

SEPTEMBER 2013

Summary of the records of Temperature, Rainfall and Sunshine September 2013

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	15.2	11.1	13.2	-0.3	..	..	..	..	..	..	..	..	..	
Kaitaia Aero EWS	80	16.6	10.4	13.5	+0.1	19.4	11	3.6	5	156	18	+63	30	21	
Kaitaia Observatory	85	16.5	10.3	13.4	..	19.0	11	4.4	5	176	22	+48	45	21	
Kaitaia EWS	85	16.4	10.4	13.4	+0.1	18.7	11	4.3	5	186	20	+81	46	21	
Kerikeri EWS	79	17.6	9.5	13.6	+0.5	..	..	0.7	5	137	20	-26	33	21	
Kerikeri Aerodrome Aw	150	16.7	9.1	12.9	+0.2	..	..	..	..	..	..	..	..	..	
Kaikohe AWS	204	15.6	9.5	12.6	+0.3	19.7	23	3.1	5	180	23	+56	46	21	
Dargaville 2 EWS	66	17.6	11.5	14.6	+1.6	22.1	20	4.6	5	141	18	+45	37	21	
Purerua AWS	82	16.5	10.3	13.4	..	19.9	28	3.7	5	105	22	..	18	21	
Whangarei Aero AWS	37	17.7	10.5	14.1	+0.7	22.4	22	3.4	5	163	20	+53	46	24	
Mokohinau AWS	60	15.7	12.3	14.0	+0.2	..	..	8.8	5	..	..	..	..	..	
Leigh 2	27	18.3	10.8	14.6	+0.9	..	..	..	..	..	..	..	..	..	
Warkworth EWS	72	16.5	9.1	12.8	+0.6	20.2	22	2.3	4	187	18	+56	105	24	
Whangaparaoa AWS	89	16.4	10.5	13.5	+0.3	20.0	27	6.3	5	130	20	+35	39	24	
Auckland, Whenuapai A	26	16.8	9.6	13.2	+0.8	20.5	20	2.0	3	..	..	..	..	..	
Auckland, North Shore	64	16.7	9.8	13.3	..	19.6	11	2.7	18	191	17	..	61	24	
Auckland, Henderson,	7	17.9	9.2	13.6	+0.9	21.3	20	1.9	18	195	22	+64	48	24	
Musick Pt Ews, Auckla	18	16.9	8.8	12.9	+0.1	..	..	..	..	..	..	..	..	..	
Waiheke Island, Awaro	34	17.2	8.9	13.1	..	20.0	22	3.4	4	154	..	+47	31	24	
Whitianga Aero AWS	5	16.8	9.0	12.9	+0.7	21.3	22	1.1	18	165	20	-4	52	24	
Thames 2	3	..	..	..	..	20.5	21	1.8	..	130	17	+34	60	24	
Paeroa AWS	18	16.6	8.3	12.5	+0.2	20.1	22	-0.7	6	58	18	-42	21	4	
Toenepi EWS	48	16.4	8.2	12.3	+0.5	19.2	22	0.9	4	73	16	..	16	21	
Matamata, Hinuera EWS	106	16.2	6.8	11.5	+0.8	19.4	22	-0.8	18	..	..	..	..	..	
Tauranga Aero	..	..	..	..	..	..	..	..	..	..	..	..	..	154	
Tauranga Aero AWS	4	17.1	9.8	13.5	+1.1	20.4	27	3.6	18	93	16	+9	35	24	
Te Puke EWS	91	16.7	8.7	12.7	+0.9	20.1	27	2.2	18	155	16	+29	53	24	
Whakatane Aero AWS	7	17.0	7.9	12.5	+0.9	20.8	27	0.4	18	128	16	+36	49	24	
Whakatane Sunshine	7	..	..	..	..	..	..	..	..	..	..	..	..	174	
White Island AWS	310	14.4	9.8	12.1	..	17.8	23	6.8	18	91	17	..	39	12	
Mamaku Radar WXT AWS	17	11.4	6.4	8.9	..	14.9	22	1.4	18	..	..	..	..	..	
Kawerau AWS	42	17.2	7.4	12.3	..	20.8	27	-0.3	18	..	..	..	..	148	
Rotorua Aero AWS	283	14.5	7.0	10.8	+0.6	17.3	22	-1.4	18	183	16	+75	36	21	
Galatea AWS	174	15.5	6.8	11.2	..	19.0	23	-0.7	3	..	..	..	..	..	
Taupo WXT AWS	385	14.6	7.4	11.0	..	18.9	25	0.9	19	..	..	..	..	..	
Tarapounamu EWS	701	11.0	5.0	8.0	..	15.9	25	0.6	18	205	22	..	41	11	
Taupo AWS	400	14.2	6.2	10.2	+1.1	18.7	25	-2.1	18	68	18	-14	17	21	
Motu EWS	488	14.6	5.6	10.1	+1.6	20.2	26	-2.8	19	370	22	+171	73	11	
Auckland, Mangere EWS	5	17.3	10.5	13.9	+0.9	20.7	27	3.1	18	145	18	+42	46	21	
Pakuranga, Auckland R	15	18.4	8.4	13.4	+0.8	..	..	..	..	..	..	..	..	..	
Penrose Ews, Auckland	30	16.6	7.5	12.1	-1.0	..	..	..	..	..	..	..	..	..	
