

MARCH 2009

Summary of the records of Temperature, Rainfall and Sunshine March 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			°C	°C	°C	Date				Min	Date	
	Metres	°C	°C	°C	°C	°C	°C	°C	°C	mm		mm	mm	Hrs	
Cape Reinga AWS	214	21.7	16.2	19.0	..	23.6	6	13.9	25	49	10	-16	19	4	..
Kaitaia Aero EWS	80	23.2	14.1	18.7	..	26.0	6	8.8	25	30	9	..	21	5	..
Kaitaia Observatory	85	23.2	13.6	18.4	..	26.6	6	8.5	25	46	10	-30	28	5	259
Kaitaia EWS	85	22.0	12.7	17.4	-1.5	25.3	6	7.3	25	50	8	..	32	5	268
Kerikeri EWS	79	23.6	12.8	18.2	-0.2	27.8	6	7.7	25	63	7	-60	47	5	..
Kaikohe AWS	204	22.7	13.8	18.3	+0.4	26.9	6	9.0	26	119	13	+12	76	5	..
Dargaville 2 EWS	66	21.4	13.1	17.3	..	27.2	6	7.4	24	30	11	..	18	5	232
Purerua AWS	82	22.2	14.3	18.3	..	24.7	19	10.0	24	33	6	..	27	5	..
Whangarei Aero AWS	37	22.9	14.1	18.5	-0.4	28.6	6	9.1	25	124	15	-3	79	5	..
Mokohinau AWS	60	21.6	17.4	19.5	..	24.6	18	15.0	12	24	12	-71	11	5	..
Warkworth EWS	72	21.9	12.3	17.1	..	25.3	6	6.1	24	83	12	-27	46	5	..
Whangaparaoa AWS	89	21.9	15.3	18.6	..	25.7	1	12.4	12	35	12	..	24	5	..
Arc Kumeu EWS	16	21.9	11.6	16.8	..	25.7	6	4.4	25	40	8	..	25	5	..
Whenuapai AWS	26	22.2	12.6	17.4	..	25.8	1	5.3	25	..	..	..	..	..	..
North Shore, Auckland	20	20.9	12.2	16.6	..	25.2	7	7.8	24	..	..	..	..	..	..
Henderson, River Pk	7	23.6	12.5	18.1	-0.3	26.8	18	6.2	25	57	10	-43	31	5	..
Henderson, Auckland R	35	20.6	12.9	16.8	..	24.5	1	7.3	25	..	..	..	..	..	..
Lincoln Rd, Auckland	25	24.3	11.5	17.9	..	27.8	1	6.2	25	..	..	..	..	..	..
Khyber Pass, Auckland	81	22.0	15.7	18.9	..	25.5	1	11.9	24	50	11	..	22	5	..
Musick Pt Ews, Auckla	18	22.4	14.0	18.2	..	26.7	1	9.7	24	..	..	..	..	..	..
Onehunga, Auckland Re	5	21.6	15.1	18.4	-0.2	25.3	1	10.1	25	..	..	..	..	..	..
Waiheke Island, Awaro	34	22.7	12.0	17.4	..	29.0	2	6.0	27	47	6	-49	27	5	..
Whitianga Aero AWS	5	22.3	12.7	17.5	-0.1	26.9	3	6.0	24	104	17	-59	46	5	..
Thames 2	3	23.1	13.2	18.2	-0.3	27.0	3	6.0	24	20	10	-81	8	5	241
Paeroa AWS	18	22.9	11.8	17.4	-0.6	26.7	3	3.9	24	27	11	-80	11	5	..
Toenepi EWS	48	22.5	10.9	16.7	..	27.2	3	4.1	25	..	..	..	..	..	..
Tauranga Aero	..	..	..	..	..	..	..	..	..	..	..	..	..	..	234
Tauranga Aero AWS	4	22.7	13.5	18.1	+0.2	26.8	3	7.6	24	130	10	+4	71	17	..
Te Puke EWS	91	22.0	11.0	16.5	..	26.7	3	5.2	12	325	11	+169	147	6	..
Whakatane Aero AWS	7	22.0	11.3	16.7	-0.9	27.7	3	4.0	25	89	10	-17	33	6	..
Whakatane Sunshine	7	..	..	..	..	..	..	..	..	..	..	..	..	..	271
White Island	310	20.8	14.5	17.7	..	..	..	..	..	..	..	..	..	..	..
Kawerau AWS	42	23.9	12.3	18.1	..	..	..	..	..	..	..	..	..	..	219
Rotorua Aero 2	281	..	..	..	..	..	..	..	..	..	..	..	..	..	233
Rotorua Aero AWS	283	20.5	10.0	15.3	-0.8	25.4	3	3.0	25	52	9	-59	18	6	..
Tarapounamu EWS	701	15.4	6.7	11.1	..	20.2	26	0.1	12	49	14	..	15	7	..
Taupo AWS	400	19.9	8.8	14.4	-0.9	23.6	3	-0.1	25	18	10	..	6	7	..
Opotiki	5	22.5	10.9	16.7	-0.9	28.1	3	2.5	12	69	8	-67	24	21	..
Motu EWS	488	18.5	7.2	12.9	..	23.3	26	-0.9	12	44	13	..	12	21	..
Mangere EWS	5	21.0	13.7	17.4	..	24.7	7	8.1	25	40	11	..	27	5	239
Wiri, Auckland Region	18	21.3	14.1	17.7	-0.5	25.0	18	8.2	25	..	..	..	..	..	..
