



LAND & SURVEY OFFICE
3 - JAN 1986
GIBSON

SUPPLEMENT

TO THE

NEW ZEALAND GAZETTE

OF

THURSDAY, 12 DECEMBER 1985

Published by Authority

WELLINGTON: WEDNESDAY, 18 DECEMBER 1985

CLIMATOLOGICAL TABLE FOR OCTOBER 1985

NEW ZEALAND METEOROLOGICAL SERVICE

CLIMATOLOGICAL TABLE—Summary of the Records of Temperature, Rainfall, and Sunshine for October 1985

Station	Height of Station Above M.S.L.	Air Temperature in Degrees Celsius								Rainfall in Millimetres				Bright Sun-shine 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.			Maxi-mum	Date	Mini-mum	Date				Amount		Date
Metres	°C	°C	°C	°C	°C	°C	°C	mm	mm	mm	mm	mm	mm		
Cape Reinga	191	..	..	..	..	..	..	..	..	..	..	..	..	..
Kaitaia Airport	80	..	..	..	..	..	..	..	..	..	..	..	..	..
Aupouri Forest	69	18.4	11.2	14.8	+0.1	23.2	14	7.9	27	45	13	-63	13	24	
Kaitaia	8	19.4	9.1	14.3	..	21.9	25	4.9	4	56	11	..	18	24	
Kaitaia	85	18.5	10.2	14.4	..	20.7	25	5.4	4	63	14	..	19	20	
Kerikeri M A F	79	19.1	8.9	14.0	..	22.8	7	4.0	27	213	22	..	53	16	
Kerikeri Downs	74	18.0	8.4	13.2	..	21.8	7	4.2	27	168	20	..	56	16	
Kerikeri Downs 2	74	18.5	9.0	13.8	..	21.9	7	5.1	22	149	21	..	47	16	
Kerikeri Aerodrome	150	18.4	9.0	13.7	..	23.0	7	5.4	27	149	15	..	37	16	
Umawera	9	..	..	..	..	..	..	..	..	..	..	..	..	..
Panguru	9	..	..	..	..	..	..	..	..	..	..	..	..	..
Kaikohe	204	17.0	9.2	13.1	-0.5	21.0	7	4.6	27	100	14	-25	23	16	
Waiootemarama	229	16.3	8.2	12.3	-0.9	19.9	20	5.9	27	69	14	..	19	25	
Waipoua Forest	88	17.8	8.7	13.3	-0.2	21.5	20	4.0	29	70	14	-79	18	12	
Dargaville	20	18.0	9.2	13.6	-0.3	21.0	25	3.2	29	69	13	-34	13	20	
Waitangi Forest	55	18.7	9.8	14.3	-0.5	22.8	7	5.5	27	159	14	+51	40	16	
Glenbervie Forest	107	18.0	6.6	12.3	-0.7	22.1	13	0.9	29	150	14	-6	46	16	
Whangarei Airport	37	18.3	9.6	14.0	-0.6	22.7	13	6.0	29	106	14	-14	37	18	
Whangarei	29	18.6	9.0	13.8	-0.6	22.6	13	2.6	30	107	12	..	37	18	
Marsden Power Stn	3	18.6	9.7	14.2	-0.6	22.7	23	6.3	29	76	16	-28	29	18	
Poua	97	..	..	..	..	..	..	..	..	..	..	..	..	..
Leigh	27	17.1	11.3	14.2	-0.2	20.3	13	6.4	27	61	13	-33	21	16	
Warkworth	72	17.3	8.1	12.7	-0.9	20.2	12	4.0	4	87	18	-25	16	16	
Oyster Point	0	..	..	..	..	..	..	..	..	..	..	..	..	..
Woodhill Forest	30	17.2	9.1	13.2	-0.5	20.4	21	3.6	29	52	13	-45	10	22	
Riverhead Forest	28	17.7	8.0	12.9	-0.6	21.5	30	2.9	29	53	13	-55	10	13	
Kumeu	32	17.7	7.8	12.8	-0.5	21.6	30	2.0	28	51	15	..	12	13	
Whenuapai	26	17.6	8.2	12.9	-0.7	21.1	30	2.2	28	49	13	-54	10	13	
Albert Park Auckland	49	17.8	10.6	14.2	-0.6	20.8	13	6.9	27	54	13	-43	16	20	
Owairaka, Auckland	41	17.4	9.1	13.3	-0.7	20.7	30	5.7	29	69	11	-32	35	22	
Port Fitzroy	4	17.6	9.5	13.6	-0.9	20.7	13	4.8	28	120	17	-12	24	18	
Little Barrier Is	2	..	..	..	..	..	..	..	..	..	..	..	..	..
