

JUNE 2013

Summary of the records of Temperature, Rainfall and Sunshine June 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		
Auckland, North Shore	64	15.4	9.0	12.2	..	19.5	18	0.9	29	156	22	..	47	16	116
Auckland, Henderson,	7	15.8	8.2	12.0	+0.8	18.8	18	0.7	29	211	22	+58	45	16	..
Waiheke Island, Awaro	34	15.8	7.8	11.8	..	18.7	18	0.6	24	129	14	-3	25	20	..
Thames 2	3	15.1	6.4	10.8	-0.3	19.5	3	0.1	30	103	17	-17	24	8	84
Tauranga Aero	..	..	..	..	..	..	..	..	..	..	..	..	..	..	123
Taupo AWS	400	11.7	2.9	7.3	-0.1	16.0	12	-4.0	24	87	13	-6	18	4	..
Opotiki	5	16.0	5.8	10.9	+0.8	20.1	12	0.0	29	124	10	-26	47	4	..
Auckland, Ardmore	23	15.9	6.3	11.1	+0.3	19.2	17	-1.4	29	176	15	+47	38	20	..
Hamilton, Ruakura 2 E	45	15.7	3.9	9.8	+0.2	19.7	17	-3.6	24	149	15	+33	24	13	94
Waikeria 2	46	14.1	4.7	9.4	+0.2	18.0	18	-2.9	24	112	9	-2	42	16	..
Turangi 2 EWS	350	12.7	2.3	7.5	+0.1	18.6	12	-3.8	24	125	10	-30	29	16	121
Pahiatua EWS	110	11.8	4.2	8.0	..	16.1	17	-3.0	26	106	19	..	26	16	..
Kopua	311	12.2	5.2	8.7	+0.6	16.5	1	-1.0	29	146	17	+48	41	16	..
Dannevirke	207	12.3	5.9	9.1	+0.6	16.5	17	-4.5	26	112	18	+13	37	4	75
Dannevirke EWS	207	13.3	5.7	9.5	..	18.0	18	-3.2	29	102	19	..	36	4	83
Akitio EWS	245	12.7	7.2	10.0	..	..	..	..	..	..	..	..	..	..	..
Te Wharau, Brackenfie	292	12.1	5.0	8.6	..	16.3	1	-1.2	26	307	20	..	56	20	..
Martinborough EWS	20	13.2	5.0	9.1	+0.5	17.7	1	-2.2	26	136	17	..	28	21	78
Gisborne EWS	12	15.3	6.5	10.9	..	19.7	18	1.9	26	80	15	..	25	10	..
Napier Nelson Pk	2	15.0	5.8	10.4	+0.4	20.1	2	-0.2	26	101	17	+19	36	4	117
Whakatu EWS	5	14.8	4.2	9.5	+0.7	20.2	2	-1.2	24	100	17	..	36	4	..
Waipawa EWS	130	13.1	4.1	8.6	..	20.4	2	-2.0	26	108	16	..	34	4	106
Wairoa, North Clyde E	15	15.6	6.9	11.3	+1.3	21.2	1	2.5	25	176	18	+54	76	5	..
Palmerston North EWS	21	13.7	6.2	10.0	+0.7	19.2	17	-0.4	24	84	14	-13	16	16	87
Wellington, Kelburn	125	..	..	..	..	..	..	..	..	..	..	..	..	..	78
Wellington Aero	4	13.2	8.3	10.8	+0.3	17.2	1	2.1	25	174	19	+74	35	20	..
Waiouru Treatment Pla	806	8.9	1.7	5.3	+0.3	13.0	11	-4.3	24	128	21	+23	29	21	..
Taihape Rec	433	11.4	0.9	6.2	-0.7	15.0	8	-3.6	24	102	..	+15	17	21	..
Arapito	18	13.6	5.3	9.5	+0.4	17.5	12	0.0	22	157	11	-61	61	1	115
Arapito EWS	18	13.9	5.4	9.7	..	17.8	10	-0.2	22	178	14	..	69	1	..
Blackball	35	10.4	3.5	7.0	..	..	..	..	..	..	..	..	165	3	..
