



SUPPLEMENT

TO THE

NEW ZEALAND GAZETTE

OF

THURSDAY, 27 FEBRUARY 1986

Published by Authority

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CLIMATOLOGICAL TABLE FOR DECEMBER 1985

NEW ZEALAND METEOROLOGICAL SERVICE

CLIMATOLOGICAL TABLE—Summary of the Records of Temperature, Rainfall, and Sunshine for December 1985

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.			Max-imum	Date	Mini-imum	Date				Amount		Date
Metres	°C	°C	°C	°C	°C	°C	°C	°C	mm	mm	mm	Hrs			
Cape Reinga	191	21.5	14.7	18.1	+1.0	25.0	21	12.0	5	42	14	-19	12	29	..
Aupouri Forest	69	22.1	14.8	18.5	+0.5	24.8	27	11.7	5	94	10	+13	50	29	..
Kaitaia	8	23.4	13.4	18.4	..	25.3	27	8.6	5	116	12	..	45	29	..
Kaitaia	85	22.6	13.9	18.3	..	24.8	27	9.7	8	116	16	..	45	29	238
Kerikeri M A F	79	22.6	13.1	17.9	..	26.8	24	8.5	5	131	15	..	45	2	..
Kerikeri Downs	74	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Kerikeri Downs 2	74	22.1	12.7	17.4	..	26.5	24	8.9	8	121	15	..	44	2	..
Kerikeri Aerodrome	150	22.2	12.9	17.6	..	26.6	24	9.3	5	148	11	..	53	25	..
Umawera	9	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Panguru	9	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Kaikohe	204	21.1	13.1	17.1	+0.1	24.7	22	9.2	5	103	16	-27	23	9	204
Waiotemarama	229	20.8	13.0	16.9	+0.9	23.3	25	8.7	5	106	16	..	35	2	..
Waipoua Forest	88	22.4	11.5	17.0	+0.5	25.5	25	5.9	5	117	14	+13	31	2	..
Dargaville	20	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Waitangi Forest	55	22.3	14.0	18.2	+0.2	27.0	24	10.0	5	147	12	+63	71	2	215
Glenbervie Forest	107	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Whangarei Airport	37	22.7	14.0	18.4	+0.3	26.7	26	9.6	8	130	13	+32	58	2	..
Whangarei	29	23.3	13.0	18.2	+0.4	27.8	22	7.5	8	162	13	..	76	2	219*
Marsden Power Stn	3	23.4	14.6	19.0	+0.6	28.1	28	10.6	5	123	..	+32	69	2	..
Pouto	97	22.2	14.5	18.4	..	25.8	20	12.0	5	117	11	..	22	25	..
Leigh	27	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Warkworth	72	22.1	12.8	17.5	+0.7	25.4	28	8.0	8	203	12	+90	55	2	..
Woodhill Forest	30	22.1	12.9	17.5	+0.5	25.2	13	8.7	5	103	11	+12	26	2	..
Riverhead Forest	28	22.7	12.2	17.5	+0.9	26.3	28	8.4	8	173	10	+69	44	2	..
Kumeu	32	22.8	12.3	17.6	+0.9	26.2	28	8.5	8	170	12	..	41	2	..
Whenuapai	26	22.5	13.2	17.9	+0.8	26.2	28	9.2	8	236	12	+136	56	17	..
Albert Park Auckland	49	22.7	15.9	19.3	+1.0	25.4	26	12.6	5	132	13	+44	49	2	226*
Owairaka, Auckland	41	22.2	14.6	18.4	+0.9	24.7	22	10.9	5	177	11	+79	51	2	..
Port Fitzroy	4	22.6	13.3	18.0	+0.2	25.3	12	8.2	8	187	13	+74	44	5	..
Little Barrier Is	2	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Rotorua Is	30	21.6	16.0	18.8	..	25.2	21	13.9	5	89	..	..	52	2	..
Awaroa Valley	30	22.4	14.5	18.5	..	25.6	24	9.8	5	138	12	..	60	2	..
Manukau Heads	244	21.7	14.5	18.1	..	24.9	28	12.4	8	135	13	+57	40	5	..
Coromandel	43	23.6	13.4	18.5	..	27.6	28	8.3	8	161	11	..	90	2	..
