



22 MAY 1984

SUPPLEMENT  
TO THE  
NEW ZEALAND GAZETTE  
OF  
THURSDAY, 10 MAY 1984

*Published by Authority*

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WELLINGTON: TUESDAY, 15 MAY 1984

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CLIMATOLOGICAL TABLE  
FOR MARCH 1984

NEW ZEALAND METEOROLOGICAL SERVICE

CLIMATOLOGICAL TABLE—Summary of the Records of Temperature, Rainfall, and Sunshine for March 1984

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	21.6	16.2	18.9	+0.2	24.0	30	14.4	19	103	25	+25	33	5	...
Kaitaia Airport	80	22.6	15.8	19.2	+0.2	24.9	2	11.6	15	152	19	+71	45	5	180
Aupouri Forest	69	22.5	15.9	19.2	-0.1	24.5	2	12.6	19	119	14	+54	43	5	...
Kaitaia	8	23.4	15.3	19.4	..	26.0	3	9.5	15	172	19	..	54	5	...
Kerikeri M A F	79	22.4	15.2	18.8	..	24.2	6	10.4	15	284	27	..	150	29	...
Kerikeri Downs	79	22.3	15.2	18.8	..	24.8	1	11.4	15	279	26	..	146	29	...
Kerikeri Aerodrome	150	22.3	14.6	18.5	..	24.4	6	11.0	15	198	22	..	107	29	...
Umawera	9	23.7	13.2	18.5	+0.0	26.0	1	8.7	15	156	16	+65	57	29	...
Kaikohe	204	..	..	..	..	..	..	..	..	..	..	..	..	..	...
Waiotemarama	229	..	..	..	..	..	..	..	..	..	..	..	..	..	...
Waipoua Forest	88	22.7	13.9	18.3	+0.7	27.5	3	9.5	22	160	16	+52	67	29	...
Dargaville	20	23.0	14.3	18.7	+0.5	26.6	1	8.9	12	125	14	+42	58	29	167
Waitangi Forest	55	22.7	15.7	19.2	+0.2	25.2	14	11.4	15	222	24	+111	113	29	146
Glenbervie Forest	107	22.3	13.9	18.1	+1.1	25.4	19	7.9	9	321	23	+144	105	29	...
Whangarei Airport	37	22.7	15.6	19.2	+0.4	25.1	4	11.9	19	229	22	+92	64	29	...
Whangarei	29	23.4	15.1	19.3	+0.7	26.0	2	11.0	19	218	20	..	78	29	146*
Marsden Power Stn	3	23.2	15.8	19.5	+0.4	28.1	13	11.6	15	192	21	+76	59	30	...
Poua	97	21.9	15.8	18.9	..	25.0	2	13.6	13	166	15	..	42	5	...
Leigh	27	21.6	17.0	19.3	+0.4	23.1	4	14.8	15	131	17	+37	42	30	132
Warkworth	72	21.9	14.2	18.1	+0.2	24.3	9	9.2	22	169	23	+36	52	29	...
Oyster Point	0	22.9	14.6	18.8	+0.7	25.2	2	9.6	19	172	15	+90	28	30	...
Woodhill Forest	30	22.4	14.5	18.5	+0.5	24.9	2	10.0	12	180	14	+88	68	5	...
Riverhead Forest	28	22.4	14.0	18.2	+0.7	24.5	2	8.7	12	190	16	+89	45	5	...
Kumeu	32	22.6	13.7	18.2	+0.7	24.9	7	8.2	12	194	17	..	47	5	...
Whenuapai	26	22.5	14.6	18.6	+0.6	24.6	2	9.3	12	165	20	+72	38	5	...
Albert Park Auckland	49	22.7	16.4	19.6	+0.3	25.0	2	12.6	25	188	17	+97	54	30	161*
Owairaka, Auckland	41	22.4	15.3	18.9	+0.5	25.0	9	11.5	19	213	16	+120	65	30	...
Port Fitzroy	4	22.8	16.6	19.7	+0.9	24.1	2	12.7	19	274	26	+93	52	5	...
Little Barrier Is	2	22.2	16.4	19.3	..	24.8	3	14.1	15	143	23	+9	35	29	...
Rotorua Is	30	21.6	16.8	19.2	..	24.9	1	13.4	18	93	15	..	18	5	...
Manukau Heads	244	21.4	15.2	18.3	..	23.8	3	11.5	25	167	19	+90	42	5	...
Coromandel	43	22.7	15.6	19.2	..	25.5	1	10.7	22	244	25	..	46	29	...
Whangapoua Forest	4	..	..	..	..	..	..	..	..	..	..	..	..	..	...
Thames	3	..	..	..	..	..	..	..	..	..	..	..	..	..	...