Greymouth Aero	4	13.4	6.5	10.0	+1.2	15.9	1	1.7	23	224	15	-14	64	3	90
Okarito	2	13.3	4.7	9.0	+0.9	16.4	9	-0.3	23	211	16	-51	47	1	..
Franz Josef	155	14.0	5.1	9.6	+1.8	20.0	30	1.0	21	349	..	-102	190	2	..
Castle Mount EWS	2000	0.2	-5.7	-2.8	..	..	..	..	..	..	..	..	..	..	..
Stephens Island	187	12.8	8.9	10.9	+0.8	15.8	11	2.5	..	117	15	..	27	16	..
Pelorus Sd, Crail Bay	13	12.9	7.8	10.4	+0.6	16.8	11	2.5	26	253	21	+101	72	16	..
Grassmere Salt Works	2	13.2	6.7	10.0	+0.9	19.0	1	-0.1	30	158	16	+97	52	20	..
Boyle River Lodge	600	8.6	0.4	4.5	+0.2	14.5	13	-5.1	24	225	..	+17	..	..	..
Arthurs Pass	738	..	-0.8	..	..	10.4	11	-8.0	27	421	15	+21	127	3	..
Craigieburn Forest	914	7.1	-1.7	2.7	-0.4	12.8	2	-6.7	23	257	15	+98	100	3	..
Winchmore EWS	160	10.6	0.4	5.5	-0.8	22.1	2	-4.1	29	221	17	+163	49	16	..
Peel Forest	286	10.2	0.4	5.3	-0.2	20.0	2	-4.2	29	235	13	+176	59	16	..
Ashburton Council	101	10.8	1.8	6.3	-0.1	21.7	2	-2.5	29	220	18	+163	51	19	..
Waipara West EWS	130	11.6	3.2	7.4	..	19.0	1	-1.0	29	151	10	..	54	16	..
Rangiora EWS	23	12.4	0.8	6.6	+0.1	20.4	1	-4.0	29	99	11	..	38	16	110
Darfield	195	9.6	2.4	6.0	-0.7	19.7	2	-1.5	29	219	14	+152	58	16	..
Christchurch Aero	37	11.1	1.9	6.5	+0.1	20.1	2	-4.2	29	187	16	+129	56	16	93
Christchurch Gardens	7	11.2	3.2	7.2	+0.1	19.4	2	-2.0	29	214	14	+153	67	16	..
Christchurch, Kyle St	6	11.3	2.6	7.0	+0.1	19.9	2	-3.2	29	220	14	..	69	16	..
Lincoln, Broadfield E	18	11.2	2.8	7.0	+0.3	20.1	2	-3.9	29	209	12	+152	48	16	..
Akaroa EWS	45	11.9	6.5	9.2	+1.1	19.6	2	1.9	29	403	15	+302	114	16	80
Lake Tekapo, Air Safa	762	5.6	-3.0	1.3	-1.3	17.6	2	-12.2	29	121	14	+61	48	2	..
Orari Estate	81	10.8	0.4	5.6	+0.0	18.4	1	-5.5	29	223	13	+176	59	20	..
Timaru EWS	17	10.2	2.1	6.2	-0.3	17.6	2	-3.1	29	176	14	+140	55	16	..
Naseby Forest 2	607	7.3	-1.2	3.1	-0.1	17.0	1	-8.5	23	115	..	+81	45	2	..
Windsor EWS	81	10.8	1.8	6.3	+0.8	20.1	2	-3.0	7	179	11	+145	68	16	..
Palmerston	21	11.0	2.1	6.6	+0.8	18.3	1	-3.4	8	258	13	+216	82	16	88
Middlemarch EWS	213	8.5	0.2	4.4	+0.1	20.4	1	-6.0	5	136	15	..	26	21	65
Queenstown	329	8.6	1.4	5.0	+0.0	16.1	1	-2.5	29	130	13	+45	72	2	43
Ophir 2	305	7.2	-1.7	2.8	..	17.4	1	-7.1	29	92	12	..	35	2	..
Alexandra	150	7.9	-0.4	3.8	+0.1	17.2	1	-5.7	29	121	14	..	51	2	57
Ettrick No.2	91	9.1	1.5	5.3	+0.3	19.0	1	-4.0	5	64	14	+17	15	19	..

