

JULY 2009

Summary of the records of Temperature, Rainfall and Sunshine July 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	14.4	10.6	12.5	..	..	..	..	..	166	20	+33	32	11	..
Kaitaia Aero EWS	80	15.4	8.6	12.0	..	17.5	4	1.3	26	108	19	..	20	14	..
Kaitaia Observatory	85	15.3	7.7	11.5	..	17.8	4	1.5	26	146	24	-27	31	14	148
Kaitaia EWS	85	14.0	7.1	10.6	-1.3	16.3	4	0.3	26	141	24	..	29	14	141
Kerikeri EWS	79	16.2	6.3	11.3	+0.0	..	..	..	..	..	..	..	..	..	..
Kerikeri Aerodrome Aw	150	15.2	6.6	10.9	..	..	..	..	..	..	..	..	..	..	..
Kaikohe AWS	204	14.8	9.1	12.0	+1.1	17.6	3	4.0	26	200	27	+25	83	11	..
Trounson Cws	220	13.4	6.9	10.2	..	16.6	23	-0.2	26	261	27	..	56	17	..
Dargaville 2 EWS	66	14.0	7.4	10.7	..	17.6	23	0.8	26	139	21	..	40	17	143
Purerua AWS	82	15.4	8.5	12.0	..	18.0	23	3.4	26	151	18	..	44	11	..
Whangarei Aero AWS	37	15.4	7.8	11.6	+0.1	18.3	23	..	..	168	24	+6	97	11	..
Mokohinau AWS	60	14.6	11.4	13.0	..	16.5	23	9.1	27	95	15	-38	25	17	..
Warkworth EWS	72	14.2	5.9	10.1	..	17.2	23	-0.5	26	126	21	-55	42	17	..
Whangaparaoa AWS	89	14.3	8.6	11.5	..	17.7	22	5.3	14	94	21	..	27	17	..
Arc Kumeu EWS	16	14.6	4.8	9.7	..	17.1	16	-2.7	26	107	22	..	29	11	..
Whenuapai AWS	26	14.4	5.6	10.0	..	16.5	16	-1.6	26	..	..	..	..	..	..
North Shore, Auckland	20	13.8	5.0	9.4	..	16.0	23	0.3	26	..	..	..	..	..	..
Henderson, River Pk	7	14.9	5.0	10.0	-0.3	17.3	3	-1.2	26	159	22	-42	28	11	..
Henderson, Auckland R	35	15.1	7.5	11.3	..	17.5	16	1.5	26	..	..	..	..	..	..
Lincoln Rd, Auckland	25	16.8	4.2	10.5	..	..	..	..	..	..	..	..	..	..	..
Khyber Pass, Auckland	81	14.3	8.1	11.2	..	16.8	3	4.3	26	115	19	..	28	17	..
Musick Pt Ews, Auckla	18	15.3	7.3	11.3	..	..	..	..	..	..	..	..	..	..	..
Onehunga, Auckland Re	5	14.9	8.2	11.6	+0.7	18.1	16	2.9	26	..	..	..	..	..	..
Waiheke Island, Awaro	34	14.6	5.2	9.9	..	17.0	22	-0.5	14	133	17	-23	45	17	..
Whitianga Aero AWS	5	14.6	5.4	10.0	-0.3	17.5	22	-1.0	27	235	24	+22	80	11	..
Thames 2	3	14.3	5.6	10.0	-0.5	17.0	22	0.0	27	147	18	+5	34	11	143
Paeroa AWS	18	14.2	4.4	9.3	-0.2	17.3	22	-2.7	27	128	21	-23	58	11	..
Toenepi EWS	48	14.0	3.5	8.8	..	16.7	22	-3.4	27	127	20	..	33	17	..
Matamata, Hinuera EWS	106	13.0	2.1	7.6	..	15.7	3	-3.7	14	136	19	..	49	17	..
Tauranga Aero	..	..	..	..	..	..	..	..	..	..	..	..	..	..	137
Tauranga Aero AWS	4	14.5	5.7	10.1	+0.1	18.5	22	-0.2	28	145	17	+16	39	11	..
Te Puke EWS	91	13.7	4.3	9.0	..	17.2	22	-0.5	28	151	17	-24	37	17	..
Whakatane Aero AWS	7	13.5	3.3	8.4	-0.6	16.9	22	-1.1	28	144	16	+15	40	17	..
Whakatane Sunshine	7	..	..	..	..	..	..	..	..	..	..	..	..	..	141
White Island	310	11.6	7.6	9.6	..	..	..	..	..	..	..	..	..	..	..
Kawerau AWS	42	14.2	3.7	9.0	..	..	..	..	..	..	..	..	..	..	134
Rotorua Aero 2	281	..	..	..	..	..	..	..	..	..	..	..	..	..	121
Rotorua Aero AWS	283	11.1	3.1	7.1	-0.6	14.8	15	-2.9	14	158	22	+14	51	17	..
Tarapounamu EWS	701	6.8	1.5	4.2	..	10.1	22	-1.9	28	162	22	..	41	17	..