Tairua Forest	3	21.9	14.8	18.4	+0.5	25.0	9	9.8	22	202	20	+34	66	31	...
Ngatea	15	23.4	12.9	18.2	..	26.0	2	7.5	25	179	20	..	46	16	...
Paeroa	4	23.5	15.2	19.4	+1.5	26.5	3	11.2	13	134	18	+30	32	16	...
Waihi	91	21.8	14.3	18.1	+0.9	24.3	9	8.1	25	217	25	+25	40	31	105
Te Aroha	18	23.1	15.0	19.1	+0.7	25.5	20	11.1	25	187	22	+64	42	10	...
Katikati	2	22.8	14.8	18.8	..	25.5	9	7.6	25	182	24	..	58	31	...
Waharoa	60	22.4	13.7	18.1	..	24.8	2	7.8	25	137	19	..	34	5	...
Tauranga	2	21.9	15.6	18.8	+0.6	24.5	8	10.8	25	151	20	+21	40	31	...
Tauranga Airport	4	21.8	15.0	18.4	+0.6	24.1	1	11.0	26	128	20	-5	23	31	137
Te Puke	91	21.4	13.5	17.5	+0.0	25.1	15	8.1	25	208	22	-23	30	7	141
Rotoehu Forest	72	21.4	12.4	16.9	+0.2	23.5	18	7.0	26	285	21	+135	55	31	...
Whakatane Airport	6	..	..	..	..	..	..	..	..	..	..	..	..	..	...
Te Kaha	6	22.4	15.3	18.9	..	24.5	8	10.5	25	225	18	..	51	31	...
Port Ohope	9	22.3	15.5	18.9	+0.6	25.0	22	11.3	18	112	15	..	29	7	166
Kinleith	383	20.2	12.7	16.5	+0.7	22.9	20	6.6	25	137	19	+43	32	13	...
Tikitere	338	19.4	13.2	16.3	+0.1	21.9	20	8.6	25	246	20	..	44	31	...
Kawerau	30	22.6	13.7	18.2	+0.1	25.0	9	8.4	25	201	15	+41	50	7	...
Te Teko	8	24.5	13.5	19.0	+1.1	28.0	9	7.5	25	135	18	-10	34	7	134
Rotorua Airport	287	20.4	13.2	16.8	+0.5	22.5	22	8.9	25	190	18	+65	49	5	135
Waiotapu Forest	435	19.4	11.4	15.4	+0.2	21.5	5	4.0	25	226	18	+108	74	31	...
Atiamuri Power Stn	253	21.2	12.4	16.8	+0.8	25.0	2	4.5	25	123	20	+27	19	31	...
Kaingaroa Forest	544	18.8	11.0	14.9	+0.1	21.8	20	3.6	26	220	17	+97	61	31	...
Murupara	198	21.8	12.4	17.1	+0.5	24.4	7	4.5	25	177	14	+80	47	31	...
Wairapukao Forest	437	19.7	10.1	14.9	+0.4	22.7	20	1.8	26	168	17	+61	62	31	...
Taupo	376	20.4	11.6	16.0	+0.2	23.1	2	5.6	25	110	16	+30	25	31	124
Wairakei Power Stn	342	20.6	11.5	16.1	+0.2	23.5	2	4.5	25	104	16	+12	21	31	...
Wairakei Research Stn	402	21.4	10.7	16.1	+0.8	24.7	20	2.7	25	104	16	+12	22	4	...
Minginui Forest	366	20.3	11.6	16.0	+1.0	23.5	21	1.9	26	190	15	+94	54	31	...
Taupo Airport	407	19.8	11.1	15.5	+0.1	22.0	6	3.3	25	103	15	+35	20	31	...
Waimihia Forest	743	16.7	9.6	13.2	+0.2	19.0	2	4.5	26	179	20	+66	25	13	...
Opotiki	6	..	..	..	..	..	..	..	..	..	..	..	..	..	...
Waimana	37	22.3	13.4	17.9	+0.6	24.0	2	7.2	26	261	15	+108	71	7	...
Mangere Auckland	4	22.6	15.6	19.1	+0.6	24.8	2	10.3	25	175	19	+86	51	5	144
Otara Auckland	12	22.8	14.7	18.8	+0.7	25.2	2	10.5	19	208	15	+121	51	5	...
Auckland Airport	8	22.6	15.4	19.0	+0.4	25.2	2	12.0	25	194	19	+114	66	5	154
Ardmore	30	23.0	14.0	18.5	+0.6	26.0	2	9.0	22	190	22	+98	43	5	...
Pukekohe	82	..	..	..	..	..	..	..	..	..	..	..	..	..	...
Maio Forest	52	22.6	14.5	18.6	+0.6	26.0	2	10.1	25	175	17	+84	49	30	...
Hunua	122	22.1	13.1	17.6	..	25.6	3	8.7	19	157	17	..	31	5	...
Maramarua Forest	38	22.7	12.9	17.8	+0.7	26.0	2	8.2	23	121	17	+27	44	5	...
Te Kauwhata	32	23.0	13.8	18.4	+0.5	25.8	3	8.9	25	106	21	+22	48	5	145

