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OF THURSDAY, 11 FEBRUARY 1988

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CLIMATOLOGICAL TABLE

FOR DECEMBER 1987

NEW ZEALAND METEOROLOGICAL SERVICE

CLIMATOLOGICAL TABLE—Summary of the Records of Temperature, Rainfall, and Sunshine for December 1987

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	Hrs		
Aupouri Forest	69	..	..	..	..	..	..	..	..	..	..	..	..	..
Kaitaia	8	22.8	13.9	18.4	..	25.7	17	8.5	1	158	15	..	36	14	
Kaitaia Observatory	85	21.6	14.2	17.9	..	24.6	19	9.7	1	154	17	..	33	14	
Kerikeri M A F	79	22.2	13.4	17.8	..	25.1	30	9.0	1	192	21	..	52	15	
Kerikeri Aero 2	150	22.3	13.1	17.7	..	26.0	19	8.0	1	242	20	..	55	15	
Panguru	5	22.7	13.8	18.3	..	26.5	23	8.5	22	164	15	..	35	25	
Kaikohe Dsir Edr	204	..	..	..	..	..	..	..	..	..	..	..	..	..
Waiotemarama	229	19.9	13.6	16.8	+0.8	23.5	23	9.5	21	190	19	..	44	25	
Waipoua Forest	88	21.6	12.6	17.1	+0.6	25.5	23	8.0	11	193	20	+89	48	25	
Dargaville Maf	20	..	..	..	..	..	..	..	..	..	..	..	..	..
Whangarei Aero	37	22.5	14.3	18.4	+0.3	26.1	18	10.5	2	131	15	+33	38	15	
Whangarei Hospital	29	22.7	13.4	18.1	+0.3	26.5	23	8.6	2	132	15	..	34	15	
Marsden Power Stn	3	23.8	..	..	..	26.4	14	..	..	99	16	+8	31	15
Leigh 2	27	21.1	15.2	18.2	+0.7	23.8	20	11.2	2	85	20	+11	19	25	
Warkworth	72	21.7	12.8	17.3	+0.5	25.0	18	6.8	2	231	20	+118	86	15	
Woodhill Forest	30	21.2	13.5	17.4	+0.4	24.8	17	7.6	2	119	15	+28	29	15	
Kumeu	32	..	..	..	..	..	..	..	..	..	..	..	..	..
Whenuapai Aero	26	21.8	13.3	17.6	+0.5	24.7	17	7.4	2	119	18	+19	38	15	
Auckland, Rakino Is	60	..	..	..	..	..	..	..	..	..	..	..	..	..
Henderson, River Pk	4	23.6	13.2	18.4	..	27.0	17	7.5	2	118	20	..	30	15	
Auckland Owairaka	41	21.8	14.3	18.1	+0.6	25.6	17	8.8	2	124	15	+26	32	15	
Port Fitzroy	4	..	..	..	..	..	..	..	..	..	..	..	..	..
Little Barrier Is	2	21.7	15.1	18.4	..	24.6	18	10.9	2	165	18	+76	63	15	
Rotorua Is	30	20.7	15.4	18.1	..	24.1	19	12.3	1	134	9	..	45	15	
Awaroa Valley	30	21.7	14.1	17.9	..	24.8	19	7.4	8	208	18	..	67	15	
Manukau Heads 2	244	20.1	13.6	16.9	..	23.1	17	10.3	1	111	20	+33	35	15	
Coromandel	43	22.4	14.3	18.4	..	25.6	25	8.5	2	333	22	..	153	15	
Whangapoua Forest	4	..	..	..	..	..	..	..	..	..	..	..	..	..
Thames 2	3	..	..	..	..	..	..	..	..	..	..	..	..	..
Tairua Forest	3	22.3	13.1	17.7	+0.3	26.6	3	6.5	8	108	18	-25	28	16	
Ngatea 3	1	23.2	12.4	17.8	..	27.2	17	5.8	12	182	16	..	64	25	
Paeroa	4	..	..	..	..	..	..	..	..	..	..	..	..	..
Waihi	91	23.3	13.6	18.5	+1.3	30.1	29	7.8	11	257	23	+105	127	16	
Te Aroha	18	..	..	..	..	..	..	..	..	197	..	+77	44	15