Taupo AWS	400	10.0	2.1	6.1	-0.6	13.0	23	-5.0	27	117	20	..	33	17	..
Opotiki	5	14.2	3.4	8.8	-0.6	17.8	22	-0.5	14	160	16	+38	42	17	..
Motu EWS	488	9.7	1.8	5.8	..	13.6	22	-3.2	28	231	19	..	64	17	..
Mangere EWS	5	14.0	6.6	10.3	..	16.9	16	1.1	14	104	21	..	21	5	161
Wiri, Auckland Region	18	14.2	7.1	10.7	+0.3	16.7	23	1.3	27	..	..	..	..	..	..
Pakuranga, Auckland R	15	14.2	3.4	8.8	..	..	..	..	..	..	..	..	..	..	..
Penrose EWS	30	16.8	7.9	12.4	..	19.7	16	..	..	..	..	..	..	..	..
Auckland Aero	33	14.0	6.8	10.4	-0.4	16.7	23	2.0	14	113	21	-24	24	5	..
Ardmore	23	15.4	3.9	9.7	-0.2	17.8	15	-2.0	28	118	21	-27	25	5	..
Pukekohe EWS	88	13.2	5.0	9.1	-1.0	15.6	3	-0.1	14	160	20	..	33	11	..
Whatawhata 2 EWS	118	13.3	4.8	9.1	..	16.3	3	-0.7	14	206	23	..	32	4	..
Ruakura 2 EWS	45	13.2	2.9	8.1	..	16.4	22	-3.7	14	128	20	..	28	17	141
Hamilton AWS	53	13.3	3.1	8.2	-0.3	16.1	15	-3.6	14	111	23	-26	25	17	..
Port Taharoa AWS	27	14.0	7.0	10.5	-0.4	16.5	3	1.6	14	169	23	..	30	4	..
Waikeria	46	13.4	2.0	7.7	-0.7	17.0	22	-4.2	27	79	18	-57	10	23	..
Te Kuiti EWS	62	12.8	2.6	7.7	..	16.0	22	-3.6	14	187	21	..	30	23	116
Pureora Forest Cws	549	9.0	1.4	5.2	..	11.8	23	-4.5	27	198	21	..	37	23	..
Taumarunui	171	11.5	1.5	6.5	-1.0	15.2	22	-3.0	27	179	26	+27	45	23	..
Taumarunui AWS	195	12.1	1.0	6.6	..	14.9	15	-3.7	2	186	27	..	46	23	98
Turangi 2 EWS	350	11.0	1.5	6.3	..	..	..	..	..	172	20	..	24	29	..
New Plymouth Aero	27	..	..	..	..	..	..	..	..	..	..	..	..	..	161
New Plymouth AWS	30	13.3	5.0	9.2	-0.4	15.7	22	-1.8	14	113	19	-34	30	7	..
Lower Retaruke	219	11.8	2.0	6.9	-0.3	15.2	15	-4.0	27	171	20	+14	46	23	..
Mt Ruapehu, Chateau E 1097	6.1	-1.1	2.5	-0.4	10.7	10	-7.1	26	246	22	-39	70	23	..	

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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		
Alfredton EWS	240	11.7	3.1	7.4	..	17.2	4	-3.4	27	121	24	..	29	23	..
Masterton Aero AWS	138	11.9	2.2	7.1	..	16.4	23	-2.8	21	96	23	..	25	23	..
Masterton, Te Ore Ore	110	11.8	1.1	6.5	..	16.5	23	-3.5	..	90	..	..	..	..	..
Kopua	311	11.1	3.3	7.2	+0.0	17.3	23	-3.1	27	98	..	-18	22	5	..
Takapau Plains AWS	330	10.0	2.8	6.4	..	15.9	23	-3.6	27	97	27	..	18	5	..
Dannevirke EWS	207	9.7	2.7	6.2	..	14.8	23	-4.6	27	157	22	..	44	5	101
Waione EWS	48	12.5	4.0	8.3	..	17.2	23	-3.6	27	122	24	..	38	5	..
Cape Turnagain AWS	292	9.3	5.9	7.6	..	..	..	..	..	..	..	..	..	..	..
Castlepoint Station	9	12.5	6.0	9.3	..	16.5	30	2.0	14	46	13	-69	15	23	..
Castlepoint AWS	120	11.2	6.5	8.9	-1.2	15.4	30	3.2	14	47	16	..	13	23	..
Baring Head	79	10.6	6.4	8.5	..	15.0	30	2.7	14	33	10	..	19	23	..
East Taratahi AWS	91	11.7	2.5	7.1	-0.4	16.3	23	-2.2	26	83	19	..	26	23	..
Te Wharau, Brackenfe	292	10.1	2.3	6.2	..	14.2	22	-1.4	10	116	18	..	22	5	..
Martinborough EWS	20	12.1	3.0	7.6	..	16.0	30	-1.7	26	49	16	..	13	23	79
Ngawi AWS	6	11.6	6.7	9.2	..	15.3	23	2.9	14	57	20	..	13	4	..
