



# SUPPLEMENT

TO THE

# NEW ZEALAND GAZETTE

OF

THURSDAY, 16 DECEMBER 1982

*Published by Authority*

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WELLINGTON: WEDNESDAY, 22 DECEMBER 1982

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# CLIMATOLOGICAL TABLE FOR OCTOBER 1982



CLIMATOLOGICAL TABLE—Summary of the Records of Temperature, Rainfall, and Sunshine for October 1982—continued

Station	Height of Station Above M.S.L.	Air Temperature in Degrees Celsius								Rainfall in Millimetres				Bright Sunshine	
		Means of		Mean of A and B	Difference From Normal	Absolute Maximum and Minimum				Total Fall	No. of Rain Days	Difference From Normal	Maximum Fall		
		A Max.	B Min.			Maximum	Date	Minimum	Date				Amount		Date
	Metres	°C	°C	°C	°C	°C	°C		mm		mm	mm	Hrs		
Taupiri	23	16.6	7.0	11.8	..	20.8	30	1.4	21	141	24	..	48	18	..
Ohote	40	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Ruakura, Hamilton	40	16.2	6.4	11.3	-1.4	20.1	30	1.1	21	118	22	+11	44	18	178
Whatawhata	104	15.4	7.3	11.4	-1.4	18.9	30	1.9	4	161	21	+11	52	18	158
Rukuhia	66	16.4	6.7	11.6	-1.4	20.9	30	3.0	21	111	22	-1	42	18	168
Hamilton Airport	50	16.3	6.0	11.2	-1.1	21.4	30	0.2	21	108	18	-1	38	18	..
Hautapu	60	..	..	..	..	..	..	..	..	106	..	..	38	18	..
Cambridge	76	16.1	5.6	10.9	..	20.9	30	1.2	21	97	19	..	26	18	..
Port Taharoa	27	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Mohakatino Station Mokau	46	14.6	8.6	11.6	-1.4	16.6	31	4.5	19	139	23	-16	32	25	..
Arapuni Power Station	123	16.7	6.0	11.4	-1.6	22.0	30	2.5	17	85	18	-47	23	18	..
Waikeria	46	16.1	5.3	10.7	..	20.7	30	0.5	11	109	19	..	24	18	..
Te Kuiti	61	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Wairere	122	14.9	6.0	10.5	..	20.0	30	0.2	21	173	23	+26	51	25	..
Pureora Forest	549	12.1	3.9	8.0	-1.8	18.0	30	-0.1	7	185	22	+7	53	25	..
Taumarunui	171	15.6	5.3	10.5	-2.3	21.6	30	-0.2	20	146	23	+9	28	25	125
Omata	61	15.2	8.3	11.8	-1.1	19.0	30	3.8	21	124	18	..	26	21	..
New Plymouth	55	15.2	8.0	11.6	..	19.7	30	4.2	19	141	22	..	32	22	..
New Plymouth Airport	27	15.1	7.5	11.3	-1.0	17.7	30	3.4	6	109	22	-26	35	25	175
Tikorangi	77	15.3	6.7	11.0	..	19.0	30	3.5	8	114	29	..	32	25	..
North Egmont	955	9.1	1.3	5.2	..	14.5	14	-3.0	25	493	23	..	79	2	..
Te Wera Forest	180	..	4.8	..	..	..	..	-0.7	7	123	21	-47	25	25	..
Lower Retaruke	223	15.2	5.2	10.2	-1.7	20.9	30	-1.6	20	150	19	..	28	25	..
Turangi	366	14.0	4.5	9.3	-2.1	18.7	28	-1.7	21	89	16	..	24	25	173
Chateau, Mt Ruapehu	1119	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Mt Bruce Reserve	305	13.7	4.7	9.2	-1.2	20.0	30	0.4	17	175	20	..	50	9	..
Waingawa, Masterton	114	15.0	4.7	9.9	-1.9	20.3	30	0.3	17	77	20	+3	19	2	170
Kopua	311	13.6	5.6	9.6	-1.6	18.6	31	1.4	7	58	15	-21	14	25	..
Waipukurau	137	15.4	4.7	10.1	-1.7	20.5	31	0.2	8	47	13	-9	10	29	188*
Dannevirke	207	14.4	7.1	10.8	-1.0	18.9	30	1.7	7	68	16	-23	16	25	161
Porangahau	8	15.6	6.9	11.3	..	20.6	31	2.0	5	58	15	..	10	2	..
Castlepoint	3	14.5	8.3	11.4	-2.0	18.0	14	4.9	5	96	17	+32	22	16	..
Ngaumu Forest	244	14.7	4.2	9.5	-1.2	19.5	30	-1.1	17	68	18	-18	13	2	..
