



SUPPLEMENT

TO THE

NEW ZEALAND GAZETTE

OF

THURSDAY, 19 FEBRUARY 1987

*Published by Authority*

---

WELLINGTON: TUESDAY, 24 FEBRUARY 1987

---

CLIMATOLOGICAL TABLE  
FOR DECEMBER 1986

NEW ZEALAND METEOROLOGICAL SERVICE

CLIMATOLOGICAL TABLE—Summary of the Records of Temperature, Rainfall, and Sunshine for December 1986

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.			Maxi- mum	Date	Mini- mum	Date				Amount		Date
Metres	°C	°C	°C	°C	°C	°C	°C	mm	mm	mm	Hrs				
Cape Reinga	191	..	..	..	..	..	..	..	..	..	..	..	..	..	
Aupouri Forest	69	21.3	13.7	17.5	-0.5	23.3	29	9.8	3	78	8	-3	33	19	
Kaitaia	8	22.7	12.0	17.4	..	24.7	16	7.0	2	121	9	..	35	20	
Kaitaia	85	21.6	12.6	17.1	..	23.7	17	8.0	4	108	11	..	33	21	
Kerikeri M A F	79	..	..	..	..	..	..	..	..	..	..	..	..	..	
Kerikeri Downs 2	74	..	..	..	..	..	..	..	..	..	..	..	..	..	
Kerikeri Aero 2	150	21.7	11.9	16.8	..	25.5	23	8.0	4	137	14	..	49	21	
Waiotemarama	229	..	..	..	..	..	..	..	..	..	..	..	..	..	
Waipoua Forest	88	21.1	12.9	17.0	+0.5	24.0	14	8.5	25	125	11	+21	45	21	
Dargaville Maf	20	22.0	..	..	..	26.4	18	..	..	43	7	-42	21	21	
Glenberrie Forest	107	..	..	..	..	..	..	..	..	..	..	..	..	..	
Whangarei Aero	37	22.2	12.8	17.5	-0.6	25.5	29	8.3	3	73	9	-25	24	21	
Whangarei Hospital	29	22.3	11.8	17.1	-0.7	25.7	29	7.0	3	73	10	..	19	21	
Marsden Power Stn	3	..	..	..	..	..	..	..	..	..	..	..	..	..	
Pouo	97	..	..	..	..	..	..	..	..	..	..	..	..	..	
Leigh 2	27	..	..	..	..	..	..	..	..	..	..	..	..	..	
Warkworth	72	21.6	10.6	16.1	-0.7	24.2	16	5.6	3	52	11	-61	34	21	
Woodhill Forest	30	21.4	11.2	16.3	-0.7	24.5	17	5.7	3	50	9	-41	29	21	
Riverhead Forest	28	..	..	..	..	..	..	..	..	..	..	..	..	..	
Kumeu	32	..	..	..	..	..	..	..	..	..	..	..	..	..	
Whenuapai	26	22.1	11.2	16.7	-0.4	24.6	16	5.5	3	29	11	-71	16	21	
River Park Henderson	4	23.7	11.2	17.5	..	27.3	15	5.6	3	46	12	..	25	21	
Auckland Albert Park	49	22.0	14.6	18.3	+0.0	24.4	16	10.3	3	34	8	-54	21	21	
Auckland Owairaka	41	21.6	12.9	17.3	-0.2	24.2	29	7.3	3	42	8	-56	25	21	
Port Fitzroy	4	22.0	11.6	16.8	-1.0	23.9	18	7.5	26	51	12	-62	26	21	
Little Barrier Is	2	..	..	..	..	..	..	..	..	..	..	..	..	..	
Rotorua Is	30	21.0	15.1	18.1	..	22.5	17	11.0	2	34	7	..	17	21	
Awaroa Valley	30	21.9	12.7	17.3	..	24.0	18	6.4	3	80	9	..	40	31	
Manukau Heads 2	244	21.0	13.5	17.3	..	24.7	19	9.3	1	57	9	-21	33	21	
Coromandel	43	22.7	11.8	17.3	..	25.9	18	5.1	2	89	10	..	61	21	
Whangapoua Forest	4	22.8	10.2	16.5	-0.8	26.0	29	4.8	1	89	7	-31	46	21	
Thames 2	3	..	..	..	..	..	..	..	..	..	..	..	..	..	
Tairua Forest	3	21.6	15.4	18.5	+1.1	24.7	23	6.0	31	84	7	-49	57	21	
Ngatea 3	1	..	..	..	..	..	..	..	..	..	..	..	..	..	