Hicks Bay AWS	46	13.7	7.7	10.7	-0.4	15.8	3	2.8	10	207	19	..	55	11	..
Gisborne Aero	4	..	..	..	..	..	..	..	..	..	..	..	..	..	128
Gisborne AWS	5	13.6	5.2	9.4	-0.1	18.4	24	1.8	10	159	18	+40	45	17	..
Napier Aero AWS	3	12.9	4.7	8.8	-0.2	18.4	22	-1.4	28	48	11	-36	21	17	..
Napier Nelson Pk	2	14.0	4.0	9.0	-0.3	19.2	31	-1.8	28	96	17	+5	22	17	127
Hastings AWS	16	13.3	2.8	8.1	..	19.2	23	-2.6	28	84	17	..	26	17	..
Whakatu EWS	5	13.4	2.7	8.1	..	17.9	22	-2.4	28	86	16	..	24	17	..
Waipawa EWS	130	11.3	1.8	6.6	..	17.4	23	-3.4	28	105	18	..	25	4	127
Wairoa, North Clyde E	15	12.7	4.2	8.5	-0.8	17.7	22	0.7	14	..	..	..	..	..	..
Mahia AWS	136	11.9	7.0	9.5	-0.4	16.7	23	4.9	14	86	20	..	25	17	..
Paraparaumu Aero	5	12.2	4.4	8.3	-0.3	14.8	22	-2.5	11	56	17	-45	27	23	90
Paraparaumu Aero AWS	5	11.8	4.1	8.0	-0.5	14.8	23	-2.3	11	52	15	..	25	23	..
Ohakea AWS	50	12.2	5.2	8.7	..	15.0	17	0.0	14	..	..	..	..	..	..
Palmerston North AWS	39	12.1	4.3	8.2	-0.1	15.4	17	-2.3	14	80	17	-9	20	5	..
Palmerston North EWS	21	12.1	4.0	8.1	..	15.7	4	-2.2	14	64	15	..	26	23	105
Levin AWS	14	12.3	3.6	8.0	-0.5	15.0	17	-1.6	11	69	20	..	33	23	..
Mana Island	2	12.0	6.4	9.2	-0.9	15.4	30	2.1	2	73	21	..	40	23	..
Mana Island AWS	100	10.6	6.7	8.7	..	13.2	30	3.8	10	63	16	..	34	23	..
Wellington,Kelburn	125	..	..	..	..	..	..	..	..	..	..	..	..	..	84
Wellington, Kelburn A	125	10.6	5.7	8.2	..	15.9	30	2.7	14	77	20	..	26	23	..
Wellington Aero	4	11.4	6.1	8.8	-0.7	15.6	30	1.6	27	52	16	-61	23	23	..
Wallaceville EWS	56	11.7	2.5	7.1	..	15.3	30	-2.9	26	100	18	-41	66	23	74
Stratford EWS	300	10.9	2.8	6.9	..	15.2	22	-3.1	14	164	18	..	62	23	113
Hawera AWS	98	11.5	3.5	7.5	..	15.4	23	-2.8	14	91	24	..	20	4	..
Ohakune EWS	607	8.7	1.0	4.9	..	12.0	17	-5.6	14	125	23	..	43	23	103
Waiouru	806	7.2	-0.9	3.2	-1.1	12.1	23	-5.3	27	106	22	+0	23	23	..
Waiouru AWS	820	7.0	-1.0	3.0	..	10.6	23	-6.8	27	109	28	-13	20	23	..
Taihape Rec	433	10.0	0.7	5.4	-0.8	14.0	23	-6.0	27	75	25	-12	12	23	..
Wanganui,Spriggens Pa	15	12.8	5.2	9.0	-0.4	16.0	31	0.2	11	77	16	-11	21	23	..
Wanganui AWS	8	12.2	5.4	8.8	-0.7	15.3	17	0.1	11	77	14	..	20	5	..
Wanganui 2 AWS	18	13.4	4.9	9.2	..	..	..	..	..	..	..	..	..	..	..
Takaka,Kotinga 2	25	12.7	1.4	7.1	-0.5	16.9	31	-2.1	13	184	21	-11	70	23	..
Takaka EWS	20	12.7	1.7	7.2	..	16.9	31	-1.9	13	173	16	..	67	23	160
Farewell Spit AWS	3	12.6	6.6	9.6	+0.1	15.6	21	3.5	10	107	18	..	19	4	..
Westport Aero AWS	2	12.5	4.3	8.4	-0.3	..	..	..	..	255	22	+69	36	6	..
Arapito	18	12.3	3.6	8.0	-0.5	14.0	16	-0.4	13	260	17	+46	45	23	129
Arapito EWS	18	12.2	3.0	7.6	..	15.2	15	-1.2	13	244	18	..	43	23	..
Murchison EWS	185	8.7	0.6	4.7	..	14.2	16	-4.0	13	157	21	+6	27	23	..
