



SUPPLEMENT

TO THE

NEW ZEALAND GAZETTE

OF

THURSDAY, 21 FEBRUARY 1985

Published by Authority

WELLINGTON: MONDAY, 25 FEBRUARY 1985

CLIMATOLOGICAL TABLE
FOR DECEMBER 1984

NEW ZEALAND METEOROLOGICAL SERVICE

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

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	Hrs			
Cape Reinga	191	21.8	15.6	18.7	+1.6	25.0	28	13.7	25	108	14	+47	58	9	..
Kaitaia Airport	80	23.2	15.3	19.3	+1.6	26.2	22	11.6	19	78	15	-15	22	11	209
Aupouri Forest	69	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Kaitaia	8	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Kerikeri M A F	79	23.3	14.3	18.8	..	27.4	26	9.3	19	144	18	..	40	11	..
Kerikeri Downs	74	23.1	14.4	18.8	..	26.8	22	10.4	19	140	17	..	40	11	..
Kerikeri Downs 2	74	23.1	14.3	18.7	..	27.0	22	10.2	19	132	18	..	36	11	..
Kerikeri Aerodrome	150	23.3	14.0	18.7	..	26.5	26	10.6	19	87	12	..	29	11	..
Umawera	9	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Panguru	9	24.2	14.6	19.4	..	27.9	22	8.9	19	133	..	..	30	11	..
Kaikohe	204	22.1	14.5	18.3	+1.3	26.4	22	10.0	19	154	12	+24	35	10	196
Waiootemarama	229	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Waipoua Forest	88	23.2	13.4	18.3	+1.8	26.9	22	9.0	19	101	14	-3	30	11	..
Dargaville	20	23.5	13.8	18.7	+1.6	26.5	22	7.0	1	198	11	+113	56	10	206
Waitangi Forest	55	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Glenbervie Forest	107	22.9	12.7	17.8	+1.5	25.6	27	5.4	19	218	16	+103	40	10	..
Whangarei Airport	37	23.6	15.2	19.4	+1.3	26.7	27	10.7	19	193	14	+95	51	10	..
Whangarei	29	24.2	14.7	19.5	+1.7	28.0	22	9.4	19	155	11	..	43	10	204*
Marsden Power Stn	3	24.2	16.0	20.1	+1.7	27.1	16	10.6	19	155	16	+64	52	21	..
Pouto	97	22.6	15.6	19.1	..	26.6	28	13.2	19	142	12	..	62	10	..
Leigh	27	22.0	16.4	19.2	+1.7	25.2	26	12.9	19	190	11	+116	106	21	235
Warkworth	72	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Oyster Point	0	23.3	14.2	18.8	+1.8	27.5	28	9.2	19	166	12	+68	77	11	..
Woodhill Forest	30	22.9	14.2	18.6	+1.6	26.7	16	9.3	1	149	9	+58	68	11	..
Riverhead Forest	28	23.4	13.3	18.4	+1.8	27.3	22	8.3	19	189	8	+85	55	11	..
Kumeu	32	23.5	13.5	18.5	+1.8	26.9	16	7.9	19	160	9	..	51	11	..
Whenuapai	26	23.3	14.2	18.8	+1.7	26.9	22	8.4	19	176	12	+76	52	10	..
Albert Park Auckland	49	..	..	..	..	..	..	..	..	197	12	+109	80	16	247*
Owairaka, Auckland	41	23.0	15.4	19.2	+1.7	26.1	28	10.5	19	133	11	+35	47	11	..
Port Fitzroy	4	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Little Barrier Is	2	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Rotorua Is	30	22.2	16.8	19.5	..	24.5	27	14.3	19	154	8	..	74	21	..
Manukau Heads	244	22.3	15.4	18.9	..	25.9	22	13.5	19	163	12	+85	105	11	..
Coromandel	43	24.0	14.8	19.4	..	28.2	3	9.9	1	227	14	..	92	21	..
Whangapoua Forest	4	24.1	14.3	19.2	+1.9	26.7	26	8.2	1	182	13	+62	105	21	..
Thames	3	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Tairua Forest	3	23.5	14.2	18.9	+1.5	26.7	26	9.4	1	170	14	+37	72	21	..
Ngatea	1	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Paeroa	4	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Waihi	91	25.5	14.5	20.0	+2.8	27.3	26	8.8	20	116	14	+5	66	21	21..
Te Aroha	18	25.0	15.2	20.1	+2.0	29.2	28	10.0	20	163	13	+43	83	21	..
Katikati	2	24.2	14.8	19.5	..	28.3	26	9.0	20	102	12	..	59	21	..
Waharoa	60	24.7	13.4	19.1	..	28.5	28	6.5	19	243	12	..	95	21	..
Tauranga	2	22.9	15.9	19.4	+1.7	26.7	25	12.6	20	152	13	+31	83	21	..
Tauranga Airport	4	23.0	15.0	19.0	+1.6	25.7	24	11.3	20	165	13	+49	94	21	236
Te Puke	91	22.6	14.0	18.3	+1.5	26.0	23	10.6	13	270	15	+130	132	21	215
Rotoehu Forest	72	22.9	13.1	18.0	+1.5	28.5	20	7.4	13	213	14	+67	101	21	..
Whakatane Airport	6	22.9	14.4	18.7	+1.8	25.0	28	9.8	19	207	13	+115	60	21	235
Te Kaha	6	23.1	15.4	19.3	..	26.5	31	10.0	1	113	9	..	37	11	..
Port Ohope	9	22.8	16.1	19.5	+2.1	25.3	29	12.9	1	228	13	..	96	22	232
Kinleith	383	22.8	12.7	17.8	+2.2	26.4	31	6.9	19	238	14	+93	68	21	..
Tikitike	338	21.8	13.4	17.6	+1.9	25.7	26	9.4	19	221	13	..	106	21	..
Kawerau	30	24.6	14.0	19.3	+1.4	27.0	11	8.0	25	255	10	+104	110	21	..
Te Teko	8	26.4	14.6	20.5	+2.8	29.5	25	8.3	13	179	11	+44	77	21	208
Rotorua Airport	287	22.4	13.5	18.0	+2.0	26.2	26	8.4	19	202	15	+64	68	21	226
Waioapu Forest	435	22.4	11.9	17.2	+2.2	26.9	23	2.0	24	169	17	+43	55	21	..
Atiamuri Power Stn	253	24.1	12.9	18.5	+2.3	28.4	27	6.0	19	176	15	+48	65	21	..
Kaingaroa Forest	544	21.9	12.2	17.1	+2.4	26.6	26	6.7	19	309	19	+166	93	21	..
Murupara	198	24.7	13.2	19.0	+2.2	29.0	26	7.6	20	205	16	+68	68	21	..
Wairapukao Forest	437	23.3	11.5	17.4	+2.5	28.3	27	4.0	19	272	19	+136	80	21	..
Taupo	376	23.3	12.4	17.9	+2.2	28.2	27	7.6	7	175	18	+51	75	21	220
Wairakei Power Stn	342	23.9	12.4	18.2	+2.3	28.2	27	7.6	20	134	19	+6	65	21	..
Wairakei Research Stn	402	24.3	11.6	18.0	+2.7	28.3	26	5.8	7	134	16	+8	63	21	..
Minginui Forest	366	23.5	12.2	17.9	+2.6	29.0	27	5.4	19	256	17	+111	57	21	..
Taupo Airport	407	22.8	11.9	17.4	+1.8	26.7	28	6.8	20	155	15	+40	65	21	..
Waimihia Forest	743	19.9	10.3	15.1	+2.1	25.3	27	4.7	19	230	18	+73	46	21	..
Opotiki	6	22.7	15.4	19.1	+2.1	25.5	30	10.2	13	276	13	+155	103	22	240
Waimana	37	24.0	14.2	19.1	+2.0	27.0	24	8.4	18	296	13	+148	94	22	..
Mangere Auckland	4	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Otara Auckland	12	23.6	14.5	19.1	+1.9	27.0	28	9.4	19	149	10	+59	38	21	..
Auckland Airport	8	23.1	15.7	19.4	+1.6	26.7	28	12.9	25	117	10	+29	31	11	266
Ardmore	30	23.7	13.8	18.8	+2.0	27.0	28	8.5	19	156	14	+55	56	21	..
Pukekohe	82	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Maioia Forest	52	23.0	14.4	18.7	+1.6	27.5	21	11.4	1	179	10	+64	66	11	..
Hunua	122	23.0	12.6	17.8	..	26.6	28	7.8	19	134	11	..	64	21	..