Katikati	2	22.6	13.5	18.1	..	26.8	20	8.3	8	152	16	..	41	16	
Waitoa	18	23.1	13.1	18.1	..	26.5	17	7.1	8	143	13	..	31	25	
Tauranga	2	21.4	14.8	18.1	+0.4	25.0	30	8.9	8	140	16	+19	37	16	
Tauranga Aero	4	21.3	13.7	17.5	+0.1	24.3	20	6.6	8	129	20	+13	36	25	
Te Puke	91	21.5	12.1	16.8	+0.0	24.8	30	5.2	2	217	19	+77	45	16	
Te Puke Edr	91	21.2	12.0	16.6	..	24.7	30	5.4	8	326	17	..	70	16	
Whakatane Aero	6	21.7	13.3	17.5	+0.6	24.3	20	6.4	1	131	14	+39	44	16	
Te Kaha	6	..	..	..	..	..	..	..	..	..	..	..	..	..
Port Ohope	9	21.6	14.3	18.0	+0.6	25.1	19	8.7	7	65	13	..	16	16	
Kinleith 2	383	20.3	11.4	15.9	+0.3	26.0	18	5.0	8	177	17	+32	60	25	
Tikitere	338	19.7	12.1	15.9	+0.2	23.5	18	7.1	7	137	20	..	51	25	
Kawerau	30	22.9	13.5	18.2	+0.3	27.1	30	7.0	2	218	15	+67	60	25	
Te Teko	8	23.6	12.9	18.3	+0.6	28.6	30	6.5	2	203	17	+68	51	25	
Rotorua Aero 2	287	20.5	12.2	16.4	+0.4	25.2	19	4.7	8	160	20	+22	44	25	
Atiamuri Power Stn	253	21.8	11.1	16.5	+0.3	27.2	18	4.6	7	107	15	-21	37	25	
Kaingaroa Forest	544	..	..	..	..	..	..	..	..	..	..	..	..	..
Murupara	198	..	..	..	..	..	..	..	..	..	..	..	..	..
Galatea	190	..	..	..	..	..	..	..	..	..	..	..	..	..
Ohaaki	350	..	..	..	..	..	..	..	..	..	..	..	..	..
Taupo Nzed	376	20.9	11.2	16.1	+0.4	26.2	18	5.1	8	130	15	+6	50	17	
Wairakei Power Stn	342	21.6	10.4	16.0	+0.1	27.5	18	3.5	8	84	15	-44	34	25	
Wairakei Research Stn	402	..	..	..	..	..	..	..	..	..	..	..	..	..
Minginui Forest	366	..	..	..	..	..	..	..	..	..	..	..	..	..
Taupo Aero	400	20.2	10.8	15.5	-0.1	25.2	18	3.8	11	112	15	-3	31	17	
Waimihia Forest	762	..	..	..	..	..	..	..	..	..	..	..	..	..
Opotiki	6	..	..	..	..	..	..	..	..	..	..	..	..	..
Waimana	37	22.3	12.9	17.6	+0.5	25.2	20	5.8	2	221	17	+73	52	25	
Matawai Maf Edl	580	..	..	..	..	..	..	..	..	..	..	..	..	..
Auckland Mangere	4	21.8	15.0	18.4	+0.6	26.0	17	10.2	28	114	19	+30	24	25	
Auckland Aero	8	21.6	14.8	18.2	+0.4	24.7	3	10.1	2	100	16	+12	24	25	
Ardmore	30	22.0	13.1	17.6	+0.8	26.2	17	7.2	28	136	18	+35	36	15	
Pukekohe Maf	82	21.4	13.0	17.2	+0.6	26.3	17	7.6	2	159	21	..	35	17	
Pukekohe Edr	82	21.4	13.3	17.4	..	26.0	17	7.9	2	243	18	..	54	17	
Maioro Forest	52	..	13.7	..	..	..	..	9.0	2	58	12	-57	13	3
Hunua	122	21.9	12.0	17.0	..	26.8	17	5.5	2	167	20	..	41	25	
Maramarua Forest	38	22.2	11.7	17.0	+0.5	26.7	17	5.7	2	111	14	+10	27	25	
Te Kauwhata Maf	32	..	..	..	..	..	..	..	..	..	..	..	..	..
Ruakura	40	22.0	12.8	17.4	+0.9	26.0	17	6.3	2	86	15	-15	22	25	
Whatawhata	104	21.3	11.5	16.4	-0.1	26.0	17	5.8	26	127	18	-3	35	25	
Hamilton Aero	50	22.3	11.9	17.1	+0.8	26.3	17	4.9	8	110	13	+6	30	25	
Cambridge	76	22.8	12.8	17.8	+1.3	26.9	17	6.1	8	111	..	+15	37	25	

