



LAND & DEEDS OFFICE

15 DEC 1983

GIBBORNE

SUPPLEMENT

TO THE

NEW ZEALAND GAZETTE

OF

THURSDAY, 8 DECEMBER 1983

Published by Authority

WELLINGTON: FRIDAY, 9 DECEMBER 1983

CLIMATOLOGICAL TABLE

FOR OCTOBER 1983

CLIMATOLOGICAL TABLE—Summary of the Records of Temperature, Rainfall, and Sunshine for October 1983—continued

Station	Height of Station Above M.S.L.	Air Temperature in Degrees Celsius							Rainfall in Millimetres				Bright Sunshine Hrs		
		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	mm	mm	mm	mm	Hrs			
Ruakura Hamilton	40	18.3	9.9	14.1	+1.4	22.1	29	2.0	18	150	19	+43	36	4	137
Whatawhata	104	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Rukuhia	66	18.3	10.2	14.3	+1.3	22.0	29	2.9	18	150	18	+38	33	22	129
Hamilton Airport	50	18.5	9.2	13.9	+1.6	22.1	29	1.0	18	165	18	+56	41	22	..
Cambridge	76	18.2	9.8	14.0	..	22.2	29	1.2	15	157	20	..	33	4	..
Port Taharoa	27	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Mohakaitio Stn Mokau	46	16.9	10.8	13.9	+0.9	21.5	22	5.3	18	109	21	-46	27	22	..
Arapuni Power Stn	123	18.4	9.1	13.8	+0.8	24.3	29	2.5	19	223	19	+91	42	22	..
Waikeria	46	18.1	9.2	13.7	..	23.1	29	0.9	15	139	18	..	38	22	..
Te Kuiti	61	18.2	10.0	14.1	+1.3	24.2	29	3.4	15	183	24	+31	41	22	96
Wairere	122	17.2	9.5	13.4	..	23.2	29	1.8	18	142	24	-5	28	22	..
Pureora Forest	549	14.3	7.1	10.7	+0.9	20.6	29	-0.1	17	233	24	+55	50	22	..
Mangakahu Valley	397	15.6	..	..	..	21.8	29	..	..	159	23	..	33	22	..
Taumarunui	171	18.4	8.9	13.7	+0.9	25.7	29	0.5	18	111	23	-26	23	22	98
Tokirima	152	18.0	8.3	13.2	..	25.3	29	-0.7	18	175	23	..	36	22	..
Omata	61	16.3	10.2	13.3	+0.4	21.2	29	5.5	2	157	20	..	18	5	..
New Plymouth	55	..	..	..	..	..	..	..	..	..	..	..	..	..	..
New Plymouth Airport	27	16.8	10.4	13.6	+1.3	21.1	29	3.5	18	152	19	+17	30	22	155
North Egmont	955	11.1	4.7	7.9	..	17.5	29	-0.4	18	800	25	..	142	19	..
Te Wera Forest	180	16.7	8.5	12.6	+1.2	23.0	29	-1.1	18	175	20	+5	29	8	..
Lower Retaruke	223	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Turangi	366	15.9	8.0	12.0	+0.6	23.2	29	-0.5	18	238	24	..	61	22	115
Chateau, Mt Ruapehu	1097	10.8	3.5	7.2	..	14.4	26	-2.3	14	300	22	..	64	4	..
Hukanui	235	15.4	8.7	12.1	..	22.7	29	0.1	18	129	24	-51	23	19	..
Mt Bruce Res	305	16.0	7.1	11.6	+1.2	25.0	29	2.0	18	121	19	..	27	4	..
Waingawa Masterton	114	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Kopua	311	15.7	8.2	12.0	+0.8	22.1	29	0.3	18	148	18	+69	56	14	..
Waipukurau	137	16.9	7.8	12.4	+0.6	22.5	20	0.5	18	118	13	+62	49	14	96*
Dannevirke	207	16.7	9.3	13.0	+1.2	23.4	21	0.7	18	128	16	+37	35	4	114
Porangahau	8	17.2	9.8	13.5	..	22.9	20	5.0	13	87	16	..	31	4	..
Castlepoint	3	16.5	11.1	13.8	+0.4	21.7	25	5.8	18	70	14	+6	16	4	..
Ngaumu Forest	244	17.0	7.8	12.4	+1.7	25.0	29	0.0	18	74	12	-12	28	14	..
Tauherenikau, Alloa	43	17.3	8.4	12.9	+0.7	26.2	29	1.6	2	76	18	-13	13	3	..
Waiorongomai	21	16.0	9.7	12.9	+1.1	23.2	29	3.5	18	100	22	-35	20	11	..