Lake Rotoiti EWS	634	8.1	-1.3	3.4	..	11.7	16	-6.3	13	116	21	..	23	23	..
Hokitika Aero	39	11.3	2.9	7.1	-0.4	13.3	16	-1.5	13	286	21	+54	53	22	121
Hokitika AWS	38	11.2	2.9	7.1	-0.4	13.3	16	-1.4	13	280	20	..	52	22	..
Reefton EWS	198	9.0	0.7	4.9	-0.2	12.2	30	-5.8	13	210	21	+23	37	21	81
Greymouth Aero	4	11.7	3.6	7.7	-0.4	14.0	16	0.0	10	331	21	+122	60	22	116
Greymouth Aero EWS	5	11.5	4.3	7.9	..	14.2	15	0.2	10	326	20	..	62	22	123
Pigeon Creek Cws	105	9.9	2.0	6.0	..	..	..	..	..	..	..	..	..	..	..
Mahanga EWS	1995	-0.6	-6.5	-3.6	..	5.9	10	-10.7	13	19	17	..	6	16	..
Ivory Glacier Cws	1390	1.0	-3.3	-1.2	..	4.1	23	-8.4	27	253	23	..	51	21	..
Franz Josef	155	..	3.1	346	18	-14	73	31	..

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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		
Franz Josef EWS	80	10.6	1.3	6.0	..	12.9	1	-1.6	20	305	19	..	61	31	116
Haast AWS	5	11.2	3.8	7.5	-0.1	13.0	9	-0.4	19	227	19	..	40	22	..
Milford Sound	3	9.4	1.3	5.4	+0.2	14.5	24	-2.1	13	519	20	+94	125	30	..
Milford Sound AWS	3	8.9	0.9	4.9	..	13.3	22	-2.5	13	497	25	..	122	30	..
Secretary Island AWS	19	11.9	6.1	9.0	..	14.3	12	3.7	19	341	21	..	35	20	..
Puysegur Point AWS	44	10.5	5.5	8.0	+0.0	13.0	27	2.4	13	229	25	+47	29	30	..
Motueka, Riwaka EWS	8	12.0	0.4	6.2	-0.8	16.0	22	-4.0	13	90	15	-61	22	23	..
Maud Island	15	11.5	6.4	9.0	..	15.2	23	..	..	94	..	..	40	23	..
Pelorus Sd, Crail Bay	13	11.7	5.6	8.7	-0.3	16.5	22	..	..	116	16	-50	54	23	..
Nelson Aero	2	12.0	1.7	6.9	+0.0	15.0	22	-2.9	13	54	13	-30	27	23	172
Appleby 2 EWS	18	13.3	1.0	7.2	..	16.7	16	-4.7	13	57	13	..	23	23	172
Nelson AWS	4	12.0	2.1	7.1	-0.3	14.6	22	-2.8	13	51	14	..	25	23	..
Blenheim Research EWS	4	12.4	2.2	7.3	-0.3	17.7	31	-1.2	26	51	12	-22	38	23	151
Wairau Valley, Mill R	172	10.8	1.2	6.0	..	15.6	31	-3.1	13	72	12	..	36	23	..
Blenheim Aero AWS	35	11.8	1.0	6.4	-0.7	17.0	31	-2.6	10	58	15	-23	38	23	..
Brothers Island AWS	68	11.5	7.8	9.7	..	17.2	30	5.0	13	48	16	..	14	23	..
Awatere Valley, Dashw	83	10.6	1.7	6.2	..	16.0	30	-2.6	10	30	10	..	16	23	..
Grassmere Salt Works	2	12.1	4.2	8.2	+0.1	17.4	22	-0.7	10	23	10	-48	7	23	..
Cape Campbell AWS	2	10.5	6.6	8.6	..	14.8	21	4.0	10	40	17	..	10	1	..
Boyle River Lodge	600	..	-1.3	..	..	..	..	-6.5	11	203	..	..	36	23	..
Hanmer Forest EWS	363	10.0	-2.1	4.0	-0.2	18.9	31	-7.0	27	64	11	-50	17	5	..
Kaikoura AWS	105	10.2	4.7	7.5	-0.6	17.3	21	2.5	14	34	13	-55	16	5	..
Arthurs Pass	738	4.7	-2.2	1.3	-0.5	7.6	16	-7.7	13	300	18	-14	61	21	..
Arthurs Pass EWS	738	4.4	-2.3	1.1	..	7.7	16	-7.8	13	333	24	..	65	23	..
Culverden	178	10.3	-1.0	4.7	..	..	..	..	..	43	9	-18	13	5	..
Waiiau School Cws	136	10.7	0.3	5.5	..	18.6	31	-4.8	27	33	9	..	12	5	..
Mt Potts EWS	2128	-0.8	-7.2	-4.0	..	5.5	25	-13.0	13	..	..	..	..	..	..
Craigieburn Forest	914	6.7	-3.3	1.7	-0.8	9.9	31	-7.8	13	266	28	+132	57	22	..
Snowdon EWS	560	7.9	-0.4	3.8	..	11.8	27	-5.4	2	122	17	..	28	22	..
