperature—Temperatures over much of New Zealand were close to normal during June, although some central and southern North Island areas were 0.5°C to 1°C warmer than usual. A few areas about the Alps and Westland were between 0.5°C and 1°C cooler than usual.

Between the 2nd and the 5th temperatures were low over much of the country. The following 10 days however were mild. Another cold period from the 16th to the 25th, saw minimum temperatures around 6°C colder than normal being recorded in the Bay of Plenty, Gisborne, Hawkes Bay and Wairarapa regions.

Sunshine—Wellington, Christchurch and some western areas of the country experienced a little more sunshine than normal during June, but over most of the country sunshine hours were fewer than usual; Northland and Auckland were the cloudiest areas, with Kaitiā receiving 17 hours, and Auckland 22 hours fewer than normal.

THE WEATHER SEQUENCE, JUNE 1983

1–7 June

A cool disturbed westerly flow covered New Zealand during the 1st and 2nd, with showers in western areas and isolated falls elsewhere. During the latter part of the 2nd, a ridge spread over the South Island from an intense high in the Western Tasman Sea, and the showers began to gradually clear. The ridge continued to dominate the weather over New Zealand during the 3rd, 4th and 5th, producing fine cold conditions in most places. A low which had developed near New Caledonia moved towards Northland, bringing easterly gales and rain to the northern half of the North Island from the 5th onwards. Meanwhile the intense high continued to give fine cool weather to the remainder of the country, apart from a few showers on the east coast of the South Island.

8–14 June

The deep low lay off Northland on the 8th, with continuing easterly gales over the northern half of the North Island. Rain continued to fall over northern North Island areas, and over eastern areas of both islands. Temperatures over the country, were very mild. During the 9th the low moved south-west and filled, while a cold front moved towards New Zealand across the Tasman Sea. The front crossed most of the country during the 10th bringing widespread rain although temperatures remained mild. The front became slow-moving over the eastern half of the North Island during the 11th, giving further rain there, while a small anticyclone moved onto the country, giving fine weather elsewhere. A low moved across the North Tasman Sea, and across Northland during the 13th bringing rain to north-eastern parts of the North Island. The remainder of the country remained under the influence of a weak ridge with dry and generally mild weather, apart from some showers in the south-west of the South Island. A strong westerly flow spread onto the South Island during the 13th and 14th, bringing further rain to Westland and Fiordland. At the same time the low east of the North Island continued to give some rain to the East Cape area.

15–21 June

On the 15th the strong westerly flow which by now covered the whole country, gradually turned south-westerly and fronts moving north-east in this flow gave showers to western areas of both islands. By the 16th a complex trough lay east of the country and a cold south-west flow continued to bring showers, mostly to eastern areas and about Northland. A cold front moved north-east across the country during the 17th and 18th, bringing snow to very low levels over the South Island, and to central and southern North Island areas.

On the 21st the south-westerlies were moderating and apart from a few isolated showers, the weather over New Zealand became cool and dry.

22–30 June

The flow over New Zealand turned westerly during the 22nd and cold fronts crossing the country brought showers to western areas during the 23rd and 24th, although the weather remained fine and cool, in the east. A high spread across the North Island on the 25th, and the flow over the South Island turned north-westerly, bringing further showers to the West Coast. A trough which lay over the Tasman Sea on the 25th, moved across the country during the 26th and 27th, bringing rain to most areas, with some heavy falls in Westland. The weather remained unsettled during the 28th, 29th and 30th, as further troughs crossed the area, bringing cool showery weather to most districts.

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

J. S. HICKMAN, Director.