Cape Palliser	10	16.4	10.8	13.6	+0.2	22.7	29	6.3	2	61	19	-15	16	14	..
East Cape	17	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Ruatoria	61	18.5	10.5	14.5	+0.7	23.4	30	3.1	19	145	20	+3	30	11	..
Mangatu Forest	182	18.0	9.1	13.6	+0.8	22.0	23	3.5	15	98	15	-4	27	4	..
Manutuke Gisborne	9	18.4	9.8	14.1	+0.8	22.8	30	3.4	3	88	16	+17	25	4	..
Gisborne Airport	4	18.7	9.8	14.3	+0.8	23.5	23	2.9	18	75	15	+4	21	4	111
Onepoto, Waikaremoana	643	14.5	6.8	10.7	+0.1	20.6	29	2.6	15	218	22	+68	44	4	..
Wharerata Forest	439	14.8	8.6	11.7	..	20.1	3	3.4	18	188	18	..	60	4	..
Esk Forest	427	15.4	8.5	12.0	+0.6	22.0	30	1.2	18	231	19	+119	55	15	..
Kaweka Forest	414	16.1	8.5	12.3	+0.2	22.3	30	2.3	18	193	20	..	57	4	..
Napier Airport	2	17.8	10.0	13.9	..	24.3	21	1.7	18	140	17	+82	50	4	..
Napier	2	18.5	10.5	14.5	+0.7	23.6	21	3.4	18	152	17	+99	46	4	114
Hastings	16	18.3	9.8	14.1	..	23.7	30	2.5	18	122	17	..	43	4	..
Whakatu	6	17.8	9.5	13.7	..	23.6	21	2.3	18	128	16	..	49	4	..
Gwavas Forest	335	16.1	6.9	11.5	+0.8	21.6	21	-0.2	18	148	16	+64	46	4	..
Makaretu	335	16.7	7.5	12.1	+0.6	22.4	29	0.0	18	137	18	..	47	14	..
Mohaka Forest	286	16.6	9.0	12.8	+0.4	23.5	30	3.5	18	173	18	+60	37	4	..
Frasertown, Wairoa	8	18.1	..	..	..	25.5	30	..	..	92	19	-7	25	15	..
Wairoa	20	18.0	10.3	14.2	+0.6	24.5	30	4.7	18	89	15	..	28	4	110
Kapiti Is	16	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Paraparaumu Airport	7	16.2	10.0	13.1	+0.8	20.8	29	2.9	16	76	17	-21	16	19	121
Flockhouse Bulls	9	16.7	9.1	12.9	+0.6	22.3	21	1.6	18	54	19	-25	17	22	..
Ohakea	48	16.8	9.8	13.3	+0.6	22.3	24	3.6	14	64	18	-22	18	22	110
Wharite Peak	914	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Kairanga Palmerston N	15	17.1	8.9	13.0	+0.6	23.1	21	0.8	14	48	16	..	15	22	108
Palmerston N Airport	45	17.1	9.5	13.3	+1.3	23.3	29	0.0	14	56	14	-25	16	22	..
Palmerston N D S I R	34	17.1	9.8	13.5	+1.0	23.2	29	1.9	14	57	16	-32	14	22	67
Tiritia	100	16.4	9.4	12.9	..	22.5	21	1.7	14	70	16	..	14	22	..
Waitarere Forest	3	16.8	9.4	13.1	+0.6	22.0	24	0.6	13	61	16	-18	20	19	..
Levin	46	16.9	9.9	13.4	+1.0	22.1	24	3.6	13	80	16	-19	26	19	107
Titahi Bay	31	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Avalon, Lower Hutt	15	16.3	10.2	13.3	+0.9	21.4	29	3.7	16	96	19	-8	15	11	..
Kelburn, Wellington	125	15.0	9.6	12.3	+0.4	20.7	24	5.1	14	125	20	+13	20	14	129
Somes Is	43	15.2	10.2	12.7	..	20.0	29	5.5	14	113	17	..	23	13	..
Gracefield Lower Hutt	34	15.8	10.2	13.0	+0.6	21.0	29	4.3	16	100	17	-9	19	13	..
Wainuiomata	82	15.7	9.1	12.4	+0.7	21.8	24	2.0	16	136	18	..	35	13	..
Wellington Airport	6	15.8	10.5	13.2	+0.5	20.8	29	4.8	16	102	17	+13	20	14	..
Rimutaka Forest	37	16.1	9.1	12.6	..	22.3	29	2.5	16	117	20	..	29	14	..
Kaitoke	223	15.2	8.3	11.8	+1.4	22.6	29	1.4	16	195	24	+2	47	14	103
Wallaceville	56	16.3	9.1	12.7	+0.9	22.5	29	2.0	16	112	18	-5	22	14	118
Cape Egmont	8	16.5	10.9	13.7	+0.6	20.5	24	4.0	18	123	23	-7	29	22	..