Auckland Aero	7	16.9	10.3	13.6	+0.6	20.3	11	3.0	18	135	19	+45	39	21	
Auckland, Ardmore	23	17.4	7.6	12.5	+0.4	20.8	22	0.2	6	155	15	+46	32	21	
Pukekohe EWS	88	16.3	9.0	12.7	+0.5	19.2	27	0.9	6	152	19	+41	47	21	
Firth Of Thames EWS	1	18.2	7.9	13.1	..	20.6	25	-1.6	6	129	18	..	29	24	
Whatawhata 2 EWS	118	15.4	8.3	11.9	+0.3	17.9	20	-0.2	18	203	20	+57	46	21	
Hamilton, Ruakura 2 E	45	18.2	6.9	12.6	+1.1	21.5	21	-1.7	18	137	18	+45	31	21	
Hamilton AWS	53	16.5	7.2	11.9	+0.6	19.3	20	-2.2	18	160	19	+59	35	21	
Lake Karapiro CWS	55	15.6	8.0	11.8	..	18.4	22	1.1	6	136	19	..	25	4	
Port Taharoa AWS	27	16.5	9.7	13.1	+0.3	19.6	25	2.6	6	125	21	..	66	21	
Waikeria 2	46	16.9	6.7	11.8	+0.5	..	..	-1.3	6	105	..	+11	75	11	
Te Kuiti EWS	62	16.2	6.6	11.4	+0.0	19.7	25	-1.5	18	206	20	+76	91	21	
Pureora Forest CWS	549	12.3	4.7	8.5	..	17.3	25	-3.6	18	195	20	..	79	21	
Taumarunui	171	16.2	6.2	11.2	+0.6	22.2	25	-2.0	18	171	23	+24	57	21	
Taumarunui AWS	195	15.8	5.1	10.5	..	22.3	25	-3.9	18	186	24	..	65	21	
Turangi 2 EWS	350	14.7	5.1	9.9	+0.6	20.2	25	-4.3	18	141	20	+1	56	21	
New Plymouth AWS	30	15.2	8.5	11.9	+0.4	17.1	22	2.8	19	130	19	+10	25	21	
Mt Ruapehu, Chateau E	1097	9.6	1.7	5.7	+0.8	17.1	25	-4.9	6	437	22	+166	100	21	
Pahiatua EWS	110	14.1	6.3	10.2	..	17.9	23	-2.4	18	131	18	..	33	11	
Alfredton RAWs	240	14.7	6.1	10.4	..	18.6	23	-4.2	18	133	23	..	26	11	
Masterton Aero AWS	138	16.2	5.6	10.9	..	20.5	11	-3.5	19	107	21	..	32	4	
Masterton, Te Ore Ore	110	17.0	6.7	11.9	..	21.6	27	-2.2	19	96	15	+23	31	4	
Kopua	311	15.3	6.1	10.7	+0.7	21.5	20	0.1	19	132	16	+47	51	24	

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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		
Takapau Plains AWS	330	14.4	5.9	10.2	+0.6	20.0	20	-1.6	19	106	21	..	35	24	..
Dannevirke	207	15.1	7.1	11.1	+0.8	21.0	10	0.0	19	130	14	+41	37	11	118
Dannevirke EWS	207	16.0	7.0	11.5	..	20.0	11	-0.3	19	54	8	..	36	11	140
Waione RAWs	48	16.7	8.2	12.5	+1.0	21.8	21	-0.2	16	125	17	+52	40	24	..
Cape Turnagain AWS	292	13.0	8.4	10.7	..	18.0	11	3.4	18	..	..	..	..	..	..
Castlepoint Station	9	16.1	9.0	12.6	+0.5	20.4	23	3.2	16	101	13	+30	26	4	..
Castlepoint AWS	120	14.8	9.2	12.0	+0.4	19.1	21	4.9	18	93	15	+35	25	4	..
Baring Head	79	13.4	9.0	11.2	..	16.3	8	3.1	3	50	16	..	7	21	..
Te Wharau, Brackenfie	292	15.4	5.8	10.6	..	19.8	23	-0.7	19	276	16	..	137	24	..
Martinborough EWS	20	15.7	6.9	11.3	+0.6	19.2	27	-1.7	19	72	14	..	16	20	151
Ngawi AWS	6	15.4	10.0	12.7	+0.2	19.5	27	3.9	3	..	..	..	..	..	..
Hicks Bay AWS	46	16.3	10.7	13.5	+0.9	19.4	27	4.6	7	198	19	+103	73	24	..
Gisborne AWS	5	17.3	9.0	13.2	+1.1	21.4	21	2.0	4	158	15	+86	80	24	173
Gisborne EWS	12	17.9	9.4	13.7	..	21.3	23	3.6	4	100	16	..	56	24	..
Tolaga Bay WXT AWS	12	16.7	9.7	13.2	..	22.3	12	1.3	19	140	17	..	74	24	..
Tutira CWS	235	15.8	7.9	11.9	..	21.7	27	1.0	4	153	14	..	72	24	..
Napier Aero AWS	3	17.9	8.6	13.3	+1.7	23.6	20	0.0	19	60	10	+11	28	24	..
Napier Nelson Pk	2	18.4	8.8	13.6	+1.3	23.7	23	0.7	19	63	11	+5	24	25	152
Hastings AWS	16	18.1	7.8	13.0	..	24.1	20	0.2	19	93	15	..	47	24	..
Whakatu EWS	5	17.6	7.7	12.7	+2.0	23.1	20	-0.2	4	97	13	..	41	24	..
Waipawa EWS	130	16.8	6.3	11.6	..	..	..	..	..	72	14	..	27	24	189
Mahia Radar WXT AWS	419	13.3	8.4	10.9	..	..	..	..	..	..	..	..	..	..	..
Mahia AWS	136	15.7	9.9	12.8	+1.0	..	..	..	..	..	..	..	..	..	..
Cape Kidnappers WXT A 118	118	14.9	10.6	12.8	..	18.9	26	5.5	18	..	..	..	..	..	..
Paraparaumu Aero	5	15.4	7.5	11.5	+0.4	17.9	29	-2.1	18	105	13	+19	25	21	144
Paraparaumu Aero AWS	5	15.2	7.4	11.3	+0.3	17.6	20	-2.0	18	102	11	+14	24	21	169
Ohakea AWS	50	15.4	8.2	11.8	..	19.1	25	1.4	18	..	..	..	..	..	..