Paeroa	4	24.0	12.5	18.3	+0.7	27.4	16	7.3	31	36	12	-77	12	25	
Waihi	91	..	..	..	..	..	..	..	..	..	..	..	..	..	
Te Aroha	18	23.7	12.9	18.3	+0.2	27.3	16	4.9	2	30	12	-90	13	21	
Katikati	2	23.2	12.0	17.6	..	26.4	17	5.2	2	49	8	..	28	21	
Waitoa	18	..	..	..	..	..	..	..	..	..	..	..	..	..	
Tauranga	2	21.5	13.8	17.7	+0.0	25.5	31	7.8	2	31	7	-90	22	21	
Tauranga Aero	4	21.5	12.2	16.9	-0.5	24.2	30	6.2	2	30	8	-86	21	21	
Te Puke	91	..	..	..	..	..	..	..	..	..	..	..	..	..	
Rotoehu Forest	72	21.7	8.7	15.2	-1.3	24.6	27	1.5	2	56	8	-90	42	21	
Whakatane Aero	6	21.6	11.6	16.6	-0.3	25.9	30	4.4	2	39	8	-53	28	21	
Te Kaha	6	21.4	13.2	17.3	..	24.0	18	7.0	2	76	5	..	69	21	
Port Ohope	9	..	..	..	..	..	..	..	..	..	..	..	..	..	
Kinleith 2	383	20.5	10.5	15.5	-0.1	24.2	16	3.5	2	30	8	-115	15	21	
Tikitiki	338	19.8	10.8	15.3	-0.4	23.9	15	6.0	2	103	10	..	72	21	
Kawerau	30	23.2	11.9	17.6	-0.3	27.0	19	5.0	2	79	6	-72	60	21	
Te Teko	8	..	..	..	..	..	..	..	..	..	..	..	..	..	
Rotorua Aero 2	287	20.6	10.7	15.7	-0.3	24.5	16	4.2	2	66	8	-72	55	21	
Waiotapu Forest	435	19.9	9.1	14.5	-0.5	24.4	16	1.6	2	29	6	-97	21	21	
Atiamuri Power Stn	253	22.9	9.3	16.1	-0.1	27.7	18	2.4	2	18	6	-110	10	21	
Kaingaroa Forest	544	19.5	8.6	14.1	-0.6	25.3	16	1.9	2	47	6	-96	36	21	
Murupara	198	..	..	..	..	..	..	..	..	..	..	..	..	..	
Ohaaki	350	..	..	..	..	..	..	..	..	..	..	..	..	..	
Wairapukao Forest	437	20.6	7.8	14.2	-0.7	25.2	16	-1.5	2	38	8	-98	24	21	
Taupo Nzed	376	21.2	9.7	15.5	-0.2	25.6	16	0.9	2	38	9	-86	15	21	
Wairakei Power Stn	342	21.8	9.3	15.6	-0.3	26.0	16	0.9	2	23	6	-105	14	21	
Wairakei Research Stn	402	..	..	..	..	..	..	..	..	..	..	..	..	..	
Minginui Forest	366	20.9	8.4	14.7	-0.6	27.2	16	-0.1	2	36	8	-109	17	21	
Taupo Aero	400	20.3	9.7	15.0	-0.6	26.4	18	-0.4	2	45	7	-70	32	12	
Waimihia Forest	762	17.5	7.7	12.6	-0.4	22.9	16	-0.1	2	112	15	-45	30	21	
Opotiki	6	20.8	12.4	16.6	-0.4	23.4	16	5.2	2	46	4	-75	40	21	
Waimana	37	22.1	11.0	16.6	-0.5	25.6	30	3.0	2	93	7	-55	82	21	
Matawai Maf Edl	580	..	..	..	..	..	..	..	..	..	..	..	..	..	
Auckland Mangere	4	..	..	..	..	..	..	..	..	..	..	..	..	..	
Auckland Airport	8	21.7	13.5	17.6	-0.2	25.2	29	8.3	2	47	11	-41	20	21	
Ardmore	30	..	..	..	..	..	..	..	..	..	..	..	..	..	
Pukekohe Maf	82	21.9	12.0	17.0	+0.4	24.8	18	6.3	2	57	11	..	20	5	
Maioro Forest	52	21.8	12.3	17.1	+0.0	25.6	19	7.0	3	34	8	-81	9	20	
Hunua	122	21.5	10.2	15.9	..	24.3	16	3.6	2	51	9	..	31	21	
Maramarua Forest	38	22.7	10.6	16.7	+0.2	25.5	16	6.4	31	42	10	-59	21	21	
Te Kauwhata Maf	32	..	..	..	..	..	..	..	..	..	..	..	..	..	
Ruakura	40	22.5	11.1	16.8	+0.3	26.0	19	5.0	2	18	9	-83	9	21	

CLIMATOLOGICAL TABLE—Summary of the Records of Temperature, Rainfall, and Sunshine for December 1986—continued

