

FEBRUARY 2009

Summary of the records of Temperature, Rainfall and Sunshine February 2009

Station	Height of Station Above M.S.L.	Air Temperature								Rainfall					Bright Sun—shine
		Means of		Mean of A and B	Differ—ence From Normal	Absolute Max and Min				Total Fall	No. of Rain Days	Differ—ence From Normal	Max		
		A Max	B Min			Max	Date	Min	Date				Fall	Date	
Metres	°C	°C	°C	°C	°C	°C	°C	°C	mm	mm	mm	mm	Hrs		
Cape Reinga AWS	214	23.2	17.9	20.6	..	27.3	7	15.7	14	156	13	+96	102	27	..
Kaitaia Aero EWS	80	25.2	17.1	21.2	..	29.1	7	11.6	25	163	12	..	78	27	..
Kaitaia Observatory	85	25.5	16.5	21.0	..	30.4	7	11.0	26	177	12	+100	80	27	179
Kaitaia EWS	85	24.3	15.6	20.0	+0.0	29.2	7	9.9	26	185	13	..	92	27	177
Kerikeri EWS	79	25.2	16.4	20.8	+1.2	28.9	8	10.9	25	241	11	+148	132	27	..
Kaikohe AWS	204	24.9	16.6	20.8	+1.8	31.6	8	12.2	25	234	17	+142	158	27	..
Dargaville 2 EWS	66	24.5	16.1	20.3	..	30.8	12	11.5	26	101	11	..	42	27	150
Purerua AWS	82	23.5	17.6	20.6	..	25.8	21	12.9	25	151	12	..	80	27	..
Whangarei Aero AWS	37	25.6	17.5	21.6	+1.4	30.5	12	12.8	25	138	13	+44	71	27	..
Mokohinau AWS	60	23.7	19.3	21.5	..	..	..	..	..	..	..	..	..	..	..
Warkworth EWS	72	24.2	15.4	19.8	..	29.4	12	9.2	25	173	13	+99	76	27	..
Whangaparaoa AWS	89	24.3	18.0	21.2	..	..	..	..	..	140	11	..	44	20	..
Tiri Tiri Lighthouse	76	23.1	17.6	20.4	+0.8	..	..	..	..	..	..	..	..	..	..
Arc Kumeu EWS	16	24.5	14.7	19.6	..	31.3	12	8.6	26	115	12	..	34	20	..
Whenuapai AWS	26	25.1	15.9	20.5	..	32.4	12	9.5	26	..	..	..	..	..	..
North Shore, Auckland	20	23.0	15.2	19.1	..	28.2	8	10.1	26	..	..	..	..	..	..
Henderson, River Pk	7	26.2	16.0	21.1	+1.2	32.2	12	9.6	26	144	14	+80	48	20	..
Henderson, Auckland R	35	23.4	15.7	19.6	..	30.5	12	10.3	26	..	..	..	..	..	..
Lincoln Rd, Auckland	25	27.1	14.0	20.6	..	34.0	12	7.7	14	..	..	..	..	..	..
Khyber Pass, Auckland	81	24.3	18.0	21.2	..	28.1	12	13.4	15	115	13	..	36	20	..
Musick Pt Ews, Auckla	18	24.2	16.4	20.3	..	28.4	8	11.2	15	..	..	..	..	..	..
Onehunga, Auckland Re	5	24.3	17.6	21.0	+1.1	28.0	12	13.0	15	..	..	..	..	..	..
Waiheke Island, Awaro	34	25.0	15.6	20.3	..	30.0	8	9.5	25	146	11	+79	44	27	..
Whitianga Aero AWS	5	25.1	15.6	20.4	+1.3	31.9	8	9.8	26	249	16	+161	91	27	..
Thames 2	3	25.4	16.0	20.7	+0.7	30.0	7	10.9	25	131	11	+75	63	20	194
Paeroa AWS	18	26.2	15.6	20.9	+1.2	32.2	8	9.5	25	67	12	-9	22	20	..
Toenepi EWS	48	25.4	14.9	20.2	..	30.6	9	8.3	26	96	..	..	..	..	..
Matamata, Hinuera EWS	106	25.2	13.5	19.4	..	30.9	8	7.3	25	157	12	..	49	20	..