Pakuranga, Auckland R	15	21.8	11.4	16.6	..	25.1	1	5.6	24	..	..	..	..	..	..
Penrose EWS	30	23.9	14.7	19.3	..	28.6	13	9.7	27	..	..	..	..	..	..
Auckland Aero	33	21.8	14.5	18.2	-0.5	25.7	1	9.0	24	35	11	-47	21	5	..
Ardmore	23	23.8	10.6	17.2	-0.6	26.2	8	3.0	24	40	9	-51	25	5	..
Pukekohe EWS	88	21.6	12.0	16.8	-1.0	25.4	18	7.1	24	31	12	..	11	5	..
Ruakura 2 EWS	45	22.1	10.4	16.3	..	26.3	3	3.2	24	32	10	..	17	5	212
Hamilton AWS	53	22.4	10.5	16.5	-0.4	27.0	3	4.0	24	27	10	-64	14	5	..
Port Taharoa AWS	27	21.8	13.9	17.9	-0.6	24.8	4	7.9	12	10	4	..	7	1	..
Waikeria	46	23.0	10.0	16.5	-0.4	27.8	3	2.2	25	18	3	-67	13	5	..
Te Kuiti EWS	62	22.6	10.1	16.4	..	27.6	3	3.0	25	28	12	..	9	5	223
Taumarunui	171	20.8	9.0	14.9	-1.5	25.2	4	1.8	25	34	14	-61	8	6	..
Taumarunui AWS	195	21.8	7.9	14.9	..	27.0	3	-1.0	25	33	12	..	6	1	213
Turangi 2 EWS	350	20.5	7.3	13.9	..	24.7	3	-1.4	25	80	7	..	33	6	225
New Plymouth Aero	27	..	..	..	..	..	..	..	..	..	..	..	..	..	232
New Plymouth AWS	30	21.0	11.3	16.2	-0.5	24.1	3	3.5	12	35	10	-74	8	18	..
Mt Ruapehu, Chateau E	1097	15.3	5.0	10.2	-0.6	22.2	4	-0.6	24	73	14	-117	18	18	..
Alfredton EWS	240	20.1	9.2	14.7	..	24.2	18	-0.2	12	18	14	..	4	20	..
Masterton Aero AWS	138	20.6	8.4	14.5	..	25.7	18	1.9	12	39	14	..	10	21	..
Kopua	311	19.2	9.3	14.3	-0.8	24.6	18	1.4	12	42	13	-51	13	11	..
Takapau Plains AWS	330	18.4	8.4	13.4	..	24.6	18	0.0	12	47	21	..	11	10	..
Dannevirke EWS	207	17.7	8.4	13.1	..	23.6	7	-0.4	12	32	14	..	9	10	197
Waione EWS	48	21.5	9.6	15.6	..	27.8	7	1.5	25	35	18	..	7	11	..

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		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		
Castlepoint Station	9	..	..	..	..	25.5	2	6.5	25	44	..	-42	..	..	..
Castlepoint AWS	120	18.4	12.6	15.5	-1.6	23.8	7	6.6	23	45	10	..	8	23	..
Baring Head	79	17.8	12.3	15.1	..	22.9	4	6.6	12	9	7	..	3	6	..
East Taratahi AWS	91	21.2	8.6	14.9	-0.9	26.7	18	1.9	12	35	8	..	10	21	..
Te Wharau, Brackenfie	292	18.9	8.2	13.6	..	25.1	6	2.0	25	50	13	..	12	23	..
Martinborough EWS	20	20.1	8.3	14.2	..	24.9	6	2.1	25	29	8	..	12	21	196
Ngawi AWS	6	19.9	13.0	16.5	..	26.6	6	6.5	12	30	11	..	6	2	..
Hicks Bay AWS	46	20.7	14.1	17.4	-0.7	24.8	1	8.0	12	50	11	..	11	6	..
Gisborne Aero	4	..	..	..	..	..	..	..	..	..	..	..	..	..	224
Gisborne AWS	5	22.1	11.7	16.9	-0.5	28.5	1	3.8	12	62	15	-40	19	16	..
Napier Aero AWS	3	21.2	10.9	16.1	-1.0	28.0	1	4.1	25	20	12	-65	5	5	..
Napier Nelson Pk	2	22.4	10.9	16.7	-1.0	29.9	1	4.4	25	32	13	-53	10	7	223
Hastings AWS	16	22.3	9.9	16.1	..	30.5	1	3.0	25	25	11	..	6	5	..
Whakatu EWS	5	21.7	8.9	15.3	..	29.5	1	2.4	25	24	9	..	7	7	..
Waipawa EWS	130	20.5	7.8	14.2	..	27.0	1	0.8	25	45	14	..	16	7	217
Wairoa, North Clyde E	15	22.0	10.4	16.2	-1.2	28.4	7	3.9	12	54	12	-82	15	31	..
Mahia AWS	136	19.5	13.2	16.4	-0.8	26.5	1	8.0	12	71	14	..	18	16	..
Paraparaumu Aero	5	19.8	11.1	15.5	-0.5	24.5	6	4.0	12	26	9	-49	10	18	213
Paraparaumu Aero AWS	5	19.5	11.0	15.3	-0.8	24.3	6	4.3	12	23	9	..	9	18	..