Tauherenikau, Alloa	43	15.4	5.3	10.4	-1.8	20.4	30	0.4	9	69	18	-20	15	5	..
Gladstone, Arahura	116	14.5	4.5	9.5	-2.0	19.5	30	0.2	17	50	17	-19	13	2	..
Waiorongomai	21	14.1	6.8	10.5	-1.3	18.5	30	1.3	21	146	20	+11	49	2	..
Cape Palliser	10	15.3	8.7	12.0	-1.4	20.9	14	5.5	19	59	18	-17	12	9	..
East Cape	17	16.3	8.7	12.5	-1.5	19.6	11	4.3	17	151	17	+44	54	18	..
Ruatoria	61	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Mangatu Forest	182	16.4	5.2	10.8	-2.0	21.6	31	0.2	4	128	15	+26	40	18	..
Manutuke Gisborne	9	17.2	5.6	11.4	-1.9	22.7	31	1.2	5	77	16	+6	19	18	..
Gisborne Airport	4	17.3	5.9	11.6	-1.9	22.4	31	0.8	8	85	15	+14	23	18	207
Onepoto, Waikaremoana	643	14.0	4.2	9.1	-1.5	20.4	14	-0.1	19	141	15	-9	28	18	..
Wharerata Forest	439	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Esk Forest	427	14.6	5.3	10.0	-1.4	20.0	15	0.8	19	99	15	-13	30	19	..
Kaweka Forest	414	14.5	5.9	10.2	-1.9	22.0	31	1.8	19	70	17	..	14	19	..
Napier Airport	2	17.1	6.2	11.7	..	24.4	31	0.8	5	29	9	-29	8	20	..
Napier	2	17.4	7.1	12.3	-1.5	24.7	31	1.6	5	29	13	-24	6	5	197
Hastings	16	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Havelock North	9	17.1	4.7	10.9	-1.5	25.0	31	-0.2	17	27	12	-24	5	27	184
Gwavas Forest	335	14.6	3.3	9.0	-1.7	20.8	31	-0.2	8	31	12	-53	6	25	..
Makaretu	335	14.8	4.6	9.7	-1.8	19.6	31	0.0	21	54	19	..	13	25	..
Mohaka Forest	286	15.9	5.4	10.7	-1.7	23.4	31	1.3	8	84	14	-29	32	18	..
Frasertown, Wairoa	8	17.0	6.3	11.7	-2.1	25.2	31	2.6	8	81	17	-18	25	18	..
Wairoa	20	16.6	5.9	11.3	-2.3	24.5	31	2.6	8	43	11	..	10	20	199
Portland Island	78	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Kapiti Island	16	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Paraparaumu Airport	7	14.5	7.7	11.1	-1.2	16.7	30	1.2	21	56	15	-41	12	26	197
Flockhouse, Bulls	9	14.6	7.4	11.0	-1.3	17.6	21	2.3	21	78	19	-1	17	23	..
Ohakea	48	14.5	7.6	11.1	-1.6	18.6	21	3.3	21	73	19	-13	19	25	186
Wharite Peak	914	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Kairanga Palmerston North	15	14.8	6.8	10.8	-1.6	18.7	21	0.6	7	140	17	..	52	10	167
Palmerston North Airport	45	14.6	6.6	10.6	-1.4	19.2	21	0.5	7	75	16	-6	14	25	..
Palmerston North D S I R	34	14.6	7.6	11.1	-1.4	19.8	21	2.5	7	80	19	-9	16	23	135
Tiritia	100	14.1	6.5	10.3	..	18.7	21	2.5	29	86	19	..	18	29	..
Waitarere Forest	3	14.8	7.5	11.2	-1.3	16.7	23	-0.5	20	71	10	-8	23	24	..
Levin	46	14.3	7.1	10.7	-1.7	17.1	30	2.5	7	110	17	+11	25	24	164
Titahi Bay	31	14.9	7.8	11.4	..	17.5	14	1.8	17	48	15	..	10	2	..
Taita, Lower Hutt	65	14.4	7.3	10.9	-1.1	17.4	10	1.7	6	82	20	-40	20	2	..
Avalon, Lower Hutt	15	14.7	7.5	11.1	-1.3	17.6	10	2.1	6	89	21	-15	19	2	..
Kelburn, Wellington	125	14.1	7.7	10.9	-1.0	18.4	14	3.0	17	46	18	-66	11	26	209
Somes Island	43	13.9	8.2	11.1	..	17.0	11	4.5	6	65	15	..	17	2	..
Gracefield, Lower Hutt	34	14.5	7.8	11.2	-1.2	18.5	11	0.3	21	101	16	-8	34	2	..
Wainuiomata	82	14.1	6.8	10.5	-1.2	18.0	11	1.2	6	122	18	..	57	2	..
Wellington Airport	6	14.8	8.6	11.7	-1.0	18.8	11	2.4	6	51	20	-38	12	26	..
Rimutaka Forest	40	14.7	7.2	11.0	..	18.4	11	0.9	6	63	14	..	12	2	..
Kaitoke	223	13.4	5.2	9.3	-1.1	17.3	30	-0.6	21	132	21	-61	18	29	159