Whangapoua Forest	4	23.3	12.1	17.7	+0.4	27.0	28	7.0	8	180	11	+60	127	2	..
Thames	3	23.5	16.0	19.8	+1.5	26.8	12	12.0	10	112	12	+20	61	2	..
Tairua Forest	3	22.8	13.3	18.1	+0.7	27.6	28	8.5	9	85	7	-48	45	2	..
Ngatea	1	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Paeroa	4	24.4	13.9	19.2	+1.6	27.4	12	9.0	5	105	13	-8	53	2	..
Waihi	91	23.4	13.3	18.4	+1.2	27.2	28	7.6	9	112	13	-40	51	2	169
Te Aroha	18	24.1	14.9	19.5	+1.4	27.8	12	9.7	18	106	16	-14	60	2	..
Katikati	2	23.3	13.8	18.6	..	26.5	24	9.6	18	79	14	..	42	2	..
Waharoa	60	23.6	13.5	18.6	..	27.3	12	8.6	18	119	16	..	56	2	..
Tauranga	2	21.6	15.5	18.6	+0.9	26.5	24	10.8	18	84	17	-37	42	2	..
Tauranga Airport	4	22.1	14.4	18.3	+0.9	26.7	24	9.7	18	81	17	-35	40	2	216
Te Puke	91	21.5	13.3	17.4	+0.6	25.4	24	6.7	18	117	15	-23	44	2	182
Rotoehu Forest	72	21.4	12.4	16.9	+0.4	26.1	24	5.6	18	118	11	-28	64	2	..
Whakatane Airport	6	21.7	13.4	17.6	+0.7	25.7	30	6.3	18	102	18	+10	38	2	..
Te Kaha	6	21.7	14.8	18.3	..	24.0	24	9.5	7	72	9	..	28	2	..
Port Ohope	9	21.8	15.3	18.6	+1.2	25.7	30	10.2	18	93	15	..	35	2	..
Kinleith	383	21.2	11.6	16.4	+0.8	24.6	11	5.5	29	178	17	+33	52	2	..
Tikitere	338	20.2	12.7	16.5	+0.8	24.0	11	6.9	18	131	17	..	48	2	..
Kawerau	30	22.7	14.1	18.4	+0.5	27.0	24	8.5	18	178	15	+27	62	2	..
Te Teko	8	24.8	13.8	19.3	+1.6	29.0	11	7.8	18	136	15	+1	54	2	164
Rotorua Airport	287	20.9	12.9	16.9	+0.9	24.4	24	6.8	18	133	16	-5	39	2	206
Waiotapu Forest	435	20.5	10.4	15.5	+0.5	24.2	12	2.0	5	134	14	+8	37	2	..
Atiamuri Power Stn	253	23.3	12.0	17.7	+1.5	27.1	11	5.0	18	140	17	+12	44	2	..
Kaingaroa Forest	544	19.8	10.9	15.4	+0.7	24.3	12	2.8	18	177	17	+34	55	2	..
Murupara	198	..	12.9	..	..	..	..	8.1	28	126	15	-11	43	2	..
Ohaaki	350	21.7	11.6	16.7	..	26.0	21	4.5	18	93	22	..	28	2	..
Wairapukao Forest	437	21.5	10.4	16.0	+1.1	25.8	12	0.4	10	148	20	+12	39	2	..
Taupo	376	21.7	10.4	16.1	+0.4	25.5	13	4.0	18	123	16	-1	64	2	189
Wairakei Power Stn	342	22.1	11.6	16.9	+1.0	25.8	11	5.5	18	147	16	+19	72	2	..
Wairakei Research Stn	402	22.4	10.8	16.6	+1.3	26.8	11	4.7	21	154	16	+28	73	2	..
Minginui Forest	366	21.7	10.3	16.0	+0.7	25.5	11	0.2	13	189	19	+44	47	2	..
Taupo Airport	400	21.0	11.4	16.2	+0.6	24.1	13	5.2	18	161	12	+46	64	2	..
Waimihia Forest	743	18.4	9.4	13.9	+0.9	22.5	12	4.1	18	189	18	+32	50	2	..
Opotiki	6	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Waimana	37	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Mangere Auckland	4	22.8	15.5	19.2	+1.4	27.3	24	11.5	5	159	12	+75	49	2	222
Otara Auckland	12	22.8	14.1	18.5	+1.3	25.5	28	9.6	5	134	12	+44	54	2	..
Auckland Airport	8	22.5	15.0	18.8	+1.0	25.2	28	11.7	7	139	11	+51	48	2	241
Ardmore	30	23.0	13.2	18.1	+1.3	26.9	17	8.2	31	136	11	+35	61	2	..
Pukekohe	82	22.4	13.4	17.9	+1.3	25.9	28	9.8	5	110	12	..	53	2	102
Maioara Forest	52	22.2	13.9	18.1	+1.0	25.5	13	9.8	7	96	12	-19	32	2	..