CLIMATOLOGICAL TABLE—Summary of the Records of Temperature, Rainfall, and Sunshine for December 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.			Maximum	Date	Minimum	Date				Amount		Date
		Metres	°C	°C	°C	°C	°C	°C	mm	mm	mm	mm	mm		
Maramarua Forest	38	23.9	12.5	18.2	+1.7	27.2	28	7.2	19	172	9	+71	65	21	..
Te Kauwhata	32	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Huntly	34	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Taupiri	23	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Ruakura Hamilton	40	24.2	13.0	18.6	+2.1	27.5	28	7.5	19	188	11	+87	55	16	245
Whatawhata	104	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Hamilton Airport	50	24.5	12.2	18.4	+2.1	28.4	28	6.3	19	188	8	+84	53	21	..
Cambridge	76	24.6	13.4	19.0	+2.5	28.2	28	7.2	19	195	11	+99	65	21	..
Mohakatino Stn Mokau	46	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Arapuni Power Stn	123	25.2	12.5	18.9	+1.8	29.5	27	7.0	19	201	12	+80	73	21	..
Waikeria	46	24.4	13.0	18.7	+2.1	27.8	28	6.8	19	240	12	..	64	21	..
Te Kuiti	61	24.3	13.5	18.9	+2.2	28.3	31	8.0	19	155	16	+18	40	13	201
Wairere	122	23.0	12.4	17.7	..	28.1	31	7.5	19	154	14	+23	34	5	..
Pureora Forest	549	21.1	11.4	16.3	+2.4	25.4	31	5.9	20	201	18	+38	54	21	..
Mangakahu Valley	397	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Taumarunui	171	25.0	12.9	19.0	+2.0	29.0	28	7.9	19	182	21	+37	36	11	..
Tokirima	152	24.1	11.6	17.9	..	29.8	31	6.4	24	190	19	..	47	11	..
Omata	61	21.1	14.6	17.9	+1.7	25.3	31	8.9	23	163	15	+53	44	11	..
New Plymouth	55	21.8	13.7	17.8	+1.8	26.5	31	8.6	24	149	15	+33	45	11	..
New Plymouth Airport	27	21.1	14.0	17.6	+1.7	25.0	31	8.7	24	149	14	+32	41	11	231
North Egmont	955	16.2	9.2	12.7	..	21.3	31	3.5	24	607	19	..	124	5	..
Te Wera Forest	180	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Lower Retaruke	223	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Turangi	366	22.7	12.5	17.6	+1.8	27.4	26	7.0	19	225	17	+66	74	21	198
Chateau, Mt Ruapehu	1097	17.2	7.7	12.5	..	22.2	26	1.5	19	383	20	..	80	16	..
Hukanui	235	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Mt Bruce Res	305	..	11.5	..	..	..	..	2.5	25	114	12	-68	29	11	..
Waingawa Masterton	114	23.5	12.1	17.8	+2.0	29.0	16	6.4	24	38	11	-45	20	11	194
Kopua	311	21.9	12.3	17.1	+2.2	27.6	16	8.7	31	112	14	-12	37	11	..
Waipukurau	137	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Dannevirke	207	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Porangahau	8	23.2	13.7	18.5	..	29.2	16	9.4	31	63	8	..	15	11	..
Castlepoint	3	21.1	15.3	18.2	+1.5	24.5	6	12.6	2	55	8	-21	34	11	..
Ngaumu Forest	244	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Tauherenikau, Alloa	43	22.8	12.6	17.7	+1.8	28.1	26	7.3	24	52	10	-33	19	11	..
Waiorongomai	21	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Cape Palliser	10	..	..	..	..	..	..	..	..	..	..	..	..	..	..
East Cape	17	21.6	16.1	18.9	+1.9	24.0	13	11.9	19	50	12	-44	14	11	..
Ruatoria	61	24.6	14.1	19.4	+1.8	27.9	7	8.8	20	85	13	-63	28	10	..
Mangatu Forest	182	24.9	12.8	18.9	+2.1	29.3	28	8.4	19	74	12	-49	13	14	..
Manutuke Gisborne	9	24.3	14.0	19.2	+2.0	29.1	20	7.8	19	62	13	-18	18	14	..
Gisborne Airport	4	24.9	14.1	19.5	+2.1	28.8	20	9.4	4	52	11	-32	17	14	231
Onepoto, Waikaremoana	643	21.9	11.9	16.9	+2.3	28.2	28	8.6	19	175	19	-26	38	29	..
Wharerata Forest	439	..	12.8	..	..	..	..	9.2	19	97	11	..	26	11	..
Esk Forest	427	21.6	13.2	17.4	+2.3	26.4	20	7.5	19	178	12	+9	67	29	..
Ngamatea	885	19.2	8.7	14.0	..	24.1	27	2.5	19	100	14	..	27	11	..
Kaweka Forest	414	22.4	12.9	17.7	+2.0	28.2	21	9.9	18	174	12	+30	47	10	..
Napier Airport	2	23.5	15.0	19.3	+2.3	30.0	16	10.9	18	66	13	-18	17	11	..
Napier	2	24.6	15.7	20.2	+2.4	29.9	16	10.1	19	53	10	-24	12	11	216
Hastings	16	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Whakatū	6	23.5	13.9	18.7	..	27.4	16	8.3	19	49	8	..	12	16	..
Gwavas Forest	335	22.6	11.1	16.9	+2.4	26.8	16	5.7	19	149	16	+11	40	29	..
Makaretu	335	23.2	11.9	17.6	+2.3	27.5	16	6.3	19	132	18	+14	43	11	..
Mohaka Forest	286	22.9	13.3	18.1	+2.1	29.0	20	9.6	19	105	9	-39	20	21	..
Frasertown, Wairoa	8	24.6	14.7	19.7	+2.1	30.5	20	9.7	19	56	14	-77	23	22	..
Wairoa	20	24.3	..	..	..	29.5	20	..	..	96	9	-34	42	29	215
Kapiti Is	16	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Paraparaumu Airport	7	21.2	13.9	17.6	+1.7	24.6	30	9.2	2	83	12	+6	20	11	250
Flockhouse Bulls	9	22.1	13.3	17.7	+1.9	27.7	16	10.2	26	89	15	+1	30	14	..
Ohakea	48	22.6	13.6	18.1	+1.8	27.3	16	11.1	24	77	13	-12	28	14	259
Wharite Peak	914	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Kairanga Palmerston N	15	22.7	12.5	17.6	+1.8	28.0	16	8.2	24	79	13	-1	27	14	251
Palmerston N Airport	45	23.0	12.9	18.0	+2.1	27.8	16	7.8	4	116	13	+24	27	22	..
Palmerston N D S I R	34	22.6	13.6	18.1	+1.7	27.9	16	10.1	8	103	15	+1	29	14	206
Tiritia	100	22.0	12.8	17.4	..	27.9	16	9.7	8	105	13	..	29	14	..
Waitarere Forest	3	21.8	13.5	17.7	+1.6	26.8	16	8.8	31	57	11	-21	17	16	..
Levin	46	21.7	13.6	17.7	+1.9	25.9	16	10.1	31	77	14	-23	18	13	236
Titahi Bay	31	21.1	14.6	17.9	..	25.3	16	9.5	24	66	13	..	16	11	..
Avalon, Lower Hutt	15	21.2	14.1	17.7	+1.8	25.3	16	8.9	2	62	10	-44	14	5	..
Highland Pk Wgtn	120	20.1	13.9	17.0	..	24.9	26	10.3	24	77	9	..	22	5	..
Kelburn, Wellington	125	19.6	13.8	16.7	+1.4	23.8	26	10.8	24	65	9	-30	21	5	244
Somes Is	43	19.7	14.4	17.1	+1.5	24.5	16	10.0	18	56	9	-48	16	5	..
Gracefield Lower Hutt	34	20.5	14.3	17.4	+1.6	25.0	16	9.5	2	50	8	-48	11	5	..
Wainuiomata	82	20.5	13.2	16.9	+1.7	24.5	26	7.4	2	59	10	-70	14	11	..
Wellington Airport	6	20.8	15.2	18.0	+1.8	25.3	16	12.4	24	49	9	-30	14	5	..