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		Means of		Mean of A and B	Difference From Normal	Absolute Maximum and Minimum				Total Fall	No. of Rain Days	Difference From Normal	Maximum Fall		
		A Max.	B Min.			Maxi-mum	Date	Mini-mum	Date				Amount	Date	
Metres	°C	°C	°C	°C	°C	°C	°C	°C	mm	mm	mm	Hrs			
Mokau Mohakato Stn	46	20.1	13.2	16.7	+0.3	23.1	25	8.5	27	135	..	-5	27	3	..
Arapuni Power Stn	123	22.3	12.1	17.2	+0.1	26.5	17	5.5	8	177	18	+56	50	17	..
Waikeria	46	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Te Kuiti Wepb	61	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Wairere	122	21.0	11.3	16.2	..	25.2	20	5.2	8	125	18	-6	27	25	..
Pureora Forest	549	18.5	9.3	13.9	+0.0	24.3	18	2.7	8	175	21	+12	60	25	..
Mangakahu Valley	397	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Taumarunui	171	22.7	11.5	17.1	+0.1	28.7	18	5.5	7	158	21	+13	38	25	163
Tokirima	152	21.9	..	..	..	27.8	18	..	..	165	19	..	44	25	..
Omata	61	19.9	13.0	16.5	+0.3	23.5	20	9.8	28	265	16	+155	84	3	..
New Plymouth	55	20.1	12.4	16.3	+0.3	24.5	20	7.1	28	240	17	+124	90	3	..
New Plymouth Aero	27	19.6	12.9	16.3	+0.4	22.5	16	7.5	28	189	17	+72	67	3	182
North Egmont	955	14.4	7.1	10.8	..	19.7	19	3.3	7	703	23	..	170	3	..
Lower Retaruke	223	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Turangi	366	20.6	10.5	15.6	-0.2	27.4	18	3.8	7	146	14	-13	48	25	179
Mt Ruapehu Chateau 2	1097	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Ruapehu The Chalet	1941	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Tukino	1650	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Mt Bruce Res	305	..	10.4	..	..	..	..	4.5	28	190	17	+8	48	3	..
Waingawa	114	22.1	10.8	16.5	+0.7	29.2	18	4.5	1	60	19	-23	10	19	205
Kopua	311	20.2	10.9	15.6	+0.7	25.0	19	4.5	8	64	18	-60	9	17	..
Waipukurau Aero	137	22.4	11.0	16.7	+0.6	28.0	29	4.6	1	50	11	-42	21	17	173*
Dannevirke	207	20.4	11.4	15.9	+0.3	26.2	25	4.8	28	70	19	-53	12	9	167
Porangahau	8	21.5	11.8	16.7	..	27.3	4	4.8	1	30	14	..	9	16	..
Castlepoint Light	3	20.8	13.8	17.3	+0.6	26.1	18	10.3	8	50	19	-26	6	6	..
Ngaumu Forest	244	21.4	9.7	15.6	+0.8	27.3	20	4.2	11	37	16	-52	6	10	..
Tauherenikau	43	21.5	11.0	16.3	+0.4	26.4	16	5.9	1	74	14	-11	16	25	202
Waiorongomai	21	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Martinborough	30	22.7	11.4	17.1	..	27.9	23	4.9	1	43	15	..	5	6	208
Ruatoria	61	23.7	12.9	18.3	+0.7	29.5	30	8.5	11	147	13	-1	59	16	..
Mangatu Forest	182	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Gisborne, Manutuke	90	23.6	13.0	18.3	+1.1	29.4	19	7.8	11	55	16	-25	19	6	..
Gisborne Aero	4	24.1	13.0	18.6	+1.2	30.1	19	7.6	28	70	15	-14	15	6	250
Waikaremoana Onepoto	643	20.5	..	..	..	26.7	18	..	..	161	19	-40	45	25	..
Wharerata Forest	439	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Tokomaru Bay Maf Edl	244	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Esk Forest	427	21.0	11.8	16.4	+1.3	27.5	19	5.1	7	86	17	-83	21	25	..
Ngamatea Nzfs	885	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Kaweka Forest	414	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Napier Aero	2	23.1	13.1	18.1	+1.1	29.4	24	5.8	11	26	11	-58	9	16	..
Napier Nelson Pk	2	23.8	14.2	19.0	+1.2	29.0	24	7.1	12	25	11	-52	10	16	265
Havelock Nth Dsir 2	9	23.6	12.0	17.8	..	29.1	3	5.0	11	43	9	..	17	17	227
Havelock Nth Edr	9	23.9	12.0	18.0	..	29.0	3	4.8	11	45	9	..	17	17	..
Hastings Civic Sq.	16	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Whakatu	6	23.0	12.8	17.9	..	29.0	24	5.7	11	24	10	..	10	16	..
Gwavas Forest	335	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Makaretu	335	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Ongaonga Thornton	190	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Mohaka Forest	286	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Wairoa Frasertown	8	24.3	..	..	..	31.0	19	..	..	71	17	-62	19	6	..
Wairoa Hospital	20	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Kapiti Is	16	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Paraparaumu Aero	7	19.7	12.6	16.2	+0.3	23.5	16	8.3	21	115	17	+38	27	4	185
Bulls Flockhouse	9	20.7	12.3	16.5	+0.7	27.1	16	7.0	28	122	17	+34	21	8	..
Ohakea Aero	48	20.8	12.7	16.8	+0.5	26.7	16	8.3	28	105	18	+16	17	8	188
Palmerston N Kairanga	15	20.8	11.8	16.3	+0.5	26.0	16	5.6	28	92	17	+12	24	9	181
Palmerston N Aero	45	20.9	12.3	16.6	+0.7	26.1	23	5.8	28	103	17	+11	18	23	..
Palmerston N Dsir	34	21.0	12.6	16.8	+0.4	25.6	23	7.6	28	96	17	-6	19	8	145
Foxton	9	20.7	12.7	16.7	..	26.2	16	7.7	28	102	17	..	26	9	183
Waitarere Forest	3	20.0	12.5	16.3	+0.2	26.1	16	6.9	21	78	15	+0	17	23	..
Levin Maf	46	20.1	12.9	16.5	+0.7	25.8	16	9.4	28	97	18	-3	24	23	152
Titahi Bay Te Pene Av	31	19.8	12.9	16.4	..	27.2	16	7.9	21	90	16	..	17	4	..
Lower Hutt Avalon	15	19.7	12.2	16.0	+0.1	24.9	16	8.6	11	157	18	+51	30	25	..
Wellington Kelburn	125	18.6	12.2	15.4	+0.1	24.6	16	8.0	7	85	17	-10	23	25	194
Somes Is	43	18.6	12.9	15.8	+0.2	22.0	15	10.0	7	80	16	-24	22	25	..
Lower Hutt Gracefield	34	19.2	10.9	15.1	-0.7	23.3	16	6.4	7	113	16	+15	34	25	..
Wainuiomata Coast Rd	82	18.9	10.7	14.8	-0.4	25.1	16	7.4	7	103	17	-26	24	25	..
Wellington Aero	6	19.9	13.5	16.7	+0.5	23.1	23	9.3	7	78	18	-1	21	25	..
Rimutaka Forest	37	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Kaitoke	223	18.8	10.2	14.5	+0.2	24.0	16	2.7	28	248	19	+81	83	3	158
Wallaceville	56	19.9	11.7	15.8	+0.4	25.8	16	6.3	21	165	16	+69	36	3	175
Stratford Dem Farm	311	18.5	10.1	14.3	+0.1	22.0	18	4.2	1	220	16	+58	49	25	183
Kapuni	173	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Manaia Dem Farm	98	19.7	11.0	15.4	+0.2	24.3	17	6.6	9	93	15	-3	30	25	..
Normanby Edr	122	19.2	11.2	15.2	..	23.0	23	7.2	11	109	14	..	38	25	..