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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	Hrs				
Huntly	34	..	..	..	..	..	..	..	..	..	..	..	..	..	
Taupiri	23	..	..	..	..	..	..	..	..	..	..	..	..	..	
Ruakura Hamilton	40	22.6	13.7	18.2	+1.1	25.2	3	9.9	25	102	17	+18	40	5	141
Whatawhata	104	22.0	12.9	17.5	+0.4	25.3	3	7.5	25	166	18	+55	26	5	122
Rukuhia	66	22.5	13.6	18.1	+0.6	25.5	2	9.1	25	102	19	+19	29	5	123
Hamilton Airport	50	22.9	12.9	17.9	+1.1	25.9	2	7.8	25	117	16	+36	27	5	..
Cambridge	76	22.4	13.5	18.0	+1.0	25.4	2	9.0	25	111	21	+43	27	5	..
Port Taharoa	27	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Mohakatino Stn Mokau	46	21.8	15.0	18.4	+0.9	24.2	2	11.1	24	255	15	+149	40	5	..
Arapuni Power Stn	123	23.1	12.9	18.0	+0.7	25.0	3	7.0	25	106	19	+11	23	5	..
Waikeria	46	22.8	13.6	18.2	+1.2	25.0	2	9.3	25	143	21	..	28	5	..
Te Kuiti	61	22.8	13.6	18.2	+1.1	25.7	2	8.6	26	141	22	+45	23	5	96
Wairere	122	21.9	12.8	17.4	..	24.8	2	6.8	25	179	17	+81	37	16	..
Pureora Forest	549	18.6	10.9	14.8	+0.7	21.4	2	2.5	18	163	21	+43	20	31	..
Mangakahu Valley	397	20.2	11.7	16.0	..	23.8	4	6.4	24	169	18	..	41	16	..
Taumarunui	171	22.9	11.9	17.4	+0.6	26.5	2	6.3	25	137	18	+55	27	16	113
Tokirima	152	22.7	10.9	16.8	..	25.3	2	4.2	25	180	15	..	35	16	..
Omata	61	21.6	15.0	18.3	+0.6	24.1	2	12.2	25	267	17	+181	58	13	..
New Plymouth	55	21.8	14.4	18.1	+1.1	24.6	2	10.8	25	308	17	+204	86	5	..
New Plymouth Airport	27	21.6	14.4	18.0	+1.2	24.4	3	9.3	25	245	16	+148	52	11	160
North Egmont	955	15.0	8.8	11.9	..	17.8	20	5.5	25	771	22	..	111	13	..
Te Wera Forest	180	21.3	11.7	16.5	+1.2	25.2	3	4.0	25	234	19	+116	47	5	..
Lower Retaruke	223	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Turangi	366	19.8	11.0	15.4	-0.2	22.9	6	3.9	25	234	19	+120	39	5	112
Chateau, Mt Ruapehu	1097	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Hukanui	235	20.6	10.8	15.7	..	25.3	3	4.6	20	177	21	+58	72	12	..
Mt Bruce Res	305	21.2	10.2	15.7	+1.4	28.0	3	3.5	20	117	13	-26	36	12	..
Waingawa Masterton	114	22.4	11.4	16.9	+1.0	28.8	3	6.4	20	90	17	+14	22	12	127
Kopua	311	20.1	11.3	15.7	+0.6	26.3	3	6.9	19	125	19	+25	28	12	..
Waipukurau	137	21.7	11.5	16.6	+0.6	26.9	2	5.8	20	148	15	+72	54	22	119*
Dannevirke	207	21.4	11.8	16.6	+0.8	26.7	3	7.9	20	128	17	+40	34	5	123
Porangahau	8	21.7	12.0	16.9	..	25.7	3	5.9	20	106	11	..	52	22	..
Castlepoint	3	20.2	14.4	17.3	+0.2	25.5	3	5.8	1	56	16	-25	17	5	..
Ngaumu Forest	244	22.3	9.8	16.1	+1.3	28.3	3	4.5	20	96	14	+4	29	12	..
Tauherenikau, Alloa	43	22.2	11.9	17.1	+1.0	28.3	3	7.0	20	105	16	+22	22	5	..
Waiorongomai	21	20.7	13.0	16.9	+1.2	25.6	3	6.7	20	93	16	-21	16	5	..
Cape Palliser	10	20.9	14.9	17.9	+1.0	26.5	5	9.7	20	86	21	-7	13	5	..