Station	Height of Station Above M.S.L.	Air Temperature in Degrees Celsius								Rainfall in Millimetres				Bright Sun—shine	
		Means of		Mean of A and B	Difference From Normal	Absolute Maximum and Minimum				Total Fall	No. of Rain Days	Difference From Normal	Maximum Fall		
		A Max.	B Min.			Maximum	Date	Minimum	Date				Amount		Date
	Metres	°C	°C	°C	°C	°C	°C	°C	°C	mm	mm	mm	mm	Hrs	
Whatawhata	104	22.1	11.3	16.7	+0.2	26.4	17	5.1	2	50	8	-80	35	21	228
Hamilton Aero	50	23.2	10.4	16.8	+0.5	26.9	19	3.5	2	31	7	-73	12	21	..
Cambridge	76	23.1	10.9	17.0	+0.5	26.5	15	2.7	2	22	6	-74	9	21	..
Mokau Mohakatino Stn	46	20.8	13.0	16.9	+0.5	22.6	8	5.7	2	35	5	-105	18	22	..
Arapuni Power Stn	123	23.1	11.2	17.2	+0.1	29.0	14	4.3	2	26	10	-95	14	21	..
Waikeria	46	23.4	10.7	17.1	+0.5	26.9	16	3.0	2	18	3	..	11	21	..
Te Kuiti Wepb	61	22.6	..	..	..	25.5	17	..	..	63	11	-74	39	21	190
Wairere	122	21.7	10.7	16.2	..	24.9	16	4.0	2	38	6	-93	19	21	..
Pureora Forest	549	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Mangakahu Valley	397	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Taumarunui	171	23.2	10.2	16.7	-0.3	27.5	31	2.5	3	40	10	-105	14	21	197
Tokirima	152	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Omata	61	20.7	13.2	17.0	+0.8	23.0	17	9.0	2	74	7	-36	53	21	..
New Plymouth	55	21.0	13.4	17.2	+1.2	23.3	9	8.3	2	78	6	-38	50	21	..
New Plymouth Aero	27	20.3	12.6	16.5	+0.6	22.0	17	7.4	2	81	8	-36	44	21	253
North Egmont	955	14.6	7.4	11.0	..	18.3	13	3.2	2	343	14	..	189	21	..
Te Wera Forest	180	20.5	8.9	14.7	-0.3	24.0	13	0.0	9	84	7	-68	37	21	..
Lower Retaruke	223	21.9	9.4	15.7	-0.4	26.9	17	2.8	2	46	9	-90	18	21	..
Turangi	366	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Mt Ruapehu Chateau 2	1097	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Mt Bruce Res	305	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Waingawa	114	21.6	10.4	16.0	+0.2	27.8	18	3.0	31	21	12	-62	7	2	247
Kopua	311	19.1	10.4	14.8	-0.1	24.9	18	5.7	2	47	12	-77	24	17	..
Waipukurau Aero	137	21.3	..	..	..	28.0	29	..	..	28	10	-64	15	16	138*
Dannevirke	207	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Porangahau	8	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Castlepoint Light	3	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Ngaumu Forest	244	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Tauherenikau	43	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Waiorongomai	21	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Martinborough	30	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Ruatoria	61	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Mangatu Forest	182	21.4	10.7	16.1	-0.7	27.4	16	4.0	1	79	13	-44	31	6	..
Gisborne, Manutuke	90	22.4	12.5	17.5	+0.3	28.2	22	6.3	3	25	10	-55	8	6	..
Gisborne Aero	4	22.6	12.6	17.6	+0.2	28.5	22	7.1	3	36	12	-48	10	7	202
Waikaremoana Onepoto	643	18.2	9.6	13.9	-0.7	28.1	18	4.2	2	112	18	-89	30	7	..
Wharerata Forest	439	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Tokomaru Bay Maf Edl	244	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Esk Forest	427	18.9	10.6	14.8	-0.3	25.5	18	3.7	2	53	14	-116	14	7	..
Ngamatea Nzfs	885	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Kaweka Forest	414	19.7	10.6	15.2	-0.5	25.6	18	4.0	31	61	14	-83	17	16	..
Napier Aero	2	22.1	12.6	17.4	+0.4	29.9	22	6.5	4	26	9	-58	7	16	..
Napier Clive Square	2	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Havelock Nth Dsir 2	9	22.7	11.5	17.1	..	29.3	22	4.6	2	12	9	..	5	16	209
Hastings Civic Sq.	16	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Whakatu	6	21.5	12.2	16.9	..	29.5	22	5.5	2	15	7	..	8	16	..
Gwavas Forest	335	19.6	9.0	14.3	-0.2	25.7	29	4.5	11	29	12	-109	14	16	..
Makaretu	335	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Mohaka Forest	286	20.0	10.9	15.5	-0.5	26.6	19	4.3	2	49	11	-95	16	7	..
Wairoa Frasertown	8	21.7	12.7	17.2	-0.4	28.4	19	8.4	2	51	15	-82	14	7	..
Wairoa Hospital	20	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Kapiti Is	16	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Paraparaumu Aero	7	20.2	12.3	16.3	+0.4	22.7	17	5.0	2	17	6	-60	7	21	265
Bulls Flockhouse	9	20.9	11.2	16.1	+0.3	25.7	20	4.0	2	24	11	-64	11	21	..
Ohakea	48	20.8	12.0	16.4	+0.1	24.7	20	5.6	2	24	9	-65	9	21	215
Kairanga Grasslands	15	20.7	10.8	15.8	+0.0	24.3	17	2.4	2	19	9	-61	7	21	235
Palmerston N Aero	45	21.2	11.7	16.5	+0.6	25.6	17	3.0	2	26	5	-66	15	16	..
Palmerston N D S I R	34	20.9	11.8	16.4	+0.0	25.5	29	3.8	2	23	9	-79	9	16	187
Foxton	9	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Waitarere Forest	3	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Levin Maf	46	20.4	11.3	15.9	+0.1	24.1	17	4.6	2	27	9	-73	16	21	212
Titahi Bay Te Pene Av	31	20.7	12.6	16.7	..	24.0	21	5.9	5	26	5	..	10	21	..
Lower Hutt Avalon	15	20.2	12.1	16.2	+0.3	24.7	21	6.2	2	35	10	-71	14	21	..
Wellington Highland P	120	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Wellington Kelburn	125	18.8	12.5	15.7	+0.4	23.4	18	7.3	5	24	7	-71	18	21	263
Somes Is	43	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Lower Hutt Gracefield	34	19.2	12.7	16.0	+0.2	23.2	17	6.5	5	33	8	-65	16	21	..
Wainuiomata Coast Rd	82	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Wellington Aero	6	19.7	13.7	16.7	+0.5	24.5	21	8.6	5	20	10	-59	15	21	..
Rimutaka Forest	37	19.8	11.6	15.7	..	24.0	17	3.5	5	93	12	..	68	1	..
Kaitoke	223	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Wallaceville	56	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Stratford Dem Farm	311	19.0	9.8	14.4	+0.2	22.8	17	6.6	3	62	13	-100	35	21	211
Kapuni	173	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Manaia Dem Farm	98	19.2	10.5	14.9	-0.3	24.2	20	5.7	8	27	9	-69	11	21	241