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		Means of		Mean of A and B	Differ-ence From Normal	Absolute Maximum and Minimum				Total Fall	No. of Rain Days	Differ-ence From Normal	Maximum Fall		
		A Max.	B Min.			Maxi-mum	Date	Mini-mum	Date				Amount		Date
Metres	°C	°C	°C	°C	°C	°C	°C	mm	mm	mm	Hrs				
Hunua	122	22.3	12.3	17.3	..	25.1	12	7.3	5	166	11	..	68	2	..
Maramarua Forest	38	23.3	12.4	17.9	+1.4	26.0	12	7.2	5	149	13	+48	60	2	..
Te Kauwhata	32	23.4	13.2	18.3	+1.0	26.3	28	8.3	5	116	16	+17	56	2	200
Huntly	34	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Ruakura Hamilton	40	23.1	12.8	18.0	+1.5	25.5	12	8.0	5	141	13	+40	43	2	229
Whatawhata	104	22.4	13.1	17.8	+1.3	26.1	13	8.2	10	141	13	+11	36	2	218
Hamilton Airport	50	23.5	12.2	17.9	+1.6	26.5	12	6.5	31	180	14	+76	39	2	..
Cambridge	76	23.4	13.2	18.3	+1.8	27.2	13	8.2	31	192	13	+96	60	2	..
Mohakatino Stn Mokau	46	21.1	14.6	17.9	+1.5	23.7	16	9.3	4	166	..	+26	42	1	..
Arapuni Power Stn	123	23.8	12.7	18.3	+1.2	27.1	13	8.3	18	195	14	+74	68	2	..
Waikeria	46	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Te Kuiti	61	23.0	12.9	18.0	+1.3	26.5	13	8.4	31	157	20	+20	44	2	160
Wairere	156	21.9	12.2	17.1	..	25.2	13	7.5	31	133	18	+2	26	23	..
Pureora Forest	549	19.7	10.4	15.1	+1.2	23.1	13	4.4	31	186	19	+23	56	2	..
Mangakahu Valley	397	21.1	11.5	16.3	..	24.0	15	8.3	4	159	18	..	30	23	..
Taumarunui	171	23.4	12.2	17.8	+0.8	26.8	13	7.5	10	207	21	+62	39	1	162
Tokirima	152	23.2	11.4	17.3	..	27.2	24	6.2	31	214	18	..	56	23	..
Omata	61	21.5	14.5	18.0	+1.8	24.6	17	10.0	4	177	12	+67	68	2	..
New Plymouth	55	..	..	..	..	..	..	..	..	..	..	..	..	..	..
New Plymouth Airport	27	21.2	13.9	17.6	+1.7	24.9	16	8.7	31	108	14	-9	42	23	244
North Egmont	955	..	8.8	..	..	..	..	4.0	31	697	14	..	236	23	..
Te Wera Forest	180	21.1	11.3	16.2	+1.2	23.9	13	6.2	18	213	16	+61	56	23	..
Lower Retaruke	223	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Turangi	366	21.3	11.5	16.4	+0.6	25.9	11	4.8	31	163	21	+4	56	2	164
Chateau, Mt Ruapehu	1097	16.0	6.1	11.1	..	19.4	18	1.4	31	352	..	..	98	1	..
Hukanui	235	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Mt Bruce Res	305	22.1	10.8	16.5	+2.1	26.0	19	5.2	12	182	15	+0	67	23	..
Waingawa Masterton	114	22.5	11.4	17.0	+1.2	26.9	19	6.1	6	118	17	+35	37	2	190
Kopua	311	21.2	11.7	16.5	+1.6	25.1	22	7.0	31	116	14	-8	45	2	..
Waipukurau	137	23.3	11.5	17.4	+1.3	28.5	28	7.1	28	89	11	-3	46	2	177*
Dannevirke	207	21.8	11.8	16.8	+1.2	24.3	14	7.1	31	131	15	+8	26	1	..
Porangahau	8	21.6	12.4	17.0	..	28.0	22	7.8	19	176	12	..	69	1	..
Castlepoint	3	20.2	14.2	17.2	+0.5	25.6	21	9.9	4	77	13	+1	21	25	..
Ngaumu Forest	244	21.4	10.9	16.2	+1.4	25.3	14	5.7	31	80	10	-9	30	2	..
Tauherenikau	43	21.9	12.4	17.2	+1.3	25.9	13	7.3	6	165	12	+80	44	2	184
Waiorongomai	21	20.6	13.0	16.8	+1.2	24.1	13	6.4	18	140	11	+27	46	23	..
Cape Palliser	10	20.3	13.8	17.1	+0.3	25.0	14	9.6	4	177	12	+101	36	2	..
Ruatoria	61	22.9	13.4	18.2	+0.6	29.3	24	7.5	8	66	7	-82	21	2	..
Mangatu Forest	182	23.3	11.6	17.5	+0.7	27.0	24	2.5	5	62	8	-61	18	2	..
Manutuke Gisborne	9	23.4	13.5	18.5	+1.3	28.2	22	8.1	10	51	8	-29	24	8	..
Gisborne Airport	4	24.2	13.4	18.8	+1.4	30.6	22	6.3	8	22	7	-62	12	2	256
Onepoto, Waikaremoana	643	20.1	11.3	15.7	+1.1	24.8	15	7.0	4	122	14	-79	31	2	..
Wharerata Forest	439	19.3	12.2	15.8	..	25.9	22	1.5	7	41	9	..	14	2	..
Esk Forest	427	20.8	12.5	16.7	+1.6	24.8	14	6.8	4	107	12	-62	27	2	..
Ngamatea	885	17.9	7.6	12.8	..	20.6	22	2.0	18	106	17	..	38	2	..
Kaweka Forest	414	21.4	12.2	16.8	+1.1	26.5	28	8.1	4	223	13	+79	89	2	..
Napier Airport	2	23.1	14.1	18.6	+1.6	29.6	22	8.6	7	61	9	-23	25	2	..
Napier	2	24.2	15.3	19.8	+2.0	29.7	22	10.1	10	64	9	-13	32	2	225
Hastings	16	24.1	14.0	19.1	..	30.0	22	10.0	4	53	6	..	19	2	..
Whakatu	6	23.1	13.7	18.4	..	29.6	22	8.8	28	30	8	..	13	2	..
Gwavas Forest	335	21.6	10.3	16.0	+1.5	26.6	28	5.9	19	139	14	+1	62	2	..
Makaretu	335	21.9	10.8	16.4	+1.1	26.8	22	6.0	31	126	17	+8	61	2	..
Mohaka Forest	286	22.2	12.6	17.4	+1.4	26.1	28	8.4	18	79	8	-65	25	16	..
Frasertown, Wairoa	8	23.9	13.7	18.8	+1.2	28.7	27	7.5	7	42	12	-91	17	2	..
Wairoa	20	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Kapiti Is	16	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Paraparaumu Airport	7	20.8	13.2	17.0	+1.1	23.5	17	7.5	18	215	14	+138	77	22	218
Flockhouse Bulls	9	21.4	12.3	16.9	+1.1	24.5	22	6.6	19	134	16	+46	41	23	..
Ohakea	48	21.8	13.2	17.5	+1.2	24.7	28	8.9	5	198	14	+109	75	26	242
Wharite Peak	914	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Kairanga Palmerston N	15	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Palmerston N Airport	45	22.2	12.6	17.4	+1.5	24.2	13	7.4	19	154	11	+62	36	23	..
Palmerston N D S I R	34	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Foxton	9	..	..	..	..	..	..	..	..	183	12	..	79	23	..
Tiritea	100	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Waitarere Forest	3	21.2	12.7	17.0	+0.9	23.3	26	7.0	6	136	12	+58	67	23	..
Levin	46	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Titahi Bay	31	20.5	13.8	17.2	..	22.5	12	8.4	6	124	12	..	45	23	..
Avalon, Lower Hutt	15	20.8	12.9	16.9	+1.0	23.5	13	6.8	18	119	15	+13	40	23	..
Highland Pk Wgtn	120	..	..	..	..	..	..	..	..	129	11	..	39	23	..
Kelburn, Wellington	125	19.2	13.5	16.4	+1.1	22.5	13	8.0	18	134	12	+39	46	2	212
Somes Is	43	19.3	14.1	16.7	+1.1	22.0	13	9.5	4	96	11	-8	41	23	..
Gracefield Lower Hutt	34	20.0	13.8	16.9	+1.1	23.5	13	8.5	18	106	9	+8	41	23	..
Wainuiomata	82	20.2	12.2	16.2	+1.0	23.1	13	4.3	18	132	14	+3	45	23	..
Wellington Airport	6	20.2	14.5	17.4	+1.2	23.7	13	8.1	18	111	11	+32	36	2	..