Palmerston North AWS	39	15.9	7.8	11.9	+1.0	19.4	20	-1.9	18	136	18	+51	32	21	..
Palmerston North EWS	21	15.3	7.8	11.6	+0.6	19.0	22	-0.2	3	108	13	+22	26	11	122
Levin AWS	14	15.5	7.3	11.4	+0.4	21.5	25	-1.9	18	122	16	+20	31	21	..
Mana Island AWS	100	12.6	8.6	10.6	..	14.8	26	4.0	3	101	13	..	20	20	..
Wellington, Kelburn	125	..	..	..	..	..	..	..	..	..	..	..	..	..	141
Wellington, Kelburn A	125	13.8	8.3	11.1	+0.3	16.9	26	3.6	3	147	19	+49	26	20	..
Wellington Aero	4	14.6	9.3	12.0	+0.4	17.5	8	4.3	14	108	14	+33	16	20	..
Wallaceville EWS	56	14.9	6.1	10.5	+0.1	17.6	26	-2.2	3	173	16	+66	37	11	114
Stratford EWS	300	14.4	6.8	10.6	+1.0	17.0	12	1.1	3	278	18	+97	66	11	140
Hawera AWS	98	14.6	8.1	11.4	+0.9	..	..	..	..	..	..	..	..	..	..
Waiouru Treatment Pla	806	11.9	2.8	7.4	+0.7	18.8	25	-4.8	18	152	18	+60	35	21	..
Waiouru Airstrip AWS	818	11.2	2.8	7.0	..	17.6	25	-4.9	18	127	22	..	31	21	..
Taihape Rec	433	15.3	4.4	9.9	+0.8	21.0	25	-4.0	3	124	..	+48	37	11	..
Flat Hills WXT AWS	263	14.6	6.7	10.7	..	19.8	25	-0.6	18	114	18	+17	32	11	..
Wanganui, Spriggens Pa	15	16.3	8.8	12.6	+0.7	21.3	20	1.5	18	81	17	+7	27	11	..
Wanganui AWS	8	15.6	8.6	12.1	+0.5	20.6	20	0.7	18	95	16	+16	25	11	..
Wanganui 2 AWS	18	16.7	8.3	12.5	..	21.3	20	0.9	18	..	..	..	..	..	..
Takaka EWS	20	16.5	5.1	10.8	+0.5	21.0	26	0.0	1	279	14	+82	94	19	184
Farewell Spit AWS	3	15.7	9.4	12.6	+0.8	19.4	26	5.5	6	116	12	-22	24	11	..
Westport Aero AWS	2	14.8	7.6	11.2	+0.5	18.4	30	2.9	14	175	22	-9	29	19	..
Arapito EWS	18	15.5	6.6	11.1	..	19.7	24	-0.2	5	209	22	..	30	11	..
Hokitika Aero	39	14.3	6.8	10.6	+0.7	19.0	24	1.3	17	287	19	+27	80	10	151
Hokitika AWS	38	14.2	6.7	10.5	+0.6	18.8	24	1.3	17	..	..	..	..	..	181
Reefton EWS	198	15.8	5.1	10.5	+1.0	20.1	30	-0.3	5	262	20	+85	81	10	139
Greymouth Aero	4	14.9	7.4	11.2	+0.9	19.9	24	3.5	1	214	19	+5	43	21	131
Greymouth Aero EWS	5	14.1	7.4	10.8	..	19.8	24	3.1	1	243	22	..	46	21	157
Pigeon Creek CWS	105	13.7	5.7	9.7	..	18.5	24	-1.1	1	530	20	..	120	10	..
Mt Philistine EWS	1655	2.9	-2.8	0.1	..	9.2	2	-7.9	5	585	21	..	256	10	..
Mahanga EWS	1995	3.2	-3.7	-0.3	..	9.9	27	-10.7	5	238	24	..	60	10	..
Ivory Glacier CWS	1390	4.4	-1.6	1.4	..	7.9	1	-7.8	15	695	20	..	239	10	..
Okarito	2	14.0	6.1	10.1	+0.2	18.7	25	0.5	1	213	18	-74	56	10	..
Franz Josef	155	14.6	..	..	..	21.1	25	..	..	377	..	-128	83	10	..
Franz Josef EWS	80	14.4	5.3	9.9	+0.9	21.3	25	0.3	15	350	16	..	83	27	202
Haast AWS	5	13.9	5.8	9.9	+0.7	21.0	25	1.3	14	286	16	..	63	10	..
Milford Sound	3	13.5	4.5	9.0	+0.4	18.6	28	0.3	18	639	20	+88	189	10	..
Milford Sound AWS	3	13.6	4.4	9.0	+0.4	18.8	28	-0.1	18	598	23	..	169	10	..

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Metres	°C	°C	°C	°C	°C	°C	°C	°C	mm	mm	mm	mm	Hrs		
Castle Mount EWS	2000	1.3	-5.0	-1.9	..	6.6	1	-11.6	15	166	16	..	59	10	..
Secretary Island AWS	19	13.3	7.5	10.4	+0.3	17.0	25	2.4	15	265	22	-74	39	20	..
Motueka, Riwaka EWS	8	17.5	4.3	10.9	+0.6	..	..	..	..	103	14	-19	21	29	..
Pelorus Sd, Crail Bay	13	15.4	8.1	11.8	+0.3	19.3	8	3.5	18	233	13	+75	47	21	..
Nelson Aero	2	16.3	6.5	11.4	+1.0	21.0	26	0.9	3	104	14	+19	30	21	191
Appleby 2 EWS	18	16.3	5.0	10.7	+0.3	20.2	26	-1.5	3	94	14	..	30	29	176
Nelson AWS	4	16.0	6.3	11.2	+0.6	20.0	26	0.6	5	89	15	..	29	21	..