Palmerston North AWS	39	20.3	10.5	15.4	-0.9	25.8	6	3.1	12	11	6	-56	5	2	..
Palmerston North EWS	21	20.1	10.7	15.4	..	26.3	6	2.2	12	15	11	..	4	2	164
Levin AWS	14	20.3	10.6	15.5	-0.8	25.1	4	3.0	12	20	10	..	6	18	..
Mana Island	2	19.7	12.8	16.3	-0.4	23.2	6	7.2	23	23	..	..	10	6	..
Mana Island AWS	100	16.9	12.1	14.5	..	21.5	6	7.5	23	22	8	..	10	6	..
Wellington,Kelburn	125	..	..	..	..	..	..	..	..	..	..	..	..	..	218
Wellington, Kelburn A	125	18.7	11.9	15.3	..	24.0	6	6.6	12	54	16	..	13	6	..
Wellington Aero	4	19.3	12.9	16.1	-0.5	23.6	4	7.5	15	20	9	-55	7	6	..
Wallaceville EWS	56	20.4	8.9	14.7	..	25.5	4	2.0	25	30	9	-63	10	18	179
Stratford EWS	300	19.0	9.2	14.1	..	23.0	17	3.3	12	44	11	..	10	5	208
Hawera AWS	98	19.0	10.6	14.8	..	23.4	6	4.4	12	30	12	..	11	10	..
Ohakune EWS	607	18.4	7.1	12.8	..	23.8	4	0.4	25	26	9	..	8	11	201
Waiouru	806	16.8	5.6	11.2	-1.2	22.8	4	-1.2	25	48	14	-24	15	5	..
Waiouru AWS	820	16.7	5.5	11.1	..	23.1	4	-1.1	25	44	13	-30	13	5	..
Taihape Rec	433	20.0	7.0	13.5	-1.2	26.0	4	..	..	40	16	-33	12	5	..
Wanganui,Spriggens Pa	15	20.9	12.0	16.5	-0.6	25.8	18	7.5	15	29	10	-40	9	1	..
Wanganui AWS	8	20.3	12.0	16.2	-0.6	25.0	6	7.1	15	28	11	..	8	1	..
Wanganui 2 AWS	18	21.7	11.6	16.7	..	..	..	..	..	..	..	..	..	..	..
Takaka,Kotinga 2	25	20.9	8.7	14.8	-0.6	25.7	2	4.3	21	112	10	-36	66	5	..
Takaka EWS	20	21.0	9.3	15.2	..	26.0	2	5.8	24	72	8	..	42	5	238
Farewell Spit AWS	3	20.1	12.8	16.5	-0.2	22.5	2	9.0	12	27	6	..	15	5	..
Westport Aero AWS	4	18.8	11.0	14.9	-0.6	22.3	5	7.0	12	100	14	-67	19	6	..
Arapito	18	19.5	9.8	14.7	-1.0	25.0	6	5.8	24	99	13	-74	19	18	202
Arapito EWS	18	19.3	9.2	14.3	..	24.8	6	5.1	24	90	14	..	18	18	..
Murchison EWS	185	21.4	7.6	14.5	..	26.8	4	0.8	23	42	13	-48	8	10	..
Lake Rotoiti EWS	634	19.3	5.5	12.4	..	24.8	4	-0.2	24	37	12	..	15	10	..
Hokitika Aero	39	18.2	9.9	14.1	-0.6	23.0	4	4.6	23	153	11	-64	40	18	197
Hokitika AWS	38	18.3	9.8	14.1	-0.6	23.0	4	4.4	23	154	12	..	40	18	..
Reefton EWS	198	20.4	8.4	14.4	-0.5	25.5	4	3.9	23	80	13	-43	28	10	182
Greymouth Aero	4	18.7	10.3	14.5	-0.6	23.1	5	7.0	24	117	14	-69	21	6	183
Greymouth Aero EWS	5	18.2	10.4	14.3	..	22.7	4	7.0	24	111	14	..	20	6	212
Okarito	2	18.5	9.5	14.0	..	..	..	6.1	12	153	12	-97	37	18	..
Franz Josef EWS	80	17.6	7.8	12.7	..	22.5	5	2.7	11	231	10	..	47	27	183
Haast AWS	5	17.8	9.2	13.5	-0.6	21.7	5	3.6	11	249	17	..	84	6	..
Milford Sound	3	18.0	9.3	13.7	+0.2	23.4	5	5.7	23	514	16	-129	108	26	..
Milford Sound AWS	3	18.8	9.1	14.0	..	..	..	..	..	392	16	..	75	26	..
Secretary Island AWS	19	17.1	11.5	14.3	..	20.9	5	7.7	11	324	20	..	78	26	..
Puysgur Point AWS	44	16.0	11.1	13.6	+0.5	24.9	5	6.9	11	178	20	-14	31	7	..
Motueka, Riwaka EWS	8	21.0	8.6	14.8	-0.9	25.6	2	3.9	24	65	6	-39	51	5	..
Pelorus Sd, Crail Bay	13	..	..	..	..	23.5	..	6.4	12	31	..	-102	13	18	..
Nelson Aero	2	20.8	10.5	15.7	-0.3	25.6	2	6.0	23	28	6	-49	11	5	263
Appleby 2 EWS	18	22.0	9.7	15.9	..	26.1	2	2.7	24	32	6	..	20	5	257
Nelson AWS	4	21.1	10.8	16.0	-0.4	25.1	2	6.0	24	29	6	..	12	5	..