Summary of the records of Temperature, Rainfall and Sunshine June 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	
Winton 2	44	10.2	4.0	7.1	+1.2	17.0	1	-1.2	29	122	17	+39	33	1	61
Balclutha, Finegand	6	11.0	2.8	6.9	+1.1	16.0	1	-3.4	29	98	18	+40	23	19	..
Tautuku	25	10.7	4.1	7.4	+0.6	16.0	1	-0.5	7	138	17	+12	27	17	..

Late returns and corrections for May 2013

Auckland, Henderson,	7	18.6	9.0	13.8	+0.3	23.4	2	2.9	29	289	21	+158	43	8	..
Waiheke Island, Awaro	34	18.8	9.5	14.2	..	22.3	2	2.0	30	208	20	+94	43	17	..
Thames 2	3	17.8	8.9	13.4	+0.0	21.5	4	0.5	29	134	21	+44	17	4	128
Tauranga Aero	..	..	..	..	..	..	..	..	..	..	..	..	..	..	173
Opotiki	5	17.9	8.4	13.2	+0.8	22.5	20	0.2	30	194	11	+76	52	25	..
Auckland, Ardmore	23	18.6	7.6	13.1	+0.2	22.4	3	0.0	29	229	18	+114	27	8	..
Waikeria 2	46	17.4	7.7	12.6	+1.2	21.7	3	1.0	12	173	14	+74	40	4	..
Taumarunui	171	16.0	5.9	11.0	+0.7	20.6	3	-1.9	29	144	..	+15	36	25	..
Kopua	311	15.2	5.9	10.6	+0.3	20.2	15	-1.0	30	67	10	-14	18	19	..
Dannevirke	207	15.2	6.2	10.7	+0.2	19.6	5	-2.0	30	57	12	-27	16	17	121
Akitio EWS	245	15.3	8.0	11.7	..	20.2	14	1.2	29	59	17	..	18	6	169
Castlepoint Station	9	15.8	9.4	12.6	-0.3	20.5	12	3.5	29	84	11	-10	29	6	..
Te Wharau, Brackenfie	292	15.3	5.9	10.6	..	21.0	13	-1.0	30	134	12	..	38	28	..
Napier Nelson Pk	2	17.5	6.9	12.2	-0.2	22.0	13	-1.0	30	49	10	-26	23	25	155
Mana Island	2	15.7	9.6	12.7	+0.1	20.1	5	4.8	29	89	..	+7	27	5	..
Wellington, Kelburn	125	..	..	..	..	..	..	..	..	..	..	..	..	..	132
Waiouru Treatment Pla	806	12.6	3.9	8.3	+1.1	19.1	13	-3.5	30	88	16	-6	16	25	..
Taihape Rec	433	15.4	1.7	8.6	-0.4	22.0	14	-5.0	30	98	15	+19	23	25	..
Arapito EWS	18	16.6	6.8	11.7	..	20.2	4	-1.6	29	114	18	..	36	2	..
Blackball	35	13.2	4.7	9.0	..	..	..	..	..	..	..	..	..	..	..
Greymouth Aero	4	15.6	8.0	11.8	+1.0	18.8	5	-0.8	29	123	14	-74	44	2	137
Okarito	2	14.8	6.4	10.6	+0.3	19.2	6	-1.9	29	240	19	-18	41	2	..
Franz Josef	155	15.4	6.3	10.9	+1.2	21.2	3	-0.6	28	177	16	-269	36	2	..
Stephens Island	187	14.7	10.5	12.6	+0.7	18.4	4	5.1	29	71	14	..	15	5	..
Pelorus Sd, Crail Bay	13	15.7	8.7	12.2	+0.0	19.2	15	2.5	..	184	..	+53	49	5	..
Grassmere Salt Works	2	16.0	8.0	12.0	+0.5	20.5	4	1.2	30	87	16	+36	47	5	..
Boyle River Lodge	600	13.0	1.3	7.2	+0.1	24.0	13	-5.4	29	133	18	-28	46	2	..
Arthurs Pass	738	10.1	1.7	5.9	+0.5	..	..	-5.4	29	240	17	-137	66	2	..
Craigieburn Forest	914	9.9	0.7	5.3	-0.5	19.5	13	-6.1	28	136	23	+5	38	2	..
Peel Forest	286	13.1	3.1	8.1	+0.1	22.5	12	-1.3	11	148	12	+71	54	5	..
Ashburton Council	101	14.0	4.3	9.2	+0.3	23.3	12	-2.5	4	112	18	+49	50	5	..
Darfield	195	13.6	4.6	9.1	-0.3	24.5	12	-0.8	28	64	12	-4	16	19	..
Christchurch Gardens	7	14.3	5.5	9.9	+0.1	22.3	12	-1.3	30	109	14	+45	28	5	..
Lake Tekapo, Air Safa	762	10.8	0.6	5.7	-0.2	20.9	13	-5.8	28	131	17	+75	43	5	..
Orari Estate	81	13.3	3.9	8.6	+0.4	19.3	12	-2.1	25	44	11	-14	19	18	..
Naseby Forest 2	607	11.1	0.8	6.0	+0.1	20.0	4	-3.2	1	..	..	..	..	..	..
Palmerston	21	13.9	3.1	8.5	+0.6	18.9	11	-2.8	2	118	14	+60	34	22	111
Queenstown	329	12.0	3.4	7.7	-0.1	19.6	14	-0.3	29	73	13	-13	14	25	71
Ophir 2	305	12.5	-1.2	5.7	..	21.2	4	-6.9	1	59	12	..	21	5	..
Alexandra	150	13.1	0.8	7.0	-0.3	20.2	4	-4.3	7	40	16	..	7	27	108
Ettrick No.2	91	13.5	2.3	7.9	+0.5	20.5	4	-3.5	1	72	10	+26	16	5	..
Tapanui	180	13.1	2.8	8.0	+0.3	20.5	..	..	..	135	..	+41	..	..	..
Winton 2	44	13.3	..	..	..	21.5	4	..	..	104	13	+10	20	27	101
Stewart Is	3	12.4	6.7	9.6	+1.0	17.6	4	-1.0	28	170	24	+18	38	25	..
Balclutha, Finegand	6	13.1	4.2	8.7	+0.6	18.5	14	-1.9	29	125	..	+65	37	26	99
Tautuku	25	13.3	6.2	9.8	+1.2	18.0	4	1.0	28	159	15	+27	40	4	..