East Cape	17	21.3	15.9	18.6	+0.3	23.1	15	12.3	15	132	18	+22	43	12	..
Ruatoria	61	22.6	13.4	18.0	+0.4	26.5	10	9.0	25	144	20	-26	27	31	..
Mangatu Forest	182	22.6	12.3	17.5	+0.9	27.4	2	8.0	21	107	17	-5	35	23	..
Manutuke Gisborne	9	22.5	12.1	17.3	+0.2	26.3	5	6.9	19	91	17	+1	20	23	..
Gisborne Airport	4	22.8	12.5	17.7	+0.5	27.2	5	7.2	21	102	15	+10	23	23	153
Onepoto, Waikaremoana	643	19.5	11.6	15.6	+0.7	24.5	2	7.5	26	166	14	-7	45	23	..
Whareata Forest	439	18.2	12.6	15.4	..	23.7	5	8.5	25	110	14	..	21	23	..
Esk Forest	427	19.9	12.3	16.1	+0.9	23.8	2	5.5	19	107	19	-49	38	22	..
Kaweka Forest	414	20.2	11.8	16.0	+0.2	25.0	2	7.8	27	123	17	-15	31	11	..
Napier Airport	2	21.5	12.5	17.0	+0.1	26.0	9	5.8	19	43	15	-41	11	22	..
Napier	2	22.4	14.0	18.2	+0.6	25.6	9	8.3	19	65	15	-16	20	14	145
Hastings	16	22.3	12.9	17.6	..	26.5	5	7.8	19	48	15	..	17	22	..
Whakatu	6	21.3	12.7	17.0	..	24.7	5	6.0	19	62	15	..	13	13	..
Gwavas Forest	335	20.0	9.9	15.0	+0.5	27.4	9	5.1	19	130	17	+7	62	22	..
Makaretu	335	20.9	10.7	15.8	+0.5	26.1	2	5.6	20	85	20	-32	33	22	..
Mohaka Forest	286	21.0	12.1	16.6	+0.5	25.8	5	6.7	26	151	14	+25	59	23	..
Frasertown, Wairoa	8	22.9	13.4	18.2	+0.8	27.5	7	9.8	26	103	17	-18	25	23	..
Wairoa	20	22.6	13.3	18.0	+0.8	28.3	5	9.5	19	69	9	-34	19	23	153
Kapiti Is	16	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Paraparaumu Airport	7	21.2	13.3	17.3	+1.1	25.4	31	6.3	25	148	17	+72	29	31	177
Flockhouse Bulls	9	22.0	12.3	17.2	+0.7	26.2	28	6.4	25	108	14	+46	38	5	..
Ohakea	48	22.1	13.2	17.7	+0.8	26.4	29	6.5	25	108	14	+43	36	5	164
Wharite Peak	914	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Kairanga Palmerston N	15	22.4	11.9	17.2	+0.8	27.0	3	5.7	25	113	12	+48	29	5	167
Palmerston N Airport	45	22.1	12.6	17.4	+1.0	26.9	3	8.4	28	110	12	+43	34	14	..
Palmerston N D S 1 R	34	22.0	13.0	17.5	+0.7	26.4	3	9.2	20	114	13	+42	24	5	148
Tiritia	100	21.2	13.0	17.1	..	26.0	3	9.3	18	120	14	..	24	5	..
Waitarere Forest	3	21.6	12.3	17.0	+0.7	25.3	31	4.2	24	116	13	+52	34	5	..
Levin	46	21.6	13.2	17.4	+1.0	25.8	28	6.6	24	144	17	+67	36	5	168
Titahi Bay	31	21.1	14.0	17.6	..	25.5	29	8.5	20	160	16	..	35	31	..
Avalon, Lower Hutt	15	21.3	13.7	17.5	+1.2	25.5	29	7.3	25	136	17	+27	32	31	..
Kelburn, Wellington	125	19.8	13.9	16.9	+1.1	23.2	3	10.0	20	148	17	+52	36	31	158
Somes Is	43	19.7	14.6	17.2	+0.9	23.5	29	11.5	20	127	14	+43	32	31	..
Gracefield Lower Hutt	34	20.6	14.2	17.4	+1.1	25.0	31	9.5	20	116	16	+21	29	31	..
Wainuiomata	82	20.3	12.8	16.6	+1.0	23.9	29	7.8	20	116	16	-4	30	31	..
Wellington Airport	6	20.7	15.0	17.9	+1.4	24.9	3	11.4	23	129	18	+47	31	31	..
Rimutaka Forest	37	20.8	12.5	16.7	..	25.0	31	6.1	20	124	16	..	26	31	..
Kaitoke	223	20.3	10.9	15.6	+1.1	25.0	3	3.5	20	147	18	-4	32	31	131