Tauranga Aero	..	..	..	..	..	..	..	..	..	..	..	..	..	..	225
Tauranga Aero AWS	4	25.2	17.1	21.2	+1.7	30.2	8	11.1	15	190	10	+118	78	28	..
Te Puke EWS	91	24.3	15.0	19.7	..	30.7	8	9.0	15	304	13	+203	120	28	..
Whakatane Aero AWS	7	24.5	15.6	20.1	+0.9	30.6	1	8.1	15	197	10	+123	92	28	..
Whakatane Sunshine	7	..	..	..	..	..	..	..	..	..	..	..	..	..	243
White Island	310	23.1	17.1	20.1	..	26.0	7	14.0	14	..	..	..	..	..	..
Kawerau	42	26.9	15.6	21.3	..	32.0	1	10.0	15	..	..	..	..	..	..
Kawerau AWS	42	..	..	..	..	..	..	..	..	..	..	..	..	..	200
Rotorua Aero 2	281	..	..	..	..	..	..	..	..	..	..	..	..	..	210
Rotorua Aero AWS	283	24.0	14.1	19.1	+1.2	30.0	9	6.8	15	119	15	+25	48	20	..
Tarapounamu EWS	701	19.1	10.5	14.8	..	27.0	8	4.6	14	157	15	..	37	28	..
Taupo AWS	400	23.8	12.8	18.3	+0.9	30.4	8	4.6	15	85	14	..	25	12	..
Opotiki	5	24.3	15.2	19.8	+0.7	28.0	13	9.9	15	177	12	+99	52	28	..
Motu EWS	488	20.0	10.4	15.2	..	29.0	8	4.1	24	167	15	..	66	20	..
Mangere EWS	5	23.6	16.7	20.2	..	27.1	12	11.5	15	127	14	..	48	20	177
Wiri, Auckland Region	18	23.9	17.0	20.5	+0.9	26.9	12	11.9	26	..	..	..	..	..	..
Pakuranga, Auckland R	15	24.8	15.4	20.1	..	28.1	11	6.1	27	..	..	..	..	..	..
Penrose EWS	30	26.3	17.9	22.1	..	29.5	11	12.5	26	..	..	..	..	..	..
Auckland Aero	33	24.6	17.3	21.0	+0.9	28.4	12	12.4	26	122	15	+56	42	20	..
Ardmore	23	26.6	14.0	20.3	+1.1	31.2	9	8.0	26	139	14	+69	22	20	..
Pukekohe EWS	88	23.9	14.9	19.4	+0.4	27.4	7	9.3	26	139	15	..	48	20	..
Whatawhata 2 EWS	118	24.9	14.4	19.7	..	..	..	..	..	215	14	..	70	20	..
Ruakura 2 EWS	45	24.7	14.0	19.4	..	29.9	9	8.0	26	152	13	..	51	20	156
Hamilton AWS	53	25.2	14.1	19.7	+1.1	29.8	9	7.7	26	134	12	+72	50	20	..
Port Taharoa AWS	27	23.7	16.5	20.1	+0.6	27.4	6	12.5	25	64	10	..	34	12	..
Waikeria	46	25.8	14.5	20.2	+1.5	30.0	8	7.7	25	105	9	+38	46	20	..
Te Kuiti EWS	62	25.6	14.5	20.1	..	29.4	8	8.3	25	113	11	..	50	12	..
Taumarunui	171	24.0	14.1	19.1	+0.7	29.4	8	9.3	27	158	20	+78	60	12	..
Taumarunui AWS	195	25.5	13.6	19.6	..	31.0	8	8.0	25	162	13	..	72	12	187
Turangi 2 EWS	350	24.2	12.2	18.2	..	32.6	8	4.3	25	158	13	..	62	12	174
New Plymouth Aero	27	..	..	..	..	..	..	..	..	..	..	..	..	..	192
New Plymouth AWS	30	22.8	14.7	18.8	+0.8	24.9	6	9.0	25	143	13	+53	39	12	..
Lower Retaruke	219	24.6	13.5	19.1	+1.4	31.3	8	8.3	14	169	15	+81	52	12	..
Mt Ruapehu, Chateau E	1097	18.5	8.9	13.7	+1.1	28.1	8	2.2	25	283	14	+133	76	12	..
Alfredton EWS	240	22.4	12.4	17.4	..	26.7	8	2.4	15	157	17	..	34	28	..

