

SEPTEMBER 2011

Summary of the records of Temperature, Rainfall and Sunshine September 2011

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	15.5	10.1	12.8	..	19.0	23	8.8	4	46	16	-51	13	10	..
Kaitaia Aero EWS	80	16.9	8.5	12.7	..	18.8	23	4.2	27	52	12	..	14	10	..
Kaitaia Observatory	85	16.6	8.2	12.4	..	18.4	6	4.4	27	67	17	-66	13	12	174
Kaitaia EWS	85	16.3	8.3	12.3	-0.7	18.2	6	4.4	27	64	16	..	14	12	184
Kerikeri EWS	79	17.7	6.7	12.2	-0.6	19.5	12	2.7	9	63	14	-119	25	10	..
Kerikeri Aerodrome Aw	150	16.6	6.8	11.7	..	19.1	24	3.8	10	74	16	..	17	10	..
Kaikohe AWS	204	16.1	8.4	12.3	+0.3	18.7	24	5.0	27	72	20	-64	15	10	..
Trounson Cws	220	14.5	6.4	10.5	..	17.2	10	1.6	27	129	26	..	21	12	..
Dargaville 2 EWS	66	16.1	8.4	12.3	..	19.1	10	3.7	27	86	17	..	22	17	198
Purerua AWS	82	16.6	8.2	12.4	..	18.7	15	5.5	27	61	15	..	13	10	..
Whangarei Aero AWS	37	17.1	7.9	12.5	-0.6	19.5	24	3.3	27	56	15	-68	10	22	..
Mokohinau AWS	60	15.8	11.1	13.5	..	..	..	..	..	42	14	-46	13	11	..
Leigh 2	27	17.6	9.1	13.4	+0.1	20.0	24	5.7	3	46	16	-59	12	11	..
Warkworth EWS	72	15.4	6.6	11.0	..	18.4	24	1.3	27	81	14	-58	17	11	..
Whangaparaoa AWS	89	16.2	9.0	12.6	..	17.8	6	6.1	26	67	16	..	17	11	..
Whenuapai AWS	26	15.7	6.5	11.1	..	18.1	24	1.6	27	..	..	..	..	..	..
Auckland, North Shore	64	15.6	7.3	11.5	..	18.6	24	2.9	27	77	15	..	28	11	176
Auckland, Henderson,	7	17.0	6.5	11.8	-0.7	19.9	24	1.8	27	114	16	-23	30	11	..
Lincoln Rd, Auckland	25	17.2	5.6	11.4	..	..	..	..	..	..	..	..	..	..	..
Musick Pt Ews, Auckla	18	16.2	8.7	12.5	..	..	..	..	..	..	..	..	..	..	..
Waiheke Island, Awaro	34	16.5	5.9	11.2	..	18.1	23	0.7	26	84	11	-31	25	12	..
Whitianga Aero AWS	5	16.3	6.7	11.5	-0.5	18.3	6	1.7	27	63	13	-103	21	11	..
Thames 2	3	..	..	..	..	18.1	29	2.4	..	..	..	..	..	..	..
Paeroa AWS	18	16.5	6.1	11.3	-0.8	19.5	10	1.4	21	63	14	-60	16	11	..
Toenepi EWS	48	16.3	5.3	10.8	..	19.7	10	0.8	27	63	12	..	30	11	..
Matamata, Hinuera EWS	106	15.3	3.9	9.6	..	18.3	10	-1.5	3	57	12	..	27	11	..
Tauranga Aero	..	..	..	..	..	..	..	..	..	..	..	..	..	..	231
Tauranga Aero AWS	4	16.6	6.8	11.7	-0.3	18.1	6	1.3	3	37	8	-66	17	11	..
Te Puke EWS	91	16.7	5.3	11.0	..	18.9	6	-0.2	3	36	9	-100	14	11	..
Whakatane Aero AWS	7	16.3	4.8	10.6	-0.9	18.4	23	-0.5	3	31	9	-59	14	11	..
Whakatane Sunshine	7	..	..	..	..	..	..	..	..	..	..	..	..	..	224
Mamaku Radar Wxt AWS617	10.7	4.8	7.8	..	15.9	10	0.4	21	..	..	..	..	..	..	..
Kawerau AWS	42	17.6	4.3	11.0	..	21.1	29	-1.2	3	..	..	..	..	..	216
Rotorua Aero AWS	283	14.1	3.6	8.9	-1.3	17.4	10	-2.0	3	46	10	-69	21	11	..
Galatea AWS	174	15.4	2.4	8.9	..	18.2	10	-3.2	3	..	..	..	..	..	..
Taupo Wxt AWS	385	13.5	4.3	8.9	..	17.3	30	0.3	27	..	..	..	..	..	..
Tarapounamu EWS	701	10.3	2.0	6.2	..	16.2	10	-2.4	3	68	14	..	14	11	..
Taupo AWS	400	13.2	2.3	7.8	-1.4	17.1	30	-2.8	3	32	8	..	13	11	..
Opotiki	5	16.4	4.4	10.4	-1.1	20.2	29	-0.1	3	42	10	-72	15	11	..
Motu EWS	488	13.3	2.1	7.7	..	18.0	10	-3.2	3	56	12	..	17	11	..
Otamatuna, Te Mapou H	624	12.4	2.4	7.4	..	17.3	10	-1.6	3	..	..	..	..	..	..
Auckland, Mangere EWS	5	15.9	8.3	12.1	..	18.7	24	3.5	27	76	14	..	30	11	185
Penrose Ews, Auckland	30	16.7	7.4	12.1	..	..	..	..	..	..	..	..	..	..	..
Auckland Aero	33	16.2	8.4	12.3	-0.5	20.1	29	4.0	27	86	15	-11	30	11	..
Auckland, Ardmore	23	16.6	5.6	11.1	-0.8	19.3	29	0.4	3	88	12	-26	33	11	..