Rotorua Is	30	16.3	11.1	13.7	..	19.5	13	6.9	27	60	10	..	17	16	
Awaroa Valley	30	17.4	8.7	13.1	..	20.9	13	3.2	28	86	11	..	25	16	
Manukau Heads	244	16.4	9.6	13.0	..	20.1	22	5.1	27	35	12	-38	7	20	
Coromandel	43	18.1	8.6	13.4	..	21.2	13	2.3	28	87	15	..	19	13	
Whangapoua Forest	4	..	..	..	..	..	..	..	..	..	..	..	..	..
Thames	3	18.0	9.8	13.9	-0.8	22.1	21	3.5	27	56	14	-36	25	25	
Tairua Forest	3	17.9	7.9	12.9	-1.0	21.9	23	2.4	28	76	13	-55	21	25	
Ngatea	1	18.7	..	..	..	23.0	30	..	..	81	10	..	23	25
Paeroa	4	19.1	7.0	13.1	-0.6	26.0	20	1.5	27	50	11	-60	22	25	
Waihi	91	..	..	..	..	..	..	..	..	..	..	..	..	..
Te Aroha	18	18.9	8.0	13.5	-0.9	22.6	30	2.8	28	51	10	-75	14	25	
Katikati	2	18.2	7.7	13.0	..	24.4	13	3.4	28	63	13	..	25	25	
Waharoa	60	18.4	6.1	12.3	..	22.4	30	0.6	28	54	10	..	18	25	
Tauranga	2	17.4	9.3	13.4	-0.7	22.9	7	5.0	27	64	12	-42	27	25	
Tauranga Airport	4	17.4	7.8	12.6	-1.0	22.2	7	3.9	27	56	11	-50	25	25	
Te Puke	91	17.9	7.0	12.5	-0.8	24.6	7	3.0	2	98	13	-47	45	25	
Rotochu Forest	72	18.4	5.3	11.9	-0.7	28.0	7	0.8	28	91	10	-43	37	25	
Whakatane Airport	6	17.9	6.2	12.0	-1.0	26.4	7	0.9	18	60	12	-38	25	25	
Te Kaha	6	17.6	8.9	13.3	..	20.1	8	4.3	17	71	10	..	21	25	
Port Ohope	9	17.8	9.0	13.4	-0.5	21.9	8	4.0	18	98	11	..	55	25	
Kinleith	383	16.3	5.8	11.1	-0.4	22.0	7	0.6	27	69	11	-71	40	25	
Tikitere	338	15.9	6.6	11.3	-0.6	20.6	7	1.1	27	91	10	..	29	21	
Kawerau	30	..	..	..	..	..	..	..	..	..	..	..	..	..
Te Teko	8	20.5	7.5	14.0	+0.4	27.6	7	2.0	18	86	11	-35	32	25	
Rotorua Airport	287	16.7	6.2	11.5	-0.6	23.1	7	1.5	27	82	11	-34	33	25	
Waioapu Forest	435	16.1	4.0	10.1	-1.1	22.5	7	-5.5	20	69	9	-44	30	25	
Atiamuri Power Stn	253	18.1	5.2	11.7	-0.3	24.0	7	0.4	28	67	10	-53	35	25	
Kaingarua Forest	544	15.4	3.9	9.7	-1.0	21.9	7	-2.2	18	69	9	-55	27	25	
Murupara	198	18.5	5.4	12.0	-0.6	25.7	7	-1.0	18	53	12	-50	16	21	
Ohaaki	350	..	4.7	..	..	..	..	-0.1	12	45	13	..	18	23
Wairapukao Forest	437	17.0	2.1	9.6	-1.1	24.7	7	-4.8	18	64	13	-50	17	23	
Taupo	376	16.8	3.6	10.2	-1.3	21.8	30	-0.5	6	53	14	-46	19	25	
Wairakei Power Stn	342	17.4	5.0	11.2	-0.6	23.2	30	-1.0	17	54	12	-49	17	23	
Wairakei Research Stn	402	..	..	..	..	..	..	..	..	..	..	..	..	..
Minginui Forest	366	17.3	3.6	10.5	-0.7	25.0	7	-3.0	18	85	12	-43	30	23	
Taupo Airport	400	16.0	4.2	10.1	-1.1	21.7	30	-3.1	17	50	10	-53	20	25	
Waimihia Forest	743	13.4	2.6	8.0	-0.9	20.5	30	-1.6	18	72	11	-74	32	23	
Opotiki	6	17.3	8.3	12.8	-0.6	21.0	8	2.1	18	56	12	-57	27	25	
Waimana	37	18.7	6.4	12.6	-0.7	26.9	7	-0.2	18	94	10	-49	33	25	
Mangere Auckland	4	17.5	9.6	13.6	-0.6	21.2	30	3.9	28	58	14	-33	22	22	
Otara Auckland	12	17.5	8.3	12.9	-0.7	21.2	30	4.0	28	51	14	40	9	20	
Auckland Airport	8	17.2	9.8	13.5	-0.7	20.9	30	5.6	27	56	15	-30	13	22	
Ardmore	30	17.5	7.3	12.4	-1.0	21.3	30	2.7	28	43	12	-61	8	25	