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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	°C	mm	mm	mm	mm		
Normanby Maf	122	19.3	10.6	15.0	+0.1	23.2	23	6.6	11	117	21	..	40	25	
Patea Hospital	43	..	..	..	..	..	..	..	..	..	..	..	..	..
Turoa, The Giant	2052	..	..	..	..	..	..	..	..	..	..	..	..	..
Ohakune Junction 2	629	18.3	9.2	13.8	+0.4	23.2	20	3.7	11	259	20	+125	58	25	
Waiouru Mwd	823	..	8.1	..	..	..	..	3.0	11	99	17	-11	16	25
Waiouru Military Camp	823	17.2	8.0	12.6	+0.6	22.1	19	2.4	11	102	20	-15	15	25	
Ahu Ahu Valley	85	..	..	..	..	..	..	..	..	..	..	..	..	..
Taihape Rec	433	..	..	..	..	..	..	..	..	..	..	..	..	..
Wanganui Cooks Gdns	22	21.0	13.1	17.1	+0.5	27.2	23	9.0	1	73	14	-15	16	8	
Wanganui Aero	9	..	..	..	..	..	..	..	..	..	..	..	..	221
Takaka Kotinga 2	25	20.7	10.2	15.5	..	26.3	30	4.9	1	183	16	..	87	25	
Totaranui	10	..	..	..	..	..	..	..	..	..	..	..	..	200
Westport Aero	2	18.2	11.8	15.0	+0.2	22.7	16	8.0	27	324	22	+147	64	23	
Westport Te Kuha Edl	680	..	..	..	..	..	..	..	..	..	..	..	..	153
Cobb Dam	823	15.6	6.2	10.9	-0.7	22.4	18	1.8	21	200	18	+36	75	25	
Arapito	20	..	..	..	..	..	..	..	..	..	..	..	..	..
Lake Rotoroa	443	19.2	7.8	13.5	..	24.9	18	2.0	2	213	..	..	..	..
Lake Rototiti	634	17.6	7.4	12.5	-0.7	25.0	18	3.1	28	212	23	+72	56	25	
Hokitika Aero	39	18.0	10.4	14.2	-0.1	22.0	16	5.5	21	296	20	+74	96	2	
Punakaiki Rocks	4	18.4	12.4	15.4	..	22.0	15	9.6	10	239	..	..	41	2
Reefton Nzfs	198	19.8	10.0	14.9	-0.3	26.0	15	6.0	28	231	21	+70	64	23	
Barrytown	30	18.2	11.6	14.9	..	22.2	15	8.3	26	278	20	+71	42	2	
Totara Flat	77	19.2	9.6	14.4	-0.7	25.0	15	5.0	28	170	18	+8	38	25	
Greymouth Aero	4	17.9	11.0	14.5	-0.5	23.0	16	7.0	21	199	20	-3	50	2	
Springs Junction	421	18.7	8.5	13.6	+0.0	25.5	18	2.5	28	253	..	+90	..	109	
Pukekura	86	18.2	8.6	13.4	..	23.9	16	2.9	21	344	21	..	110	2	
Harihari Nzfs	45	..	..	..	..	..	..	..	..	..	..	..	..	..
Okarito	10	..	..	..	..	..	..	..	..	313	19	..	125	2
Franz Josef	155	16.9	9.1	13.0	..	24.3	15	5.0	27	457	22	..	140	2	
Fox Glacier Main Rd	152	16.6	9.0	12.8	-0.8	22.8	15	3.9	27	379	23	-12	93	2	
Milford Sound	3	17.2	9.0	13.1	-0.7	24.9	16	4.5	20	639	20	+110	255	2	
Deep Cove 2	3	..	..	..	..	..	..	..	..	..	..	..	..	..
Stephens Is	187	17.4	11.6	14.5	+0.2	20.7	16	7.5	9	66	16	+9	16	3	
Motueka Dsr	8	21.0	10.2	15.6	-0.5	24.6	18	5.1	1	133	14	+42	63	25	
Tapawera	146	..	..	..	..	..	..	..	..	..	..	..	..	205
Pelorous Sd Crail Bay	13	19.7	12.9	16.3	..	25.9	18	7.8	1	231	..	..	65	3
Appleby	17	19.8	11.5	15.7	-0.4	22.9	16	5.5	1	112	18	+42	42	25	