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		A Max	B Min			Max	Date	Min	Date				Fall	Date	
Metres	°C	°C	°C	°C	°C	°C	°C	°C	mm	mm	mm	mm	Hrs		
Masterton, Te Ore Ore	110	24.8	11.6	18.2	..	31.9	9	3.8	15	124	27	12	..
Kopua	311	22.7	12.9	17.8	+1.0	31.0	8	6.5	15	133	16	+64	36	28	..
Takapau Plains AWS	330	22.1	11.7	16.9	..	30.7	8	5.5	15	130	20	..	34	28	..
Dannevirke EWS	207	21.2	12.0	16.6	..	28.1	8	6.2	15	153	15	..	31	12	153
Waione EWS	48	24.9	13.2	19.1	..	33.4	8	5.2	18	67	16	..	31	28	..
Castlepoint Station	9	22.8	15.1	19.0	..	31.4	8	8.9	15	102	11	+31	27	28	..
Castlepoint AWS	120	21.8	14.9	18.4	+0.1	31.5	8	10.4	15	102	13	..	29	28	..
Baring Head	79	19.3	13.7	16.5	..	26.2	8	8.0	15	99	11	..	29	12	..
East Taratahi AWS	91	24.3	12.5	18.4	+0.8	33.6	8	4.3	15	78	10	..	22	12	..
Te Wharau, Brackenfie	292	22.0	11.6	16.8	..	33.9	8	4.5	17	119	13	..	33	28	..
Martinborough EWS	20	22.7	12.3	17.5	..	34.1	8	4.5	15	144	14	..	40	20	171
Ngawi AWS	6	22.0	14.5	18.3	..	30.2	8	8.5	15	128	11	..	48	12	..
Hicks Bay AWS	46	22.6	16.6	19.6	+0.5	28.2	8	13.5	27	211	13	..	134	28	..
Gisborne Aero	4	..	..	..	..	..	..	..	..	..	..	..	..	..	182
Gisborne AWS	5	25.2	15.7	20.5	+1.5	34.6	1	9.6	24	48	13	-26	18	28	..
Napier Aero AWS	3	24.6	14.9	19.8	+1.2	36.7	1	9.2	15	100	11	+38	45	28	..
Napier Nelson Pk	2	24.9	15.0	20.0	+0.7	36.0	1	8.6	15	97	13	+35	48	28	182
Hastings AWS	16	25.5	14.6	20.1	..	37.1	1	8.1	15	108	15	..	40	28	..
Whakatu EWS	5	24.6	13.8	19.2	..	36.4	1	8.1	15	72	12	..	38	28	..
Waipawa EWS	130	23.8	12.4	18.1	..	33.8	8	6.7	15	76	13	..	19	28	156
Wairoa, North Clyde E	15	25.4	14.6	20.0	+1.1	37.3	1	10.3	14	206	15	+88	92	24	..
Mahia AWS	136	23.5	16.0	19.8	+1.5	34.9	1	12.0	14	56	13	..	20	28	..
Paraparaumu Aero	5	21.1	13.6	17.4	+0.1	23.8	8	4.9	15	123	13	+67	35	12	180
Paraparaumu Aero AWS	5	20.8	13.4	17.1	-0.2	23.0	2	4.6	15	108	13	..	35	12	..
Palmerston North AWS	39	23.0	14.0	18.5	+0.6	27.1	18	7.3	18	114	8	+57	55	10	..
Palmerston North EWS	21	22.3	14.3	18.3	..	26.7	18	8.0	18	213	16	..	78	10	162
Levin AWS	14	21.7	13.9	17.8	+0.0	24.9	5	5.8	15	189	18	..	53	20	..
Mana Island	2	20.7	14.1	17.4	-0.5	23.2	18	7.3	15	117	..	..	33	12	..
Mana Island AWS	100	18.1	13.4	15.8	..	21.8	5	7.5	15	121	12	..	34	20	..
Wellington, Kelburn	125	..	..	..	..	..	..	..	..	..	..	..	..	..	181
Wellington, Kelburn A	125	19.8	13.6	16.7	..	25.0	8	7.2	15	168	16	..	46	12	..
Wellington Aero	4	20.5	14.6	17.6	-0.3	26.0	8	8.3	15	161	12	+109	50	12	..
Wallaceville EWS	56	22.2	11.8	17.0	..	30.6	8	3.1	15	163	12	+100	62	12	151
Stratford EWS	300	21.5	11.8	16.7	..	25.6	8	6.7	25	206	13	..	46	20	172
Hawera AWS	98	21.5	13.0	17.3	..	26.8	8	6.1	15	111	16	..	25	10	..
Ohakune EWS	607	22.0	11.3	16.7	..	30.0	8	3.3	15	124	17	..	37	12	201
Waiouru	806	20.6	10.0	15.3	+1.0	27.9	8	2.8	25	60	14	+0	22	12	..
Waiouru AWS	820	20.6	9.5	15.1	..	27.7	8	2.1	25	61	16	+3	21	12	..
Taihape Rec	433	24.2	11.0	17.6	+1.1	32.0	8	4.8	15	70	15	+13	15	12	..
Wanganui, Spriggens Pa	15	22.8	14.8	18.8	+0.5	27.3	5	8.9	15	156	13	+90	75	10	..
Wanganui AWS	8	21.9	14.6	18.3	+0.0	25.8	5	7.8	15	146	13	..	61	10	..
Wanganui 2 AWS	18	23.5	14.4	19.0	..	30.0	5	8.0	15	..	..	..	..	..	..
Takaka EWS	20	23.4	12.9	18.2	..	31.6	7	8.2	3	124	11	..	40	12	177
Farewell Spit AWS	3	21.7	14.8	18.3	+0.4	29.5	8	10.7	15	94	10	..	28	19	..
Westport Aero AWS	4	20.5	12.8	16.7	+0.1	24.5	5	9.2	2	92	16	-41	18	19	..
Arapito	18	21.4	12.6	17.0	+0.1	26.0	9	8.3	5	233	17	+82	62	12	175
Arapito EWS	18	21.0	12.0	16.5	..	25.6	9	7.7	2	222	18	..	61	12	..
Murchison EWS	185	24.4	10.9	17.7	..	31.3	8	5.6	3	116	18	+41	28	12	..
Lake Rotoiti EWS	634	21.3	9.6	15.5	..	31.3	8	4.5	24	131	15	..	31	12	..
Hokitika Aero	39	19.4	12.2	15.8	-0.2	22.0	20	8.2	17	277	17	+105	151	20	163
Hokitika AWS	38	19.4	12.0	15.7	-0.3	22.1	20	8.1	17	274	17	..	147	20	..
Reefton EWS	198	22.7	11.1	16.9	-0.1	29.6	8	5.8	3	93	13	-9	24	19	169
Greymouth Aero	4	19.8	12.2	16.0	-0.4	22.0	8	8.9	11	230	17	+86	89	20	168
Greymouth Aero EWS	5	19.3	12.4	15.9	..	21.4	10	9.0	11	222	18	..	86	20	185
Ivory Glacier Cws	1390	11.3	6.0	8.7	..	..	..	..	..	..	..	..	..	..	..
Okarito	2	20.0	11.7	15.9	..	24.3	20	8.5	11	347	16	+96	158	20	..
Frang Josef EWS	80	19.2	10.3	14.8	..	24.7	20	6.1	24	382	17	..	120	20	104
Haast AWS	5	18.7	11.4	15.1	+0.0	22.6	13	7.9	3	265	15	..	73	22	..
Milford Sound	3	19.1	10.0	14.6	-0.3	22.4	20	6.4	14	214	13	-290	90	9	..
Milford Sound AWS	3	20.0	9.8	14.9	..	22.9	20	6.3	14	166	13	..	68	9	..
Secretary Island AWS	19	18.5	10.9	14.7	..	23.2	27	8.2	13	132	12	..	36	9	..
Puysgur Point AWS	44	15.2	10.1	12.7	-1.4	23.6	8	7.1	5	140	18	-19	58	8	..
Motueka, Riwaka EWS	8	23.2	12.8	18.0	+0.5	30.5	8	7.8	24	151	10	+66	82	28	..