Blenheim Research EWS	4	17.1	7.3	12.2	+1.2	..	..	..	..	..	..	..	..	..	..
Wairau Valley, Mill R	172	15.9	5.4	10.7	..	21.2	27	-1.2	3	128	15	..	46	11	..
Blenheim Aero AWS	35	16.6	4.8	10.7	+0.4	21.3	27	-1.7	3	78	12	+12	19	29	..
Brothers Island AWS	68	13.6	9.8	11.7	+0.1	..	..	..	..	..	..	..	..	..	..
Grassmere Salt Works	2	16.1	8.7	12.4	+0.8	20.5	11	2.7	14	112	9	+71	57	25	..
Cape Campbell AWS	2	13.1	8.8	11.0	-0.1	17.0	11	5.3	15	113	14	+74	55	24	..
Boyle River Lodge	600	13.4	2.2	7.8	+0.3	20.0	27	-4.5	1	325	22	+142	90	11	..
Hanmer Forest EWS	363	15.0	1.1	8.1	-0.2	23.0	27	-5.5	1	128	14	+48	26	11	..
Kaikoura AWS	105	14.2	7.6	10.9	+0.6	24.2	11	3.2	3	78	14	+21	27	24	..
Arthurs Pass	738	10.2	1.7	6.0	+0.5	15.3	26	-3.5	1	721	19	+292	237	10	..
Arthurs Pass EWS	738	10.3	1.8	6.1	+0.9	15.5	2	-3.2	1	643	21	+219	247	10	..
Culverden AWS	181	15.1	4.1	9.6	..	..	..	..	..	..	..	..	..	..	..
Waipara North Branch	560	12.9	3.6	8.3	..	19.2	27	-2.5	1	114	17	..	26	11	..
Waiau School CWS	136	16.3	4.2	10.3	..	22.5	27	-2.9	3	74	12	..	14	25	..
Cheviot EWS	75	15.3	4.6	10.0	..	22.4	20	-2.2	1	71	12	..	15	25	190
Upper Rakaia EWS	1752	5.6	-2.4	1.6	..	12.2	2	-8.5	5	213	19	..	100	10	..
Mt Potts EWS	2128	2.5	-4.4	-1.0	..	13.6	2	-11.1	5	61	18	..	29	10	..
Mt Cook EWS	730	12.5	0.8	6.7	-0.1	18.2	26	-3.2	16	496	19	+152	253	10	113
Snowdon RAWs	560	13.3	3.6	8.5	-0.2	19.4	26	-1.2	1	117	16	..	33	10	..
Methven, Three Spring	305	13.5	3.5	8.5	..	19.7	10	-2.4	18	68	15	..	13	4	..
Methven CWS	313	14.0	4.2	9.1	..	20.2	10	-1.4	18	61	14	..	12	4	..
Chertsey CWS	108	13.6	4.9	9.3	..	18.6	7	-0.9	2	31	13	..	9	28	..
Peel Forest	286	14.2	2.3	8.3	-0.2	19.4	10	-2.7	16	79	11	+0	15	28	..
Lismore, Racemans Hou	168	14.1	4.4	9.3	..	19.4	7	-1.0	1	46	12	..	12	28	..
Ashburton Council	101	15.4	3.4	9.4	-0.4	22.1	10	-2.5	2	48	16	+0	11	28	..
Ashburton Aero AWS	89	14.2	4.1	9.2	..	20.4	10	-2.4	2	41	16	..	8	22	189
Wakanui CWS	53	13.9	4.6	9.3	..	20.0	7	-1.4	2	34	13	..	8	22	..
Waipara West EWS	130	15.9	5.5	10.7	..	22.0	27	-0.5	18	50	15	..	12	28	200
West Eyreton, Larunde	88	13.9	3.8	8.9	..	19.7	11	-3.0	18	..	..	..	..	..	..
Rangiora EWS	23	16.0	3.6	9.8	+0.4	22.4	11	-3.6	16	18	11	..	4	21	184
Darfield	195	14.4	4.6	9.5	-0.3	20.0	10	-0.6	2	56	13	+1	14	4	..
Christchurch Aero	37	14.3	3.6	9.0	-0.4	21.1	11	-3.5	16	36	13	-5	14	4	174
Christchurch Gardens	7	15.2	5.3	10.3	+0.1	22.0	11	0.0	16	37	13	-4	10	4	..
Christchurch, Kyle St	6	15.7	4.9	10.3	+0.1	22.2	11	-0.7	16	32	11	..	9	4	..
Christchurch, New Bri	12	13.2	7.6	10.4	..	20.3	10	2.8	2	..	..	..	..	..	..
Lincoln, Broadfield E	18	14.3	4.7	9.5	-0.1	20.1	10	-1.7	2	31	12	-9	10	4	..
Sugar Loaf AWS	618	12.2	4.9	8.6	..	16.9	11	-0.1	5	..	..	..	..	..	..
Lyttelton Harbour	5	13.7	7.8	10.8	+0.1	20.5	10	3.9	5	26	12	..	9	4	..
Leeston RAWs	15	15.5	4.6	10.1	..	..	..	..	..	38	18	..	15	4	..
Dorie CWS @ Leferinks	55	14.3	4.5	9.4	..	..	..	..	..	15	8	..	7	4	..
Akaroa EWS	45	15.5	7.5	11.5	+1.1	21.6	11	2.5	18	59	17	-11	14	3	179
Le Bons Bay AWS	236	12.3	6.4	9.4	+0.2	19.1	10	1.9	15	0	0	..	0	1	..
Lake Tekapo, Air Safa	762	11.8	1.2	6.5	+0.0	18.1	26	-2.9	18	65	14	+15	20	10	..
Lake Tekapo EWS	762	12.0	1.0	6.5	-0.2	18.7	26	-3.3	18	64	11	..	22	10	181
Fairlie AWS	403	13.3	3.4	8.4	..	20.5	26	-2.2	17	..	..	..	..	..	..