Blenheim Research EWS	4	21.6	9.7	15.7	-0.5	26.6	8	3.2	12	10	5	-40	4	22	239

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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		
Blenheim Aero AWS	35	21.7	8.0	14.9	-1.0	26.9	4	1.6	23	12	5	-44	6	22	..
Brothers Island AWS	68	18.3	13.7	16.0	..	21.7	17	10.0	12	13	6	..	4	22	..
Awatere Valley, Dashw	83	20.5	8.0	14.3	..	26.1	8	0.7	24	2	4	..	1	5	..
Grassmere Salt Works	2	18.4	8.7	13.6	-2.9	24.7	2	3.2	12	4	4	-52	1	22	..
Cape Campbell AWS	2	17.6	12.8	15.2	..	22.0	7	8.8	23	6	5	..	2	31	..
Boyle River Lodge	600	20.0	6.1	13.1	..	26.0	..	..	..	50	..	..	15	10	..
Hanmer Forest EWS	363	21.7	4.8	13.3	-0.6	30.4	6	-2.6	24	11	6	-86	4	31	..
Kaikoura AWS	105	18.2	11.7	15.0	-0.2	26.8	1	6.0	12	14	8	-76	3	12	..
Arthurs Pass	738	15.4	6.2	10.8	-0.2	..	..	..	..	..	..	..	..	..	..
Arthurs Pass EWS	738	15.3	6.1	10.7	..	20.7	16	0.1	24	205	11	..	41	5	..
Culverden	178	22.7	5.9	14.3	..	..	..	..	..	9	3	-44	6	1	..
Waiiau School Cws	136	21.9	7.6	14.8	..	28.4	25	0.2	24	11	5	..	9	31	..
Cheviot EWS	75	20.6	6.5	13.6	..	28.6	25	-0.5	24	17	5	..	10	10	212
Mt Cook EWS	765	18.2	7.3	12.8	+0.3	24.8	4	1.2	22	198	11	-217	44	27	172
Snowdon EWS	560	18.8	7.6	13.2	..	25.8	25	1.6	23	28	12	..	8	21	..
Methven Cws	313	19.4	9.2	14.3	..	27.2	4	3.7	24	27	12	..	9	8	..
Winchmore EWS	160	20.1	8.0	14.1	-0.2	27.4	29	0.7	24	18	10	-49	5	10	..
Peel Forest	286	19.6	6.3	13.0	-0.4	26.0	29	1.0	22	52	12	-54	22	8	..
Ashburton Council	101	21.0	8.1	14.6	-0.4	28.3	29	2.5	24	25	12	-39	10	8	..
Ashburton Aero AWS	89	20.1	8.0	14.1	..	27.9	29	1.1	24	26	11	..	8	8	200
Waipara West EWS	130	21.0	9.6	15.3	..	28.7	4	2.9	24	24	10	..	7	31	223
Rangiora EWS	23	20.1	8.2	14.2	-0.5	27.7	6	2.8	25	24	12	..	5	11	178
Darfield EWS	190	20.2	9.6	14.9	..	27.8	25	2.7	24	14	7	..	4	8	..
Christchurch Aero	37	20.0	8.3	14.2	-0.9	27.0	7	2.2	24	15	9	-41	4	8	204
Christchurch Gardens	7	20.3	9.9	15.1	-0.4	28.0	8	3.3	24	23	9	-31	6	21	..
Christchurch, Kyle St	6	20.4	8.7	14.6	..	28.2	7	1.7	24	22	9	..	6	21	..
Lincoln, Broadfield E	18	20.0	9.2	14.6	-0.4	28.0	7	1.5	24	35	10	..	19	10	..
Sugar Loaf AWS	618	17.4	9.4	13.4	..	..	..	..	..	..	..	..	..	..	..
Lyttelton Harbour	5	19.8	12.7	16.3	..	..	..	..	..	..	..	..	..	..	..
Akaroa EWS	45	20.7	10.3	15.5	..	29.4	6	5.9	12	39	11	..	25	10	210
Le Bons Bay AWS	236	17.2	10.6	13.9	-0.4	23.5	7	5.2	11	25	11	..	13	10	..
Lake Tekapo, Air Safa	762	19.3	5.3	12.3	-0.4	25.1	29	-0.4	23	8	5	-44	6	18	..
Lake Tekapo EWS	762	19.7	5.9	12.8	..	25.4	4	-1.2	23	6	2	..	6	18	256
Pukaki Aerodrome AWS	473	21.4	5.3	13.4	..	26.5	5	-2.2	22	5	6	..	3	18	..
Hakataramea Valley Cw	355	20.5	6.9	13.7	..	26.9	29	-2.8	22	2	7	..	0	2	..
Woodbury	195	21.2	7.6	14.4	..	..	..	..	..	..	..	..	..	..	..
Orari Estate Cws	81	19.4	8.0	13.7	..	25.8	29	2.3	24	23	9	..	13	8	..
Timaru Aero AWS	26	19.7	7.6	13.7	-0.1	26.1	1	0.5	22	13	8	-45	3	8	..
Timaru EWS	17	18.6	9.7	14.2	..	24.6	1	3.4	24	11	7	..	3	2	210
Oamaru Airport AWS	30	18.0	8.7	13.4	..	24.2	29	2.3	24	15	9	..	5	10	..