Nelson Aero	2	19.8	11.8	15.8	-0.2	22.7	16	5.9	1	126	16	+52	51	25	
Rai Valley	79	..	..	..	..	..	..	..	..	..	..	..	..	214
Blenheim Research	4	21.6	11.5	16.6	..	27.1	30	5.9	1	85	6	..	55	25	
Wairau Valley	162	..	..	..	..	..	..	..	..	..	..	..	..	238
Blenheim Aero	27	..	..	..	..	..	..	..	..	..	..	..	..	..
Brancoct Valley	64	21.8	11.1	16.5	..	27.6	30	4.3	1	90	7	..	48	25	
Spray Point Waihopai	457	20.1	8.6	14.4	..	25.7	28	1.7	1	114	12	+29	49	25	
Dunroon	350	..	..	..	..	..	..	..	..	..	..	..	..	..
Grassmere Salt Works	2	20.6	12.5	16.6	+0.4	25.4	17	5.4	27	60	10	+17	24	25	
Boyle River Lodge	600	19.2	7.5	13.4	..	24.7	16	2.5	28	138	..	..	..	203
Hanmer Forest	387	20.4	7.6	14.0	-0.3	27.9	17	1.5	1	130	14	+31	47	9	
Molesworth	893	18.7	5.8	12.3	-0.1	24.6	28	-1.4	1	58	9	-4	25	25	
Kaikoura Weather Stn	108	19.1	12.1	15.6	+0.7	26.5	3	7.4	1	49	12	-19	12	19	
Arthurs Pass	738	14.9	6.5	10.7	..	22.6	16	2.9	27	391	17	+49	101	25	
Cuiverden Mwd	174	20.4	9.0	14.7	..	28.0	17	2.0	1	125	12	..	59	9	
Balmoral Forest	198	..	..	..	..	..	..	..	..	..	..	..	..	..
Waiiau Lyndon St 2	137	20.9	10.0	15.5	..	30.1	17	3.2	1	76	13	..	32	9	
Cheviot	85	20.4	10.0	15.2	..	28.7	17	4.5	1	46	13	..	16	9	
Mt Cook The Hermitage	765	17.1	7.2	12.2	-0.6	22.5	15	2.3	26	363	18	-16	144	2	
Mt John	1027	16.5	6.5	11.5	-0.4	22.7	18	1.6	26	33	8	-16	10	22	
Craigieburn Forest	914	..	..	..	..	..	..	..	..	..	..	..	..	..
Lake Coleridge	364	19.6	8.6	14.1	-0.2	26.5	17	4.8	1	57	14	-6	16	25	
Highbank Power Stn	230	19.5	10.3	14.9	+0.7	27.1	17	5.5	20	69	17	-21	21	5	
Hororata Substation	192	20.9	9.1	15.0	+0.0	29.9	28	3.7	1	58	15	-17	18	5	
Winchmore Maf	160	19.8	9.7	14.8	+0.2	28.7	28	5.0	1	50	11	-18	15	8	
Peel Forest	274	19.1	7.6	13.4	-0.2	27.4	17	2.4	27	111	21	+6	19	22	
Ashburton Council	101	20.6	10.3	15.5	-0.3	30.9	17	6.1	1	42	10	-25	11	8	
Ashley Forest 1	107	..	..	..	..	..	..	..	..	..	..	..	..	132
Rangiora Nzfs	46	20.9	9.8	15.4	+0.2	29.6	17	3.7	27	44	18	-22	11	5	
Kairaki	3	..	..	..	..	..	..	..	..	..	..	..	..	..
Darfield	195	22.0	9.4	15.7	+0.2	31.4	28	5.8	9	48	15	-24	14	5	
Eyrewell Forest	158	..	..	..	..	..	..	..	..	52	10	-16	21	5
Christchurch Aero	30	21.1	10.7	15.9	+0.3	31.0	3	3.3	1	36	16	-14	9	5	
Christchurch Gardens	7	21.0	10.9	16.0	+0.2	29.8	3	5.1	27	32	14	-18	9	5	
Christchurch Bromley	9	..	..	..	..	..	..	..	..	..	..	..	..	..
Mt Pleasant	137	19.7	11.8	15.8	+0.5	28.5	3	8.8	1	37	17	-11	8	5	
Lincoln	11	..	..	..	..	..	..	..	..	..	..	..	..	..
Akaroa Rue Lavaud	3	21.1	10.4	15.8	+0.2	29.0	3	6.0	27	51	10	..	12	1	