Methven Cws	313	9.4	0.5	5.0	..	17.9	31	-2.7	14	61	12	..	15	4	..
Winchmore EWS	160	10.4	-0.3	5.1	-0.4	18.8	31	-3.6	14	47	12	-18	12	2	..
Peel Forest	286	9.7	-1.4	4.2	-0.7	17.4	31	-5.0	14	83	12	+22	26	4	..
Ashburton Council	101	10.9	-0.2	5.4	-0.3	18.4	31	-4.2	14	40	13	-21	11	2	..
Ashburton Aero AWS	89	10.3	-0.1	5.1	..	18.4	31	-4.5	14	43	16	..	11	2	170
Waipara West EWS	130	10.9	1.8	6.4	..	19.7	31	-1.9	13	60	9	..	18	23	147
Rangiora EWS	23	11.1	0.5	5.8	-0.1	20.8	31	-3.7	26	39	12	..	11	23	144
Darfield EWS	190	10.2	1.1	5.7	..	19.6	31	-2.8	14	52	12	..	11	2	..
Christchurch Aero	37	10.2	0.2	5.2	-0.6	19.1	31	-4.5	14	37	8	-35	14	2	148
Christchurch Gardens	7	11.0	1.2	6.1	-0.5	19.6	31	-2.7	14	41	12	-38	20	2	..
Christchurch, Kyle St	6	11.1	1.3	6.2	..	20.3	31	-3.6	14	38	11	..	20	2	..
Lincoln, Broadfield E	18	10.3	0.8	5.6	-0.6	20.0	31	-4.6	14	36	12	..	18	2	..
Sugar Loaf AWS	618	7.7	2.3	5.0	..	..	..	..	..	..	..	..	..	..	..
Lyttelton Harbour	5	10.9	4.1	7.5	..	..	..	..	..	..	..	..	..	..	..
Akaroa EWS	45	10.6	3.0	6.8	..	19.4	31	-0.6	14	90	12	..	33	4	118
Le Bons Bay AWS	236	8.9	4.1	6.5	-0.9	15.3	31	0.9	13	52	14	..	14	2	..
Lake Tekapo, Air Safa	762	4.8	-4.1	0.4	-1.3	10.3	31	-11.1	14	32	7	-20	11	21	..
Lake Tekapo EWS	762	5.3	-3.6	0.9	..	10.8	29	-11.0	14	39	10	..	11	22	145
Fairlie AWS	403	7.9	0.0	4.0	..	..	..	..	..	..	..	..	..	..	..
Pukaki Aerodrome AWS	473	5.0	-3.5	0.8	..	12.6	22	-9.0	14	42	22	..	12	22	..
Hakataramea Valley Cw	355	8.0	-2.3	2.9	..	14.8	31	-6.5	13	23	8	..	11	4	..
Orari Estate	81	10.5	-0.4	5.1	+0.0	18.4	31	-4.0	..	23	12	-35	11	4	..
Orari Estate Cws	81	10.4	-0.1	5.2	..	17.9	31	-4.1	27	32	15	..	10	4	..
Timaru Aero AWS	26	10.5	-1.4	4.6	-0.5	18.7	31	-5.9	27	24	10	-20	10	2	..
Timaru EWS	17	10.3	0.7	5.5	..	18.2	21	-3.6	14	24	12	..	9	2	152
Waimate Cws	55	10.3	-0.3	5.0	..	17.8	31	-4.1	14	28	8	..	7	4	..
Oamaru Airport AWS	30	10.3	0.3	5.3	..	18.0	31	-3.0	28	27	7	..	6	11	..
Albert Burn	1280	3.6	-4.5	-0.5	..	10.0	9	-10.9	13	132	16	..	30	22	..
Tara Hills AWS	488	5.9	-3.8	1.1	-0.8	12.0	30	-10.4	14	34	10	-7	13	22	..
Wanaka Aero AWS	352	7.1	-1.2	3.0	..	13.3	18	-5.2	13	34	11	..	15	22	..
St Bathans, Post Offi	585	6.7	-2.5	2.1	..	..	..	..	..	..	..	..	..	..	..
Naseby Forest 2	607	7.0	-3.0	2.0	-0.3	13.7	28	-7.6	13	17	8	-15	5	21	..
Windsor EWS	81	9.3	-1.2	4.1	..	14.6	21	-4.9	13	36	9	..	13	4	..
Ranfurlly EWS	450	6.6	-3.2	1.7	..	14.0	21	-8.7	14	6	8	..	3	21	..

Summary of the records of Temperature, Rainfall and Sunshine July 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		
Oamaru AWS	40	10.4	1.6	6.0	..	15.9	31	-1.8	13	39	13	..	11	4	..
Palmerston	21	10.5	-1.2	4.7	-0.6	17.9	21	-5.0	27	45	10	-14	15	3	98
Middlemarch EWS	213	8.2	-2.7	2.8	..	16.0	21	-11.7	19	21	13	..	7	21	128
Swampy Summit AWS	722	4.3	-0.7	1.8	..	..	..	..	..	..	..	..	..	..	..