Albert Burn	1280	12.6	3.8	8.2	..	18.8	24	-1.3	22	162	13	..	40	18	..
Tara Hills AWS	488	20.5	6.2	13.4	+0.0	25.9	25	-2.3	22	6	5	-42	2	5	..
Wanaka Aero AWS	352	20.2	8.1	14.2	..	24.3	5	0.6	23	16	5	..	7	27	..
Naseby Forest 2	607	19.0	5.4	12.2	+0.3	26.8	4	-2.3	..	19	7	-36	7	10	..
Windsor EWS	81	17.4	7.8	12.6	..	25.8	29	0.6	23	29	10	..	19	26	..
Ranfurly EWS	450	18.9	5.4	12.2	..	26.2	4	-3.0	23	10	8	..	5	10	..
Oamaru AWS	40	18.4	8.8	13.6	..	25.3	29	3.0	23	20	12	..	4	30	..
Palmerston	21	18.7	7.0	12.9	-0.2	27.2	29	2.4	28	28	10	-33	12	10	166
Middlemarch EWS	213	19.4	6.5	13.0	..	28.3	4	-2.0	23	51	9	..	39	8	165
Swampy Summit AWS	722	14.6	6.0	10.3	..	..	..	..	..	..	..	..	..	..	..
Dunedin Aero AWS	1	19.3	7.2	13.3	+0.2	29.8	4	3.0	4	47	13	-12	17	10	..
Dunedin, Musselburgh	4	17.2	9.6	13.4	-0.4	26.7	29	4.1	11	59	15	-11	16	10	166
Manapouri, West Arm J	178	16.5	7.6	12.1	..	24.6	5	2.6	24	227	18	..	34	27	..
Manapouri Aero AWS	209	17.9	7.3	12.6	..	24.8	5	-1.2	22	56	12	..	13	27	..
Queenstown	329	20.1	8.7	14.4	+0.0	..	..	2.1	22	49	10	-31	18	27	181
Queenstown Aero AWS	354	19.1	7.0	13.1	+0.1	24.9	5	-1.3	22	24	9	-42	9	27	..
Lumsden AWS	187	17.6	7.2	12.4	-0.2	25.9	5	0.1	23	78	17	..	25	10	..
Cromwell EWS	213	21.9	8.7	15.3	..	26.2	15	1.0	23	7	6	..	2	10	228
Lauder EWS	375	19.8	7.1	13.5	..	26.1	4	-2.0	23	4	4	..	2	10	..
Ophir 2	305	20.1	5.4	12.8	..	25.3	4	-3.6	23	7	6	..	4	10	..
Alexandra	150	22.0	7.0	14.5	..	29.2	4	-1.3	23	9	7	..	4	10	205
Clyde EWS	171	20.7	6.9	13.8	-0.4	27.5	4	-1.4	23	5	3	..	4	10	..
Alexandra Cws	140	20.9	8.0	14.5	..	27.7	4	-0.1	23	16	11	..	8	10	..

Summary of the records of Temperature, Rainfall and Sunshine March 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		
Ettrick No.2	91	19.5	6.5	13.0	-0.5	27.2	4	-1.0	23	51	7	..	32	10	..
Tapanui	180	19.4	7.0	13.2	+0.5	..	..	..	..	100	..	+18	..	..	..
Winton	44	18.5	7.8	13.2	+0.5	28.2	5	0.6	23	91	13	+6	28	10	156
Gore AWS	123	16.7	8.1	12.4	-0.2	25.6	5	2.5	23	62	15	-20	22	8	..
Invercargill Aero		17.3	8.7	13.0	+0.5	26.9	5	1.3	23	78	18	-16	13	8	167
Invercargill Aero AWS	1	17.3	8.3	12.8	..	27.1	5	1.5	23	80	18	..	18	8	..
Invercargill Aero 2 E		..	..	..	..	..	..	..	..	79	20	..	16	10	165
Tiwai Point EWS	5	16.1	9.1	12.6	-0.6	27.0	5	2.8	23	73	19	-24	14	18	..
Balclutha, Telford Ew	11	17.1	8.1	12.6	..	26.6	5	3.4	4	47	12	..	17	10	169
Nugget Point AWS	129	15.8	9.1	12.5	-0.2	23.7	29	3.9	11	66	17	..	15	10	..
Tautuku	25	17.4	8.2	12.8	+0.1	28.0	5	4.0	4	125	14	+17	25	12	..
South West Cape AWS	101	14.9	9.9	12.4	..	22.6	5	4.8	11	79	22	..	12	7	..
Nauru Upper Air	6	31.5	26.3	28.9	..	32.4	30	24.6	10	..	..	..	..	..	..
Vanuatu,Sola	13	31.9	23.6	27.8	..	..	..	..	..	507	24	..	80	28	..
Vanuatu,Pekoa	56	31.1	22.9	27.0	..	..	..	..	..	..	..	..	..	..	..
Vanuatu,Lamap	22	32.3	24.3	28.3	..	..	..	..	..	..	..	..	..	..	..
Vanuatu, Bauerfield	20	32.9	22.8	27.9	..	..	..	..	..	293	20	..	52	15	..
Vanuatu,Burtonfield	70	..	23.4	..	..	..	..	..	..	..	..	..	..	..	..
Vanuatu,Aneityum	6	30.8	23.4	27.1	..	..	..	21.6	9	442	28	..	100	22	..
New Cal, Oulop	7	30.3	24.0	27.2	..	32.2	27	20.8	28	618	20	..	147	20	..