CLIMATOLOGICAL TABLE—Summary of the Records of Temperature, Rainfall, and Sunshine for December 1986—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.			Maximum	Date	Minimum	Date				Amount		Date
	Metres	°C	°C	°C	°C	°C	°C	°C	°C	mm	mm	mm	mm	Hrs	
Normanby Edr	122	..	..	..	..	..	..	..	..	..	..	..	..	..	
Normanby Maf	122	20.0	10.3	15.2	+0.3	23.6	18	5.6	3	30	14	..	11	21	
Patea Hospital	43	..	..	..	..	..	..	..	..	..	..	..	..	..	
Pipiriki 2	80	..	..	..	..	..	..	..	..	..	..	..	..	..	
Ohakune Junction 2	629	..	..	..	..	..	..	..	..	55	8	-79	17	17	
Karioi 2	648	..	..	..	..	..	..	..	..	..	..	..	..	..	
Waiouru Mwd	823	17.4	6.9	12.2	+0.0	22.0	19	0.0	9	51	8	-59	19	17	
Waiouru Military Camp	823	16.8	6.7	11.8	-0.2	20.9	19	-0.4	2	65	9	-52	28	16	
Ahu Ahu Valley	85	..	..	..	..	..	..	..	..	..	..	..	..	..	
Taihape Rec	433	20.7	8.8	14.8	+0.2	25.0	13	1.3	2	26	10	-88	10	16	
Taihape Kahui	518	..	..	..	..	..	..	..	..	..	..	..	..	..	
Wanganui Cooks Gdns	22	..	..	..	..	..	..	..	..	..	..	..	..	..	
Wanganui Aero	9	20.3	11.9	16.1	..	25.5	14	5.7	5	23	8	-51	9	21	
Takaka Kotinga 2	25	21.0	9.9	15.5	..	27.5	22	5.6	6	183	14	..	127	21	
Totaranui	10	20.0	11.4	15.7	..	26.0	22	7.2	31	298	11	+182	173	21	
Westport Aero	2	..	..	..	..	..	..	..	..	..	..	..	..	..	
Westport Te Kuha Edl	680	..	..	..	..	..	..	..	..	..	..	..	..	..	
Cobb Dam	823	16.4	6.9	11.7	+0.1	21.0	7	1.5	1	136	12	-28	84	21	
Arapito	20	..	..	..	..	..	..	..	..	..	..	..	..	..	
Lake Rotoroa	443	19.7	7.7	13.7	..	26.3	9	0.0	2	117	13	..	42	29	
Lake Rototiti Ranger	634	19.2	6.8	13.0	-0.2	24.6	11	0.7	3	151	12	+11	41	30	
Hokitika Aero	39	19.2	11.3	15.3	+1.0	21.5	18	4.4	1	204	16	-18	39	24	
Punakaiki Rocks	4	19.9	13.2	16.6	..	22.6	15	8.9	2	233	16	..	56	29	
Reefton Nzfs	198	22.0	10.3	16.2	+1.0	27.2	10	2.6	2	190	14	+29	59	29	
Barrytown	30	19.4	12.6	16.0	..	22.2	18	8.5	30	246	15	+39	40	21	
Totara Flat	77	22.0	10.7	16.4	+1.3	26.2	10	6.0	4	191	16	+29	41	21	
Greymouth Aero	4	..	..	..	..	..	..	..	..	..	..	..	..	..	
Otira Substation	383	19.7	9.3	14.5	+1.0	28.2	10	4.6	3	443	16	+60	75	24	
Springs Junction	421	..	..	..	..	..	..	..	..	..	..	..	..	..	
Pukekura	86	19.6	9.9	14.8	..	24.7	6	2.3	1	275	15	..	70	18	
Harihari Nzfs	45	20.0	10.6	15.3	+0.9	23.0	12	3.5	1	290	16	-14	46	24	
Okarito	10	..	..	..	..	..	..	..	..	247	15	..	49	27	
Franz Josef	155	..	..	..	..	..	..	..	..	..	..	..	..	..	
Fox Glacier Main Rd	152	18.7	10.0	14.4	+0.8	21.9	10	5.1	1	371	19	-20	72	29	
Milford Sound	3	18.7	9.1	13.9	+0.1	22.5	13	2.7	1	710	16	+181	157	20	
Deep Cove 2	3	..	..	..	..	..	..	..	..	..	..	..	..	..	