Pukaki Aerodrome AWS	473	14.3	0.4	7.4	..	20.8	26	-5.1	18	65	14	..	24	10	..
Hakataramea Valley Cw	355	14.2	1.8	8.0	..	20.7	26	-3.8	18	27	12	..	8	10	..
Orari Estate	81	14.5	3.2	8.9	-0.1	22.1	10	-2.8	16	43	12	-4	15	23	..
Orari Estate CWS	81	13.7	3.2	8.5	..	21.3	10	-2.9	16	41	11	..	14	23	..
Timaru Aero AWS	26	14.2	2.6	8.4	-0.3	22.4	10	-4.0	16	25	11	-12	8	22	..
Timaru EWS	17	13.3	4.9	9.1	-0.2	21.2	10	-1.1	16	26	13	-9	8	22	..
Waimate CWS	39	13.6	3.9	8.8	..	21.2	10	-1.6	16	19	10	..	5	4	..
Oamaru Airport AWS	30	13.7	3.6	8.7	-0.1	19.6	10	-2.4	16	25	10	-4	6	3	..
Albert Burn	1280	7.6	-1.1	3.3	..	13.9	1	-6.4	15	275	19	..	141	10	..
Mt Larkins EWS	1900	0.9	-5.5	-2.3	..	6.4	1	-13.2	15	92	16	..	34	10	..
Eglinton, Knobs Flat	365	12.8	1.8	7.3	..	..	..	-3.3	17	284	18	..	109	10	..

Summary of the records of Temperature, Rainfall and Sunshine September 2013

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		
Tara Hills AWS	488	13.6	1.2	7.4	+0.0	20.5	26	-4.2	18	45	10	+9	22	10	..
Wanaka Aero AWS	352	14.0	2.9	8.5	+0.2	19.2	26	-1.9	18	38	11	-19	19	10	..
Naseby Forest 2	607	12.6	0.9	6.8	+0.0	18.8	..	-4.1	18	24	..	-13	5	10	..
Ranfurlly EWS	450	13.4	0.7	7.1	+0.0	18.4	26	-5.6	18	14	11	-12	5	10	..
Oamaru AWS	40	13.6	4.5	9.1	-0.2	19.1	7	-0.9	16	24	16	..	10	26	..
Palmerston	21	13.7	3.5	8.6	+0.1	19.4	10	-3.4	18	27	10	-18	5	10	133
Middlemarch EWS	213	14.4	1.7	8.1	-0.4	19.7	21	-6.0	18	32	10	..	15	10	139
Swampy Summit AWS	722	9.6	1.6	5.6	..	18.1	21	-4.0	15	..	..	..	..	..	..
Dunedin Aero AWS	1	14.1	2.4	8.3	-0.5	19.1	30	-5.0	18	45	17	+3	9	10	..
Dunedin, Musselburgh	4	13.2	5.1	9.2	-0.3	19.4	7	0.2	18	38	13	-10	6	4	141
Murchison Mtns EWS	1140	6.9	0.0	3.5	..	12.5	22	-4.6	15	338	19	..	167	10	..
Takahe Valley CWS	895	8.1	-0.2	4.0	..	12.5	2	-3.8	18	271	22	..	85	10	..
Manapouri, West Arm J	178	11.7	3.4	7.6	+0.5	16.8	30	-1.9	18	420	22	..	90	10	..
Manapouri Aero AWS	209	13.4	2.4	7.9	+0.5	19.1	25	-3.9	18	134	16	+28	41	10	..
Birchwood WXT AWS	147	12.9	4.5	8.7	..	17.5	21	-1.6	18	..	..	..	..	..	..
Queenstown	329	14.4	3.8	9.1	+0.3	18.6	25	0.4	18	100	15	+25	42	10	142
Queenstown Aero AWS	354	13.3	2.4	7.9	+0.3	17.1	21	-3.6	1	68	10	+1	27	10	197
Lumsden AWS	187	13.5	2.5	8.0	+0.0	18.0	21	-4.1	18	77	15	..	24	7	..
Riversdale Aquifer @	125	13.8	2.6	8.2	..	..	..	..	..	95	15	..	31	7	..
Cromwell EWS	213	15.2	2.2	8.7	-0.2	19.9	26	-2.9	1	24	8	..	15	10	197
Lauder EWS	375	13.4	1.2	7.3	-0.7	17.1	30	-4.8	18	16	7	-7	7	10	..
Ophir 2	305	14.9	-0.4	7.3	..	18.5	26	-6.9	18	15	7	..	7	10	..
Alexandra	150	16.4	1.8	9.1	-0.2	21.2	22	-3.6	18	28	11	..	17	10	151
Alexandra CWS	140	15.4	2.5	9.0	..	19.4	21	-2.6	1	34	13	..	21	10	..
Clyde 2 EWS	170	17.3	3.0	10.2	..	21.2	22	-2.0	1	30	9	..	20	10	..
Roxburgh WXT AWS	160	14.6	4.2	9.4	..	19.3	21	-0.8	16	..	..	..	..	..	..
Ettrick No.2	91	15.0	1.8	8.4	-0.3	20.2	21	-4.6	18	65	9	+28	15	10	..
Tapanui	180	13.9	2.2	8.1	-0.1	19.3	27	-3.5	18	96	..	+32	24	7	..
Winton 2	44	14.2	6.0	10.1	+1.4	19.5	21	1.0	18	74	15	+5	11	11	146
Gore AWS	123	13.4	3.9	8.7	+0.3	20.1	21	-2.0	18	61	16	-2	10	10	..
Invercargill Aero		13.0	4.1	8.6	+0.0	17.5	27	-2.3	18	106	20	+22	21	11	150
Invercargill Aero AWS	1	13.0	3.9	8.5	+0.1	17.6	27	-2.3	18	107	20	..	20	11	..