New Cal, Ouanaham	29	29.5	23.3	26.4	..	..	..	20.1	6	..	..	..	..	..	..
New Cal, Poinoimie	13	29.8	23.7	26.8	..	..	..	21.5	24	941	25	..	143	23	..
New Cal, La Tontouta	14	30.9	22.0	26.5	..	33.4	17	20.2	25	..	..	..	..	..	..
New Cal, Nouma	72	29.3	24.0	26.7	..	31.1	5	20.7	25	258	18	..	139	24	..
New Cal, Moue	97	29.0	23.1	26.1	..	..	..	..	..	..	..	..	..	..	..
New Cal, Matthew	27	28.8	25.4	27.1	..	31.1	1	22.9	25	..	..	..	..	..	..
Kiribati,Tarawa	2	31.0	26.3	28.7	..	..	..	..	..	..	..	..	..	..	..
Tuvalu,Nanumea Is	2	30.9	25.0	28.0	..	..	..	..	..	..	..	..	..	..	..
Tuvalu,Nui Is	2	..	25.2	..	..	..	..	..	..	..	..	..	..	..	..
Tuvalu,Funafuti Aero	1	31.6	26.2	28.9	..	..	..	..	..	..	..	..	..	..	..
Tuvalu, Niulakita Is	3	31.0	25.1	28.1	..	..	..	..	..	..	..	..	..	..	..
Fiji,Rotuma	26	30.8	24.6	27.7	..	31.9	31	22.5	21	..	..	..	..	..	..
Fiji, Nambowalu	36	31.4	24.2	27.8	..	33.3	8	22.6	30	..	..	..	..	..	..
Fiji,Nadi Aero	15	30.8	23.4	27.1	..	33.8	5	21.6	11	..	..	..	..	..	..
Fiji,Nausori Aero	6	31.2	23.3	27.3	..	..	..	..	..	..	..	..	..	..	..
Fiji, Vunisea	33	30.4	24.2	27.3	..	..	..	23.0	1	..	..	..	..	..	..
Kiribati, Kanton Isl	2	..	25.1	..	..	..	..	..	..	..	..	..	..	..	..
Wallis Island, Hihifo	27	31.2	24.5	27.9	..	..	..	22.5	24	300	25	..	62	31	..
Maopopo, Futuna Isla	36	31.2	25.0	28.1	..	32.9	26	23.9	18	417	28	..	131	31	..
Samoa, Pago Pago Aero	3	32.4	26.6	29.5	..	..	..	..	..	..	..	..	..	..	..
Tonga, Queen Lavinia	60	..	24.3	..	..	..	..	..	..	..	..	..	..	..	..
Tonga,Keppel	2	..	24.3	..	..	..	..	..	..	..	..	..	..	..	..
Tonga, Lupepauu	67	29.8	21.7	25.8	..	..	..	..	..	..	..	..	..	..	..
Salote Pilelevu Airpo	2	30.8	24.7	27.8	..	..	..	..	..	..	..	..	..	..	..
Tonga,Fuaamotu Aero	38	30.6	23.2	26.9	..	..	..	..	..	..	..	..	..	..	..
Niue, Hanan Airport	59	29.7	24.1	26.9	..	..	..	..	..	..	..	..	..	..	..
CI Rarotonga Aero	7	29.6	23.6	26.6	..	..	..	..	..	..	..	..	..	..	..
Rarotonga EWS	4	29.6	23.4	26.5	..	32.7	12	20.8	3	229	24	..	34	17	..
Hiva Hoa, Atuona	51	31.4	23.7	27.6	..	33.5	4	22.5	4	176	19	..	74	10	..
Tahiti - Faaa	1	31.7	25.0	28.4	..	33.0	31	..	..	..	..	..	..	..	..
Tuamotu, Takaroa	2	30.6	26.1	28.4	..	..	..	23.9	1	73	26	..	12	7	..
Tuamotu, Hereheretue	3	30.0	25.0	27.5	..	31.0	30	22.0	27	77	14	..	16	12	..
Gambier, Rikitea	91	29.0	23.9	26.5	..	30.1	27	22.4	8	52	19	..	17	7	..
Tubuai	2	28.7	23.9	26.3	..	..	..	..	..	..	..	..	..	..	..
Rapa	1	28.4	23.8	26.1	..	30.2	22	21.2	27	308	20	..	103	28	..
Raoul Island AWS	49	25.5	20.3	22.9	..	29.8	2	16.0	14	98	18	..	31	22	..
Enderby Is AWS	40	11.5	7.9	9.7	..	14.7	5	2.6	11	120	22	..	14	4	..
Campbell Island AWS	19	10.7	7.1	8.9	+0.2	16.6	7	2.4	11	115	28	-7	22	28	..
Chatham Islands AWS	48	16.3	10.5	13.4	-0.9	19.8	8	6.4	17	96	15	+21	24	19	..
Chatham Island EWS	14	17.6	10.6	14.1	..	22.4	2	3.8	29	59	12	..	16	12	..
Georg Von Neumayer	40	-11.1	-19.8	-15.5	..	-2.1	17	-26.4	9	..	..	..	..	..	..
Ant South Pole	2800	-47.6	-54.7	-51.2	..	-30.8	7	-65.2	31	..	..	..	..	..	..
Halley Bay	30	-15.0	-24.2	-19.6	..	-6.4	15	-34.5	30	..	..	..	..	..	..