Puysgur Point	43	15.8	9.9	12.9	..	20.8	10	0.6	1	186	19	+12	39	20	
Stephens Is	187	16.9	9.6	13.3	-1.0	20.4	18	-1.5	14	26	8	-31	12	21	
Motueka Dsir	8	21.7	10.6	16.2	+0.1	26.6	20	5.3	1	115	7	+24	92	21	
Tapawera	146	..	..	..	..	..	..	..	..	..	..	..	..	..	
Pelorous Sd Crai Bay	13	19.8	12.6	16.2	..	23.4	17	8.2	6	61	11	..	35	21	
Appleby	17	20.3	11.3	15.8	-0.3	26.0	22	6.4	1	87	7	+17	55	21	
Nelson Aero	2	20.2	11.1	15.7	-0.3	26.1	22	6.4	31	79	12	+5	67	21	
Rai Valley	79	..	..	..	..	..	..	..	..	..	..	..	..	271	
Blenheim Research	4	21.2	11.6	16.4	..	28.8	22	3.9	2	50	3	..	48	21	
Wairau Valley	162	..	..	..	..	..	..	..	..	..	..	..	..	253	
Blenheim Aero	64	..	..	..	..	..	..	..	..	..	..	..	..	..	
Brancott Valley	64	21.9	10.9	16.4	..	29.4	22	3.5	2	40	2	..	38	21	
Blenheim Wither Hills	32	..	..	..	..	..	..	..	..	..	..	..	..	..	
Dunroon	350	..	..	..	..	..	..	..	..	..	..	..	..	..	
Grassmere Salt Works	2	..	..	..	..	..	..	..	..	..	..	..	..	..	
Boyle River Lodge	600	..	..	..	..	..	..	..	..	..	..	..	..	..	
Hanmer Forest	387	..	..	..	..	..	..	..	..	..	..	..	..	..	
Molesworth	893	19.9	4.9	12.4	+0.0	24.6	22	-1.6	31	19	3	-43	12	21	
Kaikoura Met	108	18.9	12.2	15.6	+0.7	27.8	23	6.1	2	11	7	-57	4	30	
Arthurs Pass	738	..	..	..	..	..	..	..	..	..	..	..	..	192	
Culverden Mwd	174	21.6	10.1	15.9	..	27.5	21	4.6	5	23	6	..	7	21	
Balmoral Forest	198	..	..	..	..	..	..	..	..	..	..	..	..	..	
Waiau Lyndon St 2	137	21.7	9.9	15.8	..	28.3	17	5.4	5	15	6	..	5	16	
Cheviot	85	..	..	..	..	..	..	..	..	..	..	..	..	..	
Mt Cook The Hermitage	765	19.2	7.5	13.4	+0.6	27.0	11	3.0	3	288	18	-91	64	29	
Mt John	1027	18.4	6.7	12.6	+0.7	24.4	22	0.6	30	15	6	-34	8	23	
Craigieburn Forest	914	18.6	6.6	12.6	+0.7	23.9	11	2.1	1	82	16	-67	30	21	
Lake Coleridge	364	20.7	10.1	15.4	+1.1	25.2	13	4.7	1	26	7	-37	14	21	
Highbank Power Stn	336	..	..	..	..	..	..	..	..	..	..	..	..	..	
Hororata Substation	192	21.9	9.3	15.6	+0.6	29.9	29	4.4	9	30	9	-45	13	21	
Winchmore Maf	160	20.8	10.6	15.7	+1.1	28.1	29	6.3	1	13	6	-55	7	21	
Peel Forest	274	20.4	9.3	14.9	+1.3	28.5	29	4.1	3	42	19	-63	9	15	
Ashburton Council	101	..	..	..	..	..	..	..	..	..	..	..	..	..	
Waipara	64	..	..	..	..	..	..	..	..	..	..	..	..	..	
Ashley Forest 1	107	..	..	..	..	..	..	..	..	..	..	..	..	..	
Rangiora Nzfs	46	21.2	10.3	15.8	+0.6	28.8	20	5.4	5	24	6	-42	12	21	
Darfield	195	22.6	9.9	16.3	+0.8	29.3	29	5.7	9	32	8	-40	15	30	
Eyrewell Forest	158	21.5	9.3	15.4	+0.2	29.0	29	3.7	5	26	7	-42	12	21	
Christchurch Aero	30	21.3	10.7	16.0	+0.4	30.3	20	5.4	9	27	7	-23	11	21	