Pukekohe EWS	88	16.2	7.2	11.7	-0.3	19.3	29	2.4	27	92	15	..	25	11	..
Firth Of Thames EWS	1	18.2	5.2	11.7	..	20.9	29	-1.3	27	64	13	..	23	11	..
Whatawhata 2 EWS	118	15.4	6.3	10.9	..	18.7	10	2.6	26	113	15	..	29	11	..
Hamilton, Ruakura 2 E	45	14.4	3.9	9.2	..	17.1	10	-1.2	27	56	14	..	20	11	186
Hamilton AWS	53	15.9	4.5	10.2	-0.9	19.1	10	0.1	27	61	14	-46	19	11	..
Lake Karapiro Cws	55	15.4	6.0	10.7	..	19.1	10	1.5	3	56	13	..	25	11	..
Port Taharoa AWS	27	15.9	8.5	12.2	-0.5	20.2	30	3.8	26	77	19	..	14	18	..
Waikeria 2	46	16.0	4.7	10.4	-0.6	19.6	10	0.0	3	41	8	-66	17	11	..
Te Kuiti EWS	62	15.3	4.6	10.0	..	19.0	29	-0.2	3	91	14	..	31	11	176
Pureora Forest Cws	549	11.9	2.3	7.1	..	16.6	10	-2.3	27	109	12	..	28	11	..
Taumarunui	171	15.4	4.1	9.8	-0.8	20.2	30	-1.1	3	76	18	-71	22	11	..
Taumarunui AWS	195	15.2	3.4	9.3	..	20.1	29	-3.4	3	87	16	..	20	11	176
New Plymouth Aero	27	..	..	..	..	..	..	..	..	..	..	..	..	..	202
New Plymouth AWS	30	14.7	6.2	10.5	-0.9	17.7	23	1.9	26	78	16	-39	12	12	..
Lower Retaruke Cws	233	14.9	4.1	9.5	..	19.3	10	-1.6	3	88	15	..	25	11	..
Mt Ruapehu, Chateau E	1097	8.0	-1.3	3.4	-1.3	14.0	29	-5.3	26	203	14	-63	40	12	..
Pahiatua EWS	110	14.0	4.3	9.2	..	17.8	30	-1.0	3	72	14	..	23	19	..
Alfredton EWS	240	14.3	3.8	9.1	..	17.8	30	-2.5	22	51	15	..	19	19	..

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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 Aero AWS	138	15.3	1.7	8.5	..	19.7	10	-3.4	3	46	12	..	14	19	..
Kopua	311	14.5	3.8	9.2	-0.4	20.5	10	-1.0	27	58	8	-33	25	19	..
Takapau Plains AWS	330	13.4	3.0	8.2	..	18.5	10	-2.0	22	56	16	..	24	19	..
Dannevirke	207	14.4	5.1	9.8	-0.4	18.0	29	1.0	5	60	11	-28	28	19	205
Dannevirke EWS	207	13.4	3.8	8.6	..	17.5	10	-0.9	5	56	11	..	27	19	202
Waione EWS	48	16.5	5.5	11.0	..	21.0	10	-0.3	5	66	11	..	30	19	..
Cape Turnagain AWS	292	11.3	7.1	9.2	..	16.0	10	2.0	14	..	..	..	..	..	..
Akitio EWS	245	12.8	5.9	9.4	..	17.2	10	0.8	14	75	9	..	35	19	233
Castlepoint Station	9	15.0	7.4	11.2	..	18.4	10	1.5	3	61	8	-15	23	13	..
Castlepoint AWS	120	13.6	7.6	10.6	-1.0	17.0	10	2.0	14	46	10	..	19	19	..
Baring Head	79	12.7	7.7	10.2	..	16.9	30	3.5	3	38	12	..	14	25	..
Te Wharau, Brackenfie	292	13.8	3.2	8.5	..	18.0	30	-1.2	3	55	11	..	21	19	..
Martinborough EWS	20	15.0	2.8	8.9	..	19.6	30	-1.9	3	35	9	..	12	13	197
Ngawi AWS	6	14.8	8.4	11.6	..	17.9	30	4.7	14	41	8	..	19	19	..
Hicks Bay AWS	46	15.7	8.0	11.9	-0.5	18.1	7	4.3	3	38	13	..	9	11	..
Gisborne Aero	4	..	..	..	..	..	..	..	..	..	..	..	..	..	242
Gisborne AWS	5	16.8	4.9	10.9	-0.9	20.1	24	0.3	22	18	9	-69	7	25	..
Tolaga Bay Wxt AWS	12	15.1	6.0	10.6	..	18.6	24	1.7	3	..	..	..	..	..	..
Napier Aero AWS	3	16.7	4.6	10.7	-0.7	20.4	15	0.4	22	21	5	-48	13	19	..
Napier Nelson Pk	2	17.0	4.4	10.7	-1.3	20.4	9	-0.5	3	28	6	-37	14	19	244
Hastings AWS	16	17.0	3.8	10.4	..	20.6	10	-1.6	3	32	6	..	15	25	..
Whakatu EWS	5	16.4	2.7	9.6	..	19.9	10	-2.3	3	18	5	..	13	19	..
Waipawa EWS	130	15.6	2.2	8.9	..	20.1	10	-2.9	3	33	7	..	22	19	247
Wairoa, North Clyde E	15	16.4	4.4	10.4	-1.4	21.3	10	0.6	3	36	7	-73	17	19	..
Mahia Radar Wxt AWS	419	12.0	6.8	9.4	..	15.3	24	3.5	26	..	..	..	..	..	..
Mahia AWS	136	15.2	7.0	11.1	-0.5	19.5	6	2.2	3	33	9	..	13	19	..