CLIMATOLOGICAL TABLE—Summary of the Records of Temperature, Rainfall, and Sunshine for December 1987—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	
		°C	°C	°C	°C	°C	°C	mm	mm	mm	Hrs				
Lake Tekapo Nzed	683	18.4	7.3	12.9	-1.0	24.2	17	2.8	7	130	9	+82	99	16	..
Fairlie Riverview Tce	304	19.7	7.6	13.7	..	29.1	28	4.4	19	79	20	..	33	9	..
Twizel Substation	451	21.2	8.1	14.7	..	27.6	17	3.0	7	58	15	..	16	9	..
Ikawai	70	18.7	8.4	13.6	-0.3	27.5	3	2.5	7	84	10	+26	43	22	..
Geraldine Nzfs	119	20.0	9.8	14.9	+0.0	28.0	17	6.0	20	67	17	-11	14	22	..
Orari Estate	81	20.1	9.4	14.8	+0.3	28.6	3	4.8	27	61	16	-15	12	22	..
Temuka	24	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Timaru Aero	26	19.2	9.7	14.5	+0.3	29.5	3	5.7	27	56	14	+3	15	22	..
Timaru 2	17	18.5	10.6	14.6	..	29.5	3	6.5	7	61	15	..	19	19	138
Waimate	61	18.6	10.5	14.6	-0.4	29.3	3	5.9	7	125	14	+61	80	22	..
Benmore Power Stn	253	20.6	10.2	15.4	..	28.1	17	4.8	24	42	9	+4	12	9	..
Aviemore 2	241	19.6	7.8	13.7	..	27.4	17	2.6	20	49	14	+1	16	9	..
Kurow	207	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Knobs Flat	375	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Tara Hills Edr	488	20.3	8.2	14.3	..	26.7	17	1.4	7	45	7	..	18	22	..
Lake Hawea	350	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Wanaka	296	21.2	9.3	15.3	-0.3	26.9	15	3.7	7	47	8	-5	19	22	..
Queensbury Mwd	277	21.1	9.4	15.3	..	27.5	17	3.7	20	29	10	..	16	22	..
Bendigo 2	200	22.1	9.6	15.9	..	28.2	16	2.7	20	25	11	..	13	22	..
Naseby Forest 2	607	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Oamaru Spey St	5	..	10.2	..	..	..	..	6.8	31	60	11	..	22	22	..
Ranfurlly Maniototo	427	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Herbert Forest	61	18.9	..	..	..	29.4	3	..	..	99	15	+39	41	22	..
Palmerston	21	18.8	8.6	13.7	+0.3	27.7	3	2.0	13	56	13	-4	16	22	123
Cherry Farm Hospital	6	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Taiaroa Head	72	15.7	9.7	12.7	-0.2	26.0	3	5.5	6	58	13	-5	13	22	..
Invermay Edr	30	18.2	9.0	13.6	..	27.2	3	3.5	13	79	17	..	16	9	..
Berwick Forest	18	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Dunedin Aero	1	18.4	8.6	13.5	-0.1	27.4	3	1.2	13	52	16	-15	8	22	115
Dunedin Musselburgh	2	17.0	10.3	13.7	-0.3	28.9	3	6.8	13	67	15	-6	12	17	117
Te Anau Po	215	18.4	8.1	13.3	-0.1	26.5	16	2.5	6	63	15	-28	15	25	171
Manapouri West Arm 2	232	16.0	8.3	12.2	-0.8	25.5	16	4.9	6	288	22	+11	59	2	..
Queenstown	329	20.0	9.2	14.6	-0.2	26.7	16	5.2	20	43	9	-20	16	22	201
Queenstown Aero	349	19.1	8.0	13.6	-0.3	25.7	16	2.8	20	37	8	-15	17	22	..
Burwood Bush	490	16.3	6.0	11.2	..	24.3	16	1.0	31	74	12	..	12	19	..
Cromwell Sub Stn	213	21.7	9.6	15.7	..	28.9	17	3.0	20	37	10	-3	14	22	..
Cromwell Mwd	213	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Northburn	210	21.7	9.6	15.7	..	27.7	16	4.5	6	23	11	..	12	22	..
Cromwell 2	213	19.8	9.1	14.5	..	27.7	16	3.2	20	31	12	..	14	22	221
Lauder Edr	370	19.8	7.6	13.7	..	26.8	17	0.0	31	62	11	..	22	9	..
Clyde Dam	160	21.3	9.3	15.3	..	29.8	17	3.6	6	36	12	..	15	22	..
Ophir 2	305	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Clyde Dsir	171	21.7	8.9	15.3	..	29.7	17	2.4	6	34	12	..	16	22	..
Alexandra B Council	141	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Ettrick No 1	83	20.1	9.2	14.7	..	29.0	16	2.0	20	68	9	..	16	9	..
Ettrick No 2	91	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Beaumont Nzfs	46	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Mahinerangi Dam	396	15.6	7.2	11.4	-0.4	26.0	2	2.3	20	106	19	+18	28	17	..
Tapanui	215	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Taieri Mouth	15	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Tuatapere	27	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Codfish Island	2	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Winton B Council	44	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Gore Edr	123	16.8	8.6	12.7	..	26.1	16	4.4	20	70	19	..	11	1	..
Wyndham	20	18.2	8.4	13.3	..	27.6	16	4.6	13	78	18	..	15	26	..
Invercargill Aero	0	16.7	8.9	12.8	-0.1	23.6	16	3.0	22	80	20	-4	14	26	127
Tiwai Point	5	16.8	9.9	13.4	+0.0	26.0	25	5.1	5	69	20	-13	14	25	..
Stewart Is	3	15.7	8.3	12.0	-0.2	23.0	3	3.0	22	88	25	-16	17	2	..
Clinton School	120	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Balclutha Finegand	6	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Owaka	5	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Nugget Point	129	15.5	8.7	12.1	-0.2	25.2	3	5.4	31	83	21	+7	12	5	..
Tautuku	40	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Fiji Nadi Aero	15	31.9	23.4	27.7	+0.9	33.6	19	19.0	7	238	15	+70	74	19	220
Ci Rarotonga Aero	7	29.0	23.6	26.3	+1.4	30.5	10	20.3	30	25	18	-206	5	22	175
Ci Raro Totokoitu	9	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Raoul Is	38	23.5	19.0	21.3	+0.8	25.2	26	14.6	8	55	13	-59	28	20	157
Campbell Is	15	11.2	6.2	8.7	-0.1	13.6	2	3.4	11	87	26	-15	26	3	82
Chatham I Waitangi	44	17.1	11.5	14.3	+0.7	19.9	25	5.5	9	47	19	-12	11	9	167
Chatham I Kaiangaroa	41	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Ant Scott Base	16	-0.5	-6.4	-3.5	+2.0	3.2	11	-14.7	1	..	..	..	..	..	..
LATE RETURNS AND CORRECTIONS															
Panguru 08/1987	5	17.6	6.1	11.9	..	20.3	25	-1.5	27	126	15	..	33	22	..
Panguru 09/1987	5	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Panguru 10/1987	5	18.8	10.7	14.8	..	22.4	25	4.2	22	110	16	..	31	28	..
Panguru 11/1987	5	20.4	12.3	16.4	..	22.9	25	6.2	12	230	21	..	44	21	..