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		Means of		Mean of A and B	Difference From Normal	Absolute Maximum and Minimum				Total Fall	No. of Rain Days	Difference From Normal	Maximum Fall		
		A Max.	B Min.			Maximum	Date	Minimum	Date				Amount		Date
	Metres	°C	°C	°C	°C	°C	°C	°C	°C	mm	mm	mm	mm	Hrs	
Wallaceville	56	14.3	6.1	10.2	-1.6	17.8	30	0.0	17	70	19	-47	10	23	191
Cape Egmont	8	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Stratford Mountain House	846	10.2	1.5	5.9	-1.8	15.5	31	-0.9	19	322	23	-293	83	2	..
Stratford Dem. Farm	311	13.6	4.5	9.1	-1.7	16.7	13	1.6	20	153	20	-48	32	21	181
Kapuni	173	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Manaia Dem. Farm	98	14.1	7.5	10.8	-1.0	17.7	31	2.2	7	118	24	+6	22	2	180
Normanby	122	14.0	6.4	10.2	..	17.5	31	0.5	20	105	22	..	29	25	..
Patea	43	14.6	8.6	11.6	-1.3	18.5	31	4.5	7	73	16	-21	19	25	..
Ruatiti	354	13.6	5.0	9.3	..	19.4	30	-0.5	20	191	20	..	27	23	..
Ohakune Junction	629	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Karioi	648	12.1	3.3	7.7	-1.9	17.9	30	-0.6	7	139	18	+25	22	2	..
Waiouru	823	10.6	2.3	6.5	-1.7	16.5	30	-1.0	7	110	18	+3	15	2	..
Waiouru Military Camp	823	10.2	2.1	6.2	-1.8	16.3	31	-1.1	7	113	19	+4	15	2	..
Ahu Ahu Valley	85	15.5	5.9	10.7	..	20.8	31	0.1	21	109	20	..	25	2	..
Taihape	433	14.6	4.4	9.5	-1.7	19.2	21	-0.8	7	105	20	..	16	29	..
Kahui, Taihape	518	12.7	4.7	8.7	-2.2	18.2	30	0.9	7	80	19	..	15	25	..
Patupa	24	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Wanganui	22	15.3	8.6	12.0	-1.0	20.7	31	3.4	20	66	18	-15	15	25	188
Wanganui Airport	9	15.2	8.2	11.7	..	19.5	31	3.2	7	71	18	..	16	25	..
Farewell Spit	3	16.2	7.5	11.9	-0.2	19.6	28	3.2	3	41	19	-76	15	2	..
Totaranui	10	16.0	5.7	10.9	..	20.2	13	1.5	3	74	11	..	29	21	..
Westport Airport	2	14.4	6.0	10.2	-1.4	18.1	27	2.9	19	147	23	-36	29	9	167
Cobb Dam	823	10.4	1.7	6.1	-1.7	16.5	30	-1.5	20	87	17	-111	21	23	..
Arapito	20	14.5	5.9	10.2	..	17.7	27	0.8	20	151	19	..	31	23	134
Lake Rotorua	443	12.7	2.3	7.5	..	17.6	28	-2.9	20	117	16	..	26	22	..
Lake Rotoiti	634	12.6	1.0	6.8	-1.9	18.8	28	-3.3	28	55	18	-77	16	23	..
Hokitika Airport	39	14.1	5.3	9.7	-1.2	19.5	27	0.5	3	216	20	-41	46	9	173
Reefton	198	14.3	4.1	9.2	-1.9	19.7	28	-0.6	19	144	20	-36	29	23	..
Barrytown	30	14.1	7.6	10.9	..	19.0	27	3.8	24	224	19	..	60	9	..
Totara Flat	77	14.7	4.0	9.4	-1.9	19.1	28	-1.6	19	159	19	-11	30	9	..
Greymouth	4	13.9	6.3	10.1	-1.5	18.7	27	2.9	17	192	21	-32	52	9	156
Otira Substation	383	12.1	2.9	7.5	..	17.4	28	-1.5	20	405	22	-88	65	31	..
Springs Junction	421	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Hari Hari	45	13.7	3.8	8.8	-1.9	18.2	27	-1.0	17	253	20	-174	55	14	..
Franz Josef	122	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Fox Glacier	152	12.8	4.0	8.4	..	19.3	27	-0.1	17	283	19	-149	67	14	..
Milford Sound	3	13.2	4.2	8.7	-1.5	19.6	27	-0.3	4	464	18	-82	84	14	..