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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.			Maxi- mum	Date	Mini- mum	Date				Amount	Date	
Metres	°C	°C	°C	°C	°C	°C	°C	°C	mm	mm	mm	mm	mm		
Pukekohe	82	17.1	7.7	12.4	-0.8	21.8	30	4.7	6	52	14	..	12	25	164
Maioro Forest	52	17.3	8.8	13.1	-0.6	20.8	31	3.4	18	37	9	-64	9	25	..
Hunua	122	17.0	6.4	11.7	..	21.1	30	1.4	18	61	13	..	18	25	..
Maramarua Forest	38	17.8	6.1	12.0	-1.0	22.2	30	0.5	28	50	16	-52	19	25	..
Te Kauwhata	32	18.1	7.1	12.6	-1.2	22.8	30	1.4	28	32	15	-62	13	25	191
Huntly	34	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Ruakura Hamilton	40	17.9	6.4	12.2	-0.7	21.5	30	0.9	28	41	13	-56	20	25	214
Whatawhata	104	17.4	7.7	12.6	-0.4	21.5	30	3.5	4	70	13	-68	29	25	191
Hamilton Airport	50	18.1	5.2	11.7	-0.8	22.2	30	0.2	5	54	9	-47	24	25	..
Cambridge	76	18.3	6.5	12.4	-0.3	22.1	30	2.0	27	45	11	-44	17	25	..
Mohakatino Stn Mokau	46	16.4	9.1	12.8	-0.4	19.3	20	3.4	27	87	10	-43	32	23	..
Arapuni Power Stn	123	17.9	6.7	12.3	-0.8	22.9	30	2.0	28	63	12	-60	25	25	..
Waikeria	46	18.3	5.8	12.1	-0.5	22.1	30	0.7	28	53	10	..	30	25	..
Te Kuiti	61	18.2	7.0	12.6	-0.3	22.7	30	2.6	28	114	17	-14	41	25	174
Wairere	156	17.1	6.5	11.8	..	22.3	30	1.5	1	122	12	-3	55	23	..
Pureora Forest	549	14.6	4.2	9.4	-0.7	20.3	30	-1.8	28	111	19	-51	46	23	..
Mangakahu Valley	397	16.0	5.9	11.0	..	21.0	30	0.6	28	82	12	..	31	23	..
Taumarunui	171	18.1	5.7	11.9	-1.0	24.5	30	1.0	19	89	15	-38	34	23	182
Tokirima	152	18.1	4.9	11.5	..	23.8	30	0.3	19	101	14	..	26	23	..
Omata	61	16.8	8.9	12.9	-0.2	20.7	24	2.8	26	107	14	-16	22	25	..
New Plymouth	55	17.4	7.9	12.7	-0.2	20.8	29	3.2	9	113	15	-29	25	25	..
New Plymouth Airport	27	16.2	8.2	12.2	-0.3	18.7	20	3.3	9	93	13	-28	33	25	228
North Egmont	955	11.4	3.2	7.3	..	16.6	7	-1.5	27	331	16	..	75	23	..
Te Wera Forest	180	16.5	4.6	10.6	-1.0	21.5	30	0.0	19	95	10	-59	33	23	..
Lower Retaruke	223	17.5	5.1	11.3	-0.8	24.2	30	-0.2	19	80	..	-51	25	25	..
Turangi	366	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Chateau, Mt Ruapehu	1097	11.4	0.8	6.1	..	18.6	30	-3.2	27	207	15	..	63	4	..
Hukanui	235	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Mt Bruce Res	305	15.6	4.4	10.0	-0.5	24.0	31	0.2	20	135	15	-94	34	25	..
Waingawa Masterton	114	16.7	5.1	10.9	-1.0	23.2	31	0.6	12	78	21	+2	18	25	191
Kopua	311	15.2	5.2	10.2	-1.1	20.3	7	-0.2	19	85	16	+1	42	25	..
Waipukurau	137	16.4	4.7	10.6	-1.3	22.1	13	0.3	19	63	13	+2	24	25	195*
Dannevirke	207	16.3	5.6	11.0	-0.9	21.1	20	0.1	19	73	15	-21	36	25	..
Porangahau	8	16.9	6.5	11.7	..	22.8	13	1.9	15	90	15	..	24	26	..
Castlepoint	3	16.0	8.8	12.4	-0.9	21.9	7	5.1	27	62	17	-5	15	25	..
Ngaumu Forest	244	16.2	4.4	10.3	-0.7	23.0	31	-0.5	1	76	16	-5	15	25	..