CLIMATOLOGICAL TABLE—Summary of the Records of Temperature, Rainfall, and Sunshine for December 1984—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	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	°C	mm	mm	mm	mm	mm		
Rimutaka Forest	37	21.3	..	..	..	25.4	16	..	..	66	9	..	16	11	..
Kaitoke	223	20.5	11.5	16.0	+1.7	25.5	26	4.9	24	72	14	-95	12	5	194
Wallaceville	56	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Cape Egmont	8	21.0	14.8	17.9	+1.7	24.5	30	11.8	15	148	16	+49	33	13	..
Stratford Mtn House	846	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Stratford Dem Farm	311	20.6	11.0	15.8	+1.6	25.3	30	6.0	19	218	18	+56	33	5	216
Kapuni	173	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Manaia Dem Farm	98	20.8	12.4	16.6	+1.4	24.4	21	8.3	19	70	13	-26	20	11	229
Normanby	122	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Patea	43	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Pipiriki	80	..	12.9	..	..	..	..	8.6	19	145	17	..	35	14	..
Ohakune Junction	629	20.4	10.7	15.6	+2.2	25.4	27	6.0	1	161	16	+27	39	16	..
Karioi	648	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Waiouru	823	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Waiouru Military Camp	823	19.6	9.3	14.5	+2.5	24.3	27	3.4	1	115	16	-2	24	16	..
Ahu Ahu Valley	85	24.2	12.5	18.4	..	27.6	27	6.5	19	104	14	..	21	3	..
Taihape	433	23.2	10.8	17.0	+2.4	28.2	28	5.5	19	105	16	-9	23	2	..
Kahui, Taihape	518	22.3	11.9	17.1	+2.7	25.7	27	7.1	19	97	13	+0	27	1	..
Wanganui	22	22.9	14.6	18.8	+2.2	27.2	16	11.6	19	92	16	+4	33	14	255
Wanganui Airport	9	22.5	13.7	18.1	..	27.2	16	9.2	31	83	13	+9	36	14	..
Totaranui	10	20.9	12.5	16.7	..	25.4	25	8.5	13	172	11	+56	37	11	..
Westport Airport	2	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Cobb Dam	823	17.2	7.7	12.5	+0.9	24.0	27	3.2	7	322	16	+158	84	16	..
Arapito	20	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Lake Rotoroa	443	20.6	8.7	14.7	..	28.3	27	0.6	3	190	..	..	37	16	..
Lake Rototiti	634	19.0	8.0	13.5	+0.3	28.4	27	3.2	7	233	21	+93	62	29	..
Hokitika Airport	39	18.4	11.1	14.8	+0.5	21.4	31	6.4	1	349	20	+127	89	19	183
Punakaiki	4	19.9	12.9	16.4	..	23.8	31	9.6	2	386	18	..	105	19	..
Reefton	198	21.6	10.5	16.1	+0.9	30.5	31	6.0	9	261	19	+100	38	16	..
Barrytown	30	19.3	12.5	15.9	..	23.0	31	8.5	2	417	19	+210	110	19	..
Totara Flat	77	21.9	9.7	15.8	+0.7	29.1	31	5.0	7	222	19	+60	58	19	..
Greymouth	4	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Otira Substation	383	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Springs Junction	421	19.9	8.9	14.4	+0.8	29.4	31	3.1	24	340	20	+177	56	29	..
Pukekura	86	18.8	9.8	14.3	..	25.0	31	..	..	566	20	..	97	19	..
Hari Hari	45	19.7	10.6	15.2	+0.8	27.5	31	2.4	24	756	21	+452	145	19	..
Okarito	10	18.6	9.1	13.9	..	22.1	31	1.7	7	680	19	..	187	21	..
Franz Josef	155	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Fox Glacier	152	18.3	10.0	14.2	+0.6	25.7	31	5.7	1	1052	20	+661	172	20	..
Milford Sound	3	17.7	9.7	13.7	-0.1	25.7	31	5.2	2	870	23	+341	190	20	..
Puysegur Point	43	16.1	11.0	13.6	..	21.5	20	8.5	2	323	23	+149	94	26	..
Stephens Is	187	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Riwaka Motueka	8	22.1	11.4	16.8	+0.7	25.0	20	6.4	7	197	12	+106	56	11	242
Tapawera	146	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Crail Bay Pelorus Sd	13	20.0	13.8	16.9	..	22.7	3	11.4	25	247	14	..	53	11	..
Appleby	17	20.9	12.4	16.7	+0.6	24.3	30	7.6	7	154	13	+84	42	11	..
Nelson Airport	2	20.8	12.6	16.7	+0.7	24.3	1	8.5	7	169	14	+95	41	11	222
Rai Valley	79	21.5	11.7	16.6	+1.3	25.4	3	5.9	24	314	11	+155	62	4	..
Moutere Hills	110	20.6	13.1	16.9	+0.7	24.4	30	9.8	7	156	14	+72	46	16	..
Wairau Valley	162	21.2	10.9	16.1	..	26.8	25	5.1	2	210	15	..	62	16	..
Blenheim Airport	27	21.3	12.2	16.8	+0.6	26.8	25	6.6	2	148	11	+93	69	11	..
Brancott Valley	64	21.3	..	..	..	25.6	22	..	..	146	11	..	66	11	..
Blenheim	4	21.9	12.5	17.2	+0.6	27.7	25	6.7	2	124	11	+76	56	11	206
Wither Hills Blenheim	32	21.6	12.5	17.1	+0.5	26.5	25	7.5	2	117	11	+69	46	11	..
Waihopai Power Stn	262	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Duntroon	350	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Lake Grassmere	2	21.1	14.3	17.7	+1.5	26.0	23	10.0	21	124	11	+81	74	11	209
Cape Campbell	3	19.1	13.9	16.5	+1.3	21.8	4	11.6	13	114	13	+67	68	11	..
Boyle River Lodge	600	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Hanmer Forest	387	21.3	9.5	15.4	+1.1	28.4	26	2.4	2	78	10	-21	23	11	185
Molesworth	893	18.8	6.2	12.5	+0.1	25.8	27	0.6	9	152	14	+90	47	16	..
Kaikoura Flats	24	20.5	11.2	15.9	..	27.1	20	6.5	3	89	10	..	39	11	..
Kaikoura	108	19.8	13.3	16.6	+1.7	26.0	19	10.2	2	81	9	+13	47	11	192
Arthurs Pass	738	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Culverden	174	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Balmoral Forest	198	22.2	10.3	16.3	+1.2	27.3	26	4.5	2	63	12	+8	19	11	..
Waiou	137	23.1	10.8	17.0	..	29.5	5	4.2	7	52	8	..	18	11	..
Cheviot	85	21.2	10.4	15.8	..	29.7	20	4.7	7	68	9	..	36	11	202
The Hermitage Mt Cook	765	17.0	7.4	12.2	-0.6	27.7	31	2.6	1	925	21	+546	225	20	122
Mt John	1027	16.5	6.3	11.4	-0.5	22.5	31	0.5	23	136	15	+87	42	21	..
Craigieburn Forest	914	17.8	6.7	12.3	+0.4	25.4	31	1.7	1	266	23	+117	77	19	..
Lake Coleridge	364	20.2	8.8	14.5	+0.2	26.6	25	3.5	2	104	18	+41	47	19	..
Highbank Power Stn	336	19.0	10.4	14.7	+0.5	24.9	25	5.5	2	54	13	-36	17	11	195
Hororata Substation	192	21.4	9.9	15.7	+0.7	28.1	20	3.0	2	66	17	-9	23	8	184
Winchmore	160	20.6	10.2	15.4	+0.8	25.9	20	4.8	8	54	13	-14	15	11	..