Puysegur Point	43	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Stephens Island	187	13.3	8.6	11.0	..	15.5	20	6.2	24	19	11	-57	7	21	..
Riwaka, Motueka	8	16.4	4.5	10.5	-1.5	21.2	14	0.4	17	29	11	-83	11	2	242
Tapawera	146	16.3	3.1	9.7	..	21.6	28	-3.5	19	33	10	..	14	5	..
Crail Bay Pelorus Sd	13	15.4	8.1	11.8	..	18.7	13	4.3	17	40	12	..	15	21	..
Appleby	17	16.0	5.6	10.8	-1.3	20.8	14	0.5	20	17	9	-62	4	21	..
Nelson Airport	2	15.7	5.1	10.4	-1.3	20.3	13	1.1	3	26	9	-55	6	21	241
Rai Valley	79	15.6	4.5	10.1	-1.3	21.2	14	-1.6	3	79	11	-86	22	2	..
Moutere Hills	110	15.4	6.9	11.2	-0.9	19.3	14	1.9	25	20	9	-69	5	24	..
Blenheim Airport	27	16.3	5.0	10.7	-1.4	23.3	14	-0.3	26	26	13	-35	8	6	..
Brancott Valley	64	16.6	4.7	10.7	..	23.0	14	-0.9	17	29	11	..	8	6	..
Blenheim	4	17.0	4.9	11.0	-1.5	23.5	14	0.0	3	24	14	-29	4	29	217
Waihopai Power Station	262	15.6	3.7	9.7	-1.9	21.0	30	0.0	28	34	13	-42	9	5	..
Vernon Lagoons	2	16.9	4.5	10.7	-1.1	24.8	14	-0.3	26	32	13	..	6	21	209
Lake Grassmere	2	15.5	7.2	11.4	-0.8	24.5	14	1.4	19	22	9	-21	7	26	215
Cape Campbell	3	14.8	8.3	11.6	-0.2	21.3	14	5.2	17	41	13	-10	13	16	..
Hammer Forest	387	14.5	2.7	8.6	-1.8	22.2	31	-3.5	20	106	17	+9	22	26	163
Molesworth	893	11.8	-0.3	5.8	-2.4	19.0	31	-7.4	20	50	8	-8	15	27	..
Kaikoura Flats	24	14.7	3.8	9.3	..	21.1	31	0.6	17	106	14	..	22	25	..
Kaikoura	108	13.6	7.0	10.3	-1.3	20.1	14	3.6	17	60	14	-1	12	25	190
Arthurs Pass	738	9.3	1.1	5.2	..	14.5	28	-4.5	20	278	20	-106	50	31	..
Balmoral Forest	198	15.5	4.0	9.8	-1.0	23.5	31	-1.5	3	64	14	+11	14	26	..
Waiau	137	15.9	3.9	9.9	..	22.9	31	-2.1	20	53	12	..	16	26	..
The Hermitage, Mt Cook	765	11.7	2.0	6.9	-1.9	19.6	28	-2.8	3	298	21	-73	68	31	127
Mt John	1027	10.4	0.7	5.6	-2.2	17.8	31	-3.9	18	118	12	+75	44	24	..
Craigieburn Forest	914	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Lake Coleridge	364	14.5	4.0	9.3	-1.3	21.5	31	-1.7	20	93	16	+17	30	24	..
Highbank Power Station	336	13.0	4.0	8.5	-2.2	22.8	31	-0.4	20	117	13	+31	25	24	175
Hororata Substation	192	15.5	3.1	9.3	-1.5	25.2	31	-2.2	3	107	14	+41	24	26	..
Winchmore	160	14.7	4.1	9.4	-1.2	24.6	31	-0.1	3	117	13	+56	26	24	..
Peel Forest	274	14.5	2.1	8.3	..	24.2	31	-2.4	20	171	19	..	35	24	..
Ashburton	101	15.9	4.4	10.2	-1.5	26.4	31	-0.3	20	103	12	+42	26	24	144
Waipara	64	15.8	5.4	10.6	..	22.8	31	-1.0	20	56	14	..	13	26	..
Ashley Forest	107	14.9	4.8	9.9	-1.5	23.9	31	0.6	3	85	12	+27	18	26	176
Rangiora	46	16.3	4.1	10.2	-1.1	26.0	31	-1.5	20	66	12	+23	16	26	..
Darfield	195	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Eyrewell Forest	158	15.5	3.5	9.5	-1.5	25.2	31	-1.0	21	86	12	+12	19	26	..
Christchurch Airport	30	16.1	4.2	10.2	-1.3	25.5	13	-0.4	12	76	13	+33	21	26	190
Templeton	46	15.5	4.0	9.8	..	24.1	31	-1.0	12	78	11	..	17	26	..
Christchurch	7	16.3	5.6	11.0	-1.0	25.4	13	2.0	7	79	11	+33	29	26	..