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		A Max	B Min			Max	Date	Min	Date				Fall	Date	
Metres	°C	°C	°C	°C	°C	°C	°C	°C	mm	mm	mm	mm	Hrs		
Maud Island	15	21.0	14.1	17.6	..	26.6	1	9.8	..	252	85	19	..
Pelorus Sd, Crail Bay	13	21.2	14.1	17.7	-0.3	27.4	..	8.5	15	176	12	+72	67	12	..
Nelson Aero	2	22.2	14.4	18.3	+0.7	29.1	1	9.7	15	80	12	+26	24	19	197
Appleby 2 EWS	18	22.6	12.3	17.5	..	..	..	6.9	15	98	10	..	21	19	188
Nelson AWS	4	23.1	14.5	18.8	+0.8	28.7	8	10.1	24	83	11	..	23	12	..
Blenheim Research EWS	4	22.3	12.7	17.5	-0.3	31.2	9	5.4	14	98	9	+56	24	12	173
Wairau Valley, Mill R	172	23.0	12.4	17.7	..	..	..	6.2	3	..	..	..	..	..	..
Blenheim Aero AWS	35	22.7	11.9	17.3	-0.4	34.1	9	4.8	14	137	8	+92	35	19	..
Brothers Island AWS	68	18.5	14.3	16.4	..	22.6	1	11.2	15	151	12	..	44	12	..
Awatere Valley, Dashw	83	21.9	11.5	16.7	..	31.2	9	2.3	14	98	7	..	30	12	..
Grassmere Salt Works	2	19.6	12.1	15.9	-1.9	25.5	21	7.7	17	100	7	+66	27	12	..
Cape Campbell AWS	2	18.8	14.5	16.7	..	25.3	1	11.4	17	98	14	..	20	12	..
Boyle River Lodge	600	21.3	8.9	15.1	..	31.0	8	..	..	146	10	..	70	20	..
Hanmer Forest EWS	363	21.2	9.0	15.1	-0.6	35.7	8	1.6	15	122	12	+53	34	12	..
Kaikoura AWS	105	18.4	12.9	15.7	-0.8	30.5	1	8.9	15	114	13	+59	20	4	..
Arthurs Pass	738	17.5	8.2	12.9	-0.1	26.3	7	4.0	14	276	13	+36	140	20	..
Arthurs Pass EWS	738	17.1	8.0	12.6	..	25.9	8	3.8	14	299	15	..	132	20	..
Culverden	178	21.8	10.3	16.1	..	..	..	..	..	90	9	+46	29	20	..
Waiau School Cws	136	21.4	11.6	16.5	..	36.4	8	4.8	15	84	16	..	23	12	..
Cheviot EWS	75	20.4	10.4	15.4	..	37.8	8	3.9	15	92	13	..	23	20	149
Mt Cook EWS	765	18.2	9.0	13.6	-1.2	28.4	8	3.8	14	280	15	+25	78	20	129
Snowdon EWS	560	18.4	8.7	13.6	..	31.0	8	2.1	17	118	14	..	35	20	..
Methven Cws	313	18.6	10.1	14.4	..	35.3	8	4.9	17	140	16	..	51	20	..
Winchmore EWS	160	19.3	10.2	14.8	-1.4	35.2	8	4.4	17	139	16	+86	52	20	..
Peel Forest	286	18.1	8.5	13.3	-1.9	33.0	8	2.4	17	276	21	+186	93	20	..
Ashburton Council	101	19.9	10.3	15.1	-1.8	34.6	8	4.8	17	120	16	+69	37	20	..
Ashburton Aero AWS	89	19.1	10.7	14.9	..	32.7	8	3.3	17	102	15	..	29	20	107
Waipara West EWS	130	20.3	11.4	15.9	..	36.2	8	5.8	17	120	15	..	39	20	149
Rangiora EWS	23	19.7	11.7	15.7	-0.7	32.1	1	..	..	75	14	..	25	20	117
Darfield EWS	190	19.9	11.1	15.5	..	36.4	8	5.8	17	92	16	..	33	20	..
Christchurch Aero	37	20.1	11.7	15.9	-0.9	34.2	9	3.5	17	68	13	+27	20	20	133
Christchurch, Kyle St	6	20.7	11.2	16.0	..	35.4	9	4.2	17	65	12	..	20	20	..
Lincoln, Broadfield E	18	20.2	11.7	16.0	-0.6	34.3	9	3.2	17	61	13	..	13	12	..
Sugar Loaf AWS	618	17.0	9.5	13.3	..	30.5	8	5.2	14	..	..	..	..	..	..
Lyttelton Harbour	5	19.9	14.0	17.0	..	32.0	9	10.0	14	..	..	..	..	..	..
Akaroa EWS	45	20.1	11.5	15.8	..	34.0	9	7.3	17	83	12	..	36	28	144
Le Bons Bay AWS	236	17.1	11.2	14.2	-1.4	30.9	9	7.8	17	83	13	..	33	11	..
Lake Tekapo, Air Safa	762	19.2	8.0	13.6	-1.5	31.8	8	1.2	14	66	13	+31	16	11	..
Lake Tekapo EWS	762	19.4	8.0	13.7	..	31.8	8	1.1	14	50	11	..	15	11	191
Pukaki Aerodrome AWS	473	21.4	8.1	14.8	..	32.4	8	1.2	17	120	14	..	42	20	..
Hakataramea Valley Cw	355	19.2	8.1	13.7	..	33.0	8	0.8	14	66	9	..	16	20	..
Woodbury	195	18.8	9.4	14.1	..	..	..	..	..	..	..	..	..	..	..
Orari Estate	81	18.7	10.2	14.5	-1.4	33.4	8	4.1	15	160	16	+96	56	20	..
Orari Estate Cws	81	18.1	10.3	14.2	..	33.2	8	4.2	15	156	16	..	52	20	..
Timaru Aero AWS	26	18.7	10.1	14.4	-1.1	34.1	8	3.7	15	177	12	+132	56	20	..
Timaru EWS	17	17.8	10.8	14.3	..	32.2	9	5.9	15	166	13	..	50	20	108
Oamaru Airport AWS	30	16.9	10.0	13.5	..	34.0	8	2.5	14	140	13	..	47	20	..
Albert Burn	1280	13.1	4.7	8.9	..	20.3	18	-1.9	14	228	15	..	65	20	..
Tara Hills AWS	488	20.5	8.3	14.4	-1.6	29.1	8	0.1	14	60	10	+26	13	20	..
Wanaka Aero AWS	352	21.3	9.4	15.4	..	28.6	8	1.8	14	44	10	..	11	20	..
Naseby Forest 2	607	18.3	6.6	12.5	-1.5	29.7	8	0.0	14	85	10	+31	22	22	..
Windsor EWS	81	16.8	10.0	13.4	..	31.5	8	1.6	14	170	12	..	57	20	..
Ranfurlly EWS	450	18.7	6.2	12.5	..	29.3	8	-1.0	14	63	10	..	16	20	..
Oamaru AWS	40	16.9	9.7	13.3	..	33.1	8	3.7	14	198	13	..	63	20	..
Palmerston	21	17.9	8.7	13.3	-1.5	32.2	8	1.6	14	230	11	+181	89	20	124
Middlemarch EWS	213	18.5	7.5	13.0	..	30.1	8	0.2	14	93	11	..	22	20	127
Swampy Summit AWS	722	12.6	5.4	9.0	..	..	..	..	..	..	..	..	..	..	..
Dunedin Aero AWS	1	18.4	8.5	13.5	-1.3	33.4	8	1.9	11	87	13	+28	22	20	..
Dunedin, Musselburgh	4	16.3	10.2	13.3	-1.9	32.4	8	5.8	11	165	12	+103	49	28	123
Murchison Mtns EWS	1140	11.3	3.5	7.4	..	17.7	17	-1.6	14	110	14	..	38	9	..
Manapouri, West Arm J	178	18.2	8.8	13.5	..	23.8	5	3.2	14	114	10	..	49	8	..
Manapouri Aero AWS	209	18.8	7.9	13.4	..	26.1	8	-0.6	14	46	7	..	12	9	..
Queenstown	329	21.3	9.7	15.5	-1.1	29.1	5	3.4	14	43	12	-15	11	20	170