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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	mm	mm	mm			Hrs	
Stratford Mtn House	846	11.3	5.1	8.2	+0.5	16.9	29	-2.0	18	656	25	+41	104	7	..
Stratford Dem Farm	311	14.9	7.6	11.3	+0.5	21.8	29	1.9	18	218	21	+17	39	22	100
Kapuni	173	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Manaia Dem Farm	98	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Normanby	122	15.9	8.4	12.2	..	20.4	22	1.5	18	86	25	..	21	22	..
Patea	43	16.5	10.4	13.5	+0.6	21.0	21	4.5	16	104	14	+10	29	22	..
Ruatiti	354	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Ohakune Junction	629	14.5	6.9	10.7	..	19.5	29	-1.4	18	135	20	..	39	4	..
Karioi	648	15.1	6.5	10.8	+1.2	21.2	29	-2.0	14	97	19	-17	33	4	..
Waiouru	823	13.1	5.6	9.4	+1.2	20.4	29	-0.2	18	88	17	-19	32	4	..
Waiouru Military Camp	823	12.9	5.6	9.3	+1.3	18.8	29	-2.3	18	94	19	-15	34	4	..
Ahu Ahu Valley	85	17.6	8.8	13.2	..	23.8	29	1.7	18	92	19	..	21	22	..
Taihape	433	16.5	7.7	12.1	+0.9	21.7	29	1.2	17	118	19	..	40	4	..
Kahui, Taihape	518	15.4	7.5	11.5	+0.6	21.8	29	1.5	18	133	16	..	37	4	..
Wanganui	22	17.4	10.5	14.0	+1.0	26.0	24	3.5	16	77	19	-4	24	22	107
Wanganui Airport	9	17.0	9.8	13.4	..	22.0	21	3.8	16	68	18	..	27	22	..
Farewell Spit	3	16.3	9.6	13.0	+0.9	20.0	29	4.5	14	100	19	-17	22	20	..
Totaranui	10	16.7	8.9	12.8	..	22.5	29	4.5	14	203	13	..	61	20	..
Westport Airport	2	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Cobb Dam	823	12.3	4.5	8.4	+0.6	19.0	29	-1.6	5	347	18	+149	71	24	..
Arapito	20	16.8	8.0	12.4	..	21.7	23	0.5	5	195	16	..	32	20	115
Lake Rotoroa	443	15.2	5.2	10.2	..	22.2	29	-1.5	5	205	21	..	42	20	..
Lake Rotoiti	634	14.6	5.1	9.9	+1.2	22.2	29	-1.7	16	151	20	+19	19	20	..
Hokitika Airport	39	16.1	7.9	12.0	+1.1	24.0	23	1.0	14	279	19	+22	71	20	158
Punakaiki	4	16.9	9.8	13.4	..	21.0	23	3.4	14	290	20	..	73	20	..
Reefton	198	17.3	6.9	12.1	+1.0	23.8	29	0.6	5	208	18	+28	63	20	..
Barrytown	30	16.3	9.8	13.1	..	23.3	23	5.8	5	318	18	..	57	20	..
Totara Flat	77	18.5	7.1	12.8	+1.5	24.5	27	0.3	5	143	17	-27	40	21	..
Greymouth	4	16.0	8.9	12.5	+0.9	22.4	27	3.0	12	287	17	+63	85	20	169
Otira Substation	383	15.5	6.7	11.1	..	22.5	27	0.0	4	752	21	+259	264	20	..
Springs Junction	421	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Pukekura	86	16.0	6.4	11.2	..	24.0	23	-1.8	14	410	17	..	87	20	..
Hari Hari	45	16.5	7.1	11.8	+1.1	24.0	23	0.0	5	542	20	+115	124	20	..
Okarito	10	15.8	8.0	11.9	..	19.3	27	1.6	5	280	14	..	51	20	..
Franz Josef	122	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Franz Josef	155	15.4	7.2	11.3	..	21.5	23	1.9	14	764	19	..	161	8	94
Fox Glacier	152	15.6	7.3	11.5	..	22.1	23	2.1	4	610	19	+178	130	8	..