CLIMATOLOGICAL TABLE—Summary of the Records of Temperature, Rainfall, and Sunshine for December 1986—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.			Maximum	Date	Minimum	Date				Amount	Date	
Metres	°C	°C	°C	°C	°C	°C	°C	°C	mm	mm	mm	mm	mm		
Christchurch Gardens	7	21.6	10.9	16.3	+0.5	29.7	20	5.5	1	42	7	-8	12	26	..
Christchurch Bromley	9	21.1	12.1	16.6	+0.8	29.9	20	7.3	1	35	7	-13	12	26	..
Mt Pleasant	137	19.6	12.1	15.9	+0.6	28.2	20	6.5	1	30	8	-18	9	21	..
Lincoln	11	20.9	10.7	15.8	+0.5	29.1	20	5.8	5	27	5	-27	13	30	217
Quail Is Lands & S.	75	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Akaroa Rue Lavaud	3	..	..	..	..	..	..	..	..	..	..	..	..	..	..
L Tekapo Nzed	683	20.0	8.3	14.2	+0.3	25.8	22	2.0	3	16	5	-32	8	23	..
Fairlie Riverview Tce	304	21.1	8.9	15.0	..	28.6	20	2.3	24	5	6	..	1	29	..
Twizel Substation	451	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Ikawai	70	19.7	9.4	14.6	+0.7	29.5	20	2.0	1	25	4	-33	17	29	..
Geraldine Nzfs	119	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Orari Estate	81	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Temuka	24	20.0	10.5	15.3	+0.8	30.0	29	5.8	24	19	5	-42	14	29	..
Timaru Aero	26	20.2	10.4	15.3	+1.1	30.6	29	4.8	1	19	6	-34	10	29	..
Timaru 2	17	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Waimate	61	19.7	11.3	15.5	+0.5	29.9	20	5.7	1	13	8	-51	8	15	..
Benmore Power Stn	253	22.8	11.8	17.3	..	28.5	17	6.0	1	8	7	-30	4	29	..
Aviemore 2	241	21.0	10.4	15.7	..	26.8	14	1.6	1	5	3	-43	3	29	..
Kurow	207	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Knobs Flat	375	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Lake Hawea	350	22.0	10.8	16.4	+1.0	29.0	11	4.2	1	29	7	-28	11	23	..
Wanaka	296	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Queensbury Mwd	277	23.6	11.1	17.4	..	28.7	22	2.0	1	11	6	..	5	22	..
Bendigo 2	200	24.7	11.0	17.9	..	29.4	11	2.5	1	8	6	..	4	23	..
Nasebury Forest 2	607	19.7	7.7	13.7	..	25.2	20	0.6	1	15	4	..	12	29	..
Oamaru Spey St	5	18.0	10.6	14.3	..	30.0	20	5.2	1	23	5	..	11	23	..
Maniototo School	427	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Herbert Forest	61	19.2	8.9	14.1	+0.7	30.4	20	1.9	6	48	10	-12	19	29	..
Palmerston	21	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Cherry Farm Hospital	6	18.9	9.4	14.2	+0.9	26.5	14	2.0	1	36	10	-23	9	24	..
Tataroa Head	72	16.3	10.4	13.4	+0.5	24.0	14	6.1	26	70	11	+7	25	24	..
Invermay Edr	30	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Berwick Forest	18	19.6	8.9	14.3	+0.7	27.1	14	1.9	1	113	15	+40	33	29	..
Dunedin Aero	1	19.0	9.0	14.0	+0.4	28.1	14	0.9	1	69	13	+2	20	29	143
Dunedin Musselburgh	2	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Te Anau Po	215	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Manapouri West Arm 2	232	18.1	9.3	13.7	+0.7	25.6	4	3.0	1	353	15	+76	63	20	..
Borland Burn	183	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Queenstown	329	21.6	10.4	16.0	+1.2	27.7	14	2.9	1	43	9	-20	12	22	250
Queenstown Aero	349	20.7	9.4	15.1	+1.2	25.6	14	0.8	1	48	8	-4	14	11	..
Gibbston Nevis Bluff	366	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Burwood Bush	490	17.1	7.1	12.1	..	23.0	18	-0.5	16	57	14	..	18	29	..
Cromwell Sub Stn	213	23.8	11.4	17.6	..	28.4	14	2.0	1	17	6	-23	9	29	..
Cromwell Climat	213	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Northburn	210	23.9	11.3	17.6	..	27.7	11	3.0	1	27	6	..	20	29	..
Cromwell 2	213	23.7	10.8	17.3	..	27.5	11	2.4	1	23	7	..	9	29	269
Clyde Dam	160	23.5	10.9	17.2	..	28.4	12	2.9	1	19	6	..	11	29	..
Ophir 2	305	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Clyde Dsir	171	23.4	10.0	16.7	..	29.2	14	0.7	1	18	5	..	11	29	..
Alexandra B Council	141	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Roxburgh Power Stn	110	22.5	10.6	16.6	+1.2	29.0	21	2.5	1	17	8	-39	7	29	..
Etrick No 1	83	22.4	9.9	16.2	..	29.5	13	4.0	26	34	10	..	12	29	..
Etrick No 2	91	22.2	9.6	15.9	..	29.0	13	1.7	1	37	10	..	12	29	..
Beaumont Nzfs	46	20.7	9.0	14.9	..	30.2	18	1.1	1	61	12	-22	17	29	..
Mahinerangi Dam	396	16.8	7.5	12.2	+0.4	24.4	14	-0.6	1	65	12	-23	18	29	..
Tapanui	226	18.6	8.8	13.7	+0.0	25.1	14	3.0	1	54	10	-26	18	29	..
Taieri Mouth	15	16.9	9.1	13.0	+0.2	25.8	18	3.2	1	64	12	-6	18	29	..
Tuatapere	27	18.9	9.1	14.0	..	25.4	18	3.5	25	107	14	..	19	20	..
Otautau Nzfs	55	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Winton B Council	44	19.2	9.1	14.2	+0.7	26.3	18	3.9	25	88	10	+18	22	20	166
Gore Edr	123	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Gore Grasslands Dsir	123	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Hokonui Forest	46	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Invercargill Aero	0	18.2	9.3	13.8	+0.9	26.1	14	4.5	31	88	14	+4	14	20	175
Tiwai Point	5	17.7	10.7	14.2	+0.8	25.5	18	5.4	4	98	13	+16	21	24	..
Stewart Is	3	17.3	9.2	13.3	+1.1	25.5	14	4.0	31	93	16	-11	17	24	..
Clinton School	120	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Balclutha Finegand	6	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Owaka	5	17.8	8.8	13.3	+0.1	26.3	17	3.0	6	65	14	-3	13	25	..
Nugget Point	129	16.4	9.7	13.1	+0.8	22.5	18	4.8	31	57	16	-19	12	25	..
Tautuku	40	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Nadi Airport Fiji	15	31.1	23.8	27.5	+0.7	33.2	10	21.6	1	117	22	-51	25	2	115
Rarotonga Airport	7	27.7	22.3	25.0	+0.1	30.3	10	17.9	14	65	17	166	19	18	207
Totokoitu, Rarotonga	9	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Raoul Is	38	22.3	17.9	20.1	-0.4	24.5	28	14.0	10	37	10	-77	19	4	183