Invercargill Aero 2 E		..	..	..	..	..	..	..	..	102	17	..	20	11	136
Tiwai Point EWS	5	12.9	4.9	8.9	-0.1	17.6	25	-0.6	18	126	17	+40	23	13	..
Balclutha, Telford Ew	11	12.2	2.7	7.5	..	16.6	7	-3.6	18	47	16	..	11	10	160
Nugget Point AWS	129	12.3	5.6	9.0	+0.4	18.6	7	2.0	12	55	18	-8	13	10	..
Tautuku	25	12.9	4.0	8.5	-0.1	18.5	4	0.0	14	105	16	+4	15	10	..
South West Cape AWS	101	10.9	6.7	8.8	+0.0	16.0	25	2.8	14	109	25	-2	20	11	..
Kiribati,Cassidy Chri	3	30.6	..	..	..	..	..	..	..	..	..	..	..	..	..
Solomon, Taro Is	3	30.0	24.1	27.1	..	..	..	..	..	..	..	..	..	..	..
Solomon, Munda	6	30.3	24.4	27.4	..	..	..	..	..	..	..	..	..	..	..
Solomon, Auki	11	..	23.3	..	..	..	..	..	..	..	..	..	..	..	..
Solomon, Honiara	56	..	23.2	..	..	..	..	20.5	4	101	14	..	34	17	..
Solomon, Henderson	9	32.0	22.1	27.1	..	..	..	19.0	4	38	11	..	14	23	..
Solomon, Santa Cruz	24	..	24.1	..	..	..	..	..	..	..	..	..	..	..	..
Vanuatu,Sola	13	29.1	24.3	26.7	..	31.5	12	..	..	..	..	..	..	..	..
Vanuatu,Pekoa	56	28.9	21.3	25.1	..	..	..	15.5	5	134	9	..	91	22	..
Vanuatu,Lamap	22	30.0	22.1	26.1	..	..	..	19.1	18	169	4	..	94	22	..
Vanuatu, Bauerfield	20	27.6	17.7	22.7	..	31.0	12	11.5	5	97	12	..	72	22	..
Vanuatu,Burtonfield	70	26.9	16.9	21.9	..	..	..	..	..	..	..	..	..	..	..
Vanuatu,Aneityum	6	26.4	17.4	21.9	..	..	..	13.9	30	99	12	..	35	22	..
New Cal, Oulop	7	25.6	19.7	22.7	..	27.8	12	15.6	24	54	11	..	20	12	..
New Cal, Ouanaham	29	25.3	15.3	20.3	..	27.7	12	6.1	4	..	..	..	..	..	..
New Cal, Poinoimie	13	24.9	19.1	22.0	..	27.1	18	14.6	3	95	10	..	35	23	..
New Cal, La Roche	42	24.8	12.5	18.7	..	27.5	14	7.6	2	..	..	..	..	..	..
New Cal, La Tontouta	14	26.3	14.2	20.3	..	30.1	11	9.9	1	..	..	..	..	..	..
New Cal, Nouma	72	23.7	19.7	21.7	..	27.3	19	17.1	3	45	12	..	21	23	..
New Cal, Moue	97	23.3	17.7	20.5	..	25.4	30	13.7	2	..	..	..	..	..	..
Kiribati,Tarawa	2	31.6	25.9	28.8	..	..	..	..	..	..	..	..	..	..	..
Tuvalu,Funafuti Aero	1	31.6	25.9	28.8	..	..	..	..	..	..	..	..	..	..	..
Fiji,Nadi Aero	15	29.3	20.3	24.8	..	33.5	23	15.2	7	..	..	..	..	..	..
Fiji,Nausori Aero	6	27.1	21.1	24.1	..	..	..	..	..	..	..	..	..	..	..
Wallis Island, Hihifo	27	30.0	25.1	27.6	..	30.8	19	23.0	1	..	..	..	..	..	..

Summary of the records of Temperature, Rainfall and Sunshine September 2013

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		
Maopopo, Futuna Isla	36	29.2	24.4	26.8	..	31.3	3	22.6	2	291	25	..	59	1	..
Samoa,Faleolo	4	31.1	22.1	26.6	..	..	..	..	..	..	..	..	..	..	..
Samoa, Apia	1	30.2	24.2	27.2	..	..	..	..	..	..	..	..	..	..	..
Samoa, Pago Pago Aero	3	29.7	25.2	27.5	..	..	..	23.0	3	171	18	..	44	1	..
Tonga, Queen Lavinia	60	30.2	24.2	27.2	..	..	..	22.8	7	..	..	..	..	..	..
Tonga,Keppel	2	29.2	23.5	26.4	..	..	..	..	..	..	..	..	..	..	..
Tonga, Lupepauu	67	27.3	21.2	24.3	..	29.0	18	..	..	..	..	..	..	..	..
Salote Pilolevu Airpo	2	26.8	22.4	24.6	..	..	..	17.7	2	..	..	..	..	..	..
Tonga,Fuaamotu Aero	38	26.0	19.1	22.6	..	28.8	26	..	..	..	..	..	..	..	..
CI Rarotonga Aero	7	26.4	21.2	23.8	..	..	..	..	..	..	..	..	..	..	..
Rarotonga EWS	7	26.2	20.9	23.6	..	29.0	6	16.0	3	71	14	..	46	1	..
Vanuatu, Saratamata	18	..	21.5	..	..	..	..	..	..	..	..	..	..	..	..
Hiva Hoa, Atuona	51	29.2	22.6	25.9	..	31.0	1	21.3	4	167	16	..	53	10	..
Tahiti - Faaa	1	28.6	21.9	25.3	..	29.8	10	18.9	24	..	..	..	..	..	..
Tuamotu, Takaroa	2	26.9	24.9	25.9	..	28.1	27	..	..	..	..	..	..	..	..
Tuamotu, Hao	3	26.9	22.6	24.8	..	28.3	29	20.1	25	..	..	..	..	..	..