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		A Max.	B Min.			Maxi—mum	Date	Mini—mum	Date				Amount		Date
Metres	°C	°C	°C	°C	°C	°C	°C	mm	mm	mm	Hrs				
Rimutaka Forest	37	..	..	..	..	..	..	..	..	..	..	..	..	..
Kaitoke	223	..	..	..	..	..	..	..	..	..	..	..	..	..
Wallaceville	56	..	..	..	..	..	..	..	..	..	..	..	..	..
Cape Egmont	8	21.4	13.2	17.3	+1.1	23.5	16	8.1	19	168	10	+69	45	28	
Stratford Mtn House	846	17.1	7.9	12.5	+1.1	20.0	14	4.2	19	566	14	+118	260	23	
Stratford Dem Farm	311	20.4	10.9	15.7	+1.5	23.4	13	6.6	18	263	16	+101	96	23	
Kapuni	173	21.4	11.3	16.4	..	24.5	15	5.2	18	131	12	..	27	2	
Manaia Dem Farm	98	21.0	11.5	16.3	+1.1	23.8	22	4.8	18	116	12	+20	32	28	
Normanby	122	20.9	11.8	16.4	+1.5	23.2	21	5.2	18	196	18	..	62	23	
Patea	43	..	..	..	..	..	..	..	..	..	..	..	..	..
Moumahaki Exp Farm	87	..	..	..	..	..	..	..	..	..	..	..	..	..
Pipiriki	80	23.5	12.5	18.0	..	27.0	11	7.7	18	134	15	..	39	23	
Ohakune Junction	629	..	..	..	..	..	..	..	..	163	9	+29	50	1
Karioi	648	20.0	8.8	14.4	+0.7	22.8	13	4.1	18	104	13	-15	32	1	
Waiouru	823	18.7	8.4	13.6	+1.4	21.5	13	2.0	18	138	14	+28	29	1	
Waiouru Military Camp	823	18.4	8.1	13.3	+1.3	21.8	28	2.6	18	169	13	+52	34	7	
Ahu Ahu Valley	85	22.9	11.4	17.2	..	25.8	14	5.8	18	111	15	..	23	23	
Taihape	433	22.3	10.0	16.2	+1.6	25.5	13	4.1	18	101	18	-13	27	1	
Kahui, Taihape	518	..	..	..	..	..	..	..	..	..	..	..	..	..
Wanganui	22	21.9	14.0	18.0	+1.4	26.0	28	8.4	18	82	13	-6	18	21	
Wanganui Airport	9	21.5	13.2	17.4	..	26.0	28	6.8	18	135	12	+61	31	23	
Kotinga Takaka	25	..	..	..	..	..	..	..	..	..	..	..	..	..
Totaranui	10	21.4	12.9	17.2	..	24.7	14	4.0	19	410	12	+294	134	3	
Westport Airport	2	19.9	13.1	16.5	+1.7	22.5	18	7.5	15	303	20	+126	36	15	
Cobb Dam	823	16.8	8.4	12.6	+1.0	20.5	21	4.8	6	264	18	+100	92	8	
Arapito	20	21.2	13.2	17.2	..	24.2	25	9.5	4	308	16	..	75	26	
Lake Rotoroa	443	20.2	9.8	15.0	..	24.5	13	6.4	10	258	..	..	42	8
Lake Rotoiti	634	19.2	8.9	14.1	+0.9	24.8	19	3.8	30	248	23	+108	59	8	
Hokitika Airport	39	19.8	12.9	16.4	+2.1	22.7	25	7.8	6	343	21	+121	63	26	
Punakaiki	4	20.3	14.4	17.4	..	23.0	19	10.8	3	292	19	..	38	16	
Reefton	198	21.1	11.8	16.5	+1.3	25.9	13	7.5	7	322	22	+161	56	22	
Barrytown	30	20.1	14.0	17.1	..	22.5	19	10.0	6	329	19	+122	35	20	
Totara Flat	77	21.9	10.0	16.0	+0.9	25.6	6	4.0	31	207	18	+45	30	23	
Greymouth	4	19.7	13.2	16.5	+1.5	22.8	25	7.9	6	257	20	+55	32	22	
Otira Substation	383	18.6	9.4	14.0	+0.5	23.5	12	1.2	27	697	23	+314	137	20	
Springs Junction	421	..	..	..	..	..	..	..	..	..	..	..	..	..