CLIMATOLOGICAL TABLE—Summary of the Records of Temperature, Rainfall, and Sunshine for December 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	°C	mm	mm	mm	Hrs				
Peel Forest	274	20.1	9.4	14.8	+1.2	25.5	21	1.5	2	151	23	+46	40	8	..
Ashburton	101	21.8	11.1	16.5	+0.7	28.4	20	4.7	2	37	8	-30	13	11	169
Waipara	64	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Ashley Forest	107	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Rangiora	46	21.5	11.3	16.4	+1.2	27.6	4	6.1	8	66	15	+0	35	11	..
Darfield	195	22.2	10.4	16.3	+0.8	29.1	26	4.6	2	57	11	-15	20	11	..
Eyrewell Forest	158	21.9	10.8	16.4	+1.2	28.5	20	4.8	2	45	10	-23	28	11	..
Christchurch Airport	30	21.7	11.8	16.8	+1.2	29.8	20	6.4	8	63	12	+13	30	11	196
Templeton	46	21.2	11.0	16.1	+1.0	29.0	20	5.8	4	45	10	..	23	11	..
Christchurch	7	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Bromley Christchurch	9	20.6	13.1	16.9	+1.1	28.0	20	8.0	8	53	16	+5	33	11	..
Mt Pleasant	137	19.8	13.1	16.5	+1.2	24.7	19	10.2	8	56	14	+8	33	11	..
Lincoln	11	21.0	10.9	16.0	+0.7	28.5	20	4.2	8	46	11	-8	23	11	184
Quail Island	75	20.2	13.1	16.7	..	25.4	20	9.7	8	64	11	..	37	12	..
Akaroa	3	22.3	11.8	17.1	+1.5	28.0	20	6.6	8	61	8	..	42	11	..
Lake Tekapo	683	18.2	8.3	13.3	-0.6	24.6	31	4.0	10	137	15	+89	39	21	..
Lake Pukaki	556	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Fairlie	304	20.2	8.6	14.4	..	26.6	20	0.9	2	106	11	..	33	21	..
Twizel	457	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Ikawai	70	19.1	10.0	14.6	+0.7	25.0	20	5.0	2	72	14	+14	11	5	..
Geraldine	119	21.1	10.9	16.0	+1.1	28.1	20	3.9	2	82	14	+4	19	7	..
Orari Estate	81	21.0	10.7	15.9	+1.4	29.3	20	3.2	2	74	15	-2	23	7	..
Temuka	24	20.8	10.7	15.8	+1.3	29.9	20	3.8	2	60	14	-1	19	8	..
Timaru Airport	26	20.2	10.7	15.5	+1.3	29.3	20	3.2	2	62	12	+9	19	8	..
Adair	85	19.1	11.3	15.2	+0.9	27.0	20	6.4	2	80	16	+20	17	5	..
Timaru	17	20.0	11.9	16.0	..	29.6	20	6.4	2	60	16	..	13	11	158
Timaru 2	17	19.4	11.8	15.6	..	28.3	20	5.5	2	58	14	..	13	11	..
Waimate	61	19.0	10.8	14.9	-0.1	26.0	20	7.5	2	76	15	+12	11	4	..
Aviemore	241	19.7	10.0	14.9	..	25.0	20	4.4	2	71	16	+23	17	20	..
Kurow	207	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Oamaru Airport	30	18.2	11.0	14.6	+0.8	24.4	19	6.4	30	66	17	+17	13	4	145
Knobs Flat	360	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Tara Hills Omarama	488	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Lake Hawea	350	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Wanaka	296	20.6	9.7	15.2	-0.4	29.9	31	4.1	1	140	17	+88	25	7	..
Queensberry	277	20.7	10.3	15.5	..	31.2	31	4.1	1	126	18	..	34	19	..
Bendigo	200	21.2	10.2	15.7	..	31.4	31	2.4	1	62	15	..	19	20	..
Naseby	607	18.4	7.4	12.9	..	26.5	31	1.1	1	50	14	..	10	21	..
Windsor	88	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Oamaru	5	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Ranfurly	427	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Herbert Forest	61	18.9	9.5	14.2	+0.8	26.5	19	4.9	2	69	19	+9	14	12	..
Palmerston	21	18.8	9.9	14.4	+1.0	24.5	19	4.7	30	50	16	-10	13	12	127
Cherry Farm Hospital	6	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Taiaroa Head	72	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Invermay, Taieri	30	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Berwick Forest	18	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Dunedin Airport	1	18.9	9.3	14.1	+0.5	25.8	20	3.9	1	66	20	-1	13	26	119
Musselburgh Dunedin	2	17.3	11.3	14.3	+0.3	24.4	19	8.6	30	77	21	+4	13	12	121
Te Anau	215	19.2	8.9	14.1	+0.7	28.0	31	3.2	2	119	15	+28	29	18	147
West Arm, Manapouri	232	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Borland Burn	183	20.7	7.4	14.1	+1.4	28.7	31	3.1	1	135	..	+52	24	18	..
Queenstown	329	20.2	9.6	14.9	+0.1	28.7	31	5.3	1	123	16	+60	24	20	162
Queenstown Airport	349	19.4	8.1	13.8	-0.1	26.8	31	1.7	1	92	15	+40	15	20	..
Gibbston	366	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Otama	183	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Cromwell Sub Stn	213	21.8	10.9	16.4	..	31.3	31	5.9	1	49	18	+9	8	20	..
Cromwell	213	22.1	10.4	16.3	+0.0	31.7	31	2.6	1	62	19	+24	11	20	175
Northburn	210	21.8	10.7	16.3	..	32.2	31	3.8	1	38	17	..	10	7	..
Cromwell 2	213	21.7	10.4	16.1	..	31.0	31	3.2	1	63	20	..	11	20	..
Lauder	370	21.2	9.1	15.2	..	30.0	31	2.3	1	47	16	..	8	20	..
Clyde Dam	160	21.9	11.3	16.6	..	31.1	31	7.1	1	54	17	..	10	8	..
Ophir	305	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Clyde(Dsirr)	171	22.1	10.7	16.4	..	30.6	31	5.4	1	50	16	..	8	8	..
Alexandra	141	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Roxburgh Power Stn	110	21.1	9.2	15.2	-0.2	28.5	3	2.5	1	51	16	-5	8	6	..
Ettrick	83	21.4	9.9	15.7	..	28.7	31	1.6	1	55	15	..	7	22	..
Deep Stream	396	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Beaumont	46	20.0	9.3	14.7	..	26.7	20	3.2	1	82	18	-1	14	26	..
Mahinerangi Dam	396	16.4	7.8	12.1	+0.3	22.3	31	2.0	1	113	16	+25	35	22	..
Tapanui	226	18.8	8.2	13.5	-0.2	25.1	3	2.6	2	106	20	+26	19	26	..
Taieri Mouth	15	16.5	9.3	12.9	+0.1	23.4	20	4.9	1	78	17	+8	12	22	..
Tuatapere	27	18.8	9.2	14.0	..	25.0	20	3.8	1	126	21	..	50	26	..
Otautau	55	18.3	8.8	13.6	+0.5	23.6	20	3.4	1	116	17	+33	39	26	121
Winton	44	18.9	8.9	13.9	+0.4	25.0	20	4.1	10	99	15	+29	30	26	136