Tauherenikau	43	16.9	6.1	11.5	-0.7	23.4	6	1.2	2	70	14	-26	18	25	..
Waorongomai	21	15.8	7.1	11.5	-0.4	22.2	7	2.0	12	92	16	-36	19	25	..
Cape Palliser	10	15.7	8.7	12.2	-1.4	21.0	6	5.3	1	52	13	-20	16	13	..
Ruatoria	61	17.6	7.6	12.6	-1.2	23.5	7	4.6	6	58	13	-66	18	21	..
Mangatu Forest	182	17.6	6.5	12.1	-0.8	25.4	31	1.5	17	109	18	+21	23	25	..
Manutuke Gisborne	9	17.6	6.7	12.2	-1.3	22.2	13	3.5	6	49	13	-14	16	26	..
Gisborne Airport	4	17.6	6.8	12.2	-1.4	22.7	31	2.8	15	42	12	-26	7	26	211
Onepoto, Waikaremoana	643	14.0	4.8	9.4	-1.4	21.4	31	-0.2	27	102	19	-45	19	25	..
Wharerata Forest	439	13.6	5.7	9.7	..	20.5	7	-1.0	27	137	15	..	36	26	..
Esk Forest	427	15.3	5.7	10.5	-1.1	22.6	7	1.2	17	79	13	-45	23	25	..
Ngamatea	885	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Kaweka Forest	414	15.7	6.1	10.9	-1.1	22.4	7	1.8	27	69	15	-32	19	25	..
Napier Airport	2	16.9	6.3	11.6	-1.6	23.9	13	2.1	20	37	11	-27	11	4	..
Napier	2	17.7	7.3	12.5	-1.4	23.3	13	3.5	15	42	13	-19	13	4	205
Hastings	16	18.1	6.3	12.2	..	24.5	13	2.4	15	37	7	..	15	25	..
Whakatu	6	16.9	5.8	11.4	..	24.2	13	1.3	15	47	11	..	15	25	..
Gwavas Forest	335	15.5	3.3	9.4	-1.4	21.2	7	-0.6	19	90	16	-2	30	25	..
Makaretu	335	16.0	4.1	10.1	-1.4	21.1	7	-0.2	19	84	16	+0	28	25	..
Mohaka Forest	286	16.2	6.1	11.2	-1.1	20.8	22	2.2	17	75	14	-35	22	25	..
Frasertown, Wairoa	8	17.0	7.4	12.2	-1.6	22.6	22	4.7	3	93	17	-9	26	25	..
Wairoa	20	16.9	7.6	12.3	-1.4	23.0	13	3.8	27	88	14	-14	25	4	213
Kapiti Is	16	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Paraparaumu Airport	7	15.7	7.5	11.6	-0.8	19.4	21	1.8	27	61	12	-32	13	23	208
Flockhouse Bulls	9	16.2	5.6	10.9	-1.5	21.0	13	-1.3	18	48	12	-28	20	25	..
Ohakea	48	16.6	7.1	11.9	-0.8	20.9	13	1.4	18	36	10	-44	15	25	217
Wharite Peak	914	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Kairanga Palmerston N	15	16.8	5.5	11.2	-1.2	20.6	13	0.2	27	32	10	-47	9	25	..
Palmerston N Airport	45	16.9	6.0	11.5	-0.7	21.4	30	-0.8	27	44	13	-36	11	13	..
Palmerston N D S I R	34	16.7	6.8	11.8	-0.8	20.9	20	0.5	27	57	13	-30	14	23	161
Tiritea	100	15.7	6.8	11.3	..	20.0	13	-0.5	27	75	..	..	18	25	..
Waitarere Forest	3	16.3	5.7	11.0	-1.5	21.7	21	-3.0	18	42	11	-31	10	25	..
Levin	46	16.1	7.0	11.6	-0.8	21.4	21	2.1	18	72	14	-23	14	3	188
Titahi Bay	31	15.9	8.2	12.1	..	21.9	21	3.0	20	70	9	..	19	21	..
Avalon, Lower Hutt	15	16.3	7.4	11.9	-0.6	21.0	7	3.1	29	91	12	-20	23	23	..
Highland Pk Wgtn	120	14.9	7.3	11.1	..	20.6	7	3.9	27	96	13	..	24	23	..
Kelburn, Wellington	125	14.7	8.4	11.6	-0.5	20.2	7	3.5	26	97	15	-4	27	23	221
Somes Is	43	14.7	8.9	11.8	-0.4	19.0	7	4.5	27	72	11	-9	17	23	..
Gracefield Lower Hutt	34	15.2	8.3	11.8	-0.7	20.2	7	4.2	29	80	10	-24	18	21	..
Wainuiomata	82	15.3	6.7	11.0	-0.8	20.0	7	1.3	29	112	14	-14	21	25	..