Milford Sound	3	15.6	6.1	10.9	+0.7	21.1	23	0.7	4	411	18	-135	114	20	..
Puyssegur Point	43	13.0	7.8	10.4	..	18.6	20	3.4	12	146	25	-39	28	28	..
Stephens Is	187	13.4	9.6	11.5	..	16.9	29	6.6	12	100	19	+24	26	11	..
Riwaka Motueka	8	17.2	8.3	12.8	+0.8	21.9	25	3.1	14	205	13	+93	46	21	164
Tapawera	146	17.5	6.8	12.2	..	23.2	29	-0.4	5	94	15	..	27	23	..
Crail Bay Pelorus Sd	13	16.1	9.6	12.9	..	20.2	29	5.1	14	247	18	..	78	20	..
Appleby	17	16.8	9.1	13.0	+0.9	20.4	27	3.2	5	117	14	+38	28	7	..
Nelson Airport	2	16.7	9.0	12.9	+1.2	21.0	27	3.4	16	102	16	+21	21	7	156
Rai Valley	79	16.6	8.6	12.6	+1.2	21.4	29	0.2	16	378	13	+213	153	20	..
Moutere Hills	110	16.4	9.5	13.0	+0.9	20.4	27	4.9	14	118	15	+29	36	7	..
Blenheim Airport	27	17.2	8.6	12.9	+0.8	26.1	29	1.6	13	93	13	+32	25	21	..
Brancott Valley	64	17.3	7.9	12.6	..	25.5	29	1.2	13	106	13	..	24	21	..
Blenheim	4	17.9	8.7	13.3	+0.8	26.0	29	1.4	13	82	14	+29	24	21	141
Wither Hills Blenheim	32	17.2	8.8	13.0	+0.7	25.5	29	2.2	13	87	12	+31	21	14	..
Waihopai Power Stn	262	16.7	6.9	11.8	+0.2	25.9	29	0.5	6	143	16	+67	39	20	..
Vernon Lagoons	2	17.2	8.7	13.0	+1.2	24.4	29	0.2	13	62	12	..	16	21	129
Lake Grassmere	2	16.3	9.7	13.0	+0.8	22.8	29	3.7	16	40	11	-3	17	14	131
Cape Campbell	3	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Boyle River Lodge	600	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Hanmer Forest	387	16.3	5.0	10.7	+0.3	25.1	29	-3.0	6	149	16	+52	53	14	128
Molesworth	893	13.4	3.4	8.4	+0.2	22.6	29	-4.6	6	124	14	+66	33	14	..
Kaikoura Flats	24	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Kaikoura	108	15.0	8.4	11.7	+0.1	23.8	21	3.0	15	92	11	+31	33	14	155
Arthurs Pass	738	12.5	4.8	8.7	..	18.0	24	-1.0	4	643	17	+259	220	20	..
Culverden	174	16.4	6.6	11.5	..	26.0	29	-1.0	6	59	11	..	25	14	..
Balmoral Forest	198	17.1	6.5	11.8	+1.0	26.4	29	-1.5	5	71	13	+18	35	14	..
Waiou	137	17.7	6.5	12.1	..	25.7	29	-1.7	6	79	12	..	27	14	..
Cheviot	85	16.4	6.3	11.4	..	24.1	21	-1.8	6	92	11	..	36	14	161
The Hermitage Mt Cook	765	14.6	4.3	9.5	+0.7	21.9	29	-2.4	14	449	18	+78	166	20	135
Mt John	1027	12.3	3.8	8.1	+0.3	19.8	29	-2.8	4	86	11	+43	35	21	..
Craigieburn Forest	914	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Lake Coleridge	364	16.1	5.8	11.0	+0.4	27.0	29	-0.7	4	87	14	+11	36	20	..
Highbank Power Stn	336	14.4	6.2	10.3	-0.4	22.2	29	1.2	5	66	16	-20	16	21	151
Hororata Substation	192	16.2	5.8	11.0	+0.2	23.0	21	-1.8	6	48	18	-18	14	21	..
Winchmore	160	15.5	6.1	10.8	+0.2	22.3	21	-2.2	6	40	14	-21	12	21	..
Peel Forest	274	15.3	4.8	10.1	..	26.0	28	-2.0	4	105	24	..	25	21	..
Ashburton	101	16.3	6.6	11.5	-0.2	23.9	21	-1.3	6	30	12	-31	8	21	121
Waipara	64	16.8	7.4	12.1	..	25.9	29	-0.4	5	64	12	..	23	14	..