Pukekura	86	..	..	..	..	..	..	..	..	..	..	..	..	..
Hari Hari	45	20.9	12.4	16.7	+2.3	23.8	16	4.8	6	520	20	+216	85	21	
Okarito	10	20.3	12.8	16.6	..	23.7	16	8.0	6	330	19	..	72	27	
Franz Josef	155	19.8	11.0	15.4	..	23.4	9	6.7	6	588	22	..	92	28	
Fox Glacier	152	19.6	11.5	15.6	+2.0	22.9	9	6.7	6	455	22	+64	92	28	
Milford Sound	3	19.6	11.4	15.5	+1.7	23.0	18	5.8	4	688	21	+159	195	31	
Deep Cove	30	..	..	..	..	..	..	..	..	..	..	..	..	..
Puysegur Point	43	16.6	11.3	14.0	..	21.0	19	7.4	6	189	24	+15	40	21	
Stephens Is	187	18.2	13.2	15.7	+1.4	20.4	19	8.5	4	165	14	+108	61	23	
Riwaka Motueka	8	22.1	12.8	17.5	+1.4	26.5	21	9.3	10	216	11	+125	94	8	
Tapawera	146	22.0	11.6	16.8	..	26.2	21	6.3	10	175	15	..	80	8	
Crail Bay Pelorus Sd	13	20.5	13.4	17.0	..	22.8	9	9.5	4	182	..	..	..	..
Appleby	17	20.9	13.2	17.1	+1.0	24.7	21	9.5	10	128	11	+58	77	8	
Nelson Airport	2	20.7	13.3	17.0	+1.0	23.9	21	9.2	10	161	13	+87	71	8	
Rai Valley	79	21.0	12.5	16.8	+1.5	24.2	21	6.3	11	217	12	+58	60	25	
Moutere Hills	110	20.5	13.4	17.0	+0.8	24.2	21	10.2	3	125	11	+41	78	8	
Blenheim Research	4	..	..	..	..	..	..	..	..	..	..	..	..	..
Wairau Valley	162	21.6	11.3	16.5	..	25.4	13	6.8	7	92	9	..	28	8	
Blenheim Airport	27	22.0	13.0	17.5	+1.3	27.4	21	9.2	6	67	12	+12	15	25	
Brancott Valley	64	22.1	11.9	17.0	..	27.0	21	7.6	6	76	12	..	16	8	
Wither Hills Blenheim	32	22.3	12.9	17.6	+1.0	27.5	21	8.5	7	57	12	+9	13	8	
Waihopai Power Stn	262	21.0	11.2	16.1	+0.4	25.5	21	8.0	7	130	13	+57	35	8	
Duntroon	350	..	..	..	..	..	..	..	..	..	..	..	..	..
Lake Grassmere	2	20.8	13.7	17.3	+1.1	27.8	15	8.1	18	65	11	+22	12	8	
Cape Campbell	3	..	..	..	..	..	..	..	..	..	..	..	..	..
Boyle River Lodge	600	..	..	..	..	..	..	..	..	..	..	..	..	..
Hanmer Forest	387	20.7	9.3	15.0	+0.7	25.7	14	2.5	4	105	15	+6	31	2	
Molesworth	893	18.4	7.3	12.9	+0.5	22.1	13	0.6	4	124	18	+62	32	15	
Kaikoura Flats	24	..	..	..	..	..	..	..	..	..	..	..	..	..
Kaikoura	108	18.7	12.7	15.7	+0.8	25.7	28	7.2	4	110	14	+42	27	2	
Arthurs Pass	738	16.3	8.3	12.3	..	21.0	12	2.9	4	528	19	+186	95	22	
Culverden	174	21.1	10.9	16.0	..	26.0	14	3.0	4	96	12	..	25	24	
Balmoral Forest	198	20.8	11.0	15.9	+0.8	26.4	14	2.6	4	93	13	+38	30	24	
Waiau	137	22.1	11.2	16.7	..	28.2	14	3.5	4	87	11	..	22	2	
Cheviot	85	..	..	..	..	..	..	..	..	..	..	..	..	..
The Hermitage Mt Cook	765	..	..	..	..	..	..	..	..	..	..	..	..	..
Mt John	1027	17.6	7.9	12.8	+0.9	22.0	14	1.9	3	33	13	-16	7	21	
Craigieburn Forest	914	..	..	..	..	..	..	..	..	..	..	..	..	..
Lake Coleridge	364	20.4	9.8	15.1	+0.8	25.8	13	3.6	4	71	17	+8	22	22	