CLIMATOLOGICAL TABLE—Summary of the Records of Temperature, Rainfall, and Sunshine for December 1984—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	mm	mm	mm				
Gore	123	18.8	9.3	14.1	+0.7	25.8	20	5.0	2	97	19	+14	25	26	158
Hokonui Forest	46	19.3	8.5	13.9	+0.2	24.9	3	3.3	2	58	11	-29	20	26	..
Woodlands	47	18.8	8.7	13.8	+0.7	25.7	20	2.9	1	107	22	+33	23	26	..
Invercargill Airport	0	18.1	9.5	13.8	+0.9	24.3	20	2.6	1	101	20	+17	31	26	152
Tiwai Point, Bluff	5	17.5	10.6	14.1	+0.7	24.3	20	5.6	1	88	19	+6	32	26	..
Stewart Is	3	16.1	9.7	12.9	+0.7	22.0	14	5.3	7	156	24	+52	32	26	..
Milton	18	18.8	9.1	14.0	+0.4	24.1	20	2.4	1	83	16	+11	14	26	..
Clinton School	120	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Finegand Balclutha	6	18.5	10.0	14.3	+0.6	25.2	20	5.5	1	99	19	+35	15	22	124
Owaka	5	17.1	9.0	13.1	-0.1	21.8	20	2.4	1	126	22	+58	21	14	..
Nugget Point	129	15.8	9.7	12.8	+0.5	20.0	20	7.6	9	105	23	+29	18	26	..
Tautuku	40	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Nadi Airport Fiji	19	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Rarotonga Airport	7	27.4	22.9	25.2	+0.3	28.9	4	20.8	7	350	26	+119	90	6	112
Totokoitu, Rarotonga	9	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Raoul Is	38	24.4	20.3	22.4	+1.9	25.7	13	17.5	1	134	16	+20	37	18	150
Campbell Is	15	12.2	7.0	9.6	+0.8	15.3	3	1.3	12	40	20	-62	12	16	99
Waitangi, Chatham Is	44	18.8	12.6	15.7	+2.1	21.5	16	4.6	11	75	13	+16	16	6	153
Scott Base Antarctica	16	+0.8	-6.3	-2.8	+2.7	+6.5	17	-13.5	1	..	..	..	..	..	..
LATE RETURNS AND CORRECTIONS															
Kerikeri M A F 11/1984	79	21.3	13.0	17.2	..	25.1	22	7.0	21	134	20	..	29	3	..
Kerikeri Downs 11/1984	74	21.1	13.1	17.1	..	24.6	22	7.2	21	133	20	..	29	3	..
Kerikeri Downs 2 11/1984	74	21.2	13.0	17.1	..	24.5	22	7.9	21	122	20	..	27	3	..
Umawera 07/1984	9	16.7	6.0	11.4	+0.8	20.0	1	-0.5	18	169	15	+15	34	12	..
Panguru 10/1984	9	18.6	9.0	13.8	..	23.1	18	3.4	4	36	..	..	10	18	..
Panguru 11/1984	9	21.8	13.1	17.5	..	24.6	14	6.0	21	141	..	..	41	15	126
Kaikohe 11/1984	204	20.0	12.6	16.3	+1.0	22.9	11	6.8	17	109	15	+4	36	7	155
Waiotemarama 09/1984	229	15.4	8.4	11.9	+0.0	17.4	21	4.8	17	98	15	..	21	26	..
Waitangi Forest 11/1984	55	21.8	13.3	17.6	+1.2	25.9	13	7.5	21	122	17	+39	33	2	179
Whangapoua Forest 11/1984	4	22.2	12.8	17.5	+1.9	26.2	15	6.0	1	107	12	-3	42	2	..
Waihi 11/1984	91	21.4	12.2	16.8	+1.5	25.9	24	6.2	1	113	13	-17	26	2	153
Port Ohope 11/1984	9	20.2	12.9	16.6	+0.8	22.9	21	8.8	19	139	9	..	73	3	235
Wairakei Research Stn 11/1984	402	21.0	9.5	15.3	+2.2	25.4	7	2.0	28	66	8	-30	21	25	..
Taupo Airport 11/1984	407	20.0	10.4	15.2	+1.8	25.1	29	1.5	28	41	10	-45	17	25	..
Opotiki 11/1984	6	20.1	12.4	16.3	+1.2	23.0	14	7.5	17	112	8	+17	35	3	207
Pukekohe 05/1984	82	16.2	8.4	12.3	-0.4	20.5	7	1.0	21	116	17	..	43	9	..
Whatawhata 11/1984	104	20.7	11.5	16.1	+1.5	24.5	24	6.4	1	117	13	-6	53	2	157
Hamilton Airport 11/1984	50	21.7	11.0	16.4	+2.1	25.5	24	4.3	21	127	10	+35	39	15	..