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		Metres	°C	°C	°C	°C	°C	°C	mm	mm	mm	mm		Hrs	
Ashley Forest	107	
Rangiora	46	16.6	6.8	11.7	+0.4	26.0	21	-0.5	6	42	19	-1	16	11	..
Darfield	195	17.1	6.3	11.7	+0.4	25.3	29	-1.1	5	40	13	-26	18	21	..
Eyrewell Forest	158	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Christchurch Airport	30	16.3	7.3	11.8	+0.3	26.0	21	-0.6	5	20	13	-23	6	11	177
Templeton	46	16.3	6.9	11.6	..	27.6	20	-0.2	5	26	11	..	8	21	..
Christchurch	7	16.7	7.5	12.1	+0.1	26.2	21	0.8	5	34	10	-12	11	11	..
Bromley Christchurch	9	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Mt Pleasant	137	15.7	8.7	12.2	+0.3	21.7	21	4.3	4	34	14	-17	9	30	..
Lincoln	11	15.8	6.7	11.3	+0.1	25.0	21	-0.8	5	31	12	-17	9	21	171
Quail Island	75	14.8	8.6	11.7	..	20.4	20	3.7	4	34	11	..	10	30	..
Akaroa	3	17.5	6.9	12.2	..	25.5	21	0.5	6	96	8	..	33	13	..
Lake Tekapo	683	14.0	4.1	9.1	-0.5	21.8	29	-2.0	5	80	12	+29	32	21	..
Lake Pukaki	556	14.9	5.0	10.0	+0.4	21.3	29	-1.1	14	117	17	..	45	21	..
Fairlie	304	15.1	4.6	9.9	..	21.0	28	-2.4	6	85	10	..	31	30	..
Twizel	457	15.8	4.2	10.0	+0.6	21.2	28	-2.6	14	115	16	..	42	21	..
Ikawai	70	15.0	5.9	10.5	+0.1	22.5	21	-1.0	6	61	13	..	11	21	..
Geraldine	119	15.7	6.2	11.0	..	23.0	21	-0.8	4	69	14	..	19	21	..
Orari Estate	81	15.0	5.9	10.5	-0.3	23.4	21	-0.9	4	69	15	+8	23	30	..
Temuka	24	15.2	..	..	..	24.0	21	..	..	74	12	+21	14	21	..
Timaru Airport	26	14.7	5.8	10.3	-0.2	24.0	21	-0.3	15	56	12	+10	14	21	..
Adair	85	14.1	7.0	10.6	-0.3	23.0	21	3.1	5	76	16	+28	17	30	..
Timaru	17	14.5	7.2	10.9	-0.6	24.6	21	1.0	6	60	15	+12	15	30	128
Waimate	61	..	6.9	..	..	..	..	0.7	6	72	15	+21	15	3	..
Aviemore	241	16.2	5.5	10.9	..	21.9	28	-3.0	5	55	16	+14	17	21	..
Kurow	207	16.1	6.4	11.3	..	20.8	25	-0.6	14	77	18	..	17	21	..
Oamaru Airport	30	14.0	6.8	10.4	+0.1	20.7	21	1.0	6	44	16	+3	11	3	141
Knobs Flat	360	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Tara Hills Omarama	488	15.9	5.0	10.5	+0.7	21.3	29	-1.5	5	79	14	+31	28	21	178
Lake Hawea	350	15.4	6.3	10.9	+0.2	19.4	17	-0.8	4	76	11	+10	24	21	..
Wanaka	296	17.4	5.8	11.6	+1.1	21.5	27	-1.0	15	74	9	+16	18	2	..
Queensberry	277	16.6	6.8	11.7	..	21.8	24	-1.4	4	77	17	..	22	2	..
Bendigo	200	17.4	6.2	11.8	..	22.1	24	-1.6	4	50	13	..	18	21	..
Naseby Forest	610	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Windsor	88	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Oamaru	5	14.0	7.2	10.6	..	20.0	2	1.1	6	71	16	..	10	3	..
Ranfurlly	427	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Herbert Forest	61	15.4	6.2	10.8	+0.7	21.3	21	0.0	5	76	15	+24	13	24	..
Palmerston	21	15.1	6.1	10.6	+0.7	20.5	20	-1.2	14	68	14	..	11	25	139
Cherry Farm Hospital	6	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Taiaroa Head	72	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Invermay, Taieri	30	15.4	5.6	10.5	..	22.0	28	-0.5	14	66	17	..	17	30	147
Berwick Forest	18	15.8	5.4	10.6	+0.1	22.3	20	-1.7	14	62	13	+6	18	25	..
Dunedin Airport	1	15.7	5.5	10.6	+0.0	21.9	28	-1.8	14	57	16	+11	13	21	143
Musselburgh Dunedin	2	14.0	7.7	10.9	-0.2	22.0	20	1.5	14	64	15	+6	18	30	148
Te Anau	215	15.4	5.7	10.6	+1.4	20.9	27	-0.9	4	69	12	-33	17	24	166
West Arm, Manapouri	232	14.1	5.9	10.0	+1.0	20.0	24	-0.5	4	169	18	..	30	2	..
Borland Burn	183	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Queenstown	329	16.5	6.3	11.4	+1.0	21.9	20	-0.2	4	72	16	-4	18	24	165
Queenstown Airport	349	15.1	5.2	10.2	+0.5	19.7	20	-1.5	4	68	12	+14	22	24	..
Otama	183	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Cromwell Sub Stn	213	17.4	5.8	11.6	..	23.1	24	-2.4	4	48	14	..	15	21	..
Cromwell	213	17.5	5.9	11.7	+0.2	23.1	24	-2.1	4	48	17	+15	15	21	186
Northburn	210	17.6	5.9	11.8	..	22.6	24	-1.5	4	34	13	..	15	21	..
Lauder	370	16.0	5.4	10.7	..	21.5	24	-2.6	4	77	19	..	22	21	..
Clyde Dam	160	17.3	6.5	11.9	..	22.8	24	-0.3	4	70	14	..	17	21	..
Ophir	305	16.8	4.4	10.6	+0.3	22.3	22	-4.2	2	70	11	+29	19	22	..
Moa Creek	427	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Alexandra	141	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Clyde	171	17.1	5.7	11.4	..	22.4	24	-2.5	4	64	15	..	18	21	..
Roxburgh Power Stn	110	17.0	5.6	11.3	-0.2	22.5	27	-1.5	4	52	12	+14	10	24	..
Ettrick	83	18.1	5.2	11.7	..	23.5	24	-1.5	4	67	11	..	15	21	..
Deep Stream	396	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Beaumont	46	16.7	5.0	10.9	..	24.0	27	-1.5	4	79	17	-2	13	21	..
Mahinerangi Dam	396	13.7	3.9	8.8	+0.4	19.6	28	-2.6	14	77	13	+6	12	26	..
Tapanui	226	15.3	5.1	10.2	-0.1	21.9	27	-1.5	12	79	17	+5	21	21	..
Taieri Mouth	15	13.7	5.4	9.6	-0.4	20.6	2	-1.3	14	63	11	+2	18	30	..
Tuatapere	27	15.8	5.5	10.7	..	21.4	24	-0.4	12	67	18	..	17	2	..
Otautau	55	14.9	4.8	9.9	-0.2	21.4	27	-1.8	12	71	17	-20	10	2	135
Winton	44	15.2	5.1	10.2	-0.4	21.6	27	-1.4	12	59	16	-2	11	2	157
Gore	123	14.8	5.7	10.3	+0.1	21.2	27	-1.1	12	70	18	..	12	21	151
Hokonui Forest	46	15.9	5.0	10.5	+0.0	23.4	27	-1.6	12	62	12	-19	13	2	..
Woodlands	47	14.9	4.9	9.9	-0.3	22.3	27	-1.1	12	70	20	..	11	2	..
Invercargill Airport	0	14.4	4.9	9.7	-0.2	20.6	27	-2.1	14	57	15	-29	10	29	166
Tiwai Point, Bluff	5	14.0	6.6	10.3	-0.3	18.6	27	1.0	12	64	17	..	9	29	..