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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	Hrs			
Wallaceville	56	21.4	11.8	16.6	+1.1	26.0	31	5.7	20	119	16	+27	34	31	142
Cape Egmont	8	21.7	14.7	18.2	+1.1	24.4	29	7.5	25	211	19	+115	52	5	..
Stratford Mtn House	846	15.3	8.9	12.1	+0.2	19.0	5	4.4	19	722	18	+349	120	13	..
Stratford Dem Farm	311	19.9	11.5	15.7	+0.8	22.4	2	6.9	25	370	18	+240	78	5	132
Kapuni	173	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Manaia Dem Farm	98	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Normanby	122	20.7	12.6	16.7	+1.1	24.5	2	6.1	25	175	18	..	..	..	..
Patea	43	21.6	14.0	17.8	+1.1	26.0	3	6.5	25	169	13	+99	39	5	..
Ruatiti	354	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Ohakune Junction	629	19.2	9.4	14.3	+0.7	22.4	29	2.8	25	105	14	+5	32	..	..
Karioi	648	19.6	8.6	14.1	+0.2	22.9	28	4.3	26	61	14	-15	21	16	..
Waiouru	823	17.8	..	..	..	21.0	6	..	..	80	15	+2	24	5	..
Waiouru Military Camp	823	17.3	9.0	13.2	+0.9	20.7	3	4.2	19	94	13	+18	34	5	..
Ahu Ahu Valley	85	22.8	11.3	17.1	..	26.0	29	5.2	25	160	16	..	60	5	..
Taihape	433	21.5	9.5	15.5	+0.6	25.7	3	3.7	19	110	18	+38	31	5	..
Kahui, Taihape	518	20.7	11.0	15.9	+0.8	25.0	28	6.0	19	100	16	+32	32	5	..
Wanganui	22	22.1	13.6	17.9	+0.7	26.5	29	8.4	25	126	16	+63	41	5	146
Wanganui Airport	9	22.1	12.9	17.5	..	26.1	29	5.2	25	128	15	+64	36	5	..
Farewell Spit	3	20.8	13.6	17.2	+0.7	23.4	5	9.0	10	248	22	+158	43	30	..
Totaranui	10	20.4	13.0	16.7	..	23.7	4	9.9	11	294	15	+153	48	30	..
Westport Airport	2	..	..	..	..	..	..	..	..	350	19	+188	92	3	134
Cobb Dam	823	16.1	8.0	12.1	+0.2	22.2	4	2.2	24	434	18	+256	145	30	..
Arapito	20	21.3	12.3	16.8	..	24.3	1	5.5	24	213	17	..	59	3	141
Lake Rotoroa	443	19.1	9.6	14.4	..	24.0	4	1.4	24	172	19	..	39	3	..
Lake Rototiti	634	18.0	8.9	13.5	+0.7	23.7	4	2.1	24	192	20	+79	48	31	..
Hokitika Airport	39	20.5	12.4	16.5	+1.6	23.8	12	5.5	24	346	21	+129	55	4	137
Punakaiki	4	21.3	14.6	18.0	..	24.3	12	11.4	11	267	24	..	43	3	..
Reefton	198	20.6	10.9	15.8	+0.8	24.5	2	3.0	24	185	22	+54	70	3	..
Barrytown	30	20.7	14.4	17.6	..	23.6	29	11.7	17	249	21	+64	50	3	..
Totara Flat	77	21.7	10.4	16.1	+1.2	25.8	4	1.7	24	148	17	+12	52	3	..
Greymouth	4	20.5	13.5	17.0	+1.6	23.5	1	9.4	25	220	21	+15	38	3	126
Otira Substation	383	18.8	10.7	14.8	+1.3	25.3	29	5.0	24	258	21	-83	37	9	..
Springs Junction	421	18.8	9.8	14.3	+1.0	23.8	4	-0.6	24	158	19	+11	52	3	..
Pukekura	86	20.4	10.9	15.7	..	23.2	12	3.0	24	326	19	..	47	26	..
Hari Hari	45	20.9	10.5	15.7	+1.1	23.6	29	3.4	24	484	20	+126	96	5	..
Okarito	10	20.2	12.5	16.4	..	22.8	2	7.9	23	401	18	..	50	27	..
Franz Josef	155	19.3	11.3	15.3	..	22.6	12	8.6	10	619	20	..	142	27	86
Fox Glacier	152	19.9	11.6	15.8	+1.8	23.5	12	7.3	11	489	19	+52	103	27	..
Milford Sound	3	19.0	10.7	14.9	+1.1	22.7	11	6.1	25	339	17	-326	60	27	..
Puysegur Point	43	16.8	11.5	14.2	..	20.4	26	8.1	19	210	23	+1	138	31	..
Stephens Is	187	18.9	14.4	16.7	+1.4	23.7	3	8.7	22	153	18	+95	28	11	..
Riwaka Motueka	8	21.2	11.8	16.5	+0.6	25.9	5	6.9	24	205	18	+97	63	30	162
Tapawera	146	21.2	10.9	16.1	..	25.1	4	2.1	24	157	18	..	41	30	..
Craik Bay Pelorus Sd	13	20.1	13.9	17.0	..	24.3	29	10.7	20	191	20	..	43	15	..
Appleby	17	20.9	12.8	16.9	+0.6	23.1	18	5.6	24	137	16	+55	27	30	..
Nelson Airport	2	20.7	13.1	16.9	+0.9	22.9	4	7.1	24	152	17	+66	23	12	165
Rai Valley	79	20.8	12.5	16.7	+1.3	23.3	4	7.4	10	271	17	+125	58	15	..
Moutere Hills	110	20.5	13.3	16.9	+0.3	22.9	4	7.9	24	164	16	+76	33	30	..
Blenheim Airport	27	21.6	12.4	17.0	+1.0	25.7	4	7.8	23	98	18	+40	16	17	..
Brancott Valley	64	21.4	11.3	16.4	..	24.5	3	6.1	23	94	17	..	14	3	..
Blenheim	4	22.3	12.2	17.3	+0.9	26.2	4	7.9	20	105	18	+52	25	31	149
Wither Hills Blenheim	32	22.1	12.5	17.3	+0.8	26.1	5	8.0	20	85	16	+31	26	31	..
Waihopai Power Stn	262	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Vernon Lagoons	2	21.9	11.9	16.9	+1.1	25.7	5	6.9	20	87	16	+35	14	31	145
Lake Grassmere	2	21.1	14.3	17.7	+1.7	26.0	4	8.2	20	62	14	+8	13	31	143
Cape Campbell	3	..	14.4	..	..	..	..	11.2	23	65	13	+4	14	31	..
Boyle River Lodge	600	19.3	8.4	13.9	..	23.6	29	-1.6	25	111	..	..	..	..	..
Hanmer Forest	387	20.6	9.2	14.9	+0.9	28.2	28	1.9	25	146	16	+57	41	13	139
Molesworth	893	17.5	6.7	12.1	+0.0	22.4	4	1.4	10	71	12	+24	21	13	..
Kaikoura Flats	24	20.0	10.9	15.5	..	27.0	5	6.8	25	143	15	..	70	11	..
Kaikoura	108	19.1	13.4	16.3	+1.3	25.9	5	8.7	23	64	14	-32	17	11	157
Arthurs Pass	738	16.1	8.4	12.3	..	22.5	29	0.0	24	266	22	-40	30	9	..
Culverden	174	20.8	10.7	15.8	..	27.6	28	3.8	24	172	10	..	48	16	..
Balmoral Forest	198	21.1	10.7	15.9	+1.1	27.2	4	3.8	24	175	13	+127	54	16	..
Waiu	137	22.2	10.0	16.1	+1.1	29.9	4	4.5	20	117	12	+46	34	13	..
Cheviot	85	20.9	10.1	15.5	..	28.0	5	4.2	24	200	12	..	53	16	142
The Hermitage Mt Cook	765	17.2	8.1	12.7	+0.1	24.2	28	2.9	24	258	21	-133	56	26	92
Mt John	1027	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Craigieburn Forest	914	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Lake Coleridge	364	19.8	10.1	15.0	+1.0	25.0	4	1.7	24	54	16	-1	15	13	..
Highbank Power Stn	336	18.5	9.7	14.1	+0.0	25.0	5	4.0	24	157	15	+69	53	16	139
Hororata Substation	192	20.1	9.6	14.9	+0.6	27.7	2	0.6	24	150	17	+75	36	12	131
Winchmore	160	19.5	10.6	15.1	+1.0	26.7	2	2.0	24	139	15	+69	53	12	..
Peel Forest	274	18.8	9.4	14.1	+0.8	26.1	28	2.0	25	92	23	+11	19	11	..
Ashburton	101	20.4	11.0	15.7	+0.5	29.6	2	2.5	24	117	14	+45	61	12	115