Summary of the records of Temperature, Rainfall and Sunshine March 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		
Gen Belgrano 2	32	-9.8	-16.9	-13.4	..	-2.0	5	-24.0	10	..	..	..	..	..	
Base Jubany	4	3.7	-0.2	1.8	..	6.6	5	-6.5	30	..	..	..	..	..	
Dinamet	10	3.5	0.0	1.8	..	5.8	12	-4.6	30	..	..	..	..	..	
V C Marambio	198	0.2	..	..	..	11.2	29	..	..	..	..	..	..	..	
Eduardo Frei	10	2.8	-0.2	1.3	..	5.2	22	-5.3	30	27	16	..	6	5	
Arturo Prat		3.3	-0.3	1.5	..	6.0	27	-8.0	30	..	..	..	..	..	
Bernado Ohiggins	10	1.1	-1.6	-0.3	..	5.3	14	-7.5	29	..	..	..	..	..	
Rothera Point	16	2.4	-0.9	0.8	..	7.3	6	-4.4	25	..	..	..	..	..	
Argentine Is, Faraday	11	1.7	-2.0	-0.2	..	7.3	20	-27.0	20	..	..	..	..	..	
Gen San Martin	4	2.6	..	..	..	6.5	5	..	..	..	..	..	..	..	
King Sejong	11	3.3	0.5	1.9	..	..	..	-5.7	30	..	..	..	..	..	
Novolax Arevskaja	99	-5.8	-9.4	-7.6	..	-0.6	4	-17.9	8	..	..	..	..	..	
Mawson	16	-6.3	-12.1	-9.2	..	..	..	-19.2	31	..	..	..	..	..	
Davis	13	-4.3	-10.4	-7.4	..	..	..	..	..	..	..	..	..	..	
Vostok	3420	-53.6	-60.4	-57.0	..	..	..	..	..	..	..	..	..	..	
Casey	41	-2.7	-7.9	-5.3	..	2.0	20	..	..	..	..	..	..	..	
Durmout Durville	43	-6.9	-12.7	-9.8	..	-2.2	11	-18.3	27	..	..	..	..	..	
Mcmurdo	24	-14.9	-21.7	-18.3	..	-5.5	1	-28.7	24	..	..	..	..	..	
Ant Scott Base	16	-17.2	-27.1	-22.2	..	-7.1	1	-34.6	20	..	..	..	..	..	
Ant Arrival Heights E	185	-16.4	-23.2	-19.8	..	-7.7	1	-31.7	24	..	..	..	..	..	
Ant Scott Base EWS	16	-17.8	-27.0	-22.4	..	-7.5	1	-34.3	20	..	..	..	..	..	
Darwin Airport	31	32.8	22.6	27.7	..	34.9	18	16.0	14	112	15	..	21	14	
Hobart Airport	4	23.7	12.6	18.2	..	33.7	25	8.0	9	68	10	..	44	14	

Late returns and corrections for February 2009

Kerikeri EWS	79	25.2	16.4	20.8	+1.2	28.9	8	10.9	25	241	11	+148	132	27	..
Leigh 2	27	25.3	19.2	22.3	+2.4	..	..	14.4	25	..	..	..	..	..	..
Tiri Tiri Lighthouse	76	22.9	17.8	20.4	+0.8	26.3	8	7.0	28	117	..	+66	48	20	..
North Shore, Auckland	20	23.0	15.2	19.1	..	28.2	8	10.1	26	..	..	..	..	..	..
Lincoln Rd, Auckland	25	27.1	14.0	20.6	..	34.0	12	7.7	14	..	..	..	..	..	..
Musick Pt Ews, Auckla	18	24.2	16.4	20.3	..	28.4	8	11.2	15	..	..	..	..	..	..
Whakamarama 1	392	22.6	14.7	18.7	+1.4	28.3	9	9.5	15	397	16	+234	148	28	177
Opotiki	5	24.3	15.2	19.8	+0.7	28.0	13	9.9	15	177	12	+99	50	28	..
Pakuranga, Auckland R	15	24.8	15.7	20.3	..	28.1	11	9.5	26	..	..	..	..	..	..
Penrose EWS	30	26.3	17.9	22.1	..	29.5	11	12.5	26	..	..	..	..	..	..
Dannevirke	207	22.7	13.5	18.1	+0.7	29.6	8	7.5	15	157	16	+86	30	12	166
Wairoa, North Clyde E	15	25.4	14.6	20.0	+1.1	37.3	1	10.3	14	206	15	+88	92	24	..
Takaka, Kotinga 2	25	23.6	13.0	18.3	+1.2	..	..	8.5	24	156	12	+50	55	12	..
Hokitika Aero	39	19.4	12.2	15.8	-0.2	22.0	20	8.2	17	278	17	+106	151	20	163
Blackball	35	22.6	10.8	16.7	..	27.8	8	6.5	18	288	..	..	..	..	..
Franz Josef	155	19.5	10.7	15.1	-0.4	24.5	20	8.2	24	388	18	+23	99	20	..
Franz Josef EWS	80	19.2	10.3	14.8	..	24.7	20	6.1	24	382	17	..	120	20	104
Craigieburn Forest	914	18.6	6.7	12.7	-1.3	33.2	8	0.1	14	205	18	+129	103	20	..
Christchurch Gardens	7	20.6	12.2	16.4	-0.7	33.7	9	6.0	17	64	12	+25	20	20	..