Dunedin Aero AWS	1	9.8	-0.6	4.6	-0.5	16.0	21	-5.2	8	42	17	-7	13	21	..
Dunedin, Musselburgh	4	9.4	2.2	5.8	-0.8	15.6	21	-1.5	17	58	15	-9	16	3	115
Murchison Mtns EWS	1140	1.7	-3.1	-0.7	..	4.8	22	-6.7	13	234	7	..	118	21	..
Takahe Valley Cws	895	2.0	-5.0	-1.5	..	5.2	20	-10.7	13	244	23	..	67	30	..
Manapouri, West Arm J	178	5.0	0.1	2.6	..	8.3	27	-3.8	13	299	21	..	59	30	..
Manapouri Aero AWS	209	6.9	-0.8	3.1	..	11.5	26	-5.7	13	115	19	..	29	21	..
Queenstown	329	8.3	-0.3	4.0	-0.1	13.3	18	-3.8	13	79	15	+14	27	22	71
Queenstown Aero AWS	354	7.5	-1.9	2.8	-0.3	13.2	18	-6.1	13	61	15	+6	15	22	..
Lumsden AWS	187	8.3	-0.8	3.8	-0.2	13.8	29	-6.8	2	59	18	..	23	21	..
Cromwell EWS	213	8.3	-0.9	3.7	..	15.4	30	-5.8	14	22	9	..	5	22	104
Lauder EWS	375	6.2	-2.9	1.7	..	13.0	30	-7.1	13	..	..	..	..	..	..
Ophir 2	305	6.8	-4.4	1.2	..	13.5	22	-8.7	2	14	8	..	4	3	..
Alexandra	150	8.0	-3.0	2.5	..	16.0	30	-8.1	2	27	8	..	12	21	80
Clyde EWS	171	7.2	-2.6	2.3	-0.5	14.4	31	-7.2	14	28	8	..	11	21	..
Alexandra Cws	140	7.6	-1.9	2.9	..	15.6	21	-6.5	2	28	8	..	15	21	..
Ettrick No.2	91	8.6	-1.0	3.8	-0.5	14.8	21	-5.1	8	28	12	..	12	21	..
Winton	44	9.8	0.7	5.3	+0.0	14.0	23	-4.1	13	88	14	+21	21	21	105
Gore AWS	123	8.0	1.0	4.5	-0.1	14.2	23	-3.8	14	72	19	+5	16	21	..
Invercargill Aero		9.2	1.4	5.3	+0.1	13.4	23	-4.1	13	128	23	+41	31	21	102
Invercargill Aero AWS	1	9.2	1.0	5.1	..	13.3	29	-4.4	13	126	25	..	29	21	..
Invercargill Aero 2 E		..	..	..	..	..	..	..	..	125	22	..	30	21	103
Tiwai Point EWS	5	8.7	2.1	5.4	-0.8	12.9	26	-2.3	2	133	19	+44	28	21	..
Balclutha, Telford Ew	11	8.4	0.1	4.3	..	14.0	23	-4.5	1	62	19	..	18	21	116
Nugget Point AWS	129	8.2	3.1	5.7	-0.4	13.5	23	-0.7	19	71	23	..	17	21	..
Tautuku	25	10.5	2.5	6.5	+0.4	16.0	4	-1.0	1	130	20	+18	16	21	..
South West Cape AWS	101	8.9	4.9	6.9	..	11.9	27	1.1	19	165	30	..	26	2	..
Solomon, Munda	6	..	24.1	..	..	..	..	..	..	..	..	..	..	..	..
Solomon, Auki	11	..	23.6	..	..	..	..	..	..	..	..	..	..	..	..
Solomon, Honiara	56	31.3	23.8	27.6	..	..	..	..	..	..	..	..	..	..	..
Solomon, Henderson	9	31.4	22.6	27.0	..	..	..	..	..	..	..	..	..	..	..
Nauru Upper Air	6	30.8	25.8	28.3	..	32.1	16	24.5	20	..	..	..	..	..	..
Solomon, Santa Cruz	24	..	24.7	..	..	..	..	..	..	..	..	..	..	..	..
Vanuatu,Sola	13	29.1	24.0	26.6	..	..	..	..	..	..	..	..	..	..	..
Vanuatu,Pekoa	56	..	21.3	..	..	..	..	..	..	..	..	..	..	..	..
Vanuatu, Bauerfield	20	28.7	18.6	23.7	..	..	..	..	..	..	..	..	..	..	..
Vanuatu,Burtonfield	70	..	18.2	..	..	..	..	..	..	..	..	..	..	..	..
Vanuatu,Aneityum	6	..	18.6	..	..	..	..	..	..	..	..	..	..	..	..
New Cal, Koumac	18	24.6	16.6	20.6	..	..	..	12.4	26	119	10	..	38	16	..
New Cal, Oulop	7	25.1	18.1	21.6	..	27.1	15	11.1	13	38	14	..	18	16	..