CLIMATOLOGICAL TABLE—Summary of the Records of Temperature, Rainfall, and Sunshine for March 1984—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.			Maxi-mum	Date	Mini-mum	Date				Amount	Date	
		Metres	°C	°C	°C	°C	°C	°C	°C	mm	mm	mm			
Waipara	64	..	11.7	..	..	..	..	4.2	24	223	12	+170	74	11	..
Ashley Forest	107	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Rangiora	46	20.8	10.8	15.8	+1.1	29.0	2	3.2	24	154	13	+91	56	12	..
Darfield	195	20.6	10.6	15.6	+0.7	27.3	4	1.9	24	211	13	+138	71	13	..
Eyrewell Forest	158	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Christchurch Airport	30	20.4	11.0	15.7	+0.7	28.5	5	2.5	24	104	14	+43	43	12	142
Templeton	46	20.2	10.0	15.1	+0.2	27.6	2	1.8	24	98	14	..	24	16	..
Christchurch	7	21.0	12.0	16.5	+1.1	28.4	2	3.6	24	76	13	+15	17	17	..
Bromley Christchurch	9	20.2	13.0	16.6	+1.1	27.5	2	5.5	24	94	13	+43	30	17	..
Mt Pleasant	137	19.9	13.4	16.7	+1.3	26.5	2	8.4	24	76	10	+29	34	17	..
Lincoln	11	20.3	11.0	15.7	+0.8	28.3	2	1.6	24	101	15	+38	25	13	125
Quail Island	75	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Akaroa	3	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Lake Tekapo	683	17.6	8.2	12.9	-0.4	23.4	28	0.8	24	37	15	-10	7	9	..
Lake Pukaki	556	18.4	9.3	13.9	-0.1	24.0	28	4.0	24	46	15	-14	14	21	..
Fairlie	304	19.2	8.8	14.0	..	27.2	2	0.9	24	70	14	..	17	11	..
Twizel	457	19.5	8.2	13.9	+0.3	25.0	2	0.2	24	49	17	-11	9	21	..
Ikawai	70	19.1	10.5	14.8	+1.2	25.5	2	1.5	23	69	11	+11	19	6	..
Geraldine	119	19.2	10.9	15.1	+0.6	26.0	28	3.4	24	66	15	-36	19	12	..
Orari Estate	81	18.8	10.7	14.8	+0.7	25.6	2	3.0	24	65	17	-10	24	11	..
Temuka	24	18.8	10.9	14.9	+0.6	25.5	28	2.8	25	46	11	-20	19	11	..
Timaru Airport	26	18.4	10.5	14.5	+0.5	23.6	2	2.6	24	32	12	-25	12	11	..
Adair	85	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Timaru	17	18.5	11.8	15.2	+0.5	23.8	28	5.3	24	45	14	-16	14	11	128
Waimate	61	19.3	11.3	15.3	+0.7	26.5	28	4.8	23	50	13	-13	12	9	..
Aviemore	241	20.0	10.4	15.2	..	25.4	2	3.4	23	57	16	+14	15	7	..
Kurov	207	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Oamaru Airport	30	18.0	11.5	14.8	+1.1	22.8	28	4.0	23	54	18	+1	22	9	114
Knobs Flat	360	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Tara Hills Omarama	488	18.7	8.8	13.8	+0.3	23.6	2	2.5	25	69	17	+22	23	6	131
Lake Hawea	350	18.8	10.0	14.4	-0.2	22.7	14	5.2	23	103	16	+39	31	1	..
Wanaka	296	20.1	9.7	14.9	+0.5	24.2	27	2.3	24	75	14	+15	19	1	..
Queensberry	277	20.2	9.8	15.0	..	24.3	27	3.6	23	60	17	..	12	4	..
Bendigo	200	21.2	9.5	15.4	..	25.8	27	1.9	23	51	15	..	12	6	..
Naseby	607	17.8	7.3	12.6	..	23.5	27	-0.4	23	85	13	..	18	7	..
Windsor	88	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Oamaru	5	17.6	11.5	14.6	..	28.0	28	5.5	23	52	14	..	12	10	..
Ranfurly	427	19.2	8.0	13.6	+1.1	24.7	28	-1.0	23	50	20	+3	12	7	125
Herbert Forest	61	18.8	9.9	14.4	+1.0	24.4	27	3.6	23	54	17	-7	17	7	..
Palmerston	21	18.4	10.0	14.2	+1.2	24.5	2	1.6	23	56	16	-10	19	10	109
Cherry Farm Hospital	6	17.9	10.4	14.2	+0.9	21.5	28	3.8	19	64	18	+0	18	10	..
Taiaroa Head	72	15.9	11.2	13.6	+0.4	21.0	28	8.0	19	96	22	+38	22	10	..
Invermay, Taieri	30	17.8	9.8	13.8	+0.7	23.5	2	3.1	23	144	21	+83	35	6	104
Berwick Forest	18	18.4	..	..	..	25.0	2	..	..	138	16	+73	36	6	..
Dunedin Airport	1	18.4	9.3	13.9	+0.7	24.3	2	2.0	19	132	18	+70	33	6	103
Musselburgh Dunedin	2	16.9	12.1	14.5	+0.5	21.6	2	5.6	19	126	20	+50	27	10	99
Te Anau	215	18.3	9.2	13.8	+0.8	24.2	27	1.2	23	131	18	+23	38	31	123
West Arm, Manapouri	232	17.3	10.4	13.9	+1.7	21.6	14	7.0	23	162	20	-203	50	31	..
Borland Burn	183	18.8	7.6	13.2	+0.8	24.1	27	-1.5	23	135	19	+32	39	31	..
Queenstown	329	19.9	10.2	15.1	+0.8	25.7	14	3.9	23	73	18	+0	12	1	148
Queenstown Airport	349	18.6	8.7	13.7	+0.6	24.8	1	1.7	23	70	15	+7	14	1	..
Otama	183	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Cromwell Sub Stn	213	20.9	10.0	15.5	..	25.5	27	2.5	25	43	12	-2	9	31	..
Cromwell	213	21.0	9.6	15.3	+0.3	26.2	27	2.9	25	52	16	+10	14	5	153
Northburn	210	20.9	10.0	15.5	..	25.3	14	3.1	23	42	14	..	8	4	..
Lauder	370	19.8	8.2	14.0	..	25.5	27	0.6	23	67	18	..	15	6	..
Clyde Dam	160	20.8	10.2	15.5	..	26.3	27	3.8	23	59	18	..	11	31	..
Ophir	305	20.6	7.3	14.0	+0.6	25.5	27	0.5	24	61	14	+14	17	6	..
Moa Creek	427	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Clyde	171	20.8	9.5	15.2	..	26.0	27	2.4	23	57	17	..	11	5	..
Alexandra	141	21.6	9.9	15.8	..	27.1	26	3.0	22	57	15	..	11	4	151
Roxburgh Power Stn	110	20.6	9.4	15.0	+0.6	26.0	2	2.0	23	69	13	+20	21	5	..
Ettrick	83	20.9	9.2	15.1	..	26.5	2	1.5	23	104	14	..	40	5	..
Deep Stream	396	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Beaumont	46	19.3	9.5	14.4	..	25.0	14	3.9	23	126	19	+46	25	6	..
Mahinerangi Dam	396	16.3	8.7	12.5	+0.7	21.7	2	2.5	22	143	16	+65	29	17	..
Tapanui	226	18.8	8.6	13.7	+0.5	25.5	2	2.0	23	165	16	+82	35	6	..
Taieri Mouth	15	16.5	10.3	13.4	+0.5	21.8	2	3.3	19	171	17	+108	58	6	..
Tuatapere	27	18.7	9.3	14.0	..	23.3	2	3.0	19	108	21	..	31	31	..
Otautau	55	18.2	8.3	13.3	+0.5	23.0	2	0.8	19	180	19	+85	47	31	98
Winton	44	18.3	8.3	13.3	+0.2	23.0	2	1.1	25	140	18	+62	30	31	111
Gore	123	18.1	9.3	13.7	+0.8	24.4	27	2.9	23	156	20	+68	36	31	120
Hokonui Forest	46	18.8	8.7	13.8	+0.5	24.0	14	1.1	23	158	19	+63	55	31	..
Woodlands	47	18.5	8.1	13.3	+0.5	23.7	2	1.5	23	146	25	+35	42	31	..
Invercargill Airport	0	18.1	8.7	13.4	+0.9	23.1	2	0.1	23	110	19	+21	42	31	101