New Plymouth 11/1984	55	19.5	12.4	16.0	+1.6	22.4	27	8.5	21	141	14	+1	46	2	..
Te Wera Forest 11/1984	180	19.3	10.5	14.9	+1.9	22.5	29	4.5	17	157	17	-13	46	24	..
Waipukurau 11/1984	137	22.4	9.8	16.1	+2.1	27.7	24	3.4	28	28	6	-26	12	3	194*
Wairongomai 11/1984	21	19.1	11.7	15.4	+1.7	23.7	28	3.7	19	87	9	-36	25	24	..
Ruatoria 11/1984	61	22.8	11.8	17.3	+1.5	28.5	22	6.8	18	103	9	+7	38	3	..
Esk Forest 11/1984	427	20.4	11.0	15.7	+2.2	25.9	12	4.0	28	80	8	-19	48	25	..
Napier Airport 11/1984	2	21.9	11.4	16.7	+1.4	29.7	24	4.3	17	75	8	+28	38	25	..
Palmerston N Airport 11/1984	45	20.3	11.0	15.7	+1.8	26.7	29	7.0	29	78	9	+8	28	4	..
Kaitoke 11/1984	223	18.3	9.9	14.1	+1.8	23.4	28	1.5	19	187	11	+4	69	24	193
Wallaceville 11/1984	56	19.0	..	..	..	23.0	28	..	..	99	11	-8	43	24	191
Cape Egmont 11/1984	8	18.8	12.7	15.8	+1.3	21.5	14	7.0	15	94	14	-6	28	24	..
Ahu Ahu Valley 11/1984	85	21.5	10.4	16.0	..	25.8	28	5.4	21	89	13	..	24	24	..
Taihape 11/1984	433	20.4	9.3	14.9	+2.1	25.3	28	3.0	28	42	15	-36	10	16	..
Kahui, Taihape 11/1984	518	19.3	9.9	14.6	+1.7	22.7	12	4.6	17	38	12	-35	9	16	..
Wanganui Airport 11/1984	9	19.9	12.0	16.0	..	24.6	23	4.2	27	68	10	+5	28	24	..
Westport Airport 11/1984	2	17.1	10.3	13.7	+0.7	20.0	3	4.8	17	180	17	-31	53	21	147
Cape Campbell 11/1984	3	17.6	12.0	14.8	+1.1	20.8	23	6.9	17	35	8	-10	23	3	..
The Hermitage Mt Cook 11/1984	765	17.8	6.7	12.3	+2.0	23.5	10	-1.4	19	668	15	+282	235	22	154
Craigieburn Forest 11/1984	914	17.7	5.4	11.6	+2.0	25.3	28	-2.0	19	245	15	+86	82	23	..
Waipara 10/1984	64	..	..	..	..	..	..	..	..	33	..	-20	..	..	..
Waipara 11/1984	64	..	..	..	..	..	..	..	..	57	..	+13	33	16	..
Ashley Forest 11/1984	107	19.1	9.3	14.2	+1.0	26.5	14	3.5	19	88	6	+28	53	16	203
Akaroa 11/1984	3	21.7	9.5	15.6	+1.9	30.0	28	5.0	26	78	6	..	42	16	..
Timaru Airport 11/1984	26	20.1	8.9	14.5	+2.1	29.4	15	0.3	19	46	6	-9	16	23	..
Kurow 09/1984	207	14.7	3.2	9.0	..	21.9	12	-0.6	20	22	6	..	9	12	..
Oamaru Airport 11/1984	30	18.5	9.0	13.8	+1.6	27.5	30	3.6	17	54	11	+3	17	13	175
Tara Hills Omarama 11/1984	488	20.4	6.3	13.4	+1.5	26.0	11	-1.5	17	56	9	+9	32	22	213
Lake Hawea 11/1984	350	19.0	7.8	13.4	+0.5	24.0	3	1.8	17	58	9	-10	17	16	..
Wanaka 11/1984	296	20.7	7.7	14.2	+1.3	25.0	4	0.5	17	55	8	-5	19	22	..
Oamaru 11/1984	5	18.7	9.7	14.2	..	27.7	30	4.5	18	48	8	..	15	16	..
Herbert Forest 11/1984	61	19.1	..	..	..	28.3	30	..	..	46	11	-35	9	16	..
Taiaroa Head 11/1984	72	16.2	8.8	12.5	+1.1	24.2	21	1.5	19	36	14	-28	10	24	..
Gibbston 11/1984	366	20.1	7.7	13.9	..	25.0	28	0.5	17	48	10	..	15	22	..
Cromwell 11/1984	213	22.1	7.8	15.0	+1.3	27.0	28	1.1	17	45	10	+12	12	21	232
Cromwell 2 07/1984	213	7.2	-2.2	2.5	..	15.7	31	-7.2	19	49	13	..	14	20	..
Cromwell 2 08/1984	213	12.1	0.1	6.1	..	15.7	11	-6.3	9	19	9	..	10	4	..
Cromwell 2 09/1984	213	14.7	0.7	7.7	..	19.4	11	-2.9	8	19	6	..	11	12	..
Cromwell 2 10/1984	213	17.7	4.4	11.1	..	24.0	14	-3.2	9	23	11	..	10	16	..