Summary of the records of Temperature, Rainfall and Sunshine February 2009

Station	Height of Station Above M.S.L.	Air Temperature								Rainfall					Bright Sun—shine
		Means of		Mean of A and B	Differ—ence From Normal	Absolute Max and Min				Total Fall	No. of Rain Days	Differ—ence From Normal	Max		
		A Max	B Min			Max	Date	Min	Date				Fall	Date	
Metres	°C	°C	°C	°C	°C	°C	°C	°C	mm	mm	mm	mm	Hrs		
Queenstown Aero AWS	354	20.1	8.3	14.2	-1.2	27.4	8	1.7	14	36	13	-12	8	20	..
Lumsden AWS	187	17.8	7.3	12.6	-1.8	27.1	8	0.6	14	80	12	..	22	9	..
Cromwell EWS	213	22.7	10.5	16.6	..	31.1	9	3.4	14	64	10	..	15	28	190
Lauder EWS	375	19.9	7.8	13.9	..	29.0	8	1.3	17	55	13	..	10	11	..
Ophir 2	305	20.3	6.4	13.4	..	28.5	9	..	..	77	11	..	31	20	..
Alexandra	150	22.5	9.4	16.0	..	..	..	..	..	..	..	..	..	..	..
Clyde EWS	171	20.9	8.6	14.8	-1.9	30.9	8	2.1	14	64	10	..	17	20	..
Alexandra Cws	140	20.8	9.5	15.2	..	31.6	8	3.4	14	69	11	..	23	20	..
Ettrick No.2	91	19.3	8.2	13.8	-1.8	31.8	8	1.8	11	66	11	..	18	20	..
Winton	44	18.0	8.1	13.1	-1.2	28.0	8	2.3	25	79	12	+8	24	20	139
Gore AWS	123	16.4	7.9	12.2	-2.0	26.0	8	3.9	11	57	12	-22	21	9	..
Thornbury	20	18.4	8.2	13.3	..	27.6	..	1.1	..	44	..	..	..	..	..
Invercargill Aero		16.5	8.7	12.6	-1.3	27.3	8	3.4	25	68	13	-13	16	8	159
Invercargill Aero AWS	1	16.3	8.5	12.4	..	27.1	8	3.2	25	71	15	..	18	9	..
Invercargill Aero 2 E		..	..	..	..	..	..	..	..	67	15	..	16	9	135
Tiwai Point EWS	5	15.5	9.3	12.4	-2.1	23.8	8	4.9	25	59	14	-17	13	8	..
Balclutha, Finegand	6	17.7	8.5	13.1	-1.7	30.0	8	..	..	48	11	-13	15	22	131
Balclutha, Telford Ew	11	16.6	8.3	12.5	..	29.0	8	3.8	15	66	12	..	24	21	152
Nugget Point AWS	129	15.7	9.3	12.5	-1.5	27.6	8	6.4	13	60	16	..	14	21	..
Tautuku	25	16.3	8.3	12.3	-1.6	28.5	8	5.0	5	106	17	+2	26	21	..
South West Cape AWS	101	14.8	8.9	11.9	..	19.6	8	6.1	13	41	18	..	11	21	..
Solomon, Munda	6	..	24.0	..	..	..	..	..	..	..	..	..	..	..	..
Solomon, Auki	11	..	23.6	..	..	..	..	..	..	..	..	..	..	..	..
Vanuatu, Sola	13	31.5	24.0	27.8	..	..	..	..	..	449	27	..	87	2	..
Vanuatu, Pekoa	56	30.7	23.3	27.0	..	..	..	21.9	14	395	23	..	82	1	..
Vanuatu, Lamap	22	31.6	24.3	28.0	..	..	..	..	..	..	..	..	..	..	..
Vanuatu, Bauerfield	20	32.8	23.0	27.9	..	..	..	..	..	243	22	..	52	1	..
Vanuatu, Burtonfield	70	31.0	23.1	27.1	..	..	..	21.1	2	333	20	..	68	14	..
Vanuatu, Aneityum	6	30.8	23.0	26.9	..	..	..	..	..	..	..	..	..	..	..
New Cal, Ouanaham	29	29.9	23.5	26.7	..	32.6	9	21.2	13	365	21	..	81	4	..
New Cal, Poinoimie	13	30.0	24.1	27.1	..	..	..	..	..	..	..	..	..	..	..
New Cal, La Roche	42	30.1	22.4	26.3	..	..	..	19.0	25	223	18	..	49	27	..
New Cal, La Tontouta	14	32.0	22.8	27.4	..	34.9	2	..	..	..	..	..	..	..	..
New Cal, Nouma	72	31.1	24.7	27.9	..	34.6	16	23.2	7	172	16	..	40	28	..
New Cal, Moue	97	31.3	23.8	27.6	..	33.3	23	22.4	14	428	24	..	204	6	..
New Cal, Matthew	27	29.9	25.9	27.9	..	32.8	25	23.2	5	..	..	..	..	..	..
Kiribati, Tarawa	2	30.8	25.9	28.4	..	..	..	..	..	..	..	..	..	..	..
Tuvalu, Nanumea Is	2	30.4	26.2	28.3	..	..	..	..	..	..	..	..	..	..	..
Tuvalu, Nui Is	2	30.5	25.5	28.0	..	..	..	..	..	..	..	..	..	..	..
Tuvalu, Funafuti Aero	1	31.4	25.8	28.6	..	..	..	..	..	..	..	..	..	..	..
Tuvalu, Niulakita Is	3	31.3	25.3	28.3	..	..	..	..	..	..	..	..	..	..	..
Fiji, Rotuma	26	30.6	24.6	27.6	..	32.0	7	22.6	13	..	..	..	..	..	..
Fiji, Nambowalu	36	30.9	24.0	27.5	..	33.2	13	22.3	3	..	..	..	..	..	..
Fiji, Nadi Aero	15	31.0	22.9	27.0	..	32.5	7	..	..	..	..	..	..	..	..
Fiji, Nausori Aero	6	31.1	23.0	27.1	..	33.1	13	21.7	1	..	..	..	..	..	..
Fiji, Vunisea	33	31.1	24.2	27.7	..	..	..	23.1	12	..	..	..	..	..	..
Kiribati, Kanton Isl	2	..	25.3	..	..	..	..	..	..	..	..	..	..	..	..
Wallis Island, Hihifo	27	30.9	24.9	27.9	..	31.7	5	..	..	..	..	..	..	..	..
Maopoopo, Futuna Isla	36	..	25.0	..	..	..	..	..	..	..	..	..	..	..	..
Samoa, Faleolo	4	31.0	23.5	27.3	..	..	..	..	..	..	..	..	..	..	..
Samoa, Apia	1	30.9	24.5	27.7	..	..	..	..	..	..	..	..	..	..	..
Samoa, Pago Pago Aero	3	32.7	26.8	29.8	..	34.0	6	25.1	14	188	24	..	40	7	..
Tonga, Keppel	2	..	24.5	..	..	..	..	..	..	..	..	..	..	..	..
Tonga, Lupepauu	67	29.9	22.4	26.2	..	..	..	..	..	..	..	..	..	..	..
Salote Pilolevu Airpo	2	30.5	24.7	27.6	..	..	..	..	..	..	..	..	..	..	..
Tonga, Fuaamotu Aero	38	30.7	23.9	27.3	..	..	..	..	..	..	..	..	..	..	..
Niue, Hanan Airport	59	30.2	23.2	26.7	..	..	..	..	..	..	..	..	..	..	..
CI Rarotonga Aero	7	30.7	..	..	..	..	..	..	..	..	..	..	..	..	..
Rarotonga EWS	4	30.4	24.4	27.4	..	32.0	18	21.6	23	96	21	..	26	22	..
Hiva Hoa, Atuona	51	32.0	24.1	28.1	..	34.3	13	22.7	24	79	17	..	21	24	..
Tahiti - Faa	1	31.9	25.1	28.5	..	33.8	18	22.6	22	131	18	..	50	6	..
Tuamotu, Takaroa	2	30.8	25.8	28.3	..	31.5	2	22.2	6	159	24	..	47	5	..
Tuamotu, Hereheretue	3	29.5	24.4	27.0	..	..	..	19.9	21	139	18	..	54	28	..