CLIMATOLOGICAL TABLE—Summary of the Records of Temperature, Rainfall, and Sunshine for March 1984—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		mm	mm	mm		Hrs		
Tiwai Point, Bluff	5	17.2	10.4	13.8	+0.4	21.7	15	5.0	19	101	17	+8	29	31	..
Stewart Is	3	15.8	9.8	12.8	+0.6	20.5	13	3.0	19	88	22	+7	23	31	..
Milton	18	18.0	9.2	13.6	+0.4	24.8	2	1.9	19	155	15	+93	58	6	..
Clinton School	120	18.3	8.8	13.6	..	24.7	2	0.9	19	114	19	..	29	6	..
Finegand Balclutha	6	18.1	10.0	14.1	+0.7	24.0	2	3.0	19	166	16	+113	67	6	103
Owaka	5	17.1	9.1	13.1	+0.7	22.8	2	0.8	19	179	19	+105	82	6	..
Nugget Point	129	15.5	10.7	13.1	+0.5	20.7	2	6.9	19	146	22	+76	57	6	..
Tautuku	61	16.8	10.3	13.6	+0.5	21.8	15	2.8	19	188	19	+107	57	6	..
Nandi Airport, Fiji	19	31.5	22.7	27.1	+0.3	34.3	2	19.9	27	321	16	-34	99	17	198
Rarotonga Airport	7	28.8	23.5	25.2	-0.7	30.8	24	20.9	23	196	19	-59	68	2	171
Totokoitu, Rarotonga	9	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Raoul Is	38	25.0	21.1	23.1	-1.0	26.4	15	18.4	5	121	22	-22	26	8	117
Campbell Is	15	12.3	7.4	9.9	-1.3	15.9	27	1.9	1	39	20	-89	16	30	70
Waitangi, Chatham Is	44	18.8	13.1	16.0	+1.8	21.0	5	7.7	23	99	15	+24	38	8	125
Scott Base Antarctica	16	-12.4	-22.9	-17.7	+2.7	-3.2	15	-32.0	31	..	..	..	..	..	..
LATE RETURNS AND CORRECTIONS															
Marsden Power Stn 02/1984	3	23.8	15.7	19.8	-0.6	27.3	15	9.6	23	78	9	-6	34	6	..
Rotoroa Is 02/1984	30	22.7	16.6	19.7	..	26.2	8	12.6	21	55	9	..	26	10	..
Huntly 02/1984	34	24.2	14.6	19.4	..	27.1	18	10.3	20	112	12	..	30	10	..
Taupiri 10/1983	23	..	..	..	..	..	..	..	..	169	21	..	45	5	..
Taupiri 11/1983	23	..	..	..	..	..	..	..	..	62	13	..	13	1	..
Taupiri 12/1983	23	..	..	..	..	..	..	..	..	89	20	..	21	3	..
Port Taharoa 11/1983	27	19.3	11.5	15.4	-0.4	22.0	4	7.5	16	138	..	+33	..	..	..
Port Taharoa 01/1984	27	21.9	14.2	18.1	-1.1	26.0	31	10.0	18	78	7	+10	27	18	..
Lower Retaruke 02/1984	223	23.9	11.4	17.7	-0.2	28.1	27	3.9	21	108	8	+14	40	10	..
Ruatoria 02/1984	61	22.3	13.6	18.0	-1.2	28.2	15	8.0	23	112	14	-8	57	11	..
Patea 02/1984	43	20.8	12.8	16.8	-0.8	26.0	10	7.5	22	47	7	-19	15	10	..
Taihape 02/1984	433	21.9	8.8	15.4	-0.7	27.5	26	1.1	20	72	11	+1	21	11	..
Kahui, Taihape 02/1984	518	21.4	10.2	15.8	-0.9	26.5	27	3.7	20	65	11	-7	17	11	..
Westport Airport 01/1984	2	18.5	10.8	14.7	-1.4	20.7	31	5.8	17	132	13	-27	24	18	217
Westport Airport 02/1984	2	20.8	13.4	17.1	+0.8	23.7	26	10.9	5	44	9	-109	13	10	178
Lake Rotoiti 02/1984	634	20.8	7.9	14.4	-0.3	25.8	27	4.2	20	86	10	-20	25	3	..
Greymouth 12/1983	4	..	..	..	..	..	..	..	..	276	..	+74	51	9	..
Greymouth 01/1984	4	..	..	..	..	..	..	..	..	118	..	-79	..	..	..
Franz Josef 02/1984	155	19.9	11.4	15.7	..	24.4	11	10.0	20	345	11	..	94	29	95
Puyssegur Point 02/1984	43	17.0	11.5	14.3	..	21.2	28	8.5	19	145	15	-34	24	1	..
Wither Hills Blenheim 11/1983	32	18.9	8.9	13.9	-0.6	23.6	11	2.0	15	32	6	-18	12	14	..
Wither Hills Blenheim 02/1984	32	21.9	11.7	16.8	-1.1	28.2	28	6.5	22	60	6	+25	19	3	..
Boyle River Lodge 12/1983	600	..	6.9	..	..	..	..	2.5	15	149	..	..	..	..	..
Kaikoura Flats 02/1984	24	19.5	10.3	14.9	..	26.1	29	4.8	20	119	10	..	50	11	..
Craigieburn Forest 02/1984	914	18.6	7.4	13.0	-0.7	25.5	27	2.7	20	205	13	+127	82	11	..
Christchurch 01/1984	7	20.5	10.3	15.4	-1.6	29.3	27	6.0	14	109	10	+56	57	13	..
Christchurch 02/1984	7	21.0	12.1	16.6	-0.4	29.0	24	4.0	20	38	5	-2	15	3	..
Bromley Christchurch 02/1984	9	20.3	13.0	16.7	-0.2	28.6	29	5.6	20	35	7	-2	22	11	..
Temuka 01/1984	24	19.5	8.4	14.0	-1.8	27.9	9	4.3	30	57	8	-9	23	13	..
Kurow 12/1983	207	19.1	8.3	13.7	..	26.3	26	2.9	25	81	22	..	25	8	..
Kurow 01/1984	207	21.4	8.6	15.0	..	30.6	4	3.5	17	50	12	..	33	27	..
Kurow 02/1984	207	22.2	10.4	16.3	..	31.5	13	2.6	19	5	8	..	2	13	..
Oamaru 01/1984	5	17.8	10.0	13.9	..	26.8	26	5.5	7	39	11	..	18	27	..
Oamaru 02/1984	5	19.1	10.8	15.0	..	28.2	24	1.1	20	14	8	..	3	13	..
Taiaroa Head 01/1984	72	16.3	9.9	13.1	-1.0	26.0	26	7.5	14	80	20	+21	17	23	..
Ophir 12/1983	305	18.9	6.4	12.7	-2.0	27.0	6	-1.8	25	56	11	+9	16	8	..
Ophir 01/1984	305	20.9	5.5	13.2	-2.8	30.4	3	0.9	7	70	9	+22	25	26	..
Ophir 02/1984	305	23.3	7.3	15.3	-0.3	30.4	13	-0.1	19	25	5	-9	19	9	..
Totokoitu, Rarotonga 01/1984	9	29.1	22.7	25.9	+0.3	30.9	8	19.9	22	190	22	..	69	20	..
Totokoitu, Rarotonga 02/1984	9	29.3	24.1	26.7	+0.9	32.2	19	22.9	1	450	23	..	152	26	..
Campbell Is 01/1984	15	12.0	6.9	9.5	+0.1	14.2	31	2.8	17	82	24	-36	16	25	90