Cape Kidnappers Wxt A	118	13.3	8.5	10.9	..	..	..	..	..	..	..	..	..	..	..
Paraparamu Aero	5	14.3	5.7	10.0	-0.9	18.0	30	-0.9	26	37	11	-47	8	11	185
Paraparamu Aero AWS	5	14.0	6.1	10.1	-0.7	17.6	30	-0.4	26	35	12	..	8	19	204
Ohakea AWS	50	14.5	6.9	10.7	..	20.1	30	3.0	23	..	..	..	..	..	..
Palmerston North AWS	39	14.8	5.6	10.2	-0.6	19.8	30	0.3	21	41	12	-44	23	19	..
Palmerston North EWS	21	14.6	5.5	10.1	..	19.6	30	-0.3	21	37	10	..	22	19	136
Levin AWS	14	14.5	5.9	10.2	-0.8	18.7	30	0.8	23	51	13	..	16	19	..
Mana Island	2	14.8	8.0	11.4	+0.2	17.5	30	2.4	3	24	11	..	6	19	..
Wellington, Kelburn	125	..	..	..	..	..	..	..	..	..	..	..	..	..	204
Wellington, Kelburn A	125	13.3	7.2	10.3	..	17.3	30	2.7	26	63	11	..	14	25	..
Wellington Aero	4	13.9	7.8	10.9	-0.4	17.8	30	3.6	14	56	11	-22	16	25	..
Wallaceville EWS	56	14.2	3.5	8.9	..	18.5	30	-3.3	3	53	13	-59	14	11	162
Stratford EWS	300	13.5	4.7	9.1	..	17.6	29	1.0	3	75	16	..	19	11	167
Hawera AWS	98	14.0	6.0	10.0	..	18.0	30	1.3	5	73	13	..	13	12	..
Ohakune EWS	607	12.7	3.2	8.0	..	18.7	10	-2.1	3	99	12	..	22	12	166
Waiouru Treatment Pla	806	10.5	0.8	5.7	-0.8	16.6	10	-3.6	3	103	14	+13	21	13	..
Waiouru AWS	820	10.2	0.4	5.3	..	16.2	10	-5.6	3	96	15	-2	19	12	..
Waiouru Airstrip AWS	818	9.8	0.3	5.1	..	15.3	10	-4.7	3	91	15	..	19	12	..
Taihape Rec	433	13.8	1.7	7.8	-1.3	19.5	10	-3.5	3	69	13	-8	14	13	..
Flat Hills Wxt AWS	263	13.3	5.8	9.6	..	18.5	30	1.3	3	..	..	..	..	..	..
Wanganui, Spriggens Pa	15	15.5	7.4	11.5	-0.2	19.4	10	4.0	26	38	8	-34	22	19	..
Wanganui AWS	8	15.0	7.4	11.2	-0.3	..	..	..	..	33	8	..	20	19	..
Wanganui 2 AWS	18	15.7	6.7	11.2	..	20.7	10	2.9	3	..	..	..	..	..	..
Takaka, Kotinga 2	25	15.5	3.4	9.5	-0.8	18.5	9	..	..	79	9	-97	39	11	..
Takaka EWS	20	15.4	3.4	9.4	..	18.4	9	-1.8	3	76	9	..	39	11	234
Farewell Spit AWS	3	15.1	7.7	11.4	-0.1	17.0	28	4.7	20	57	12	..	18	11	..
Westport Aero AWS	2	13.9	6.6	10.3	-0.3	16.5	30	1.8	26	126	19	-69	21	14	..
Arapito	18	14.1	5.6	9.9	-0.8	18.4	30	0.8	26	170	13	-63	29	11	165
Arapito EWS	18	13.6	4.9	9.3	..	18.0	30	0.0	26	167	16	..	29	11	..
Murchison EWS	185	15.2	3.4	9.3	..	21.8	30	-0.2	29	61	18	-82	16	15	..
Lake Rototiti EWS	634	13.0	0.2	6.6	..	18.3	23	-5.3	26	65	16	..	18	11	..
Hokitika Aero	39	12.9	4.9	8.9	-0.9	17.4	30	0.4	26	104	19	-146	20	14	162
Hokitika AWS	38	13.0	4.7	8.9	-0.9	17.5	30	0.3	26	97	19	..	17	14	..
Reefton EWS	198	13.9	3.7	8.8	-0.5	20.0	30	-1.5	20	115	18	-63	19	8	127
Greymouth Aero	4	13.3	6.2	9.8	-0.6	17.6	30	1.6	26	136	20	-71	24	8	145
Greymouth Aero EWS	5	12.3	5.7	9.0	..	16.8	30	1.3	26	128	20	..	24	8	165
Pigeon Creek Cws	105	12.7	4.0	8.4	..	18.6	30	-0.7	2	149	19	..	43	8	..

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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		
Mahanga EWS	1995	5.2	-2.2	1.5	..	14.1	6	-7.0	2	50	16	..	13	18	..
Okarito	2	12.9	4.7	8.8	..	17.3	30	-0.6	2	159	21	-96	34	8	..
Franz Josef	155	13.2	3.6	8.4	-0.8	19.0	30	..	..	239	17	-199	92	8	..
Franz Josef EWS	80	12.5	3.4	8.0	..	18.1	30	-1.5	2	206	18	..	84	8	147
Haast AWS	5	12.4	4.1	8.3	-0.8	16.4	30	-0.5	14	195	16	..	35	10	..
Milford Sound	3	12.2	3.4	7.8	-0.7	20.8	30	-0.3	2	327	19	-190	98	10	..
Milford Sound AWS	3	12.2	3.1	7.7	..	20.8	30	-0.4	2	252	18	..	95	10	..
Castle Mount EWS	2000	2.3	-5.7	-1.7	..	11.3	20	-11.1	25	222	22	..	45	10	..