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		A Max.	B Min.			Maximum	Date	Minimum	Date				Amount	Date	
Metres	°C	°C	°C	°C	°C	°C	°C	mm	mm	mm		Hrs			
Bromley, Christchurch	9	15.6	6.6	11.1	-0.6	24.2	13	1.5	3	89	14	+46	26	26	..
Mt Pleasant	137	14.7	7.0	10.9	-1.0	23.5	13	2.0	24	130	14	+79	41	24	..
Lincoln	11	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Akaroa	3	15.6	6.1	10.9	..	25.5	12	1.0	7	214	12	..	49	23	..
Lake Tekapo	683	11.9	2.3	7.1	-2.5	20.2	31	-2.5	17	100	9	+49	32	24	..
Lake Pukaki	556	13.3	2.7	8.0	-1.6	21.6	31	-2.3	3	47	12	..	15	14	..
Fairlie	304	15.0	2.1	8.6	..	25.0	31	-3.2	20	89	10	..	23	23	..
Twizel	457	14.3	1.9	8.1	-1.3	21.0	31	-4.3	3	48	13	..	15	14	..
Ikawai	70	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Geraldine	119	15.7	3.5	9.6	..	26.3	31	-1.5	20	104	15	..	26	24	..
Orari Estate	81	15.5	3.3	9.4	-1.4	27.0	31	-2.0	20	103	14	+42	29	24	..
Temuka	24	16.0	3.5	9.8	-1.0	26.6	31	-1.0	3	60	11	+7	18	25	..
Timaru Airport	26	15.6	3.2	9.4	-1.1	26.9	31	-2.5	12	65	10	+19	23	24	..
Adair	85	15.1	4.8	10.0	-0.9	25.6	31	0.6	20	47	13	-1	14	24	..
Timaru	17	15.5	5.2	10.4	-1.1	27.0	31	0.2	20	62	11	+14	29	24	195
Waimate	61	15.4	4.9	10.2	-1.3	26.0	31	0.4	3	87	12	+36	32	24	..
Kurov	207	15.5	4.6	10.1	..	23.3	31	-1.2	3	59	13	..	21	15	..
Oamaru Airport	30	14.6	4.9	9.8	-0.5	25.2	31	-0.2	4	49	13	+8	20	26	170
Tara Hills, Omarama	488	14.3	3.5	8.9	-0.9	20.0	29	-2.3	20	54	8	+6	17	24	208
Lake Hawea	350	13.3	4.0	8.7	-2.0	17.9	29	-0.9	19	69	10	+3	26	14	..
Wanaka	296	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Queensberry	277	14.6	3.9	9.3	..	19.8	14	-2.2	3	49	10	..	21	14	..
Bendigo	200	15.6	3.8	9.7	..	20.9	30	-2.7	3	47	8	..	11	24	..
Naseby Forest	610	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Windsor	88	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Oamaru	5	14.9	5.9	10.4	..	25.6	31	-1.0	17	70	14	..	18	26	..
Ranfurlly	427	13.2	2.2	7.7	..	20.4	30	-4.0	3	69	7	..	20	23	173
Herbert Forest	61	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Palmerston	21	15.4	4.2	9.8	-0.1	24.3	14	-3.3	3	95	13	..	30	24	159
Cherry Farm Hospital	6	15.2	4.3	9.8	-0.5	23.8	31	-2.0	3	122	17	+76	47	24	..
Taiaroa Head	72	12.8	6.2	9.5	-0.8	20.2	9	1.4	18	138	15	+87	43	24	..
Invermay, Taieri	30	14.2	4.3	9.3	..	23.4	13	-1.2	3	200	18	..	59	24	161
Berwick Forest	18	14.9	4.2	9.6	-0.9	22.1	13	-2.6	3	178	18	+122	49	24	..
Dunedin Airport	1	14.5	3.9	9.2	-1.4	21.8	13	-2.4	3	156	19	+110	54	24	168
Musselburgh, Dunedin	2	13.5	6.4	10.0	-1.1	21.6	13	1.5	3	147	18	+89	38	24	162
Te Anau	215	12.8	2.9	7.9	-1.3	19.0	28	-3.8	19	99	18	-3	17	22	180
West Arm, Manapouri	232	11.4	3.4	7.4	-1.6	17.0	29	+1.1	19	383	21	..	51	30	..