The "normal" refers to the present site of the instruments. Standard period for normals is 1941-1970. No normals are available for stations with only short records.

\*Indicates that the sunshine recorder is not located at the station but is in the near vicinity.

A rainy day is a day with rainfall equal to or greater than 0.1 mm.

Where the extremes of temperature and rainfall have occurred more than once during the month, the date of the first occurrence is given.

## NEW ZEALAND WEATHER DURING MARCH 1984

*General*—March was a very warm, cloudy and wet month in most parts of New Zealand. North-easterly winds were more frequent than usual over the whole country and south-westerlies were infrequent. Although winds were much lighter than usual in the south, there were more strong winds than usual in the north.

Hail and thunderstorms were rather more frequent than usual. A violent thunderstorm in the Te Anau - Dipton area of Southland on the 5th produced 100 mm of rain at Josephville (near Lumsden), causing considerable damage to roads and resulting in flooding in Te Anau and Lumsden. A thunderstorm at Auckland on the 10th caused localised flooding of shops and roads and resulted in about 23 motor accidents in the city. Hailstones, up to 45 mm across, damaged an estimated 90 percent of apple crops in the Riwaka - Motueka area on the 12th. A similar storm on the 13th, with stones the size of marbles, badly damaged apple crops in parts of Hawkes Bay. On the 31st a tornado struck the Tauranga suburb of Otumoetai causing serious damage to some homes.

Farmers throughout most of New Zealand reported excellent growth, but the humid and very wet conditions caused stock health problems in some areas.

*Rainfall*—Rainfalls were well above average over much of the country during March, with large areas of both islands receiving more than twice their normal March rainfall. New Plymouth had its highest ever March rainfall, while near-record rainfalls were recorded at Auckland, Dunedin and Paraparaumu. Some parts of Hawkes Bay, and central and south-western South Island areas, were quite dry however. Milford Sound recorded its driest March since 1967.

*Temperature*—The west coast of the South Island and Marlborough, along with much of the central North Island, was much warmer than usual during March, with temperatures between 1.5°C and 2°C above average. Hokitika had its warmest March on record. Over the remainder of the country temperatures were above average by between 0.5°C and 1°C.

Although overall temperatures for the month were above average, there was a long cool period between the 17th and 26th. On the 24th temperatures in many parts of New Zealand were 3°C to 5°C below average.

*Sunshine*—Parts of Northland, the Manawatu and Canterbury, had about average sunshine during March, but most of the country was very cloudy. Central North Island areas, along with parts of Marlborough and Otago were especially cloudy, with only about 70 percent of their usual sunshine. Both Taupo and Dunedin recorded their second-lowest ever March sunshine totals.

## THE WEATHER SEQUENCE—MARCH 1984

## 1-7 March

A large anticyclone near the Chatham Islands, with a ridge over the North Island, gave fine, warm weather to most of the country on the 1st and 2nd. However, a slow moving cold front gave rain to south Westland and Fiordland, with some heavy falls on the 1st.

Meanwhile a large, and complex low was developing in the mid Tasman Sea and during the 3rd and 4th its associated cold front gave widespread rain as it moved over New Zealand. This front became slow moving over the North Island on the 5th giving further heavy rain in most North Island areas and on the west coast of the South Island, while the remainder of the South Island received scattered showers. However, there were some violent thunderstorms in Southland in the evening. During the 6th and 7th the low moved slowly across the South Island giving rain in most places, while the slow moving front produced further rain over much of the North Island.

## 8-14 March

The low and its associated front moved off to the east on the 8th with a clearance to fine, warm weather. However, another cold front moved quickly across the South Island during the 9th, giving some further heavy rain in western areas. The front moved on to the North Island on the 10th, giving some heavy rain, especially in the Bay of Plenty - East Cape area, and scattered showers elsewhere. While many parts of the country became cooler after the passage of the front, most eastern areas remained warm. The front moved away to the east on the 11th, but left a large shallow low over the country. As a result the weather remained unsettled, with showers in many places, from the 11th to the 14th.

## 15-21 March

The low moved slowly away to the east on the 15th and a cold front moved on to the South Island, bringing widespread rain to western areas and some light showers to places east of the Southern Alps. As the front moved on to the North Island during the 16th a complex low developed over central New Zealand and gave widespread rain. The rain eased to scattered showers as the low moved away to the east on the 17th and a cool southerly airstream spread over the country.

A large anticyclone spread eastwards over New Zealand during the 19th and the southerlies died away. The weather then became fine throughout the country although temperatures remained cool. On the 21st another cold front moved north-east over the South Island, accompanied by a brief freshening of the southerlies, and a few showers.

## 22-31 March

Another anticyclone spread on to the country behind the front and apart from fresh easterlies and a few showers over the northern half of the North Island, the weather was fine and cool from the 22nd to the 25th. The anticyclone moved off to the east during the 25th and 26th, allowing a cold front to move on to the South Island where it became slow moving. Moist northerlies ahead of the front brought heavy rain to areas west of the Alps on the 26th, 27th and 28th, before the front moved southwards off the country. Meanwhile a low was developing in the north Tasman Sea and this moved slowly south during the 29th, 30th and 31st. Warm north-easterlies on the eastern side of the low gave widespread rain over the country during this period.

J. S. HICKMAN, Director.