Secretary Island AWS	19	11.2	6.6	8.9	..	15.7	30	2.4	25	320	25	..	42	10	..
Puysegur Point AWS	44	10.7	6.8	8.8	-0.5	15.0	30	3.1	25	219	24	+46	57	10	..
Motueka, Riwaka EWS	8	16.6	2.2	9.4	-0.8	20.9	28	-0.7	3	62	11	-54	47	11	..
Pelorus Sd, Crail Bay	13	15.5	6.5	11.0	-0.2	20.4	29	2.6	3	73	11	-83	20	17	..
Nelson Aero	2	15.1	4.7	9.9	-0.3	19.1	28	1.4	2	31	8	-39	20	11	250
Appleby 2 EWS	18	15.1	2.9	9.0	..	18.0	28	-0.3	26	43	7	..	28	11	247
Nelson AWS	4	15.4	4.9	10.2	-0.3	18.3	28	2.3	10	33	8	..	21	11	..
Blenheim Research EWS	4	16.1	4.4	10.3	-0.5	20.2	30	0.9	4	34	7	-18	10	25	249
Wairau Valley, Mill R	172	15.5	3.2	9.4	..	20.1	30	-1.4	2	46	7	..	34	11	..
Blenheim Aero AWS	35	15.8	2.3	9.1	-1.2	20.3	30	-1.4	4	41	7	-24	11	19	..
Brothers Island AWS	68	13.7	9.1	11.4	..	16.8	30	5.8	26	62	9	..	22	17	..
Awatere Valley, Dashw	83	15.2	3.9	9.6	..	18.7	8	-0.2	22	19	7	..	5	13	..
Grassmere Salt Works	2	15.4	6.7	11.1	+0.2	19.2	8	2.0	3	20	7	-23	9	19	..
Cape Campbell AWS	2	12.8	7.6	10.2	..	16.3	15	2.8	14	34	9	..	13	13	..
Hanmer Forest EWS	363	15.9	-1.3	7.3	-0.7	22.3	30	-4.6	3	35	9	-62	12	19	..
Kaikoura AWS	105	13.5	6.4	10.0	-0.1	18.5	10	2.5	2	34	8	-33	12	19	..
Arthurs Pass	738	9.6	0.0	4.8	-0.5	16.1	23	-4.4	14	151	..	-216	45	8	..
Arthurs Pass EWS	738	9.6	-0.1	4.8	..	16.0	23	-4.6	26	123	16	..	43	8	..
Culverden AWS	181	15.1	2.2	8.7	..	20.1	5	-2.3	26	..	..	..	..	..	..
Waipara North Branch	560	13.0	1.9	7.5	..	18.2	5	-4.9	26	35	9	..	13	19	..
Waiatu School Cws	136	16.7	2.3	9.5	..	21.3	30	-2.2	26	41	10	..	13	19	..
Cheviot EWS	75	15.3	2.2	8.8	..	20.3	10	-1.8	26	33	6	..	13	1	223
Upper Rakaia EWS	1752	5.7	-8.0	-1.2	..	13.7	5	-13.7	2	39	17	..	6	11	..
Mt Potts EWS	2128	2.7	-5.1	-1.2	..	11.9	5	-11.6	2	7	8	..	4	18	..
Mt Cook EWS	765	13.5	0.1	6.8	+0.2	19.4	30	-5.7	14	145	11	-171	59	8	151
Craigieburn Forest	914	12.6	-1.5	5.6	-0.2	18.1	30	-5.9	26	102	18	-21	44	18	..
Snowdon EWS	560	14.5	2.1	8.3	..	20.8	5	-5.4	2	43	10	..	8	19	..
Methven, Three Spring	305	13.7	1.6	7.7	..	19.5	30	-4.3	2	49	9	..	12	24	..
Methven Cws	313	14.0	2.6	8.3	..	20.1	30	-2.5	2	45	9	..	12	19	..
Winchmore EWS	160	15.3	1.7	8.5	-0.4	20.1	10	-2.6	2	49	9	-6	12	1	..
Peel Forest	286	14.8	0.0	7.4	-0.8	20.2	10	-4.5	14	63	9	-17	18	24	..
Ashburton Council	101	15.7	2.6	9.2	-0.3	20.8	10	-3.1	28	42	12	-9	12	24	..
Ashburton Aero AWS	89	14.5	2.2	8.4	..	19.7	10	-2.0	14	48	8	..	13	24	226
Wakanui Cws	53	14.4	3.0	8.7	..	20.4	10	0.2	27	36	6	..	14	24	..
Waipara West EWS	130	15.7	4.2	10.0	..	21.7	30	0.2	7	51	6	..	22	19	..
Rangiora EWS	23	15.4	3.0	9.2	-0.1	21.0	24	-2.1	3	30	8	..	12	1	216
Darfield 2 EWS	212	14.6	2.8	8.7	..	18.8	27	-2.3	14	29	8	..	10	19	..
Christchurch Aero	37	14.5	2.6	8.6	-0.7	20.2	27	-3.0	3	21	8	-25	8	1	197
Christchurch Gardens	7	14.8	4.1	9.5	-0.5	20.8	27	-1.8	27	25	8	-22	8	1	..
Christchurch, Kyle St	6	14.9	3.9	9.4	..	22.0	27	-2.1	26	24	7	..	7	1	..
Lincoln, Broadfield E	18	14.0	3.6	8.8	-0.5	19.9	27	-2.0	3	30	8	..	8	24	..
Sugar Loaf AWS	618	12.0	4.0	8.0	..	17.1	27	-1.2	2	..	..	..	..	..	..
Lyttelton Harbour	5	13.5	6.6	10.1	..	18.8	24	2.6	2	18	8	..	4	1	..
Leeston, Harts Creek	12	14.2	3.4	8.8	..	19.2	27	-0.5	26	25	7	..	9	1	..