Summary of the records of Temperature, Rainfall and Sunshine February 2009

Station	Height of Station Above M.S.L.	Air Temperature								Rainfall					Bright Sun—shine
		Means of		Mean of A and B	Differ—ence From Normal	Absolute Max and Min				Total Fall	No. of Rain Days	Differ—ence From Normal	Max		
		A Max	B Min			Max	Date	Min	Date				Fall	Date	
Metres	°C	°C	°C	°C	°C	°C	°C	°C	mm	mm	mm	mm	Hrs		
Gambier, Rikitea	91	29.2	24.2	26.7	..	30.5	17	23.1	13	29	19	..	7	19	..
Tubuai	2	29.6	24.6	27.1	..	30.3	16	21.9	9	117	18	..	59	8	..
Rapa	1	28.5	23.6	26.1	..	..	..	21.0	1	202	20	..	76	8	..
Raoul Island AWS	49	27.0	21.4	24.2	..	28.7	27	18.1	18	201	15	..	81	6	..
Enderby Is AWS	40	11.6	6.8	9.2	..	13.8	7	4.1	13	27	17	..	4	8	..
Campbell Island AWS	19	10.0	5.7	7.9	-1.7	12.5	7	3.0	22	66	21	-40	16	8	..
Chatham Islands AWS	48	17.9	11.7	14.8	-0.4	22.4	9	7.7	28	124	17	+65	56	20	..
Chatham Island EWS	14	19.0	11.9	15.5	..	23.7	9	5.5	3	142	11	..	45	20	..
Georg Von Neumayer	40	-6.5	-15.7	-11.1	..	0.1	5	-25.6	22	..	..	..	..	..	..
Ant South Pole	2800	-39.5	-43.6	-41.6	..	-26.3	1	-50.6	28	..	..	..	..	..	..
Halley Bay	30	-8.1	-16.8	-12.5	..	-1.9	9	-23.6	15	..	..	..	..	..	..
Gen Belgrano 2	32	-4.2	-12.3	-8.3	..	1.5	2	-19.6	16	..	..	..	..	..	..
Base Jubany	4	3.7	0.1	1.9	..	6.0	16	-7.0	6	..	..	..	..	..	..
Dinamet	10	3.2	0.7	2.0	..	4.6	5	-3.6	6	..	..	..	..	..	..
V C Marambio	198	0.0	..	..	..	12.0	7	..	..	..	..	..	..	..	..
Eduardo Frei	10	2.4	0.1	1.3	..	3.9	11	-3.0	5	21	13	..	5	17	..
Arturo Prat		3.0	0.3	1.7	..	5.0	6	-3.5	5	..	..	..	..	..	..
Bernado Ohiggins	10	2.1	-1.1	0.5	..	6.2	19	-5.1	5	63	5	..	32	25	..
Rothera Point	16	3.3	-1.1	1.1	..	6.5	10	-5.7	5	..	..	..	..	..	..
Argentine Is, Faraday	11	4.2	-0.3	2.0	..	37.0	22	-9.9	20	..	..	..	..	..	..
Gen San Martin	4	3.4	..	..	..	6.5	9	..	..	..	..	..	..	..	..
King Sejong	11	3.1	0.6	1.9	..	..	..	..	..	..	..	..	..	..	..
Novolax Arevskaja	99	-1.6	-6.6	-4.1	..	4.2	5	..	..	..	..	..	..	..	..
Mawson	16	-0.7	-6.9	-3.8	..	..	..	-13.3	18	..	..	..	..	..	..
Davis	13	0.9	-4.3	-1.7	..	..	..	..	..	..	..	..	..	..	..
Vostok	3420	-36.4	-44.1	-40.3	..	..	..	..	..	..	..	..	..	..	..
Casey	41	0.8	-4.2	-1.7	..	5.2	5	-8.7	24	..	..	..	..	..	..
Durmont Durville	43	-1.2	-6.7	-4.0	..	1.2	19	-11.7	17	..	..	..	..	..	..
Mcmurdo	24	-8.8	-13.9	-11.4	..	1.4	4	-24.4	26	..	..	..	..	..	..
Ant Scott Base	16	-11.0	-17.3	-14.2	..	-0.6	4	-31.7	26	..	..	..	..	..	..
Ant Arrival Heights E	185	-10.8	-16.2	-13.5	..	-1.0	5	-27.6	26	..	..	..	..	..	..
Ant Scott Base EWS	16	-11.4	-17.4	-14.4	..	-1.3	5	-31.3	26	..	..	..	..	..	..
Darwin Airport	31	31.0	21.4	26.2	..	33.0	21	18.1	18	507	26	..	97	6	..
Hobart Airport	4	27.2	11.8	19.5	..	29.4	5	6.5	13	38	13	..	17	23	..

Late returns and corrections for January 2009

Lincoln Rd, Auckland	25	26.1	12.5	19.3	..	28.8	1	7.7	5	..	..	..	..	..	..
Musick Pt Ews, Auckla	18	23.8	14.9	19.4	..	27.6	24	12.2	15	..	..	..	..	..	..
Thames 2	3	25.2	14.0	19.6	-0.1	28.0	9	..	..	39	8	-20	12	3	..
Whakamarama 1	392	22.4	12.8	17.6	+0.7	25.6	26	10.2	4	80	14	-132	28	14	291
Taupo AWS	400	23.9	10.9	17.4	+0.0	28.9	24	3.4	4	15	8	..	8	3	..
Pakuranga, Auckland R	15	24.2	13.9	19.1	..	27.0	3	9.5	5	..	..	..	..	..	..
Penrose EWS	30	25.4	16.4	20.9	..	28.3	1	12.5	7	..	..	..	..	..	..
Te Kuiti EWS	62	25.2	11.8	18.5	..	29.9	25	7.4	4	53	12	..	16	10	276
Wellington Aero	4	21.7	15.3	18.5	+0.7	27.3	31	10.6	4	15	4	-46	10	17	..
Blackball	35	22.4	10.5	16.5	..	..	..	..	..	197	..	..	119	2	..
Wairau Valley, Mill R	172	25.7	10.9	18.3	..	34.3	8	5.3	21	21	5	..	16	17	..
Methven Cws	313	24.4	12.5	18.5	..	32.7	24	6.7	12	35	7	..	14	27	..
Christchurch Aero	37	24.7	12.3	18.5	+1.4	35.7	8	6.9	4	26	6	-17	12	3	281
Hakataramea Valley Cw	355	24.5	9.7	17.1	..	32.7	24	2.4	19	6	7	..	2	26	..
Cromwell EWS	213	25.9	12.7	19.3	..	32.3	24	4.1	3	9	5	..	8	16	234
Lauder EWS	375	23.5	10.2	16.9	..	31.5	24	2.4	28	24	4	..	12	9	..
Stewart Is	3	18.2	10.0	14.1	+0.7	26.5	..	6.0	28	246	..	+94	52	8	..
Balclutha, Finegand	6	22.2	9.8	16.0	+1.0	29.0	25	-5.0	19	62	15	-9	16	7	147
Balclutha, Telford Ew	11	20.6	9.2	14.9	..	27.4	25	2.9	3	65	18	..	17	17	200
New Cal, La Roche	42	..	22.7	..	..	..	..	..	..	215	..	..	..	..	..
Pitcairn Is	264	24.0	18.2	21.1	..	26.2	..	..	..	574	..	..	184	19	131
Ant Scott Base EWS	16	-1.6	-8.0	-4.8	..	3.0	6	-13.6	19	..	..	..	..	..	..