CLIMATOLOGICAL TABLE—Summary of the Records of Temperature, Rainfall, and Sunshine for December 1987—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.			Maxi-mum	Date	Mini-mum	Date				Amount	Date	
Metres	°C	°C	°C	°C	°C*	°C		mm		mm	mm	Hrs			
Little Barrier Is 11/1987	2	19.7	13.3	16.5	..	22.1	23	10.2	30	111	18	+19	33	20	..
Ngatea 3 11/1987	1	21.8	10.0	15.9	..	25.0	25	4.0	12	63	11	..	16	21	..
Waihi 02/1986	91	24.2	15.0	19.6	+0.7	27.6	4	11.0	11	230	14	+92	149	1	179
Te Aroha 11/1987	18	21.5	12.0	16.8	+0.6	25.6	23	4.4	18	138	16	+38	57	21	..
Port Ohope 11/1987	9	20.3	12.7	16.5	+0.7	23.0	3	8.2	30	37	10	..	10	14	179
Galatea 11/1987	190	20.7	10.0	15.4	..	25.0	3	2.0	30	90	13	..	22	13	..
Pukekohe Edr 10/1987	82	17.7	10.5	14.1	..	21.1	8	6.0	22	147	16	..	42	13	..
Pukekohe Edr 11/1987	82	19.6	11.6	15.6	..	23.0	25	6.3	30	116	18	..	29	7	..
Te Kauwhata Maf 11/1987	32	20.4	11.1	15.8	+0.4	23.3	25	6.0	12	69	16	-16	19	21	..
Cambridge 11/1987	76	21.0	10.3	15.7	+1.2	24.4	25	3.2	20	61	..	-30	..	..	..
Mokau Mohakatino Stn 11/1987	46	19.7	11.4	15.6	+1.0	23.2	26	7.7	18	106	12	-40	43	13	..
Te Kuiti Wepb 10/1987	61	18.1	8.9	13.5	+0.6	22.3	26	2.8	17	120	18	-8	23	13	119
Te Kuiti Wepb 11/1987	61	20.7	10.1	15.4	+0.7	24.5	23	4.3	18	135	18	+13	37	13	138
Wairere 11/1987	122	19.6	8.9	14.3	..	24.0	23	2.4	18	114	15	-19	45	13	..
Hastings Civic Sq. 10/1987	16	20.2	8.7	14.5	..	24.9	25	1.7	18	9	8	..	5	26	..
Hastings Civic Sq. 11/1987	16	20.3	10.8	15.6	..	25.0	13	4.9	1	99	15	..	26	10	..
Ahu Ahu Valley 11/1987	85	20.7	8.8	14.8	..	24.0	3	2.2	16	117	12	..	30	14	..
Westport Te Kuha Edl 10/1987	680	11.1	5.6	8.4	..	15.0	26	0.4	14	770	19	..	123	23	..
Westport Te Kuha Edl 11/1987	680	13.9	7.3	10.6	..	21.2	23	1.8	29	401	20	..	100	13	..
Lake Rotoroa 11/1987	443	18.5	6.1	12.3	..	23.7	24	-2.4	18	243	..	..	..	..	..
Springs Junction 11/1987	421	18.6	6.6	12.6	+1.4	23.8	22	-0.2	18	204	17	-24	53	28	..
Deep Cove 2 11/1987	3	17.7	7.7	12.7	..	25.0	24	4.0	15	243	..	..	96	3	..
Brancott Valley 11/1987	64	19.9	9.1	14.5	..	28.3	3	3.0	30	73	11	..	26	13	..
Boyle River Lodge 11/1987	600	17.4	5.4	11.4	..	24.0	21	-0.8	19	100	..	..	..	..	..
Ashburton Council 11/1987	101	19.3	8.2	13.8	-0.1	32.6	3	0.9	19	75	11	+9	22	28	147
Eyrewell Forest 11/1987	158	..	..	..	..	..	..	..	..	25	..	-37	7	23	..
Timaru 2 11/1987	17	17.4	9.2	13.3	..	32.5	3	4.2	20	17	7	..	10	29	166
Kurow 11/1987	207	18.9	7.6	13.3	..	28.5	3	1.2	15	23	10	..	7	13	..
Etrick No 2 10/1987	91	17.5	4.7	11.1	..	25.1	24	-2.0	1	53	11	..	13	25	..
Etrick No 2 11/1987	91	20.5	5.7	13.1	..	27.7	25	-1.5	17	59	13	..	21	26	..
Tuatapere 11/1987	27	18.3	6.8	12.6	..	25.7	24	0.9	17	99	..	..	..	..	..
Ci Rarotonga Aero 11/1987	7	27.2	21.4	24.3	+0.2	29.5	30	18.7	9	52	11	-103	15	9	187
Ci Raro Totokoitu 09/1987	9	24.3	17.9	21.1	-0.8	27.7	19	14.0	9	28	9	..	18	29	..
Ci Raro Totokoitu 10/1987	9	25.0	19.4	22.2	-0.6	28.3	20	15.4	12	83	18	..	21	3	..
Ci Raro Totokoitu 11/1987	9	27.0	21.2	24.1	+0.4	29.4	28	19.0	3	85	14	..	26	2	..
Chatham Kaiangara 11/1987	41	15.8	10.0	12.9	..	18.8	29	5.5	6	61	24	..	16	14	..