New Cal, Ouanaham	29	24.3	16.6	20.5	..	26.4	4	10.2	13	188	17	..	83	9	..
New Cal, Poinoimie	13	24.5	17.6	21.1	..	..	..	..	..	..	..	..	..	..	..
New Cal, La Roche	42	23.6	14.1	18.9	..	..	..	..	..	..	..	..	..	..	..
New Cal, La Tontouta	14	24.3	15.0	19.7	..	28.3	15	11.0	27	161	19	..	78	16	..
New Cal, Nouma	72	23.3	17.6	20.5	..	26.8	15	14.8	27	143	19	..	60	16	..
New Cal, Moue	97	22.3	16.7	19.5	..	24.8	3	12.6	19	220	14	..	110	16	..
New Cal, Matthew	27	22.9	20.2	21.6	..	25.3	16	17.7	18	..	..	..	..	..	..
Kiribati,Tarawa	2	31.2	25.8	28.5	..	..	..	..	..	..	..	..	..	..	..
Tuvalu,Nanumea Is	2	31.1	25.3	28.2	..	..	..	..	..	..	..	..	..	..	..
Tuvalu,Funafuti Aero	1	31.1	26.6	28.9	..	..	..	24.9	11	..	..	..	..	..	..
Tuvalu, Niulakita Is	3	30.5	24.3	27.4	..	..	..	..	..	..	..	..	..	..	..
Fiji,Rotuma	26	29.1	25.0	27.1	..	..	..	..	..	..	..	..	..	..	..
Fiji, Nambowalu	36	26.5	22.2	24.4	..	..	..	..	..	..	..	..	..	..	..
Fiji,Nadi Aero	15	27.9	19.6	23.8	..	..	..	..	..	..	..	..	..	..	..
Fiji, Nadi EWS	15	27.9	19.9	23.9	..	31.1	10	15.2	24	26	6	..	13	12	..
Fiji,Nausori Aero	6	26.1	20.5	23.3	..	..	..	..	..	..	..	..	..	..	..
Fiji, Vunisea	33	25.6	20.6	23.1	..	..	..	..	..	..	..	..	..	..	..
Kiribati, Kanton Isl	2	..	25.6	..	..	..	..	..	..	..	..	..	..	..	..
Wallis Island, Hihifo	27	29.6	25.1	27.4	..	..	..	..	..	..	..	..	..	..	..
Maopopo, Futuna Isla	36	28.5	24.6	26.6	..	31.0	12	22.7	20	105	22	..	19	13	..

Summary of the records of Temperature, Rainfall and Sunshine July 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	Hrs			
Samoa,Faleolo	4	30.6	23.0	26.8	..	..	..	..	..	..	..	..	..	..
Samoa, Apia	1	29.6	23.9	26.8	..	..	..	..	..	..	..	..	..	..
Samoa, Pago Pago Aero	3	..	25.3	..	..	..	..	..	..	..	..	..	..	..
Tonga,Keppel	2	..	23.5	..	..	..	..	..	..	..	..	..	..	..
Tonga, Lupepauu	67	26.0	19.1	22.6	..	..	..	..	..	..	..	..	..	..
Salote Pilolevu Airpo	2	26.8	21.5	24.2	..	..	..	..	..	..	..	..	..	..
Tonga,Fuaamotu Aero	38	24.8	19.0	21.9	..	..	..	..	..	..	..	..	..	..
Niue, Hanan Airport	59	26.0	20.6	23.3	..	..	..	..	..	..	..	..	..	..
CI Rarotonga Aero	7	25.5	20.3	22.9	..	28.8	1	16.8	10	..	..	..	..	..
Rarotonga EWS	4	25.2	20.5	22.9	..	27.8	1	17.0	8	37	10	..	14	25	
Hiva Hoa, Atuona	51	29.0	23.2	26.1	..	31.2	23	21.6	10	103	22	..	18	5	
Tahiti - Faaa	1	29.7	22.9	26.3	..	..	..	..	..	..	..	..	..	..
Tuamotu, Takaroa	2	29.1	25.2	27.2	..	..	..	..	..	31	22	..	3	14
Tuamotu, Hao	3	27.1	..	..	..	..	..	..	..	..	..	..	..	..
Tuamotu, Hereheretue	3	27.0	22.0	24.5	..	..	..	..	..	58	14	..	15	31
Gambier, Rikitea	91	24.4	20.1	22.3	..	..	..	..	..	81	13	..	27	8
Tubuai	2	24.2	18.4	21.3	..	27.1	3	12.8	11	101	15	..	59	22	
Rapa	1	21.4	16.7	19.1	..	23.6	6	11.6	25	204	22	..	77	22	
Raoul Island AWS	49	18.9	13.6	16.3	..	21.8	4	9.6	29	69	13	..	21	10	
Enderby Is AWS	40	7.1	3.0	5.1	..	..	..	..	..	..	..	..	..	..