Late returns and corrections for December 2008

North Shore, Auckland	20	22.4	13.5	18.0	..	26.9	31	9.8	7	..	..	..	..	..	..
Lincoln Rd, Auckland	25	23.9	11.3	17.6	..	27.9	20	7.5	26	..	..	..	..	..	..
Musick Pt Ews, Auckla	18	21.7	13.6	17.7	..	25.2	31	10.5	24	..	..	..	..	..	..

Summary of the records of Temperature, Rainfall and Sunshine — Late returns

Station	Height of Station Above M.S.L.	Air Temperature								Rainfall					Bright Sun—shine Hrs
		Means of		Mean of A and B	Differ—ence From Normal	Absolute Max and Min				Total Fall	No. of Rain Days	Differ—ence From Normal	Max		
		A Max	B Min			Max	Date	Min	Date				Fall	Date	
Metres	°C	°C	°C	°C	°C	°C	°C	°C	mm	mm	mm	mm	mm	mm	
Taupo AWS	400	20.9	10.9	15.9	+0.2	25.2	28	2.4	23	95	12	..	20	23	..
Motu EWS	488	18.2	8.8	13.5	..	23.2	10	3.4	18	91	18	..	17	15	..
Pakuranga, Auckland R	15	22.4	12.9	17.7	..	..	..	..	..	..	..	..	..	..	..
Penrose EWS	30	23.4	14.6	19.0	..	27.3	31	11.7	26	..	..	..	..	..	..
Te Kuiti EWS	62	22.7	12.0	17.4	..	26.2	23	5.7	6	126	14	..	51	23	199
Wellington Aero	4	20.4	13.8	17.1	+0.7	26.6	29	7.9	14	104	12	+36	37	20	..
Wairau Valley, Mill R	172	21.6	11.1	16.4	..	29.5	30	6.3	6	139	14	..	59	20	..
Christchurch Aero	37	20.8	10.9	15.9	+0.1	30.5	31	3.4	22	45	13	-2	17	20	231
Hakataramea Valley Cw	355	19.6	8.1	13.9	..	28.4	29	3.2	7	87	10	..	24	20	..
Orari Estate Cws	81	18.9	10.1	14.5	..	28.5	28	5.0	22	81	17	..	23	16	..
Stewart Is	3	16.4	9.0	12.7	+0.4	27.0	29	2.0	13	63	..	-56	12	5	..
Pitcairn Is	264	23.9	17.7	20.8	..	27.0	2	15.7	5	111	..	..	38	15	215
Ant Scott Base EWS	16	-1.2	-8.0	-4.6	..	3.4	25	-15.1	4	..	..	..	..	..	..
Late returns and corrections for November 2008															
Leigh 2	27	19.7	13.8	16.8	+0.7	27.0	25	9.4	8	58	13	-16	19	24	..
North Shore, Auckland	20	20.4	12.1	16.3	..	24.2	29	5.7	21	..	..	..	..	..	..
Lincoln Rd, Auckland	25	21.9	10.6	16.3	..	27.4	30	..	..	..	..	..	..	..	..
Musick Pt Ews, Auckla	18	19.6	12.0	15.8	..	24.5	25	8.4	8	..	..	..	..	..	..
Taupo AWS	400	19.1	7.8	13.5	+0.1	25.9	14	-1.7	8	34	10	..	10	14	..
Pakuranga, Auckland R	15	21.6	11.7	16.7	..	..	..	..	..	..	..	..	..	..	..
Penrose EWS	30	21.7	13.3	17.5	..	26.5	30	7.9	21	..	..	..	..	..	..
Wellington Aero	4	18.1	12.0	15.1	+0.7	25.3	24	5.6	8	53	11	-26	23	24	..
Wairau Valley, Mill R	172	19.2	8.3	13.8	..	27.8	29	-0.3	8	135	12	..	78	24	..
Christchurch Aero	37	20.4	8.1	14.3	+0.8	31.0	15	-2.6	6	10	7	-36	3	4	268
Hakataramea Valley Cw	355	20.2	5.7	13.0	..	28.7	15	-1.9	8	10	6	..	4	6	..
Stewart Is	3	15.5	7.0	11.3	+0.5	23.2	..	..	..	64	..	-54	..	..	..
Pitcairn Is	264	23.7	17.6	20.7	..	24.9	17	15.9	5	132	..	..	73	4	218
Ant Scott Base EWS	16	-9.4	-18.6	-14.0	..	-2.3	30	-26.5	1	..	..	..	..	..	..
Late returns and corrections for October 2008															
Leigh 2	27	18.6	12.3	15.5	+0.9	23.5	25	..	..	101	19	+14	25	7	..
North Shore, Auckland	20	18.4	10.3	14.4	..	21.3	7	6.3	27	..	..	..	..	..	..
Musick Pt Ews, Auckla	18	18.0	10.4	14.2	..	22.3	15	7.7	1	..	..	..	..	..	..
Taupo AWS	400	15.6	7.3	11.5	+0.0	18.9	13	-0.8	1	106	14	..	28	24	..
Pakuranga, Auckland R	15	18.9	9.9	14.4	..	..	..	..	..	..	..	..	..	..	..
Penrose EWS	30	19.3	11.4	15.4	..	22.7	7	7.1	27	..	..	..	..	..	..
Wellington Aero	4	16.2	9.8	13.0	+0.1	18.6	18	4.1	10	55	13	-39	20	22	..
Wairau Valley, Mill R	172	17.6	6.6	12.1	..	..	..	..	..	..	..	..	..	..	..
Christchurch Aero	37	17.5	4.1	10.8	-0.9	25.8	4	-3.0	10	31	9	-18	17	25	244
Lauder EWS	375	15.9	3.0	9.5	..	22.6	27	-1.9	19	15	5	..	8	6	..
Pitcairn Is	264	22.5	16.2	19.4	..	..	..	13.1	..	92	..	..	35	16	247
Ant Scott Base EWS	16	-15.1	-24.6	-19.9	..	-8.6	24	-34.7	14	..	..	..	..	..	..
Late returns and corrections for September 2008															
Leigh 2	27	17.6	11.3	14.5	+1.2	23.0	9	8.2	6	29	19	-76	6	7	..
Taupo AWS	400	14.5	4.6	9.6	+0.4	17.6	20	-1.8	29	73	16	..	23	9	..
Wellington Aero	4	14.5	9.4	12.0	+0.7	17.6	25	1.3	7	78	13	+0	13	8	..
Christchurch Aero	37	15.2	4.1	9.7	+0.4	24.2	23	-1.6	29	34	8	-12	13	4	152
Pitcairn Is	264	20.1	14.7	17.4	..	23.2	29	12.4	..	79	..	..	..	..	162
Ant Scott Base EWS	16	-16.2	-28.5	-22.4	..	-8.2	12	-48.1	4	..	..	..	..	..	..
Late returns and corrections for August 2008															
Leigh 2	27	15.1	9.9	12.5	+0.0	18.0	28	4.0	10	132	26	+11	13	23	..
Taupo AWS	400	11.4	3.7	7.6	+0.4	14.7	27	-4.2	20	137	18	..	24	24	..
Ruakura 2 EWS	45	14.3	5.3	9.8	..	17.8	25	-3.0	10	173	21	..	22	11	145
Wellington Aero	4	12.4	7.3	9.9	+0.0	15.3	31	1.8	21	158	19	+58	35	2	..
Christchurch Aero	37	10.8	1.2	6.0	-1.0	18.4	22	-4.3	11	98	15	+32	33	24	150
Ant Scott Base EWS	16	-30.2	-43.0	-36.6	..	-15.0	2	-52.2	23	..	..	..	..	..	..
Late returns and corrections for July 2008															
Taupo AWS	400	11.0	3.3	7.2	+0.5	13.9	19	-3.3	8	140	21	..	34	30	..
Wellington Aero	4	12.7	7.4	10.1	+0.6	15.4	21	0.4	7	193	24	+80	25	30	..