Leeston EWS	15	15.5	3.6	9.6	..	21.0	28	-0.5	26	22	12	..	7	1	..
Dorie Cws @ Lefereks	55	14.7	3.6	9.2	..	19.4	10	-0.4	3	22	6	..	8	24	..
Akaroa EWS	45	14.9	5.9	10.4	..	20.4	24	1.8	2	49	8	..	16	19	202
Le Bons Bay AWS	236	11.8	5.6	8.7	-0.2	17.0	24	1.2	2	36	8	..	9	19	..
Lake Tekapo, Air Safa	762	12.6	-0.2	6.2	-0.3	18.1	30	-4.8	8	10	7	-41	4	8	..
Lake Tekapo EWS	762	13.1	0.2	6.7	..	19.4	30	-3.9	25	9	5	..	4	8	245
Fairlie AWS	403	13.3	1.8	7.6	..	17.7	24	-1.7	2	..	..	..	..	..	..
Pukaki Aerodrome AWS	473	15.6	-2.2	6.7	..	20.3	30	-6.1	14	9	8	..	4	14	..
Hakataramea Valley Cw	355	14.6	1.7	8.2	..	19.8	30	-2.2	2	11	7	..	5	14	..
Orari Estate	81	15.0	1.6	8.3	-0.5	20.1	28	-1.4	2	30	8	-21	13	24	..
Orari Estate Cws	81	14.2	1.4	7.8	..	19.6	28	-1.2	2	31	11	..	13	24	..

Summary of the records of Temperature, Rainfall and Sunshine September 2011

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		
Timaru Aero AWS	26	14.8	0.6	7.7	-0.8	21.2	8	-3.1	14	31	9	-7	10	24	..
Timaru EWS	17	13.4	3.0	8.2	..	20.6	8	-0.8	2	31	9	..	11	1	..
Waimate Cws	55	14.7	3.5	9.1	..	20.0	8	0.2	18	10	7	..	3	19	..
Oamaru Airport AWS	30	13.8	2.6	8.2	..	18.9	8	-1.3	2	12	8	..	4	14	..
Albert Burn	1280	8.0	-2.2	2.9	..	..	..	-7.5	2	111	19	..	42	10	..
Eglinton, Knobs Flat	365	12.4	1.2	6.8	..	19.1	30	-3.5	2	109	18	..	31	10	..
Tara Hills AWS	488	14.9	-0.5	7.2	+0.0	20.5	30	-4.3	25	9	5	-29	5	11	..
Wanaka Aero AWS	352	14.4	2.0	8.2	..	19.6	30	-2.5	2	13	6	..	5	10	..
Naseby Forest 2	607	12.5	0.5	6.5	+0.1	17.0	8	-3.3	25	27	7	-14	11	14	..
Windsor EWS	81	14.9	2.7	8.8	..	18.8	28	-1.0	17	10	8	..	6	14	..
Ranfurly EWS	450	14.5	0.3	7.4	..	20.8	30	-4.0	21	25	8	..	9	15	..
Oamaru AWS	40	14.1	4.1	9.1	..	19.0	27	0.6	2	19	15	..	6	14	..
Rock And Pillar AWS	270	13.6	2.2	7.9	..	20.2	30	-3.3	21	..	..	..	..	..	..
Palmerston	21	13.9	2.5	8.2	-0.2	19.0	27	-2.0	18	20	8	-26	7	11	180
Middlemarch EWS	213	14.7	2.3	8.5	..	21.6	30	-2.8	18	18	10	..	8	14	182
Swampy Summit AWS	722	8.7	1.3	5.0	..	14.7	7	-3.7	2	..	..	..	..	..	..
Dunedin Aero AWS	1	13.7	2.9	8.3	-0.3	20.5	30	-3.0	21	21	14	-27	3	11	..
Dunedin, Musselburgh	4	12.8	5.9	9.4	+0.1	17.6	27	1.3	17	26	10	-27	6	8	190
Murchison Mtns EWS	1140	6.3	-1.0	2.7	..	15.3	20	-6.0	2	150	22	..	58	10	..
Takahe Valley Cws	895	7.1	-1.2	3.0	..	15.2	30	-6.9	2	207	23	..	47	10	..
Manapouri, West Arm J	178	10.5	3.4	7.0	..	16.0	23	-1.2	14	212	21	..	50	10	..
Manapouri Aero AWS	209	12.6	1.7	7.2	..	20.7	30	-4.3	2	61	15	..	25	10	..
Birchwood Wxt AWS	147	12.0	3.4	7.7	..	..	..	..	..	..	..	..	..	..	..
Queenstown	329	14.1	2.8	8.5	-0.1	20.0	30	-1.1	14	28	10	-41	9	14	164
Queenstown Aero AWS	354	13.1	1.4	7.3	-0.1	18.5	30	-2.8	14	34	10	-18	17	14	..
Lumsden AWS	187	12.8	2.6	7.7	-0.2	18.4	30	-2.3	21	60	14	..	14	11	..
Riversdale Aquifer @	125	13.1	2.9	8.0	..	20.0	30	-1.3	18	55	15	..	10	12	..
Cromwell EWS	213	14.9	1.8	8.4	..	20.8	30	-1.7	5	12	8	..	7	14	..
Lauder EWS	375	14.1	0.9	7.5	..	20.6	30	-3.9	2	36	9	..	15	24	..
Ophir 2	305	14.8	-1.5	6.7	..	20.4	30	-5.0	2	19	7	..	6	14	..
Alexandra	150	16.8	1.3	9.1	..	23.2	30	-2.8	5	17	9	..	8	14	185
Clyde EWS	171	15.2	1.9	8.6	+0.0	20.8	30	-1.8	20	14	6	..	8	14	..
Alexandra Cws	140	15.6	2.1	8.9	..	22.0	30	-1.6	20	15	8	..	9	14	..