Borland Burn	183	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Queenstown	329	14.7	4.3	9.5	-0.9	20.8	30	0.3	3	94	16	+18	28	14	192
Queenstown Airport	349	13.3	3.0	8.2	-1.5	19.7	30	-2.5	3	120	13	+66	49	24	..
Otama	183	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Cromwell	213	15.7	3.7	9.7	-1.8	22.5	30	-2.7	3	34	12	+1	11	14	199
Northburn	210	15.5	3.9	9.7	..	21.2	30	-2.3	3	34	12	..	9	14	..
Lauder	370	13.9	3.4	8.7	..	20.1	30	-2.6	3	50	11	..	13	23	..
Clyde Dam	160	15.8	4.4	10.1	..	22.9	30	-1.1	3	35	12	..	11	15	..
Ophir	305	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Moa Creek	427	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Earnsclough	152	16.2	2.9	9.6	-1.4	25.3	14	-3.2	3	42	9	+12	15	24	..
Roxburgh Power Station	110	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Deep Stream	396	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Beaumont	46	14.8	3.8	9.3	..	22.6	30	-2.3	19	157	18	+76	38	24	..
Mahinerangi Dam	396	11.6	2.3	7.0	-1.4	19.5	30	-2.0	3	206	17	+135	72	24	..
Tapanui	226	12.7	3.1	7.9	-2.4	19.2	30	-0.8	18	131	20	+57	29	24	..
Taieri Mouth	15	13.3	4.5	8.9	-1.1	21.4	31	-0.5	20	158	17	+97	48	24	..
Tuatapere	27	13.5	3.8	8.7	..	19.6	30	-1.0	18	103	19	..	14	31	..
Otautau	55	13.0	3.4	8.2	-1.9	19.1	30	-2.5	19	146	19	+55	25	24	162
Winton	44	12.9	3.8	8.4	-2.2	20.3	30	-1.2	19	125	21	+64	23	24	173
Gore	123	12.8	4.0	8.4	-1.8	19.8	30	-0.5	18	118	21	..	24	24	162
Hokonui Forest	46	13.5	4.2	8.9	-1.6	20.3	30	0.0	17	149	21	+68	25	24	..
Woodlands	47	13.0	4.1	8.6	-1.6	20.7	30	-0.6	3	155	29	..	19	24	..
Invercargill Airport	0	12.6	4.4	8.5	-1.4	19.2	30	0.3	18	146	23	+60	22	31	156
Tiwai Point, Bluff	5	12.1	5.7	8.9	-1.7	17.6	30	2.2	3	107	23	..	16	31	..
Stewart Island	3	11.8	4.6	8.2	..	18.1	30	0.1	4	142	27	..	16	25	..
Milton	18	13.5	3.7	8.6	-1.7	20.0	14	-1.2	20	179	16	+126	51	24	..
Finegand, Balclutha	6	..	..	..	..	..	..	..	..	117	19	..	23	24	..
Owaka	5	13.0	3.9	8.5	..	20.7	30	-1.2	3	145	21	..	31	24	..
Nugget Point	129	11.8	4.4	8.1	-1.3	18.6	13	0.9	18	117	24	+53	22	14	..
Tautuku	61	..	4.2	..	..	..	..	1.1	17	166	23	..	17	11	..
Nandi Airport, Fiji	19	30.2	21.0	25.6	+0.9	33.4	28	18.5	1	57	11	-42	16	6	173
Rarotonga Airport	7	25.9	18.8	22.4	-0.6	28.4	28	15.4	23	25	7	-105	16	16	242
Totokoitu, Rarotonga	9	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Raoul Island	38	20.3	14.8	17.6	+0.1	22.1	26	11.5	4	28	20	-56	9	1	201
Campbell Island	15	8.3	3.5	5.9	-0.3	10.7	22	-0.5	12	113	24	-4	14	8	77
Waitangi, Chatham Island	44	11.9	6.7	9.3	-0.9	15.7	23	2.1	20	82	24	+26	27	2	140
Scott Base, Antarctica	16	-17.3	-28.6	-23.0	-0.2	-5.6	31	-47.1	2	..	..	..	..	..	..