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Metres	°C	°C	°C	°C	°C	°C	°C	mm	mm	mm	mm	Hrs			
Wellington Airport	6	15.5	9.1	12.3	-0.5	19.9	7	3.7	1	66	13	-20	21	23	..
Rimutaka Forest	37	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Kaitoke	223	15.0	4.9	10.0	-0.8	20.7	7	-3.0	12	159	17	-23	34	26	178
Wallaceville	56	16.2	6.2	11.2	-0.5	21.0	21	-0.2	12	99	17	-9	29	26	199
Cape Egmont	8	16.7	8.2	12.5	-0.6	19.1	30	1.6	19	61	12	-58	13	25	..
Stratford Mtn House	846	11.7	2.2	7.0	-0.9	18.5	7	-1.0	2	344	11	-235	81	23	..
Stratford Dem Farm	311	15.1	5.1	10.1	-0.7	19.4	7	1.4	17	115	9	-70	26	25	201
Kapuni	173	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Maniaia Dem Farm	98	15.3	6.6	11.0	-1.0	19.9	21	0.4	17	54	14	-30	17	25	209
Normanby	122	15.3	6.0	10.7	-0.9	18.8	20	-0.8	18	62	16	..	15	4	..
Patea	43	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Moumahaki Exp Farm	87	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Pipiriki	80	17.9	6.5	12.2	..	24.1	30	1.3	27	88	12	..	19	26	..
Ohakune Junction	629	14.4	3.5	9.0	-0.7	19.8	30	-1.5	17	97	12	-48	37	25	..
Karioi	648	13.7	2.7	8.2	-1.6	19.0	30	-2.1	17	83	12	-19	29	25	..
Waiouru	823	13.0	2.5	7.8	-0.7	18.6	30	-4.1	17	71	13	-14	26	25	..
Waiouru Military Camp	823	12.3	1.7	7.0	-1.1	18.5	30	-4.2	17	63	12	-34	28	25	..
Ahu Ahu Valley	85	17.9	5.7	11.8	..	22.5	7	1.5	20	103	15	..	28	25	..
Taihape	433	16.0	3.9	10.0	-1.1	21.1	20	-2.5	17	60	15	-28	24	25	..
Kahui, Taihape	518	14.8	4.4	9.6	-1.2	19.8	20	-1.7	17	51	9	-27	25	25	..
Wanganui	22	16.5	8.3	12.4	-0.8	21.5	13	3.3	19	67	12	-8	35	25	210
Wanganui Airport	9	16.4	7.6	12.0	..	21.0	13	2.6	19	57	10	-14	31	25	..
Totaranui	10	16.2	6.9	11.6	..	22.0	7	2.6	27	80	9	-106	31	21	..
Westport Airport	2	15.7	7.0	11.4	-0.3	21.2	21	3.0	27	82	14	-105	21	23	234
Cobb Dam	823	12.8	2.3	7.6	-0.4	20.3	6	-1.8	17	149	14	-61	42	21	..
Arapito	20	16.8	6.5	11.7	..	23.9	21	2.4	27	103	11	..	23	13	213
Lake Rotoroa	443	15.9	3.1	9.5	..	22.6	30	-2.9	17	94	14	..	21	21	..
Lake Rotoiti	634	15.2	1.9	8.6	-0.3	23.5	30	-2.9	17	75	14	-79	17	23	..
Hokitika Airport	39	15.5	6.2	10.9	-0.3	24.0	21	1.5	17	109	17	-160	29	23	229
Punakaiki	4	16.6	8.9	12.8	..	24.5	21	6.0	27	80	14	..	19	3	..
Reefton	198	17.4	4.5	11.0	-0.3	23.9	30	-1.4	17	73	18	-106	15	23	..
Barrytown	30	15.8	8.5	12.2	..	21.6	21	5.5	18	80	16	-142	23	12	..
Totara Flat	77	17.7	4.0	10.9	-0.5	22.7	21	-2.1	17	38	12	-133	9	13	..
Greymouth	4	15.3	7.0	11.2	-0.5	21.1	21	2.5	27	80	17	-141	21	12	218
Otira Substation	383	14.8	4.4	9.6	+0.0	22.6	29	1.0	14	122	18	-373	28	12	..
Springs Junction	421	15.6	3.3	9.5	-0.3	24.0	29	-2.2	19	65	14	-137	20	13	..
Pukekura	86	15.8	4.2	10.0	..	23.4	21	-0.5	27	156	15	..	49	12	..
Hari Hari	45	16.5	5.1	10.8	+0.0	23.2	21	0.0	17	166	15	-191	42	12	..
Okarito	10	16.2	7.1	11.7	..	23.1	21	2.3	27	144	13	..	47	12	..
Franz Josef	155	15.5	6.2	10.9	..	23.8	21	1.9	27	188	17	..	43	12	127
Fox Glacier	152	15.5	5.6	10.6	+0.4	23.6	21	2.5	27	158	18	-263	28	12	..
Milford Sound	3	15.9	4.5	10.2	+0.0	20.4	27	1.0	1	160	16	-400	40	2	..
Deep Cove	30	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Puyssegur Point	43	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Stephens Is	187	13.7	8.8	11.3	+0.2	18.4	7	5.0	27	34	7	-39	11	25	..
Riwaka Motueka	8	17.1	5.8	11.5	-0.7	24.0	7	1.7	17	116	12	-6	32	21	224
Tapawera	146	17.4	4.3	10.9	..	22.7	7	-0.5	17	97	10	..	27	23	..
Crail Bay Pelorus Sd	13	15.8	8.4	12.1	..	21.1	7	3.5	27	66	14	..	32	23	..
Appleby	17	16.5	7.1	11.8	-0.5	23.1	7	1.6	17	113	10	+27	43	23	..
Nelson Airport	2	16.2	6.4	11.3	-0.7	22.4	7	0.5	17	54	11	-31	25	23	235
Rai Valley	79	16.8	5.6	11.2	-0.6	23.3	7	-1.2	27	119	10	-62	66	23	..
Moutere Hills	110	16.2	7.9	12.1	-0.2	21.9	7	2.6	27	87	11	-13	37	23	..
Blenheim Research	4	16.8	6.0	11.4	..	21.7	31	0.7	17	37	9	..	20	23	224
Wairau Valley	162	16.5	4.5	10.5	..	22.3	31	-3.0	17	69	7	..	36	23	..
Blenheim Airport	27	17.0	5.4	11.2	-1.1	25.2	3	-2.0	17	45	9	-19	28	23	..
Brancott Valley	64	17.2	5.4	11.3	..	22.8	31	-1.3	18	49	8	..	27	23	..
Wither Hills Blenheim	32	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Waihopai Power Stn	262	16.2	5.2	10.7	-1.0	23.5	31	-1.5	17	61	10	-22	27	23	..
Duntroon	350	16.1	4.4	10.3	..	23.7	31	-2.0	17	51	14	-26	21	23	..
Lake Grassmere	2	15.5	8.3	11.9	-0.7	20.8	12	1.3	13	50	7	+5	28	26	210
Cape Campbell	3	14.5	9.0	11.8	-0.3	17.4	13	4.0	26	54	11	+4	17	26	..
Boyle River Lodge	600	15.8	2.1	9.0	..	23.8	30	-3.9	18	37	..	..	..	..	..
Hanmer Forest	387	15.5	2.6	9.1	-1.4	24.0	31	-1.5	16	74	13	-28	13	23	174
Molesworth	893	13.7	0.8	7.3	-1.0	22.1	6	-3.5	20	42	7	-17	17	26	..
Kaikoura Flats	24	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Kaikoura	108	13.8	7.3	10.6	-1.0	22.6	6	2.0	27	41	12	-21	11	26	200
Arthurs Pass	738	12.4	2.3	7.4	..	20.5	29	-4.0	27	105	16	-287	36	12	..
Culverden	174	16.5	3.7	10.1	..	24.6	31	-2.0	20	35	7	..	9	25	..
Balmoral Forest	198	16.4	3.2	9.8	-1.2	24.5	31	-3.0	21	42	15	-7	8	25	..
Waiau	137	17.1	4.4	10.8	..	27.1	31	-1.3	19	63	11	..	17	25	..
Cheviot	85	15.8	4.1	10.0	..	24.9	31	-2.5	19	33	13	..	13	25	201
The Hermitage Mt Cook	765	15.5	2.7	9.1	+0.2	23.8	29	-2.0	26	96	16	-266	28	12	195
Mt John	1027	12.6	2.5	7.6	-0.3	20.0	30	-4.8	26	21	6	-26	10	13	..
Craigieburn Forest	914	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Lake Coleridge	364	15.3	4.5	9.9	-0.8	24.5	6	-0.4	19	32	11	-48	14	13	..