Roxburgh Wxt AWS	160	14.3	3.7	9.0	..	21.2	30	0.1	25	..	..	..	..	..	..
Ettrick No.2	91	14.8	1.9	8.4	-0.2	21.6	30	-2.4	18	29	8	..	8	13	..
Tapanui	180	13.2	2.6	7.9	-0.2	21.8	30	-0.9	21	90	..	+19	17	12	..
Waitutu Cws	30	12.2	3.8	8.0	..	16.6	20	0.2	14	257	23	..	33	25	..
Winton 2	44	13.4	4.4	8.9	+0.4	21.0	30	0.0	26	109	15	+46	15	15	147
Gore AWS	123	12.4	4.2	8.3	+0.1	19.3	30	0.7	2	108	19	+47	18	12	..
Invercargill Aero		12.0	4.1	8.1	-0.2	19.7	30	-0.1	25	114	21	+34	14	11	143
Invercargill Aero AWS	1	12.4	4.4	8.4	..	20.1	30	0.7	18	113	22	..	16	15	..
Invercargill Aero 2 E		..	..	..	..	..	..	..	..	99	21	..	12	11	136
Tiwai Point EWS	5	11.8	5.5	8.7	-0.2	..	..	..	..	73	22	-9	12	15	..
Balclutha, Telford Ew	11	12.8	3.8	8.3	..	17.7	30	-1.5	21	28	15	..	5	11	190
Nugget Point AWS	129	10.8	4.7	7.8	-0.6	16.1	6	0.3	26	58	18	..	10	12	..
Tautuku	25	12.1	4.2	8.2	-0.2	17.0	6	0.0	21	97	17	+1	15	12	..
South West Cape AWS	101	10.2	5.9	8.1	..	15.2	30	1.7	25	134	25	..	18	10	..
Solomon, Taro Is	3	30.2	24.3	27.3	..	..	..	..	..	..	..	..	..	..	..
Solomon, Munda	6	31.2	23.8	27.5	..	32.4	30	21.4	3	210	17	..	23	6	..
Solomon, Auki	11	31.6	23.3	27.5	..	..	..	..	..	..	..	..	..	..	..
Solomon, Honiara	56	32.4	23.4	27.9	..	33.8	15	21.5	13	62	8	..	23	6	..
Solomon, Henderson	9	32.4	22.1	27.3	..	33.8	18	..	..	..	..	..	..	..	..
Solomon, Santa Cruz	24	30.5	24.1	27.3	..	..	..	22.5	15	263	17	..	116	22	..
Vanuatu,Sola	13	30.0	..	..	..	..	..	..	..	..	..	..	..	..	..
Vanuatu,Pekoa	56	29.3	22.3	25.8	..	..	..	18.5	25	114	18	..	21	21	..
Vanuatu,Lamap	22	..	23.2	..	..	..	..	..	..	..	..	..	..	..	..
Vanuatu, Bauerfield	20	..	19.0	..	..	..	..	..	..	49	11	..	23	12	..
Vanuatu,Burtonfield	70	27.3	16.1	21.7	..	..	..	..	..	4	5	..	3	10	..
Vanuatu,Aneityum	6	26.3	18.1	22.2	..	..	..	14.5	24	..	..	..	..	..	..
New Cal, Koumac	18	24.4	19.2	21.8	..	..	..	..	..	..	..	..	..	..	..
New Cal, Oulop	7	25.4	20.0	22.7	..	27.5	9	13.5	29	30	12	..	19	3	..
New Cal, Ouanaham	29	25.4	15.9	20.7	..	27.0	30	9.8	29	..	..	..	..	..	..
New Cal, Poinoimie	13	25.0	19.5	22.3	..	..	..	17.2	28	25	10	..	9	6	..

Summary of the records of Temperature, Rainfall and Sunshine September 2011

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		
New Cal, La Roche	42	24.2	15.6	19.9	..	26.6	27	10.9	17	76	18	..	49	6	..
New Cal, La Tontouta	14	25.8	14.3	20.1	..	30.1	10	11.4	27	18	8	..	13	10	..
New Cal, Nouma	72	23.1	19.4	21.3	..	..	..	17.0	17	..	..	..	..	..	..
New Cal, Moue	97	23.9	17.0	20.5	..	..	..	12.9	16	76	11	..	51	6	..
Kiribati, Tarawa	2	..	25.5	..	..	..	..	..	..	..	..	..	..	..	..
Tuvalu, Nanumea Is	2	31.8	25.9	28.9	..	..	..	..	..	..	..	..	..	..	..
Tuvalu, Nui Is	2	31.6	26.7	29.2	..	..	..	..	..	..	..	..	..	..	..
Tuvalu, Funafuti Aero	1	31.5	26.8	29.2	..	..	..	..	..	..	..	..	..	..	..
Tuvalu, Niulakita Is	3	31.8	24.8	28.3	..	..	..	..	..	..	..	..	..	..	..
Fiji, Nadi Aero	15	28.7	20.8	24.8	..	31.3	18	16.1	24	..	..	..	..	..	..
Fiji, Nadi EWS	15	28.5	20.7	24.6	..	30.8	18	16.3	24	6	7	..	3	29	..
Fiji, Nausori Aero	6	27.1	20.5	23.8	..	30.2	9	16.6	24	..	..	..	..	..	..
Wallis Island, Hihifo	27	30.6	24.6	27.6	..	31.3	28	20.2	22	..	..	..	..	..	..
Maopoopo, Futuna Isla	36	29.7	23.9	26.8	..	..	..	21.1	29	139	19	..	49	28	..
Samoa, Faleolo	4	30.6	22.1	26.4	..	..	..	..	..	..	..	..	..	..	..
Samoa, Apia	1	29.8	22.3	26.1	..	..	..	..	..	..	..	..	..	..	..