Campbell Island AWS	19	5.9	1.8	3.9	-1.1	9.5	27	-2.8	19	126	31	+20	12	28	
Chatham Islands AWS	48	9.0	4.6	6.8	-1.3	11.7	23	1.6	14	69	25	-25	17	30	
Chatham Island EWS	14	9.2	4.5	6.9	..	12.0	23	-0.5	8	72	23	..	20	30	
Georg Von Neumayer	40	-18.5	-26.2	-22.4	..	-18.5	1	-34.5	18	..	..	..	..	..
Ant South Pole	2800	-54.0	-61.8	-57.9	..	-41.9	10	-71.6	18	..	..	..	..	..
Halley Bay	30	-23.2	-32.0	-27.6	..	-11.1	9	-49.9	8	..	..	..	..	..
Gen Belgrano 2	32	-18.5	-24.7	-21.6	..	..	..	..	..	..	..	..	..	..
Base Jubany	4	-5.0	-11.9	-8.5	..	1.3	15	-23.7	13	..	..	..	..	..
V C Marambio	198	-12.7	-23.6	-18.2	..	17.5	28	-35.5	13	..	..	..	..	..
Rothera Point	16	-8.2	-14.6	-11.4	..	..	..	-24.0	13	..	..	..	..	..
Gen San Martin	4	-10.7	..	..	..	2.0	18	..	..	..	..	..	..	..
Novolax Arevskaja	99	-12.7	-16.2	-14.5	..	-5.5	4	..	..	..	..	..	..	..
Mawson	16	-9.3	-17.9	-13.6	..	-1.3	15	-29.7	4	..	..	..	..	..
Davis	13	-10.8	-18.7	-14.8	..	..	..	-30.8	4	..	..	..	..	..
Progress	64	-11.0	-14.5	-12.8	..	0.4	12	..	..	..	..	..	..	..
Vostok	3420	-56.2	-63.0	-59.6	..	-44.7	2	-71.4	30	..	..	..	..	..
Casey	41	-5.7	-14.0	-9.9	..	2.4	14	..	..	..	..	..	..	..
Durmont Durville	43	-8.4	-14.4	-11.4	..	..	..	..	..	..	..	..	..	..
Mcmurdo	24	-19.6	-27.7	-23.7	..	-6.0	23	-36.3	31	..	..	..	..	..
Ant Scott Base	16	-21.2	-32.4	-26.8	..	-7.1	23	-42.6	31	..	..	..	..	..
Ant Arrival Heights E	185	-21.4	-29.1	-25.3	..	-8.7	23	-38.4	31	..	..	..	..	..
Darwin Airport	31	30.4	13.2	21.8	..	34.0	1	5.2	1	..	..	..	..	..
Hobart Airport	4	19.2	5.2	12.2	..	30.6	31	1.3	8	42	19	..	10	2	
Late returns and corrections for June 2009															
Kerikeri EWS	79	15.8	6.4	11.1	-0.8	18.8	10	..	..	229	14	+59	72	8
North Shore, Auckland	20	13.4	5.1	9.3	..	16.4	10	-0.9	4	..	..	..	..	..
Lincoln Rd, Auckland	25	16.5	4.0	10.3	..	20.5	11	-3.1	4	..	..	..	..	..
Musick Pt Ews, Auckla	18	14.8	6.4	10.6	..	..	..	..	..	..	..	..	..	..
Waiheke Island, Awaro	34	14.3	5.0	9.7	..	17.2	13	-1.0	5	175	15	+46	61	28	
Toenepi EWS	48	13.7	2.4	8.1	..	18.1	11	-3.9	24	92	13	..	23	28	
Matamata, Hinuera EWS	106	12.6	1.0	6.8	..	17.2	13	-4.8	21	99	13	..	33	28	
Pakuranga, Auckland R	15	14.0	3.3	8.7	..	17.7	22	-3.3	4	..	..	..	..	..
Penrose EWS	30	16.4	7.2	11.8	..	20.1	11	1.1	4	..	..	..	..	..
Masterton, Te Ore Ore	110	12.0	1.9	7.0	..	17.0	..	-3.8	19	118	..	..	36	28
Dannevirke	207	10.7	3.2	7.0	-1.2	17.4	11	-3.0	19	117	22	+23	35	28	
Castlepoint AWS	120	10.7	6.6	8.7	-2.1	14.6	11	2.0	17	118	20	..	40	28	
Blackball	35	9.3	0.5	4.9	..	12.4	..	..	..	146	..	..	..	..
Appleby 2 EWS	18	13.3	1.0	7.2	..	16.8	13	-5.5	19	146	7	..	58	11	
Blenheim Research EWS	4	12.3	1.6	7.0	-1.1	16.3	5	-2.6	7	52	13	-8	12	11	
Culverden	178	10.4	-1.7	4.4	..	..	..	..	..	19	6	-38	5	28
Mt Cook EWS	765	6.9	-2.4	2.3	-0.8	11.1	13	-5.6	17	73	6	-221	28	10	
Craigieburn Forest	914	6.8	-3.0	1.9	-1.0	11.0	12	-7.3	17	97	14	-21	56	10	

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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