CLIMATOLOGICAL TABLE—Summary of the Records of Temperature, Rainfall, and Sunshine for December 1985—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	mm	mm	mm					
Highbank Power Stn	336	..	10.5	..	..	..	..	3.3	4	179	19	+89	37	24	124
Hororata Substation	192	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Winchmore	160	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Peel Forest	274	19.0	9.2	14.1	+0.5	28.1	28	0.9	4	225	26	+120	66	24	..
Ashburton	101	20.4	11.6	16.0	+0.2	28.2	14	2.2	4	74	12	+7	26	24	139
Waipara	64	22.7	12.2	17.5	+1.4	29.1	21	3.9	4	99	9	+47	30	24	..
Ashley Forest	107	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Rangiora	46	20.3	11.7	16.0	+0.8	29.3	14	2.4	4	145	13	+79	41	24	..
Darfield	195	20.7	10.6	15.7	+0.2	27.4	14	2.5	4	94	13	+22	21	24	..
Eyrewell Forest	158	20.2	10.5	15.4	+0.2	28.0	14	0.4	4	152	13	+84	45	24	..
Christchurch Airport	30	19.9	12.0	16.0	+0.4	29.0	21	2.9	4	67	13	+17	15	22	154
Templeton	46	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Christchurch	7	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Bromley Christchurch	9	19.6	13.1	16.4	+0.6	29.0	21	4.9	4	80	14	+32	26	24	..
Mt Pleasant	137	19.3	12.7	16.0	+0.7	27.5	21	6.4	4	71	13	+23	17	24	..
Lincoln	11	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Quail Island	75	19.4	12.6	16.0	..	28.5	21	6.0	4	47	11	..	14	22	..
Akaroa	3	21.6	11.6	16.6	+1.0	30.0	21	6.0	6	37	8	..	13	25	..
Lake Tekapo	683	19.3	9.0	14.2	+0.3	23.8	21	2.0	4	127	14	+79	99	20	..
Fairlie	304	19.7	9.5	14.6	..	30.7	28	0.9	4	72	12	..	16	8	..
Twizel	457	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Twizel Substation	451	21.3	10.4	15.9	..	25.9	15	1.9	4	94	14	..	22	8	..
Ikawai	70	19.2	10.3	14.8	+0.9	29.5	21	1.5	4	35	10	-23	6	24	..
Geraldine	119	19.9	11.0	15.5	+0.6	29.8	28	2.3	4	101	15	+23	20	1	..
Orari Estate	81	19.6	10.6	15.1	+0.6	30.0	21	2.7	4	76	16	+0	21	1	..
Temuka	24	19.3	11.0	15.2	+0.7	30.2	28	3.4	4	50	11	-11	11	24	..
Timaru Airport	26	19.2	10.7	15.0	+0.8	30.7	28	2.5	4	50	12	-3	10	2	..
Adair	85	18.5	11.5	15.0	+0.7	30.0	28	4.6	4	64	11	+4	14	24	..
Timaru	17	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Timaru 2	17	18.8	12.0	15.4	..	31.1	28	3.8	4	42	12	..	11	2	124
Waimate	61	18.8	10.8	14.8	-0.2	30.5	21	2.9	4	55	11	-9	15	24	..
Aviemore	241	19.8	9.8	14.8	..	26.5	14	1.5	4	43	15	-5	16	8	..
Kurow	207	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Oamaru Airport	30	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Knobs Flat	375	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Lake Hawea	350	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Wanaka	296	22.6	10.8	16.7	+1.1	27.7	18	3.1	5	66	13	+14	21	23	..
Queensberry	277	22.2	11.3	16.8	..	27.6	17	3.2	4	63	14	..	16	27	..
Bendigo	200	23.1	11.5	17.3	..	28.6	17	2.5	4	53	15	..	12	23	..
Naseby	607	18.5	7.8	13.2	..	25.0	14	1.0	4	54	9	..	23	23	..
Windsor	88	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Oamaru	5	18.1	11.0	14.6	..	30.2	21	0.7	18	25	10	..	8	28	..
Ranfurly	427	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Herbert Forest	61	18.6	..	..	..	29.4	14	..	..	61	14	+1	16	22	..
Palmerston	21	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Cherry Farm Hospital	6	18.6	9.4	14.0	+0.7	29.3	14	2.8	5	49	18	-10	15	23	..
Taiaroa Head	72	16.2	11.0	13.6	+0.7	25.0	21	7.0	5	63	17	+0	13	22	..
Berwick Forest	18	19.8	9.7	14.8	+1.2	27.0	14	2.4	6	48	14	-25	11	29	..
Dunedin Airport	1	19.8	9.2	14.5	+0.9	28.8	14	-1.1	6	60	17	-7	13	22	127
Musselburgh Dunedin	2	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Te Anau	215	20.2	9.4	14.8	+1.4	25.0	17	1.3	4	113	15	+22	30	31	..
West Arm, Manapouri	232	18.8	10.3	14.6	+1.6	24.0	18	6.2	30	276	17	-1	69	31	..
Borland Burn	183	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Queenstown	329	21.2	10.9	16.1	+1.3	25.2	11	4.1	4	53	13	-10	13	23	179
Queenstown Airport	349	20.7	9.7	15.2	+1.3	25.3	14	4.2	4	43	9	-9	13	23	..
Gibbston	354	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Cromwell Sub Stn	213	22.8	11.8	17.3	..	28.1	17	3.9	4	44	9	+4	10	17	..
Cromwell	213	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Northburn	210	23.0	11.8	17.4	..	27.5	14	4.6	4	50	13	..	12	1	..
Cromwell 2	213	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Lauder	370	21.0	9.8	15.4	..	26.4	14	1.2	4	73	14	..	20	1	..
Clyde Dam	160	22.5	11.8	17.2	..	28.2	14	3.3	4	62	15	..	13	8	..
Ophir	305	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Clyde(Dsir)	171	22.4	10.9	16.7	..	28.7	14	1.8	4	68	14	..	12	8	..
Alexandra	141	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Roxburgh Power Stn	110	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Eitrick No 1	83	22.5	10.3	16.4	..	29.5	21	3.0	6	49	10	..	9	1	..
Eitrick No 2	91	22.2	..	..	..	28.4	12	..	..	53	12	..	11	1	..
Deep Stream	396	18.3	8.7	13.5	..	26.5	13	0.5	6	49	18	..	12	23	..
Beaumont	46	21.4	9.4	15.4	..	31.3	21	3.0	6	52	18	-31	15	1	..
Mahinerangi Dam	396	17.0	7.2	12.1	+0.3	24.5	14	-0.5	23	62	19	-26	10	23	..
Tapanui	226	19.9	9.2	14.6	+0.9	26.5	12	3.2	6	52	17	-28	11	28	..
Taieri Mouth	15	16.9	9.8	13.4	+0.6	25.2	20	3.2	5	49	13	-21	15	23	..
Tuatapere	27	19.8	10.1	15.0	..	26.3	21	3.3	6	64	21	..	11	28	..
Otautau	55	19.4	9.2	14.3	+1.2	27.0	21	2.0	6	56	16	-27	12	23	134