Lake Tekapo EWS	762	19.4	8.0	13.7	..	31.8	8	1.1	14	50	11	..	15	11	191
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	..
Alexandra	150	22.0	9.1	15.6	..	32.9	8	2.0	14	64	10	..	17	20	167
Tapanui	180	18.2	6.9	12.6	-1.8	29.5	8	1.1	25	56	14	-22	14	9	..
Stewart Is	3	15.7	8.7	12.2	-1.2	24.2	..	6.3	26	116	..	+10	..	..	..

Late returns and corrections for January 2009

Leigh 2	27	23.7	17.0	20.4	+1.0	..	..	..	..	..	..	..	..	..	..
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	..	..	..	..	..	..
Kawerau AWS	42	..	..	..	..	..	..	..	..	..	..	..	..	..	272
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	..	..	..	..	..	..
Franz Josef EWS	80	19.2	10.0	14.6	..	23.4	26	5.0	4	280	12	..	87	6	142
Cromwell EWS	213	25.9	12.7	19.3	..	32.3	24	4.1	3	9	5	..	8	16	234

Late returns and corrections for December 2008

North Shore, Auckland	20	22.4	13.5	18.0	..	26.9	31	9.8	7	..	..	..	..	..	..
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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
		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		
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	..	..	..	..	..	
Penrose EWS	30	23.4	14.6	19.0	..	27.3	31	11.7	26	..	..	..	..	..	
Franz Josef EWS	80	17.2	9.4	13.3	..	21.9	24	4.1	6	513	19	..	100	19	
Palmerston	21	18.7	9.2	14.0	+0.3	29.1	28	3.0	6	82	15	+18	22	4	
Cromwell EWS	213	22.5	10.0	16.3	..	30.3	29	3.3	5	72	12	..	16	20	
Samoa, Maota		30.8	23.2	27.0	..	..	..	..	..	..	..	..	..	..	
Niue, Hanan Airport	59	29.4	22.2	25.8	..	30.7	29	19.4	22	149	20	..	51	13	
Late returns and corrections for November 2008															
Cromwell EWS	213	21.8	7.8	14.8	..	30.6	14	0.5	8	14	5	..	9	24	
Samoa, Maota		31.0	23.1	27.1	..	..	..	..	..	..	..	..	..	..	
Niue, Hanan Airport	59	29.2	21.3	25.3	..	30.6	30	18.6	19	246	16	..	81	15	
Late returns and corrections for October 2008															
Cromwell EWS	213	18.4	5.3	11.9	..	26.0	27	0.8	19	22	11	..	9	6	
Samoa, Maota		30.7	23.0	26.9	..	..	..	..	..	..	..	..	..	..	
Niue, Hanan Airport	59	27.9	20.7	24.3	..	30.3	25	17.0	1	114	15	..	37	2	
Late returns and corrections for September 2008															
Palmerston	21	16.0	4.3	10.2	+1.8	25.4	23	-3.3	6	47	8	+1	15	9	
Cromwell EWS	213	15.6	6.1	10.9	..	24.1	23	-3.2	6	50	13	..	14	9	
Samoa, Maota		30.4	22.7	26.6	..	..	..	..	..	..	..	..	..	..	
Late returns and corrections for August 2008															
Palmerston	21	11.0	0.8	5.9	-0.5	16.6	28	-4.7	10	38	14	-24	8	8	
Cromwell EWS	213	11.6	0.2	5.9	..	17.2	31	-6.0	10	14	8	..	8	22	
Samoa, Maota		30.2	22.4	26.3	..	..	..	..	..	..	..	..	..	..	
Late returns and corrections for July 2008															
Cromwell EWS	213	9.0	0.3	4.7	..	14.1	2	-4.3	26	28	8	..	11	11	
Samoa, Maota		29.2	22.0	25.6	..	..	..	..	..	..	..	..	..	..	
Late returns and corrections for June 2008															
Cromwell EWS	213	12.1	1.5	6.8	..	19.1	6	-4.4	30	12	6	..	5	7	
Samoa, Maota		30.1	22.5	26.3	..	31.3	26	20.0	26	456	29	..	173	6	
Late returns and corrections for May 2008															
Cromwell EWS	213	11.0	0.1	5.6	..	17.0	18	-4.4	6	40	9	..	13	21	
Samoa, Maota		30.3	22.5	26.4	..	..	..	..	..	..	..	..	..	..	
Late returns and corrections for April 2008															
Cromwell EWS	213	17.8	3.1	10.5	..	24.2	28	-1.6	21	25	5	..	21	29	
Samoa, Maota		31.0	22.3	26.7	..	..	..	..	..	..	..	..	..	..	
Late returns and corrections for March 2008															
Cromwell EWS	213	22.6	8.0	15.3	..	31.4	19	1.3	10	24	5	..	17	21	
Late returns and corrections for February 2008															
Cromwell EWS	213	24.4	11.2	17.8	..	29.4	6	6.5	17	54	8	..	20	14	
Samoa, Maota		30.8	22.7	26.8	..	..	..	20.2	23	183	24	..	42	19	
Late returns and corrections for January 2008															
Cromwell EWS	213	27.6	11.8	19.7	..	33.1	20	5.5	11	47	6	..	29	22	
Samoa, Maota		29.6	23.1	26.4	..	31.9	4	..	..	..	..	..	..	..	

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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