CLIMATOLOGICAL TABLE—Summary of the Records of Temperature, Rainfall, and Sunshine for October 1983—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	°C	mm	mm	mm	mm	Hrs		
Stewart Is	3	13.2	5.2	9.2	..	18.4	27	-0.1	12	84	25	..	14	25	..
Milton	18	15.6	5.1	10.4	+0.1	21.0	20	-2.5	14	52	14	..	12	25	..
Finegand Balclutha	6	16.0	5.8	10.9	+0.6	21.8	20	-1.1	14	58	12	..	16	25	151
Owaka	5	14.7	4.6	9.7	..	20.1	8	-3.2	14	69	17	..	12	25	..
Nugget Point	129	12.7	6.6	9.7	+0.3	18.6	20	2.7	12	71	21	+7	13	25	..
Tautuku	61	14.6	4.6	9.6	..	20.1	2	-1.0	14	89	17	..	13	29	..
Nandi Airport, Fiji	19	31.2	20.1	25.7	+0.4	32.8	12	15.6	13	131	6	..	70	29	252
Rarotonga Airport	7	26.0	20.5	23.3	+0.3	28.2	27	15.8	10	308	17	+178	89	3	135
Totokoitu, Rarotonga	9	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Raoul Is	38	20.1	14.9	17.5	+0.0	22.1	31	10.7	1	91	10	6	40	29	170
Campbell Is	15	9.1	4.4	6.8	+0.6	12.4	20	0.0	26	85	25	+32	35	2	75
Waitangi, Chatham Is	44	13.4	8.4	10.9	+0.7	16.5	24	2.2	1	47	18	-9	17	26	81
Scott Base Antarctica	16	-15.7	-26.5	-21.1	+1.7	-6.6	26	-44.0	2	..	..	..	..	..	..