Tuamotu, Hereheretue	3	26.1	21.3	23.7	..	30.0	2	18.4	7	139	22	..	59	23	..
Gambier, Rikitea	91	23.3	19.0	21.2	..	25.9	29	16.4	14	82	18	..	36	21	..
Tubuai	2	24.8	19.4	22.1	..	..	..	17.1	14	..	..	..	..	..	..
Rapa	1	20.5	17.4	19.0	..	23.4	7	13.2	6	113	18	..	29	20	..
Pitcairn Is	264	20.7	15.9	18.3	..	23.5	29	13.3	11	..	..	..	3	2	173
Pitcairn Island AWS	264	20.3	16.6	18.5	..	23.0	28	13.6	1	46	16	..	32	2	..
Raoul Island AWS	49	20.1	15.0	17.6	..	22.4	17	10.5	6	129	15	..	46	24	..
Enderby Is AWS	40	8.5	4.9	6.7	..	10.8	6	-0.2	15	10	5	..	4	30	..
Campbell Island AWS	19	7.6	3.7	5.7	+0.0	10.7	28	-1.9	15	80	26	-38	12	30	..
Chatham Island EWS	12	14.2	7.5	10.9	..	18.4	12	1.1	5	75	20	..	36	25	..
Chatham Island Aero A	12	14.0	7.4	10.7	..	18.4	12	1.0	5	86	22	..	37	25	..
Georg Von Neumayer	40	-19.6	-28.0	-23.8	..	-12.4	26	-42.3	9	..	..	..	..	..	..
Ant South Pole	2827	-47.6	-55.0	-51.3	..	-29.6	13	-63.9	4	..	..	..	..	..	..
Halley Bay	30	-20.7	-30.0	-25.4	..	-5.4	13	-40.1	18	..	..	..	..	..	..
Gen Belgrano 2	32	..	-19.4	..	..	..	..	-30.5	10	..	..	..	..	..	..
Bellingshausen	16	-3.8	-7.5	-5.7	..	0.4	24	-18.8	11	..	..	..	..	..	..
Base Jubany	4	-1.5	-7.8	-4.7	..	3.5	29	-20.0	11	..	..	..	..	..	..
Dinamet	10	..	-7.8	..	..	..	..	-18.6	11	..	..	..	..	..	..
V C Marambio	198	-5.1	-13.5	-9.3	..	10.5	30	-24.0	3	..	..	..	..	..	..
Eduardo Frei	10	-2.7	-7.8	-5.3	..	1.3	24	-18.9	11	..	..	..	..	..	..
Arturo Prat	10	-2.8	-8.1	-5.5	..	1.4	30	-20.2	11	..	..	..	..	..	..
Great Wall	10	-2.7	-8.2	-5.5	..	..	..	..	..	..	..	..	..	..	..
Bernado Ohiggins	10	-4.0	-8.5	-6.3	..	0.3	24	-17.0	14	..	..	..	..	..	..
Palmer Station	8	-3.8	-10.9	-7.4	..	4.9	29	-24.7	11	..	..	..	..	..	..
Rothera Point	16	-6.6	-12.8	-9.7	..	2.8	29	-26.4	12	..	..	..	..	..	..
Argentine Is, Faraday	11	-6.7	-13.8	-10.3	..	..	..	..	..	..	..	..	..	..	..
Gen San Martin	4	-5.8	-14.3	-10.1	..	..	..	..	..	..	..	..	..	..	..
King Sejong	11	-2.0	-7.4	-4.7	..	..	..	..	..	..	..	..	..	..	..
Novolax Arevskaja	99	-10.3	-15.2	-12.8	..	..	..	-32.2	1	..	..	..	..	..	..
Mawson	16	-9.1	-16.9	-13.0	..	-4.3	24	-29.3	5	..	..	..	..	..	..
Davis	13	-7.7	-15.5	-11.6	..	-1.1	19	-27.2	4	..	..	..	..	..	..
Progress	64	-7.7	-12.8	-10.3	..	-1.7	19	-23.9	12	..	..	..	..	..	..
Mirnyj	30	-8.2	-12.5	-10.4	..	..	..	-32.9	2	..	..	..	..	..	..
Vostok	3420	-54.8	-64.2	-59.5	..	..	..	..	..	..	..	..	..	..	..
Casey	41	-4.7	-13.0	-8.9	..	3.7	18	-30.1	1	..	..	..	..	..	..
Durmort Durville	43	-8.8	-16.7	-12.8	..	-3.0	18	-23.9	12	..	..	..	..	..	..
Mcmurdo	24	-14.5	-23.5	-19.0	..	-6.2	14	-33.6	10	..	..	..	..	..	..
Ant Scott Base	22	-16.3	-28.5	-22.4	..	-7.3	14	-40.2	10	0	0	..	0	1	..
Ant Arrival Heights E	218	-16.9	-26.0	-21.5	..	-8.0	27	-36.9	9	..	..	..	..	..	..
Ant Scott Base EWS	22	-15.0	-27.2	-21.1	..	..	..	..	..	..	..	..	..	..	..
Casey, Skiway South	392	-6.7	-13.9	-10.3	..	..	..	..	..	..	..	..	..	..	..
Darwin Airport	31	33.3	15.0	24.2	..	35.1	23	10.5	6	0	1	..	0	9	..
Hobart Airport	4	20.5	7.6	14.1	..	22.6	30	0.0	13	25	16	..	6	18	..

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		
Late returns and corrections for August 2013															
Port Taharoa AWS	27	16.3	9.7	13.0	+1.6	..	..	..	..	..	..	..	..	..	
Te Kuiti EWS	62	15.5	5.6	10.6	+1.0	19.0	3	-0.3	31	132	22	-8	24	16	
Napier Nelson Pk	2	16.0	6.3	11.2	+0.9	20.9	8	2.5	13	100	15	+39	20	16	
Wairoa, North Clyde E	15	17.2	6.7	12.0	+2.0	..	..	3.0	1	..	..	..	..	..	