Tonga, Queen Lavinia	60	..	23.1	..	..	..	..	..	..	..	..	..	..	..	..
Tonga, Lupepauu	67	26.6	20.0	23.3	..	..	..	14.8	16	..	..	..	..	..	..
Salote Pilolevu Airpo	2	26.3	21.2	23.8	..	..	..	..	..	..	..	..	..	..	..
Tonga, Fuaamotu Aero	38	25.8	17.4	21.6	..	31.0	30	..	..	..	..	..	..	..	..
Niue, Hanan Airport O	59	..	21.8	..	..	..	..	..	..	..	..	..	..	..	..
CI Rarotonga Aero	7	27.2	22.3	24.8	..	..	..	..	..	..	..	..	..	..	..
Rarotonga EWS	4	27.3	22.2	24.8	..	28.8	30	17.9	15	22	11	..	9	22	..
Hiva Hoa, Atuona	51	29.0	23.1	26.1	..	30.7	16	21.6	23	32	17	..	7	10	..
Tahiti - Faaa	1	30.0	22.8	26.4	..	30.9	18	21.0	7	0	0	..	0	1	..
Tuamotu, Takaraoa	2	26.9	24.8	25.9	..	..	..	..	..	..	..	..	..	..	..
Tuamotu, Hao	3	27.6	23.6	25.6	..	28.7	19	21.8	11	..	..	..	..	..	..
Tuamotu, Hereheretue	3	28.0	22.5	25.3	..	29.1	24	19.5	24	..	..	..	..	..	..
Gambier, Rikitea	91	24.9	19.8	22.4	..	28.3	23	17.9	10	42	11	..	12	28	..
Tubuai	2	25.8	20.4	23.1	..	..	..	..	..	..	..	..	..	..	..
Rapa	1	22.7	17.5	20.1	..	24.9	23	13.4	21	209	16	..	53	11	..
Pitcairn Is	264	22.3	17.5	19.9	..	..	..	14.9	..	..	..	..	..	..	207
Raoul Island AWS	49	19.6	14.5	17.1	..	21.6	9	10.4	25	85	20	..	53	8	..
Enderby Is AWS	40	8.1	4.3	6.2	..	10.7	30	0.1	2	80	27	..	21	11	..
Campbell Island AWS	19	7.3	3.2	5.3	-0.4	9.6	30	-2.6	15	..	..	..	..	..	..
Chatham Islands AWS	48	11.5	6.6	9.1	-0.3	15.2	10	2.1	4	75	19	+2	13	11	..
Chatham Island EWS	14	12.7	6.2	9.5	..	16.4	25	-0.8	19	69	17	..	14	11	..
Georg Von Neumayer	40	-20.5	-30.0	-25.3	..	-6.8	14	-44.4	22	..	..	..	..	..	..
Ant South Pole	2827	-55.7	-63.7	-59.7	..	-38.3	30	-72.8	16	..	..	..	..	..	..
Halley Bay	30	-23.5	-33.1	-28.3	..	..	..	-46.4	3	..	..	..	..	..	..
Gen Belgrano 2	32	-20.4	-28.8	-24.6	..	..	..	..	..	..	..	..	..	..	..
Base Jubany	4	-1.6	-8.8	-5.2	..	..	..	..	..	..	..	..	..	..	..
Dinamet	10	-2.5	-8.8	-5.7	..	..	..	..	..	..	..	..	..	..	..
V C Marambio	198	-12.2	-19.9	-16.1	..	..	..	..	..	..	..	..	..	..	..
Eduardo Frei	10	-3.2	-9.5	-6.4	..	2.5	3	-17.3	18	..	..	..	..	..	..
Arturo Prat	..	-2.9	-9.7	-6.3	..	5.0	4	-16.4	22	..	..	..	..	..	..
Bernado Ohiggins	10	-4.9	-9.7	-7.3	..	0.0	3	-18.2	17	..	..	..	..	..	..
Palmer Station	8	-2.2	-9.0	-5.6	..	4.0	3	-19.1	28	..	..	..	..	..	..
Rothera Point	16	-5.6	-12.4	-9.0	..	2.4	1	-23.0	26	..	..	..	..	..	..
Argentine Is, Faraday	11	-3.0	-10.0	-6.5	..	4.5	1	-20.5	26	..	..	..	..	..	..
Gen San Martin	4	-4.8	-14.1	-9.5	..	..	..	..	..	..	..	..	..	..	..
King Sejong	11	-3.7	-7.9	-5.8	..	..	..	..	..	..	..	..	..	..	..
Novolax Arevskaja	99	-13.8	-18.3	-16.1	..	..	..	-29.6	18	..	..	..	..	..	..
Mawson	16	-12.8	-19.5	-16.2	..	-6.0	2	-24.0	14	..	..	..	..	..	..
Davis	13	-10.9	-17.9	-14.4	..	-5.6	1	-25.7	22	..	..	..	..	..	..
Progress	64	-12.0	-15.9	-14.0	..	..	..	..	..	..	..	..	..	..	..
Vostok	3420	-59.8	-67.1	-63.5	..	-34.3	26	-77.8	24	..	..	..	..	..	..
Casey	41	-10.1	-16.9	-13.5	..	-4.7	9	-27.1	28	..	..	..	..	..	..
Durmout Durville	43	-11.8	-17.7	-14.8	..	-5.3	15	-26.8	28	..	..	..	..	..	..
Mcmurdo	24	-19.1	-26.5	-22.8	..	-8.4	1	-40.1	24	..	..	..	..	..	..
Ant Scott Base	16	-21.1	-30.2	-25.7	..	-9.7	11	-45.0	22	..	..	..	..	..	..
Ant Arrival Heights E	185	-20.4	-28.0	-24.2	..	-10.6	1	-43.0	24	..	..	..	..	..	..