Summary of the records of Temperature, Rainfall and Sunshine — Late returns

Station	Height of Station Above M.S.L.	Air Temperature								Rainfall					Bright Sun—shine Hrs
		Means of		Mean of A and B	Differ—ence From Normal	Absolute Max and Min				Total Fall	No. of Rain Days	Differ—ence From Normal	Max		
		A Max	B Min			Max	Date	Min	Date				Fall	Date	
Metres	°C	°C	°C	°C	°C		°C		mm		mm	mm			
Christchurch Aero	37	10.6	2.3	6.5	+0.7	18.3	11	-4.4	1	165	22	+93	52	30	97
Late returns and corrections for June 2008															
Warkworth EWS	72	15.5	8.8	12.2	..	18.3	15	0.3	5	237	20	+59	54	16	..
Taupo AWS	400	11.5	3.6	7.6	+0.3	15.9	16	-4.0	5	84	14	..	20	27	..
Te Kuiti EWS	62	14.6	5.1	9.9	..	..	..	..	..	89	19	..	25	16	..
Wellington Aero	4	13.7	8.5	11.1	+0.9	17.0	15	3.6	11	85	14	-26	22	28	..
Christchurch Aero	37	12.2	1.3	6.8	+0.6	19.2	15	-4.1	19	89	16	+27	45	28	114
Late returns and corrections for May 2008															
Taupo AWS	400	13.2	2.3	7.8	-1.6	15.6	1	-2.6	13	62	10	..	27	4	..
East Taratahi AWS	91	14.1	3.3	8.7	-1.3	18.3	8	-2.4	31	120	22	..	53	9	..
Martinborough EWS	20	14.3	3.3	8.8	..	17.6	10	-2.1	31	67	17	..	25	9	129
Wellington, Kelburn A	125	13.2	7.5	10.4	..	17.0	9	4.0	3	103	15	..	20	2	..
Wellington Aero	4	14.0	8.0	11.0	-1.2	17.3	21	3.8	31	55	14	-36	8	24	..
Christchurch Aero	37	12.7	1.5	7.1	-1.8	19.4	8	-3.6	6	50	14	-2	24	2	153
Late returns and corrections for April 2008															
Kerikeri EWS	79	21.2	12.7	17.0	+0.5	24.0	15	8.2	11	259	17	+133	114	29	..
Taupo AWS	400	17.7	8.0	12.9	+0.5	20.8	17	-1.2	20	156	10	..	101	15	..
East Taratahi AWS	91	18.6	7.6	13.1	+0.0	24.6	1	1.0	21	98	19	..	29	29	..
Wellington, Kelburn A	125	17.6	11.2	14.4	..	20.6	1	6.6	20	210	17	..	94	30	..
Wellington Aero	4	17.8	11.7	14.8	+0.3	22.5	1	7.7	19	165	13	+82	73	30	..
Christchurch Aero	37	17.4	6.7	12.1	+0.0	25.6	1	-0.1	23	28	12	-23	8	1	160
Late returns and corrections for March 2008															
Warkworth EWS	72	22.7	14.1	18.4	..	24.4	11	9.6	23	56	13	-54	23	4	..
Taupo AWS	400	22.0	11.0	16.5	+1.2	27.0	18	4.4	16	52	6	..	25	31	..
East Taratahi AWS	91	23.0	10.4	16.7	+0.9	29.4	21	3.2	11	63	17	..	19	30	..
Martinborough EWS	20	23.0	11.4	17.2	..	28.4	18	6.2	6	42	5	..	19	30	206
Wellington, Kelburn A	125	20.1	13.8	17.0	..	23.4	18	11.1	10	170	12	..	80	29	..
Wellington Aero	4	20.5	14.7	17.6	+1.0	24.2	15	10.6	25	100	9	+25	42	1	..
Christchurch Aero	37	20.6	9.5	15.1	+0.0	27.1	27	3.5	24	20	6	-36	11	2	195
Manapouri, West Arm J	178	18.2	7.5	12.9	..	25.9	18	1.0	10	199	19	..	49	1	..
Late returns and corrections for February 2008															
Taupo AWS	400	22.7	11.7	17.2	-0.2	27.2	4	4.7	7	32	8	..	21	4	..
East Taratahi AWS	91	25.4	11.1	18.3	+0.7	30.7	1	2.9	7	22	8	..	9	12	..
Wellington, Kelburn A	125	21.3	14.0	17.7	..	26.0	23	8.4	7	54	10	..	24	10	..
Wellington Aero	4	22.1	15.0	18.6	+0.7	25.1	10	9.2	7	52	9	+0	28	10	..
Christchurch Aero	37	21.8	12.0	16.9	+0.1	33.6	1	5.4	6	122	10	+81	50	11	204
Late returns and corrections for January 2008															
Warkworth EWS	72	23.8	15.3	19.6	..	27.2	30	9.5	13	32	6	-60	22	8	..
Taupo AWS	400	24.5	12.5	18.5	+1.1	29.0	16	6.0	28	15	4	..	8	8	..
East Taratahi AWS	91	25.9	12.1	19.0	+1.5	32.6	22	2.6	1	13	13	..	5	7	..
Wellington, Kelburn A	125	21.5	14.2	17.9	..	29.2	21	7.2	1	33	6	..	21	7	..
Wellington Aero	4	22.3	15.3	18.8	+1.0	28.3	22	7.2	1	17	6	-44	10	7	..
Christchurch Aero	37	23.5	12.2	17.9	+0.8	34.2	12	3.5	11	13	8	-30	7	22	267

The 'Normal' refers to the present site of the instruments. Standard period for normals is 1971-2000.
No normals are available for stations with only short records.
A rain day is a day with rainfall equal to or greater than 0.1 mm.
Where the extremes of temperature and rainfall occurred more than once during the month,
the date of the first is given.

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