LATE RETURNS AND CORRECTIONS

Cape Reinga 09/1983	191	17.1	10.8	14.0	+1.1	19.0	7	8.2	18	73	19	-8	20	9	..
Port Ohope 09/1983	9	17.0	8.5	12.8	..	20.4	15	4.2	5	58	12	..	21	26	204
Omata 06/1983	61	14.6	7.7	11.2	+0.1	19.5	9	3.0	19	71	13	..	15	28	..
Omata 07/1983	61	13.7	6.0	9.9	-0.5	16.0	3	3.0	4	82	5	..	44	9	..
Omata 09/1983	61	15.1	8.4	11.8	+0.1	17.0	27	3.5	1	204	20	..	36	7	..
New Plymouth 09/1983	55	15.4	8.9	12.2	..	18.0	30	2.5	16	208	22	..	35	14	..
Chateau, Mt Ruapehu 09/1983	1097	8.2	1.2	4.7	..	11.2	30	-3.2	6	365	24	..	53	10	..
Castlepoint 09/1983	3	15.5	9.1	12.3	+0.7	20.1	10	5.0	16	102	16	+28	18	10	..
East Cape 09/1983	17	16.7	10.1	13.4	+0.8	19.2	15	5.0	17	92	11	-10	19	9	..
Ruatoria 09/1983	61	18.1	7.7	12.9	+1.1	20.9	9	1.4	6	103	13	-39	25	25	..
Wharite Peak 09/1983	914	7.2	2.6	4.9	+0.1	11.8	25	-2.0	16	187	26	+45	29	14	..
Kairanga Palmerston N 08/1983	15	13.4	4.3	8.9	+0.3	16.1	3	-1.5	15	52	11	..	27	20	111
Stratford Dem Farm 09/1983	311	13.8	6.5	10.2	+1.1	18.9	30	0.1	16	255	20	+72	40	7	123
Patea 09/1983	43	15.3	9.3	12.3	+1.0	19.0	10	3.0	16	113	14	+37	17	21	..
Franz Josef 09/1983	122	13.4	4.6	9.0	+0.0	18.5	26	-1.0	15	636	23	+197	95	23	..
Puyssegur Point 09/1983	43	11.4	6.3	8.9	..	16.5	29	3.5	15	170	24	-21	29	20	..
Waihopai Power Stn 09/1983	262	14.6	..	..	..	23.5	30	..	..	109	15	+35	16	25	..
Kaikoura Flats 09/1983	24	14.6	5.1	9.9	..	23.0	21	0.3	1	80	11	..	26	30	..
Waiau 09/1983	137	15.5	3.6	9.6	..	23.2	30	-2.7	16	88	12	..	15	24	..
Ashley Forest 08/1983	107	12.5	3.1	7.8	+0.6	19.1	7	-0.5	27	30	7	-44	13	23	149
Ashley Forest 09/1983	107	14.4	5.0	9.7	+0.5	22.8	30	0.3	17	181	10	+128	54	10	136
Christchurch 08/1983	7	12.8	2.8	7.8	+0.5	21.3	7	-1.3	15	35	10	-18	22	24	..
Christchurch 09/1983	7	14.7	4.8	9.8	+0.0	24.6	21	-0.5	16	118	11	+72	32	25	..
Orari Estate 09/1983	81	14.1	3.1	8.6	-0.1	20.5	23	-1.6	1	147	11	+94	44	10	..
Temuka 09/1983	24	14.6	2.8	8.7	+0.0	21.0	23	-2.5	1	129	9	+83	36	25	..
Aviemore 09/1983	241	13.4	4.4	8.9	..	18.5	20	-1.2	4	82	16	+49	21	25	..
Knobs Flat 09/1983	360	..	..	..	..	..	..	..	..	324	15	+113	73	23	..
Windsor 09/1983	88	13.2	4.6	8.9	..	18.6	23	-1.5	4	70	12	..	15	25	..
Ranfurlly 04/1983	427	14.4	2.6	8.5	..	22.1	6	-4.2	10	91	10	..	34	26	142
Ranfurlly 05/1983	427	9.7	-0.1	4.8	..	16.7	9	-4.7	23	18	13	..	4	11	83
Taiaroa Head 09/1983	72	10.7	5.7	8.2	-0.2	18.1	23	2.9	25	69	15	+31	23	21	..
Ophir 07/1983	305	5.6	-3.0	1.3	-0.4	15.0	30	-7.4	5	49	8	+31	23	9	..
Ophir 08/1983	305	10.6	-1.8	4.4	+0.1	14.8	19	..	..	23	5	+3	12	21	..
Ophir 09/1983	305	13.2	2.2	7.7	+0.2	18.0	28	-5.2	13	49	14	+21	12	19	..
Moa Creek 09/1983	427	..	..	..	..	..	..	..	..	37	12	+14	15	21	..
Deep Stream 09/1983	396	10.7	1.7	6.2	..	17.8	29	-3.6	1	74	16	..	19	2	..
Finegand Balclutha 09/1983	6	13.3	2.4	7.9	-0.3	20.0	29	-3.5	7	58	12	..	11	2	..
Rarotonga Airport 09/1983	7	25.9	20.3	23.1	+1.0	27.2	18	16.5	3	72	9	-37	28	29	203
Raoul Is 08/1983	38	18.1	13.3	15.7	-0.3	20.4	4	10.9	15	134	17	-3	50	26	148
Raoul Is 09/1983	38	19.3	13.9	16.6	+0.3	22.3	16	10.5	21	95	16	-22	41	23	155

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 NEW ZEALAND WEATHER IN OCTOBER 1983

General—October was a mild and cloudy month, with more rain than usual in most places. Rainfalls in Hawkes Bay were about twice the October average, alleviating the drought which had affected the area for many months.

The high rainfalls and very cloudy conditions recorded in eastern areas were the result of an unusually high frequency of winds from the easterly quarter. Strong north-easterlies were especially common in the north, while north-westerlies were less frequent than usual over whole country. Invercargill recorded its lowest frequency of strong winds in October since 1958. Because of the lack of strong winds in the south the Penrod 78 drilling rig was able to drill its first well in the Great South Basin without interruption by weather and sea conditions.

Heavy rain over the northern half of the South Island on the 21st gave the Nelson-Marlborough area its second major flood this year, and also led to flooding on the West Coast. Many areas were isolated by slips and floodwaters, and some homes had to be evacuated. Thousands of hectares of farmland were flooded.

While some parts of the country, notably Wellington and Dunedin, enjoyed their warmest Labour Day in many years, Auckland and the Bay of Plenty were battered by strong winds and heavy rain.

Farmers throughout the country reported very good pasture and crop growth, but wet conditions in many areas have made the use of agricultural machinery difficult.