CLIMATOLOGICAL TABLE—Summary of the Records of Temperature, Rainfall, and Sunshine for October 1985—continued

Station	Height of Station Above M.S.L.	Air Temperature in Degrees Celsius								Rainfall in Millimetres				Bright Sun-shine	
		Means of		Mean of A and B	Differ-ence From Normal	Absolute Maximum and Minimum				Total Fall	No. of Rain Days	Differ-ence From Normal	Maximum Fall		
		A Max.	B Min.			Maxi-mum	Date	Mini-mum	Date				Amount		Date
Metres	°C	°C	°C	°C	°C	°C	mm	mm	mm	Hrs					
Highbank Power Stn	336	13.9	4.2	9.1	-1.7	21.1	6	-1.0	17	80	15	-7	32	13	184
Hororata Substation	192	15.9	3.9	9.9	-1.1	24.7	31	-1.6	12	85	15	+17	28	25	177
Winchmore	160	14.9	4.9	9.9	-0.9	21.9	31	-1.3	11	51	8	-10	21	25	..
Peel Forest	274	14.7	3.1	8.9	-1.2	22.8	31	-1.6	11	72	20	-11	19	13	..
Ashburton	101	15.8	5.3	10.6	-1.4	24.5	12	-0.2	11	35	7	-25	18	25	162
Waipara	64	17.0	5.7	11.4	-0.7	26.2	31	-1.5	19	33	10	-20	7	26	..
Ashley Forest	107	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Rangiora	46	16.0	4.7	10.4	-1.0	25.6	31	-1.2	19	37	14	-14	8	13	..
Darfield	195	16.3	4.7	10.5	-1.0	24.0	31	-0.5	11	83	14	+14	24	25	..
Eyrewell Forest	158	15.8	4.0	9.9	-1.3	24.6	31	-1.7	2	62	11	-1	22	25	..
Christchurch Airport	30	16.0	5.2	10.6	-1.0	24.6	31	-0.4	12	30	9	-13	11	13	200
Templeton	46	15.5	4.7	10.1	-1.0	24.0	31	-0.5	1	22	6	..	10	25	..
Christchurch	7	15.9	6.3	11.1	-1.0	21.5	22	1.9	11	40	8	-5	15	13	..
Bromley Christchurch	9	14.9	7.4	11.2	-1.0	20.2	3	2.7	26	40	11	-4	11	26	..
Mt Pleasant	137	15.0	7.6	11.3	-0.7	20.8	3	2.5	26	51	10	+2	16	13	..
Lincoln	11	15.4	5.1	10.3	-1.0	24.3	31	-1.6	19	31	11	-15	9	13	197
Quail Island	75	14.5	7.7	11.1	..	20.1	31	3.8	28	43	..	..	16	13	..
Akaroa	3	16.9	5.6	11.3	-0.5	25.5	31	1.0	11	63	8	..	16	21	..
Lake Tekapo	683	14.3	2.2	8.3	-1.3	21.2	30	-3.0	17	23	7	-28	13	13	..
Fairlie	304	15.5	3.7	9.6	..	22.5	12	-1.9	2	25	4	..	15	13	..
Twizel	457	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Twizel Substation	451	16.6	3.0	9.8	..	24.4	30	-1.5	17	21	7	..	5	25	..
Ikawai	70	15.2	3.9	9.6	-1.0	21.0	6	-1.5	2	26	6	-19	12	21	..
Geraldine	119	15.5	5.0	10.3	-1.1	22.1	2	0.2	11	47	9	-20	17	3	..
Orari Estate	81	14.9	4.8	9.9	-1.0	21.3	2	0.3	2	44	10	-19	20	3	..
Temuka	24	14.7	4.9	9.8	-1.1	19.4	12	0.5	2	23	10	-32	10	13	..
Timaru Airport	26	14.6	4.4	9.5	-1.0	20.0	12	-0.1	19	20	8	-29	8	13	..
Adair	85	13.9	6.3	10.1	-0.9	19.4	6	2.4	26	20	13	-31	6	13	..
Timaru	17	14.4	6.2	10.3	-1.5	19.0	6	1.8	1	18	11	-31	8	13	..
Timaru 2	17	14.3	6.2	10.3	..	19.4	6	1.6	1	17	11	..	8	13	180
Waimate	61	15.2	..	..	..	21.2	31	..	..	30	9	-22	10	21	..
Aviemore	241	16.2	4.6	10.4	..	23.4	31	-2.1	11	24	7	-18	11	13	..
Kurov	207	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Oamaru Airport	30	13.8	5.0	9.4	-1.1	21.6	6	-0.6	17	24	10	-14	6	3	186
Knobs Flat	375	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Tara Hills Omarama	488	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Lake Hawea	350	16.3	4.4	10.4	-0.3	23.4	29	-0.2	11	19	5	-51	9	12	..
Wanaka	296	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Queensberry	277	17.4	4.3	10.9	..	24.1	30	-1.2	11	20	6	..	8	12	..
Bendigo	200	18.3	3.4	10.9	..	25.3	30	-2.8	11	18	7	..	7	23	..
Naseby	607	14.5	1.0	7.8	..	22.1	31	-4.1	17	30	14	..	12	23	..
Windsor	88	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Oamaru	5	14.0	5.8	9.9	..	20.0	2	-2.0	1	30	11	..	7	13	..
Ranfurly	427	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Herbert Forest	61	15.1	4.6	9.9	-0.3	19.4	9	-0.6	12	47	10	-6	11	21	..
Palmerston	21	15.0	4.2	9.6	-0.4	21.9	2	-1.9	17	45	9	-3	15	21	209
Cherry Farm Hospital	6	14.9	4.0	9.5	-0.8	19.3	28	-1.8	11	47	14	-4	15	21	..
Taiaroa Head	72	12.4	7.2	9.8	-0.5	16.5	12	2.2	26	45	13	-5	12	3	..
Invermay, Taieri	30	15.1	4.6	9.9	-0.7	23.5	12	-2.6	17	40	19	-14	12	12	216
Berwick Forest	18	15.8	4.6	10.2	-0.4	21.5	12	-1.6	17	42	12	-18	12	25	..
Dunedin Airport	1	15.7	3.3	9.5	-1.1	23.3	12	-3.6	17	36	13	-14	13	25	210
Musselburgh Dunedin	2	13.8	7.2	10.5	-0.6	18.5	12	3.0	26	63	15	+2	19	21	198
Te Anau	215	..	..	..	..	..	..	..	..	..	..	..	..	..	..
West Arm, Manapouri	232	14.0	5.0	9.5	+0.4	20.0	30	-0.5	11	138	14	-210	33	5	..
Borland Burn	183	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Queenstown	329	16.8	4.5	10.7	+0.0	22.8	6	0.4	11	23	8	-57	9	12	246
Queenstown Airport	349	15.8	2.8	9.3	-0.4	22.4	6	-2.2	12	21	7	-43	8	12	..
Gibbston	354	..	4.0	..	..	..	..	-0.8	11	20	8	..	9	12	..
Cromwell Sub Stn	213	18.4	3.9	11.2	..	26.2	30	-2.1	11	17	6	-1	10	12	..
Cromwell	213	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Northburn	210	18.4	4.1	11.3	..	25.5	30	-1.2	11	11	7	..	6	12	..
Cromwell 2	213	18.1	3.7	10.9	..	26.1	30	-1.8	11	15	5	..	7	12	278
Lauder	370	16.3	2.8	9.6	..	24.0	30	-3.7	11	30	10	..	9	13	..
Clyde Dam	160	18.2	4.5	11.4	..	25.6	6	-0.5	11	16	9	..	5	12	..
Ophir	305	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Clyde(Dsir)	171	18.1	3.7	10.9	..	25.5	6	-1.6	11	13	9	..	5	12	..
Alexandra	141	18.7	3.5	11.1	..	26.0	6	-1.0	17	14	5	..	7	12	257
Roxburgh Power Stn	110	17.5	4.0	10.8	-0.7	25.0	31	-1.0	2	24	11	-17	10	12	..
Etrick No 1	83	17.5	4.0	10.8	..	24.0	6	-0.5	11	63	11	..	22	31	..
Etrick No 2	91	17.1	3.3	10.2	..	23.3	6	-2.5	17	44	11	..	14	12	..
Deep Stream	396	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Beaumont	46	16.7	3.8	10.3	..	22.4	12	-1.7	17	52	17	-29	17	12	..
Mahinerangi Dam	396	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Tapanui	226	14.9	3.9	9.4	-0.9	20.7	6	-0.9	17	51	15	-24	13	12	..
Taieri Mouth	15	13.6	4.8	9.2	-0.9	17.8	7	-1.4	17	35	14	-25	7	25	..