CLIMATOLOGICAL TABLE—Summary of the Records of Temperature, Rainfall, and Sunshine for December 1986—continued

Station	Height of Station Above M.S.L.	Air Temperature in Degrees Celsius								Rainfall in Millimetres				Bright Sunshine	
		Means of		Mean of A and B	Difference From Normal	Absolute Maximum and Minimum				Total Fall	No. of Rain Days	Difference From Normal	Maximum Fall		
		A Max.	B Min.			Maximum	Date	Minimum	Date				Amount		Date
	Metres	°C	°C	°C	°C	°C	°C	°C	°C	mm	mm	mm	mm	Hrs	
Campbell Is	15	12.5	6.8	9.7	+0.9	15.0	28	-0.8	18	68	22	-34	11	22	100
Waitangi, Chatham Is	44	16.3	10.7	13.5	-0.1	20.1	24	7.0	13	12	7	-47	7	22	137
Kaingaroa, Chatham Is	41	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Scott Base Antarctica	16	-1.7	-9.1	-5.4	+0.1	3.3	9	-14.5	1	..	..	..	..	..	..
LATE RETURNS AND CORRECTIONS															
Dargaville Maf 11/1986	20	19.4	10.5	15.0	-0.4	23.0	22	3.7	21	57	12	-29	17	11	179
Kumeu 10/1986	32	18.5	10.3	14.4	+1.1	22.3	9	2.8	8	120	17	..	49	24	..
Kumeu 11/1986	32	20.2	10.5	15.4	+0.4	23.7	11	4.0	21	60	15	..	17	30	..
Little Barrier Is 11/1986	2	..	..	..	..	..	..	..	..	28	..	-64	..	..	..
Rotoroa Is 11/1986	30	19.2	13.1	16.2	..	21.5	24	6.7	25	24	9	..	11	30	..
Te Kauwhata Maf 11/1986	32	20.4	9.9	15.2	-0.2	23.8	23	6.0	21	47	13	-38	16	25	203
Te Kuiti Wepb 11/1986	61	20.1	9.3	14.7	+0.0	26.0	6	5.0	21	83	15	-39	27	24	163
Lower Retaruke 11/1986	223	20.1	8.1	14.1	+0.2	28.1	6	2.0	20	113	17	-28	28	30	..
Tauherenikau 11/1986	43	20.0	8.1	14.1	+0.0	26.8	6	0.9	16	71	13	-19	26	25	213
Kaitoke 11/1986	223	17.2	7.8	12.5	+0.2	23.6	22	1.8	16	145	16	-38	28	26	185
Wallaceville 11/1986	56	18.3	8.6	13.5	+0.1	24.0	22	1.8	20	72	15	-35	17	25	199
Kapuni 11/1986	173	17.5	8.3	12.9	..	20.5	22	1.1	20	74	14	..	27	17	..
Greymouth Aero 11/1986	4	16.6	9.7	13.2	+0.2	21.1	26	5.1	15	122	16	-113	33	23	148
Franz Josef 11/1986	155	16.8	8.2	12.5	..	21.3	21	4.4	29	269	13	..	99	23	92
Motueka Dsir 11/1986	8	19.5	8.6	14.1	-0.1	25.9	8	4.0	30	116	10	+19	65	30	251
Blenheim Research 11/1986	4	19.6	9.1	14.4	..	28.0	7	3.8	30	34	9	..	9	30	245
Hanmer Forest 11/1986	387	19.5	5.6	12.6	+0.3	27.8	7	0.0	20	76	10	-12	23	25	157
Craigieburn Forest 11/1986	914	17.2	4.6	10.9	+1.3	25.3	6	-0.2	30	92	11	-67	29	12	..
Lincoln 11/1986	11	17.7	8.3	13.0	-0.3	27.0	23	2.8	29	95	11	+41	43	25	202
Kurow 10/1986	207	16.1	7.6	11.9	..	22.6	25	3.0	7	46	15	..	13	4	..
Invermay Edr 06/1986	30	10.8	1.0	5.9	..	17.5	6	-5.4	27	96	18	..	26	30	..
Invermay Edr 07/1986	30	9.7	0.9	5.3	..	15.4	31	-4.4	4	73	15	..	18	11	..
Invermay Edr 08/1986	30	9.8	1.7	5.8	..	17.9	19	-3.6	27	93	21	..	39	10	..
Invermay Edr 09/1986	30	13.4	3.3	8.4	..	..	..	..	..	..	..	..	..	..	..
Balclutha Finegand 11/1986	6	17.9	8.3	13.1	+1.1	24.6	5	4.5	16	59	..	-5	..	..	154
Scott Base Antarctica 10/1986	16	-15.3	-26.6	-21.0	+1.7	-7.5	25	-40.8	1	..	..	..	..	..	..
Scott Base Antarctica 11/1986	16	-8.3	-15.8	-12.1	-0.2	-3.4	11	-23.3	5	..	..	..	..	..	..