Late returns and corrections for April 2013

Opotiki	5	21.4	10.3	15.9	+0.8	24.0	2	4.5	7	109	11	-4	34	21	..
Dannevirke	207	18.4	10.4	14.4	+1.6	25.5	3	1.0	11	88	18	+13	14	8	105
Akitio EWS	245	18.4	11.4	14.9	..	25.7	3	5.6	8	79	14	..	27	20	154
Napier Nelson Pk	2	21.4	11.8	16.6	+1.7	27.4	3	6.6	8	74	13	+6	14	20	162
Mana Island	2	18.5	12.8	15.7	+1.1	22.0	3	5.9	11	65	16	+2	22	20	..
Arapito EWS	18	18.6	10.3	14.5	..	22.9	2	4.5	5	..	..	..	..	..	..
Blackball	35	16.7	8.1	12.4	..	20.0	2	2.0	6	239	..	..	30	5	..
Franz Josef	155	..	8.4	..	..	..	..	3.0	13	208	17	-199	39	26	..
Stephens Island	187	17.2	12.7	15.0	+1.3	20.5	2	9.6	10	83	17	..	33	20	..
Grassmere Salt Works	2	19.6	12.2	15.9	+2.0	24.9	28	5.6	10	85	10	+53	41	20	..

*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		mm		mm	mm		Hrs	
Boyle River Lodge	600	15.4	4.8	10.1	+0.0	21.0	1	-1.9	16	111	26	-30	16	3	..
Craigieburn Forest	914	13.2	2.8	8.0	-0.7	20.3	2	-2.5	10	133	19	+20	39	20	..
Tapanui	180	15.9	4.3	10.1	-0.2	..	..	-2.7	10	80	..	+10	26	23	..
Stewart Is	3	14.5	7.5	11.0	+0.4	..	..	..	..	..	..	..	..	..	..
Balclutha, Finegand	6	16.2	4.8	10.5	-0.2	23.9	2	..	..	49	..	+1	..	..	..
Late returns and corrections for March 2013															
Arapito EWS	18	21.6	10.7	16.2	..	23.9	9	6.1	11	..	..	..	..	..	..
Blackball	35	22.6	9.7	16.2	..	29.0	11	4.0	..	79	5	..	36	17	..
Stewart Is	3	17.8	9.2	13.5	+1.4	..	..	..	..	..	..	..	..	..	..
Balclutha, Finegand	6	20.9	8.7	14.8	+1.5	28.4	14	..	..	..	..	..	..	..	139
Late returns and corrections for February 2013															
Arapito EWS	18	21.8	10.8	16.3	..	24.4	3	7.5	19	..	..	..	..	..	..
Blackball	35	24.9	10.7	17.8	..	28.2	22	..	..	42	..	..	..	..	..

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.