CLIMATOLOGICAL TABLE—Summary of the Records of Temperature, Rainfall, and Sunshine for October 1985—continued

Station	Height of Station Above M.S.L.	Air Temperature in Degrees Celsius								Rainfall in Millimetres				Bright Sun-shine	
		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.			Max-imum	Date	Mini-um	Date				Amount		Date
Metres	°C	°C	°C	°C	°C	°C	°C	mm	mm	mm	Hrs				
Tuatapere	27	16.3	4.8	10.6	..	24.3	6	0.0	11	73	15	..	18	12	..
Otautau	55	15.4	4.2	9.8	-0.3	22.2	6	-1.6	17	65	12	-24	21	12	209
Winton	44	15.3	4.0	9.7	-0.6	22.3	6	-0.7	12	30	11	-36	6	9	206
Gore	123	14.7	5.1	9.9	-0.2	20.4	6	0.5	17	61	16	-17	16	12	209
Hokonui Forest	46	15.6	4.4	10.0	-0.6	21.7	6	-0.9	17	52	12	-29	19	12	..
Woodlands	47	15.1	4.6	9.9	-0.2	21.3	6	-1.7	17	58	18	-28	14	12	..
Invercargill Airport	0	14.8	4.9	9.9	-0.1	21.8	6	-0.6	4	67	15	-18	18	12	217
Tiwai Point, Bluff	5	14.1	6.6	10.4	+0.0	20.4	6	1.3	17	63	15	-27	20	5	..
Stewart Is	3	13.7	5.6	9.7	+0.3	19.1	6	0.3	17	100	22	-7	31	5	..
Milton	18	15.4	4.5	10.0	-0.4	22.8	12	-1.0	12	38	15	-20	10	25	..
Clinton School	120	14.5	4.7	9.6	..	20.0	12	-0.2	12	45	12	..	9	12	..
Finegand Balclutha	6	15.3	5.1	10.2	-0.3	19.6	2	0.0	12	26	11	-35	6	5	200
Owaka	5	14.2	4.5	9.4	-0.7	19.9	12	-2.1	17	50	13	-8	13	5	..
Nugget Point	129	12.7	5.9	9.3	-0.5	16.4	2	2.3	26	51	16	-16	14	5	..
Tautuku	40	13.8	5.4	9.6	-0.2	20.7	12	1.2	17	73	17	-21	16	5	..
Nadi Airport Fiji	15	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Rarotonga Airport	7	25.9	20.5	23.2	+0.1	27.7	28	16.6	9	55	15	-51	14	6	175
Totokoitu, Rarotonga	9	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Raoul Is	38	19.6	14.6	17.1	-0.5	22.0	21	12.0	10	80	10	-21	33	22	180
Campbell Is	15	9.4	4.2	6.8	+0.7	12.5	21	-1.6	6	95	21	-14	17	2	..
Waitangi, Chatham Is	44	13.0	7.5	10.3	+0.0	16.9	24	3.1	7	108	19	+49	28	26	116
Scott Base Antarctica	16	-16.7	-26.1	-21.4	+1.3	-6.3	29	-36.9	4	..	..	..	..	..	..
LATE RETURNS AND CORRECTIONS															
Waiotemarama 09/1985	229	15.2	9.3	12.3	+0.4	17.0	2	6.5	13	113	21	..	48	3	..
Rotorua Is 09/1985	30	15.4	11.2	13.3	..	18.4	27	8.9	7	58	14	..	23	3	..
Waihi 09/1985	91	15.9	8.7	12.3	+0.7	19.6	4	3.0	15	177	28	-19	55	26	114
Port Ohope 09/1985	9	16.6	8.8	12.7	+0.6	19.4	10	4.4	8	99	13	..	28	3	158
Murupara 09/1985	198	16.6	4.2	10.4	+0.3	23.1	25	-0.2	8	86	11	-25	40	3	..
Pukekohe 04/1985	82	19.2	10.8	15.0	-0.3	22.3	17	4.6	23	72	10	..	22	19	145
Pukekohe 05/1985	82	16.6	7.6	12.1	-0.6	19.8	10	3.8	19	141	6	..	91	22	180
Pukekohe 06/1985	82	15.8	8.0	11.9	+1.5	19.1	6	4.0	3	102	24	..	21	21	94