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 1986

*General*—This December was much drier, warmer, and sunnier than usual over the whole country apart from the far north of the North Island and isolated areas in the South Island.

There was an unusually high frequency of days with light winds over the whole country. In the north, winds from the northeast were predominant but in the far south, winds were most frequently from the southwest.

Mean sea level pressures were 3 to 5 hPa above normal over the whole country.

*Rainfall*—Lowest December rainfalls on record were observed at several stations including—

Station	Amount (mm)	Previous		Records Began
		Low (mm)	Year	
Hamilton	31	39	1973	1936
Kinleith	31	72	1973	1968
Ohakea	16	16	1961	1941
Paraparaumu	18	28	1970	1945
Kaikoura	12	15	1971	1949

Tauranga and Kelburn recorded their lowest December rainfalls since 1930 and 1934 respectively.

*Temperatures*—Mean daily temperatures were around 0.5°C above average for the lower half of the North Island and most of the South Island. Parts of the West Coast, inland and South Canterbury and Central Otago were 1°C above average. Maximum temperatures of just over 30°C were recorded at Christchurch on the 20th and Timaru on the 29th.

*Sunshine*—Total sunshine hours were generally above normal except for Gisborne/East Coast and the south-east of the South Island. More than 20 percent above normal was recorded in the Wellington region and at Hokitika.

J. S. HICKMAN, Director.

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