Ant Scott Base EWS	16	-20.1	-28.8	-24.5	..	-8.8	11	-43.3	22	..	..	..	..	..	..

Summary of the records of Temperature, Rainfall and Sunshine September 2011

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		
Casey, Skiway South	392	-12.8	..	..	..	..	..	..	..	..	..	..	..	..	
Darwin Airport	31	32.8	14.7	23.8	..	34.9	27	11.2	19	3	1	..	3	9	
Hobart Airport	4	20.4	6.6	13.5	..	32.9	26	1.9	2	31	13	..	9	28	
Late returns and corrections for August 2011															
Firth Of Thames EWS	1	16.6	3.3	10.0	..	19.7	28	-2.6	16	62	8	..	18	11	
Mt Ruapehu, Chateau E	1097	7.0	-2.0	2.5	-0.7	11.7	23	-9.5	16	100	17	-155	15	6	
Waipawa EWS	130	13.2	2.3	7.8	..	19.4	30	-2.6	6	75	12	..	18	17	
Waiouru Airstrip AWS	818	7.3	-1.1	3.1	..	15.2	30	-11.1	16	..	..	..	..	..	
Boyle River Lodge	600	10.7	-1.2	4.8	..	15.5	23	-7.1	20	76	17	..	20	6	
Waipara North Branch	560	10.6	1.4	6.0	..	16.8	23	-5.4	20	49	9	..	19	17	
Christchurch Gardens	7	12.7	1.6	7.2	-0.5	22.0	24	-5.2	3	54	9	-15	18	15	
Windsor EWS	81	13.0	0.0	6.5	..	19.0	22	-4.1	20	33	8	..	14	16	
Cromwell EWS	213	12.0	-1.3	5.4	..	17.6	25	-5.9	13	9	7	..	4	5	
Solomon, Munda	6	30.2	23.8	27.0	..	..	..	..	..	..	..	..	..	..	
Fiji, Nadi EWS	15	28.0	19.9	24.0	..	..	..	..	..	3	4	..	3	2	
Late returns and corrections for July 2011															
Auckland, North Shore	64	14.7	7.5	11.1	..	16.8	9	0.6	26	140	23	..	27	22	
Firth Of Thames EWS	1	16.6	5.7	11.2	..	19.0	10	-1.7	26	98	21	..	18	23	
Waiouru Airstrip AWS	818	6.7	-0.4	3.2	..	..	..	..	..	193	21	..	31	13	
Waipara North Branch	560	8.6	0.7	4.7	..	13.9	5	-3.3	19	97	13	..	24	7	
Fiji, Nadi EWS	15	29.0	20.6	24.8	..	31.4	19	18.0	21	1	2	..	1	24	
Late returns and corrections for June 2011															
Kaitaia Observatory	85	16.5	10.1	13.3	..	19.4	18	4.5	27	141	22	-2	20	10	
Firth Of Thames EWS	1	17.4	8.0	12.7	..	21.7	5	0.6	30	93	15	..	23	20	
Waipara North Branch	560	10.8	2.3	6.6	..	16.8	5	-2.6	22	36	8	..	26	28	
Fiji, Nadi EWS	15	29.5	20.8	25.2	..	31.3	10	16.3	28	26	5	..	14	26	
Late returns and corrections for May 2011															
Auckland, North Shore	64	18.7	11.4	15.1	..	21.8	12	5.4	19	147	21	..	26	11	
Firth Of Thames EWS	1	20.5	9.2	14.9	..	24.2	6	0.9	19	99	17	..	36	26	
Waipara North Branch	560	13.9	6.7	10.3	..	18.5	1	-0.7	18	82	14	..	28	25	
Fiji, Nadi EWS	15	30.1	22.4	26.3	..	32.0	27	20.2	25	23	5	..	11	2	
Late returns and corrections for April 2011															
Auckland, North Shore	64	20.2	12.2	16.2	..	24.2	4	5.9	19	147	14	..	66	25	
Firth Of Thames EWS	1	22.0	9.6	15.8	..	25.4	4	2.4	30	86	12	..	43	25	
Waipara North Branch	560	14.6	5.2	9.9	..	21.2	30	-3.2	28	58	13	..	22	17	
Late returns and corrections for March 2011															
Auckland, North Shore	64	22.5	14.2	18.4	..	25.7	4	8.8	8	159	10	..	76	21	
Firth Of Thames EWS	1	25.0	11.3	18.2	..	28.4	22	3.8	7	181	11	..	72	21	
Waipara North Branch	560	18.0	8.4	13.2	..	23.9	26	1.4	7	39	14	..	20	5	
Late returns and corrections for February 2011															
Auckland, North Shore	64	24.3	17.2	20.8	..	27.4	14	13.2	19	32	9	..	20	15	
Firth Of Thames EWS	1	27.2	15.2	21.2	..	30.3	14	7.2	28	12	5	..	8	8	
Waipara North Branch	560	20.4	10.4	15.4	..	..	..	..	..	..	..	..	..	..	
Late returns and corrections for January 2011															
Firth Of Thames EWS	1	26.9	13.8	20.4	..	31.2	18	9.0	2	274	8	..	138	28	
Late returns and corrections for December 2010															
Firth Of Thames EWS	1	25.4	14.5	20.0	..	28.8	15	7.3	10	62	9	..	28	19	
Fiji, Nadi EWS	15	30.5	22.5	26.5	..	32.8	29	20.4	25	349	24	..	75	18	
Late returns and corrections for November 2010															
Fiji, Nadi EWS	15	29.8	22.4	26.1	..	32.8	6	21.1	21	233	16	..	41	27	
Late returns and corrections for October 2010															
Fiji, Nadi EWS	15	30.6	22.3	26.5	..	33.4	2	19.8	5	126	11	..	71	12	

*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	mm	mm	mm	Hrs				

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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