CLIMATOLOGICAL TABLE—Summary of the Records of Temperature, Rainfall, and Sunshine for December 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	°C	mm	mm	mm	Hrs		
Cromwell 2 11/1984	213	21.7	8.0	14.9	..	26.7	28	1.2	17	46	10	..	11	21	..
Ophir 11/1984	305	20.0	6.1	13.1	+0.8	25.0	11	-1.2	26	57	9	+20	13	15	..
Roxburgh Power Stn 11/1984	110	20.9	7.8	14.4	+1.1	29.0	28	0.0	26	42	13	-2	12	22	..
Etrick 11/1984	83	20.9	8.2	14.6	..	27.7	15	1.5	17	46	9	..	12	13	..
Mahinerangi Dam 11/1984	396	16.3	6.5	11.4	+1.2	22.9	28	-0.1	19	83	14	-2	20	18	..
Gore 11/1984	123	17.5	7.6	12.6	+1.0	22.8	29	1.8	18	71	14	-5	18	18	181
Clinton School 11/1984	120	18.2	6.9	12.6	..	22.8	15	0.9	19	64	15	..	10	18	..
Totokoitu, Rarotonga 09/1984	9	24.4	18.0	21.2	-0.7	28.0	19	13.0	7	176	12	..	51	12	..
Totokoitu, Rarotonga 10/1984	9	24.7	19.0	21.9	-0.9	28.2	12	15.3	11	219	16	..	52	30	..
Raoul Is 08/1984	38	19.2	13.7	16.5	+0.2	21.7	17	10.3	30	97	17	-41	25	14	131
Raoul Is 09/1984	38	19.4	14.4	16.9	+0.4	22.0	25	11.2	4	65	14	-58	33	17	146
Waitangi, Chatham Is 11/1984	44	15.1	9.4	12.3	+0.8	19.2	24	4.7	19	37	13	-20	14	16	199