CLIMATOLOGICAL TABLE—Summary of the Records of Temperature, Rainfall, and Sunshine for December 1985—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					
Winton	44	..	..	..	..	..	..	..	..	..	..	..	..	..
Gore	123	..	..	..	..	..	..	..	..	..	..	..	..	..
Hokonui Forest	46	20.1	9.0	14.6	+0.9	27.4	14	0.5	6	54	13	-33	15	29	
Woodlands	47	19.8	8.9	14.4	+1.3	27.7	14	2.1	6	50	20	-24	10	26	
Invercargill Airport	0	18.9	9.5	14.2	+1.3	26.3	14	2.4	6	52	18	-32	10	31	
Tiwai Point, Bluff	5	18.5	10.7	14.6	+1.2	26.5	14	5.8	6	36	15	-46	7	27	
Stewart Is	3	16.5	9.8	13.2	+1.0	25.1	14	4.4	5	81	23	-23	19	22	
Clinton School	120	19.1	8.1	13.6	..	26.5	14	0.4	5	62	11	..	17	23	
Finegand Balclutha	6	..	..	..	..	..	..	..	..	..	..	..	..	..
Owaka	5	17.8	8.6	13.2	+0.0	27.3	14	0.6	6	51	18	-17	14	23	
Nugget Point	129	..	..	..	..	..	..	..	..	..	..	..	..	..
Tautuku	40	..	..	..	..	..	..	..	..	..	..	..	..	..
Nadi Airport Fiji	15	31.3	21.5	26.4	-0.4	32.8	1	18.5	23	118	10	-50	26	16	
Rarotonga Airport	7	28.4	22.7	25.6	+0.7	29.6	19	20.5	14	330	21	+99	87	14	
Totokoitu, Rarotonga	9	..	..	..	..	..	..	..	..	..	..	..	..	..
Raoul Is	38	22.5	17.7	20.1	-0.4	24.5	31	15.1	10	147	11	+33	87	22	
Campbell Is	15	11.8	5.7	8.8	+0.0	17.2	13	-1.5	17	86	22	-16	16	19	
Waitangi, Chatham Is	44	16.8	11.0	13.9	+0.3	20.1	23	6.1	14	43	7	-16	18	23	
Scott Base Antarctica	16	-1.7	-7.6	-4.7	+0.8	-2.5	15	-12.3	3	..	..	..	..	..
LATE RETURNS AND CORRECTIONS															
Waiotemarama 11/1985	229	18.0	10.4	14.2	-0.4	21.2	30	7.2	5	166	15	..	46	25	
Kumeu 11/1985	32	20.0	9.5	14.8	-0.2	23.9	30	2.5	7	108	12	..	29	23	
Whangapoua Forest 09/1985	4	17.4	..	..	..	20.0	29	..	..	158	..	-5	..	..
Whangapoua Forest 10/1985	4	18.4	7.5	13.0	-0.9	22.0	23	2.0	28	87	14	-50	22	21	
Whangapoua Forest 11/1985	4	20.4	9.4	14.9	-0.7	22.8	20	1.4	8	144	14	+34	32	23	
Omata 11/1985	61	18.5	11.1	14.8	+0.3	22.7	28	6.5	7	139	14	+14	37	19	
Lower Retaruke 11/1985	223	19.9	8.3	14.1	+0.2	24.5	16	-0.1	7	126	15	-15	33	25	
Wharite Peak 10/1985	914	9.4	2.6	6.0	-0.5	14.5	29	-2.6	27	130	..	-63	53	25	
Rimutaka Forest 11/1985	37	17.0	9.5	13.3	..	21.5	29	0.5	8	119	16	..	35	26	
Kahui, Taihape 11/1985	518	16.8	6.6	11.7	-1.2	23.4	19	0.5	7	80	..	+7	16	1	
Deep Cove 11/1985	30	17.2	6.3	11.8	..	25.5	27	0.6	6	306	15	..	59	17	
Cape Campbell 11/1985	3	16.3	11.0	13.7	+0.0	20.6	2	6.5	6	162	13	+117	64	23	
Craigieburn Forest 11/1985	914	..	4.4	..	..	..	..	-1.3	4	65	19	-94	10	20
Kurow 10/1985	207	16.9	4.9	10.9	..	23.0	6	0.0	17	28	9	..	6	12	
Kurow 11/1985	207	18.9	8.3	13.6	..	28.5	15	1.5	13	57	..	..	15	18
Cherry Farm Hospital 11/1985	6	16.4	6.9	11.7	-0.2	25.0	17	1.8	9	52	18	-5	13	18	
Deep Stream 09/1985	396	14.4	0.2	7.3	..	20.5	24	-5.0	11	32	13	..	14	10	
Tautuku 11/1985	40	15.0	7.3	11.2	+0.1	24.6	15	2.1	10	95	..	-21	18	20	
Raoul Is 10/1985	38	19.6	14.6	17.1	-0.5	22.0	21	12.	0 10	Z 8	0 1	0 -2	1 3	3 2	