Arapito	18	15.2	6.7	11.0	+1.7	..	..	2.1	30	..	..	..	..	..	
Appleby 2 EWS	18	14.6	4.5	9.6	+1.0	20.0	10	-0.8	30	82	19	..	19	21	
Boyle River Lodge	600	11.7	2.5	7.1	+2.0	16.0	20	-4.0	31	138	..	-31	38	7	
Craigieburn Forest	914	9.4	0.6	5.0	+1.3	13.6	26	-4.0	29	101	17	-73	34	7	
Methven CWS	313	13.1	4.2	8.7	..	17.0	16	-1.0	11	48	9	..	20	17	
Waipara West EWS	130	14.5	5.4	10.0	..	18.9	7	0.3	31	44	11	..	18	17	
Rangiora EWS	23	15.2	3.6	9.4	+2.1	20.7	22	-2.7	31	26	10	..	7	17	
Lincoln, Broadfield E	18	13.7	5.5	9.6	+2.0	19.2	15	-0.7	1	41	12	-20	12	28	
Timaru EWS	17	12.1	4.3	8.2	+1.1	18.6	28	-0.4	31	23	9	-21	7	28	
Windsor EWS	81	13.0	3.0	8.0	+1.8	..	..	..	..	..	..	..	..	..	
Balclutha, Finegand	6	13.9	2.3	8.1	+1.3	17.2	22	-2.1	7	22	12	-20	5	16	
Vanuatu, Pekoa	56	28.6	21.0	24.8	..	..	..	..	..	..	..	..	..	..	
Pitcairn Is	264	19.8	14.5	17.2	..	22.5	..	..	..	..	..	..	..	177	
Late returns and corrections for July 2013															
Te Kuiti EWS	62	13.7	3.7	8.7	+0.0	17.0	4	-1.9	16	32	12	-132	11	7	
Waipara West EWS	130	14.4	4.9	9.7	..	19.8	2	-1.0	12	42	10	..	12	5	
Late returns and corrections for June 2013															
Te Kuiti EWS	62	13.4	4.1	8.8	-0.5	17.1	1	-2.5	24	208	14	+59	60	17	
Waipara West EWS	130	11.6	3.2	7.4	..	19.0	1	-1.0	29	151	10	..	54	16	
Pitcairn Is	264	21.6	16.1	18.9	..	24.2	25	12.0	21	58	..	..	12	9	
Late returns and corrections for May 2013															
Te Kuiti EWS	62	16.5	6.2	11.4	-0.1	21.8	13	-1.2	30	218	18	+84	46	25	
Waipara West EWS	130	14.6	5.2	9.9	..	23.7	12	0.1	25	54	12	..	12	5	
Late returns and corrections for April 2013															
Te Kuiti EWS	62	20.8	9.3	15.1	+1.0	24.8	2	1.1	8	132	12	+28	49	21	
Waipara West EWS	130	18.4	8.6	13.5	..	26.2	3	2.3	10	95	12	..	38	20	
Late returns and corrections for March 2013															
Te Kuiti EWS	62	25.4	11.0	18.2	+1.4	31.3	11	5.3	11	25	4	-62	17	17	
Late returns and corrections for February 2013															
Te Kuiti EWS	62	25.6	10.3	18.0	-0.7	28.4	19	4.3	6	46	4	-47	28	4	
Late returns and corrections for January 2013															
Te Kuiti EWS	62	24.8	10.8	17.8	-0.5	29.9	29	5.1	5	20	6	-80	6	2	
Late returns and corrections for December 2012															
Te Kuiti EWS	62	23.1	12.8	18.0	+1.1	29.3	24	4.9	1	80	15	-60	23	26	
Late returns and corrections for November 2012															
Te Kuiti EWS	62	18.8	6.9	12.9	-1.9	23.6	22	3.0	8	34	9	-83	17	17	
Late returns and corrections for October 2012															
Te Kuiti EWS	62	17.3	6.8	12.1	-0.9	24.6	29	0.0	24	138	19	+0	31	21	
Late returns and corrections for September 2012															
Te Kuiti EWS	62	15.8	5.6	10.7	-0.7	22.1	29	-2.4	13	132	14	+2	26	3	
Late returns and corrections for August 2012															
Te Kuiti EWS	62	15.0	4.8	9.9	+0.3	17.5	31	-0.6	29	138	20	-2	27	12	
Late returns and corrections for July 2012															
Te Kuiti EWS	62	13.6	2.5	8.1	-0.6	18.1	24	-3.9	2	186	11	+22	78	15	

*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		
		Late returns and corrections for June 2012													
Te Kuiti EWS	62	13.5	2.9	8.2	-1.1	17.3	6	-3.6	30	102	17	-47	28	18	127
		Late returns and corrections for May 2012													
Te Kuiti EWS	62	15.9	4.3	10.1	-1.4	19.4	9	-1.8	30	123	11	-11	32	13	163
		Late returns and corrections for April 2012													
Te Kuiti EWS	62	20.7	7.5	14.1	+0.0	25.6	3	1.4	19	73	8	-31	32	11	197
		Late returns and corrections for March 2012													
Te Kuiti EWS	62	21.6	10.0	15.8	-1.0	25.9	7	3.9	5	110	11	+23	31	21	191
		Late returns and corrections for February 2012													
Te Kuiti EWS	62	23.1	12.0	17.6	-1.1	26.6	11	5.7	28	88	16	-5	41	22	145
		Late returns and corrections for January 2012													
Te Kuiti EWS	62	22.2	12.3	17.3	-1.0	25.7	30	4.1	28	110	13	+10	39	7	187

The 'Normal' refers to the present site of the instruments. Standard period for normals is 1981-2010.

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.