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 1987

General—A trough of low pressure crossed the country during the first few days of December. In the 48 hours to 9 a.m. on the 14th almost 350 mm of rain had been recorded at Milford Sound; 255 mm fell during the first 24 hours. The trough was followed by a period of cooler showery south-westerlies. Another trough then moved over the country during the 9th and 10th. Anticyclonic conditions prevailed until the 14th. Then moist north-easterlies associated with a shallow trough in the north Tasman Sea spread onto the North Island, while a ridge of high pressure remained over the South Island. A period of disturbed westerly conditions affected New Zealand from the 18th through to the end of the month, as a series of deep depressions passed to the south. This was interrupted briefly by ridges of high pressure on the 21st and 22nd, and on the 28th and 29th. Thirty houses were reported to have been damaged, and three people were injured when strong winds occurred in the Auckland suburb of Howick on the afternoon of the 25th.

Rainfall—Due to predominant westerly conditions rainfall totals were above normal in Northland, Auckland, and western regions of both islands. Almost twice normal December rainfall was recorded at Cape Reinga, Warkworth and in the Buller region. It was also wetter than normal throughout Bay of Plenty. In most other regions drier conditions prevailed, especially in Hawke Bay, where totals were only 30 to 60 percent of normal.

Temperature—Mean temperatures were 0.5 to 1°C above

normal in most North Island regions, and in Marlborough, Canterbury and North Otago. In Westland, Fiordland and Central Otago they were 0.5 to 1°C below; and almost 2°C below at Alexandra. Elsewhere they were only a little below normal.

Sunshine—Sunnier than normal conditions predominated in east coast regions of the North Island. In all other regions December was a rather cloudy month, except for Northland where totals were near normal. Hours of bright sunshine were significantly below normal in Westland, Fiordland, and coastal areas of Otago and Southland. Totals of only 75 percent of normal for Hokitika, 65 percent of normal at Dunedin Airport, and 69 percent of normal at Invercargill Airport were the lowest for December at these stations since records began in 1964, 1962 and 1935 respectively.

J. S. HICKMAN, Director.

Advice Notice—From next month the present 'Climatological Supplement' will cease being published as part of the *New Zealand Gazette*. In its place Monthly Climatological Tables will be available direct from the New Zealand Meteorological Service.

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 FOR 0000 HOURS. THEY WERE PREPARED BY
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 MINISTRY OF TRANSPORT
 P.O. BOX 722
 WELLINGTON