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 1985

General—December was cloudy and wetter in most places, with above average temperatures over the whole country.

North-westerly winds prevailed over the whole country and strong winds were less frequent than usual. North-easterlies and south-easterlies were about 10 percent more frequent than usual. South-westerlies had their lowest frequency over the southern part of the South Island for almost 30 years.

Mean sea level pressures were above average throughout the whole country, the greatest departures were in the east of the North Island where the pressure was 2 hpa above average.

Surface flooding was reported in Auckland City and the Paraparaumu area on the 2nd and 23rd respectively. With heavy rainfall affecting other areas on those dates.

Most farmers reported very good grass growth, but rain made haymaking difficult. Fly strike was reported on some farms, but otherwise stock were in very good condition.

Rainfall—Rainfall was above average over most of the country and several records were set this month for maximum monthly rainfall. However Southland, Taranaki, Hawke's Bay and the Gisborne area received below average rainfall. Nelson, Paraparaumu, Whenuapai and Auckland recorded well over 200 percent of normal rainfall (see table below). On the 2nd Auckland City Weather Office recorded 52 mm from midday to midnight, and 133 mm was recorded at Paraparaumu Airport within 24 hours over the 22nd and 23rd. Auckland and Whenuapai rainfalls were the highest on record, Paraparaumu the second highest.

Some of the greatest departures this month were:

Station	Start of Record	Total Rainfall (mm)	Percent of Average	Rank
Whenuapai	1943	236	248	Highest on record
Auckland City	1961	172	214	Highest on record
Auckland Airport	1962	139	159	Second highest on record
Taupo Airport	1976	161	—	Highest on record
Ohakea	1940	198	224	Highest on record
Paraparaumu Airport	1945	215	282	Second highest on record
Nelson Airport	1941	161	219	Second highest on record

Station	Start of Record	Total Rainfall (mm)	Percent of Average
Gisborne	1937	22	25
New Plymouth	1944	108	70
Invercargill	1939	52	63
Roxburgh	1948	35	63

Temperatures—Mean daily temperatures were at least 0.5°C above average, and mostly 1.5°C above average for the whole country. The West Coast of the South Island had mean daily temperatures 2.0°C above average, with average minimum temperatures being up to 2.5°C above normal.

Sunshine—The South Island was fairly cloudy throughout the month, while sunny days in the North Island were evenly spread, although the first few days were relatively cloudy. Sunshine hours for the North Island were either just below or just above normal for December. Southland's sunshine was just above normal. Canterbury, Otago and Westland sunshine hours were about 70 percent of normal. Kaikoura's December sunshine was the lowest on record.

Some of the greatest departures were:

Station	Start of Record	Departure from Normal (hours)	Rank
Kaikoura	1960	-64	Lowest on record
Christchurch Airport	1956	-56	Second lowest on record
Hokitika Airport	1964	-43	Second lowest on record
Dunedin Airport	1962	-55	
Queenstown	1930	-58	

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
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 WELLINGTON