CLIMATOLOGICAL TABLE—Summary of the Records of Temperature, Rainfall, and Sunshine for October 1982—continued

Station	Height of Station Above M.S.L.	Air Temperature in Degrees Celsius								Rainfall in Millimetres				Bright Sunshine	
		Means of		Mean of A and B	Difference From Normal	Absolute Maximum and Minimum				Total Fall	No. of Rain Days	Difference From Normal	Maximum Fall		
		A	B			Maxi- mum	Date	Mini- mum	Date				Amount		Date
		Max.	Min.	°C	°C	°C	°C	°C	°C	mm	mm	mm	Hrs		
LATE RETURNS AND CORRECTIONS															
Dargaville 09/1982	20	16.6	8.4	12.5	+0.3	20.4	24	1.9	16	96	17	-1	19	13	137
Huntly 09/1982	34	16.2	7.0	11.6	..	20.2	24	1.5	17	59	13	..	11	25	..
Taupiri 08/1982	23	14.9	4.4	9.7	..	16.9	13	-3.4	17	55	25	..	16	5	..
Hamilton Airport 09/1982	50	16.3	3.6	10.0	-0.5	20.0	24	-3.7	3	62	11	-35	12	25	..
Port Taharoa 08/1982	27	14.4	8.0	11.2	+0.3	16.6	14	1.7	19	51	..	..	14	1	..
Port Taharoa 09/1982	27	15.7	9.2	12.5	+0.2	19.0	21	2.9	3	98	..	..	..	..	..
Omata 09/1982	61	14.8	8.4	11.6	-0.1	17.1	22	4.0	2	169	16	..	48	25	..
Lower Retaruke 09/1982	223	14.8	4.6	9.7	-0.1	17.7	21	-3.9	3	121	15	..	23	27	..
Mt Bruce Reserve 09/1982	305	13.3	3.9	8.6	+0.1	18.5	23	-3.3	3	185	14	..	61	19	..
Kapiti Island 07/1982	16	10.9	6.5	8.7	-0.4	14.5	29	3.5	7	67	11	-40	21	20	..
Cape Egmont 09/1982	8	14.6	7.9	11.3	-0.4	17.0	21	0.0	3	112	17	-5	27	4	..
Kapuni 08/1982	173	12.5	3.8	8.2	..	15.5	1	-1.8	19	59	19	..	16	1	..
Kapuni 09/1982	173	13.9	5.3	9.6	..	18.0	25	-1.2	29	92	14	..	36	27	..
Springs Junction 08/1982	421	..	..	..	..	..	..	..	..	225	..	+37	45	17	..
Hari Hari 09/1982	45	14.1	4.1	9.1	+0.0	16.3	21	-2.0	2	223	16	-122	39	10	..
Rai Valley 09/1982	79	14.6	4.5	9.6	+0.2	18.8	26	-0.9	16	319	13	+156	98	4	..
Waiau 09/1982	137	15.9	2.9	9.4	..	23.3	24	-3.0	2	45	8	..	14	11	..
Craigieburn Forest 07/1982	914	5.8	-4.0	0.9	-0.6	11.2	30	-7.1	6	151	10	+27	38	31	..
Eyrewell Forest 08/1982	158	14.6	0.4	7.5	+1.5	19.7	24	-5.2	17	35	8	-34	17	17	..
Eyrewell Forest 09/1982	158	14.2	2.9	8.6	+0.1	22.0	25	-2.6	16	50	10	-8	19	20	..
Christchurch 09/1982	7	14.4	3.9	9.2	-0.6	20.5	19	-2.1	16	23	9	-23	11	8	..
Naseby Forest 08/1982	610	..	..	..	..	..	..	..	..	29	..	-1	7	31	..
Windsor 09/1982	88	12.9	3.1	8.0	..	22.6	23	-1.4	28	16	7	..	5	7	..
Taiaroa Head 09/1982	72	10.9	5.9	8.4	+0.0	15.0	19	2.0	28	21	12	-17	5	5	..
Te Anau 09/1982	215	12.8	2.1	7.5	-0.1	17.7	24	-3.2	28	29	6	-65	16	18	139
West Arm, Manapouri 09/1982	232	10.7	3.5	7.1	+0.4	14.5	25	-1.0	28	206	19	..	72	18	..
Borland Burn 09/1982	183	13.8	0.4	7.1	..	18.0	23	-4.5	16	31	22	..	13	18	..
Roxburgh Power Station 09/1982	110	14.3	2.7	8.5	-0.5	22.0	23	-3.0	16	23	12	-5	6	5	..
Tautuku 09/1982	61	12.7	3.5	8.1	..	18.5	18	-0.4	16	53	18	..	6	1	..
Raoul Island 07/1982	38	18.6	13.0	15.8	-0.4	21.7	21	8.1	12	183	23	+20	40	28	152
Raoul Island 08/1982	38	17.8	11.8	14.8	-1.2	19.6	1	8.3	21	104	16	-33	31	11	164