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 DECEMBER 1984

General—December was generally a remarkably warm, but often cloudy month.

North-easterly winds were more frequent than usual, with winds from this quarter being the second highest for December in both Auckland and Invercargill since recording began in 1956. There were fewer winds from southerly directions than usual in Auckland and fewer westerlies, especially north-westerly, in Invercargill.

Gale force winds on the 19th felled many trees, caused widespread powercuts and some losses of cut hay in Canterbury and north Otago.

Pressures were lower than usual this month especially in the north and west.

Most farmers report good grass growth due to the mild generally wet conditions this month, although the wet weather has caused delays in haymaking in Northland, Westland and Southland.

Stock are looking well, but the incidence of fly-strike has increased in the North Island with the mild humid weather and has become a problem in parts of Hawkes Bay, Wairarapa and Bay of Plenty. Facial eczema has begun to show in some central areas of the North Island.

A notable feature of the weather this month was the high number of electrical storms—these were recorded in some part of the country on all but 3 days, and parts of Northland and Westland had up to 10 such storms this month. There was a particularly severe storm in the Auckland-Hamilton area on the 16th during which a linesman was killed at Te Awamutu, and two people hospitalised after being struck in Otorohanga and Puketaha.

The accompanying heavy rain caused floods in Auckland City resulting in \$500,000 damage.

Rainfall—The only areas to record average or below average rainfall this month were isolated areas around Kaitaia, southern and eastern areas of the North Island and parts of South Canterbury and Otago. Parts of Gisborne and Wairarapa were very dry, with stations recording between 40 and 60 percent of normal rainfall. The rest of the country had more rainfall than usual. The north and west of the South Island were particularly wet.

Much of Nelson, Marlborough and Westland had over 200 percent of normal rainfall while parts of south Westland had 300 percent or more. Among some of the higher totals for the month in this area (with percentage of normal in brackets) were: Franz Josef 1373 mm (325%), Fox Glacier 1079 mm (276%), Haast Pass 934 mm (287%) and Bruce Bay 762 mm (260%).

Temperature—December was warmer than usual everywhere except in the high country of the South Island and Central Otago. These areas had between average and 1.0°C below average temperatures.

Other areas of the South Island were up to 1.5°C above average. Temperatures in the North Island were uniformly very high, ranging between 1.5°C and 3.0°C above average. Central and eastern areas were warmest with many stations recording mean daily temperatures 2° to 3.0° above average and new mean daily temperature records were established at many sites.

Among these (with year record started in brackets) were: Gisborne (1937), Kaitaia (1941), Taupo (1949) and Paraparaumu (1953). Many other stations recorded this as their second warmest December, with, for example, Napier recording its hottest December since 1877 (records began in 1868) and Te Aroha its hottest since 1939 (records began in 1888).

Sunshine—Most of the North Island had average or above average sunshine this month with central and southern areas recording 20 to 40 hours more sunshine than usual. The South Island was cloudier than usual, especially in northern and southern areas, which had 40 to 60 hours less sunshine than usual.

Both Blenheim and Dunedin recorded their second lowest sunshine totals for December since recording began in 1930 and 1933 respectively.

Among those stations recording the greatest departures this month were: Ruakura (+35 hours), Wellington (+24 hours) and Auckland (+19 hours), Dunedin Airport (-58 hours), Blenheim (-43 hours) and Invercargill (-32 hours).

THE WEATHER SEQUENCE, DECEMBER 1984

1-7 December

A belt of high pressure covered New Zealand on the 1st. A weak front lay across the centre of the country, but apart from showers in Northland and some central North Island areas the weather during the 1st and 2nd was generally fine, though cool in the South Island. During the 3rd a trough began to approach the South Island and a small depression developed near Lord Howe Island.

Although fine, mild weather prevailed in most districts there were showers in parts of Northland, Fiordland and some eastern areas of the North Island. Rain fell over the South Island on the 4th, with some heavy falls in southern and western areas, and there were showers in some southern and western areas of the North Island. The rain became widespread and there were moderate to heavy falls in all areas between the 5th and 7th as the trough began to cross the country.

8-14 December

The trough still covered the country on the 8th, bringing further rain to southern and western areas of the South Island and north and west of the North Island. Meanwhile an anticyclone centred south-east of Tasmania extended a ridge to the south of the country. By the 9th the weather was generally clear, although showers continued in isolated areas and rain fell in Northland.

A combination of the south-easterly flow associated with the anticyclone, now centred near MacQuarie Island and a small depression west of Northland brought rain to all areas except central and eastern areas of the North Island and south of the South Island on the 10th. The depression moved south and deepened on the 11th and an associated cold front brought rain to all areas.

The front passed during the 12th and only isolated showers remained, but there was further heavy rain in many areas on the 13th and 14th as a complex frontal system quickly crossed the Tasman to lie over New Zealand on the 14th.

15-21 December

There were further showers over the South Island except eastern areas and in isolated areas of the North Island on the 15th as small fronts continued to cross the country. As these moved eastwards a complex trough began to move onto the country.

Rain fell in most districts, with heavy falls in the north and west of the South Island and central districts of the North Island on the 16th and the south and west of the South Island on the 17th. By the 18th the trough lay to the east and a disturbed westerly flow crossed the country.

There were showers in southern and western districts on the 18th and heavy rain in these areas on the 19th and 20th as fronts crossed the country within the flow. Rain became heavy in the north of the North Island and south and west of the South Island as a second trough began to move onto the country on the 21st.

22-31 December

Rain continued to fall in most areas on the 22nd, but by the 23rd had largely cleared, although showers continued in some southern areas and about East Cape. An anticyclone centred in the Tasman Sea began to move onto the country on the 24th.

Fine mild conditions prevailed on the 24th and 25th apart from continuing showers in Fiordland. A deep depression began to form east of Tasmania on the 26th and an associated front brought rain to the south of the country.

An anticyclone developed south-west of New Zealand and extended a ridge north-eastwards on the 27th. The weather was generally fine and mild until the end of the month although the south-easterly flow associated with the anticyclone to the south brought rain to eastern areas of both Islands at times.

J. S. HICKMAN, Director.