Rainfall—Although the Manawatu region received only about 75 percent of its usual October rainfall, most of the North Island experienced a very wet month. The Bay of Plenty received 2 to 3 times its usual October rainfall, with Rotorua recording 346 mm—its highest total for any month since recordings began in 1962. Similarly Kawerau recorded its highest ever October rainfall. Rainfalls were also well above average in Hawkes Bay; Napier recorded its highest October total (130 mm) since 1971.

Fiordland and coastal Southland recorded below average rainfalls, while parts of Canterbury and coastal Marlborough received only about half their usual October rain. Rainfalls over the remainder of the South Island ranged from about average to one and a half times the October average.

Temperature—Night-time temperatures throughout New Zealand were above average during October, with some inland parts of the North Island recording mean daily minimum temperatures some 2.5°C above average.

Daytime temperatures were also above average in western parts of both islands, but in the east the mean daily maximum temperatures were cooler than usual. Parts of South Canterbury and Otago recorded daytime temperatures about 1.5°C cooler than usual, while some areas in Westland experienced temperatures up to 1.5°C above average.

Temperatures varied greatly throughout the month. A cold spell occurred between the 10th and the 18th, and mean temperatures between 5°C and 6°C below average were recorded in many places.

Between the 24th and 30th above average temperatures were recorded over most of the country. The North Island experienced mean temperatures 5°C to 6°C above average during this period and on Labour Day, Wellington recorded its highest October maximum temperature (20.7°C) since 1962.

Sunshine—October was a very cloudy month, especially in eastern areas. Gisborne and Paraparaumu recorded their lowest ever October sunshine totals, while Blenheim and Wellington recorded their lowest October totals since 1947 and 1951 respectively.

Many western areas however were only slightly cloudier than usual, and parts of Westland and Southland recorded sunshine totals that were about average for October.

THE WEATHER SEQUENCE—OCTOBER 1983

1-7 October

A cold front, which had moved over most of the South Island on the 30 September, crossed the North Island on 1 October, followed by a brief cool southerly which gave a few showers to eastern and southern areas. The flow over New Zealand rapidly turned westerly again on the 2nd as another cold front advanced across the Tasman Sea. This front crossed the South Island on the 3rd, giving rain in western areas.

Another southerly change, with showers, spread up the east coast behind the front. On the 4th the front moved slowly north-east onto the North Island, becoming stationary over the Waikato and Bay of Plenty areas during the 5th, before weakening on the 6th. The front brought widespread rain to the North Island during the 4th and 5th breaking the prolonged drought in the Gisborne and Hawkes Bay area.

During the same period an anticyclone spread over the South Island, bringing fine but cold weather. A deep low which had formed on the front in the mid Tasman Sea moved slowly south-east during the 5th, 6th and 7th. Warm moist northerlies ahead of the low gave rain in the west of both islands during the latter part of the 6th and during the 7th, with some heavy falls occurring on the West Coast.

8-14 September

The low moved south-eastwards across the south of the South Island on the 8th, giving further heavy rain to western South Island areas, while warm northerlies brought rain to many parts of the North Island and especially the Bay of Plenty. Cool south-westerlies spread over the country during the 9th, with a few showers in western areas. Disturbances in the south-westerlies gave a period of more widespread showers on the 11th.

During the 12th a low formed east of the North Island and the flow over northern and central parts of the country turned south-easterly as a large anticyclone spread onto the South Island. Cold south-easterlies brought showers to eastern North Island and north-eastern South Island areas during the 12th, 13th and 14th, while remaining parts of the country remained fine.

15-21 October

During the 15th the anticyclone moved onto central New Zealand and the weather over most of the country became fine, but cool, for the next few days. However, south-easterlies continued to bring a few showers to eastern areas at times. During the 19th the anticyclone moved off to the north-east of the North Island and a front passed quickly south-east across the South Island, bringing rain to western areas south of about Taranaki.

A strong, warm north-westerly flow behind this front gave further showers to western areas on the 20th. Rain became widespread over the north and west of the South Island late in the day, with some very heavy falls occurring as a complex frontal system moved onto the South Island. The rain became general over much of New Zealand as the front moved eastwards during the 21st.

22-31 October

The front became almost stationary over the North Island on the 22nd and continued to give rain to the northern half of the North Island through until the 29th before finally moving off to the east. An anticyclone moved quickly east across the South Island on the 23rd, giving mainly fine weather. However a low which had formed on the front, west of the North Island, moved south-east across the South Island during the 24th and 25th bringing some rain to most places.

Another depression moved across the South Island on the 26th, with further rain, followed by a clearance as an anticyclone spread across the island during the latter part of the day. This anticyclone continued to bring fine, warm weather to the South Island during the 28th and much of the 29th. Another low moved quickly, east, across the South Tasman Sea and southern New Zealand on the 30th bringing rain to much of the South Island, while its associated cold front gave rain to most North Island areas. Early on the 31st the low lay east of central New Zealand and a cool south-westerly flow was giving showers in many parts of the country.

J. S. HICKMAN, Director.

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