The "normal" refers to the present site of the instruments. Standard period for normals is 1941-1970. No normals are available for stations with only short records.

\*Indicates that the sunshine recorder is not located at the station but is in the near vicinity.

A rainday is a day with rainfall equal to or greater than 0.1 mm.

Where the extremes of temperature and rainfall have occurred more than once during the month, the date of the first occurrence is given.

## THE WEATHER IN NEW ZEALAND IN OCTOBER 1982

*General*—October was a cool month for the whole country. In the north north-easterlies were less frequent and south-easterlies more frequent than usual for October, with the frequency of south-westerlies the highest for October for 5 years. Winds were close to average for the month in the South.

Pressures were very low over the whole country, especially eastern areas.

Farmers in the North Island reported adequate grass growth and good stock condition in most areas although the cold weather slowed grass growth. There was sufficient rain to ease the drought in affected areas of the South Island and growth was reported to be good. Frequent frosts and late snow caused problems for some orchardists.

During Labour weekend (23rd–25th) unseasonably heavy snow and gale force winds disrupted sporting activities and closed roads in both the North and South Islands. There were losses among new born lambs in the McKenzie Basin.

A tornado at Hikamutu (south of Taumarunui) on the 5th caused damage estimated in excess of \$30,000 to one farm.

*Rainfall*—Rainfall totals were below or close to average over the whole country except at North Cape and in the Gisborne – East Cape area in the North Island and the south and east of the South Island where they were well above normal. The Bay of Plenty and much of central New Zealand had less than half their usual October rainfalls, with some areas around Nelson and Motueka receiving less than 30 percent of their normal rainfall.

The drought in eastern areas of the South Island was eased by higher than normal rainfall this month. Much of Otago and parts of Canterbury had more than twice their normal rainfalls. Among those stations with exceptionally high rainfalls (with percent of normal in brackets) were: Akaroa (297%), Purau, Lyttleton (305%), Godley Head (349%), Dunedin Airport (338%), Balmoral (342%), Pinewood, Outram (393%), Taieri (392%), and Mosgiel (446%).

*Temperature*—Temperatures were 1°C to 2°C below average over the whole country this month. Record low mean temperatures for October were established in places as diverse as Taupo, Gisborne, Ohakea and Invercargill, where records cover 30 years or more, and both Blenheim and Westport had their lowest mean October temperatures since 1945.

There were several very cold periods this month. Between the 2nd and 4th temperatures were 2°C–5°C below average in the North Island and up to 8°C below average in the South Island. Frosts were widespread. Mean temperatures were 5°C–6°C below average on the 18th and 19th, with widespread snow in the South Island and Central North Island. On the 23rd temperatures in the South Island were up to 6°C below average, and 3°C–7°C below average for the whole country on the 24th. They remained 2°C–4°C below average except in the west of the South Island, until the 28th. During this period heavy snow fell in inland areas of both Islands and hailstorms were widespread.

*Sunshine*—Sunshine totals were very close to normal this month. Areas around Wellington, Westport, Nelson and Timaru had 20 to 25 hours more sun than usual for October. The rest of the North Island had average sunshine totals, while the rest of the South Island had slightly less sun than usual.

## THE WEATHER SEQUENCE OCTOBER 1982

## 1–7 October

A complex trough which began to develop in the Tasman Sea at the end of September moved onto New Zealand on the 1st of October. Rain fell over most of the South Island and the north of the North Island on the 1st and on the north and east of the South Island and much of the North Island on the 2nd. Temperatures were very cool. A southerly flow developed over the country on the 3rd as the trough began to move away to the east. Light rain fell in western and southern areas of the South Island and there were isolated falls in the North Island. Temperatures remained cool. Unsettled and showery weather continued in most districts until the 7th as a disturbed west to southwest airstream developed over the country. By the 7th a ridge from an extensive anticyclone in the Tasman Sea had begun to move onto New Zealand, bringing fine weather to all districts.

## 8–14 October

Apart from some showers in Fiordland, fine weather continued on the 8th, but a disturbed westerly flow developed on the 9th bringing rain to western districts as far north as Ohakea. As fronts within this flow crossed the country on the 10th light rain fell in most areas except those to the east of both Islands. Showers continued in southern and western areas on the 11th and 12th, becoming confined to Fiordland on the 13th as the westerly flow continued over the country. There were heavier falls in the south and west of the South Island on the 14th as a front moved across these areas. Light rain fell in some parts of Northland on the 14th as a front, associated with a small depression near Norfolk Island, moved towards Northland.

## 15–21 October

A trough developed over New Zealand during the 15th and fronts within this trough brought rain to most areas except in central New Zealand. Cold, showery weather became widespread during the 16th and 17th as the trough moved away to the east and was followed by a cold southerly to south-westerly airstream. A complex depression developed in the central Tasman Sea during the 18th and as this moved eastward associated fronts brought heavy rain to the northern half of the North Island. At the same time a small anticyclone centred south-west of New Zealand brought generally fine weather to the South Island and particularly western areas as it moved eastwards between the 18th and 20th. By the 21st a complex trough had begun to move onto the country bringing showers to western and northern areas of both Islands.

## 22–31 October

The trough which began to move onto New Zealand during the 21st remained over the country until the 28th. Fronts within this trough crossed the country during the 22nd and 23rd, with widespread rain. A depression developed, within the trough, off the east coast of the South Island on the 24th and there was heavy rain in southern and eastern areas of the South Island, and showers over most of the country. This depression intensified during the 25th and rain became widespread. Temperatures were cold and snow fell in inland areas on the 25th and 26th. By the 27th the trough and depression had begun to move eastward off the country, but showers remained widespread in the east of the South Island and through the North Island. A ridge from an anticyclone centred near Lord Howe Island moved onto the country on the 28th, bringing milder temperatures and fine weather. Although the ridge persisted over the North Island until the end of the month, a disturbed westerly flow developed over the South Island. Fronts within this flow brought showers to isolated areas of both Islands on the 29th and to western and southern areas of the South Island on the 30th and 31st. Temperatures were mild.

(N.Z. Met. S. Pub. 107)

J. S. HICKMAN, Director.