Pukekohe 07/1985	82	..	8.1	..	..	..	..	4.2	3	149	26	..	30	24	73
Pukekohe 08/1985	82	14.3	6.0	10.2	-0.2	17.1	8	1.2	16	111	18	..	32	10	152
Pukekohe 09/1985	82	16.3	8.9	12.6	+0.9	18.2	2	6.4	11	92	18	..	27	3	101
Huntly 09/1985	34	16.8	9.0	12.9	..	19.5	27	4.5	7	60	..	..	22	3	..
New Plymouth 08/1985	55	13.9	6.4	10.2	+0.1	16.1	27	3.1	14	158	17	+1	41	2	..
New Plymouth 09/1985	55	16.4	8.5	12.5	+1.0	19.2	26	5.2	20	101	15	-9	20	3	..
Chateau, Mt Ruapehu 09/1985	1097	9.1	0.9	5.0	..	12.4	15	-3.7	9	247	..	..	49	3	..
Ngamatea 08/1985	885	7.6	-0.8	3.4	..	11.9	25	-5.8	16	52	..	..	25	19	..
Ngamatea 09/1985	885	10.6	1.2	5.9	..	14.2	27	-3.2	7	45	12	..	19	3	..
Hastings 09/1985	16	16.8	6.2	11.5	..	21.8	10	0.2	14	14	12	..	3	6	..
Wairoa 09/1985	20	16.9	6.6	11.8	+0.1	21.9	27	2.4	8	26	7	-74	10	3	197
Mania Dem Farm 09/1985	98	15.2	6.7	11.0	+0.6	18.5	26	2.4	2	79	12	-20	19	3	174
Patea 03/1982	43	20.2	11.8	16.0	-0.7	24.5	9	5.5	17	80	9	+10	19	31	..
Arapito 07/1984	20	13.6	5.9	9.8	..	17.7	22	-1.4	16	239	16	..	42	31	87
Arapito 07/1985	20	13.9	4.6	9.3	..	17.7	13	-0.6	26	208	15	..	41	17	86
Deep Cove 09/1985	30	13.3	4.9	9.1	..	19.0	19	0.9	11	375	17	..	106	26	..
Wither Hills Blenheim 09/1985	32	15.7	5.2	10.5	+0.1	21.0	10	-1.0	7	63	6	+17	21	3	..
Kaikoura Flats 09/1985	24	15.2	3.6	9.4	..	21.1	9	0.4	12	35	..	..	17	10	..
Craigieburn Forest 09/1985	914	11.9	0.7	6.3	+0.7	16.3	18	-6.1	7	178	11	+37	51	26	..
Kurow 08/1985	207	12.2	1.6	6.9	..	16.6	18	-4.0	14	27	7	..	13	18	..
Tara Hills Omarama 09/1985	488	14.1	2.0	8.1	+0.9	18.1	24	-2.6	7	33	5	-9	12	26	197
Lake Hawea 07/1985	350	8.5	0.7	4.6	+0.9	13.4	4	-3.2	26	89	11	+32	34	31	..
Lake Hawea 08/1985	350	10.2	0.3	5.3	-0.2	14.5	8	-3.5	14	113	11	+48	63	18	..
Lake Hawea 09/1985	350	13.6	3.7	8.7	+0.4	18.9	21	-0.5	11	67	6	-7	24	3	..
Ranfurlly 07/1985	427	8.2	-1.8	3.2	+1.3	14.5	4	-7.5	26	26	8	+8	11	23	..
Berwick Forest 09/1985	18	15.8	3.6	9.7	+1.2	24.4	9	-2.1	11	34	13	-13	10	4	..
Borland Burn 08/1985	183	11.4	-0.5	5.5	+0.6	17.8	8	-6.1	14	87	15	+3	22	18	..
Borland Burn 09/1985	183	15.3	0.5	7.9	+0.9	19.5	19	-4.5	11	91	10	-21	20	4	..
Gore 09/1985	123	14.3	4.2	9.3	+1.2	20.2	24	-1.5	11	49	14	-14	10	10	178
Raoul Is 07/1985	38	19.1	14.0	16.6	+0.3	20.6	21	11.1	8	127	22	-50	46	25	126
Raoul Is 08/1985	38	18.8	13.1	16.0	-0.3	20.8	1	9.4	18	147	21	+9	41	7	184
Raoul Is 09/1985	38	18.7	13.5	16.1	-0.4	21.0	27	10.5	14	120	23	-3	34	19	140
Campbell Is 07/1985	15	7.5	3.4	5.5	+0.8	10.5	2	-2.7	8	147	28	+40	36	14	6
Campbell Is 08/1985	15	7.8	3.8	5.8	+0.6	13.5	9	-5.1	21	95	26	-10	19	23	13
Campbell Is 09/1985	15	8.8	3.9	6.4	+0.8	14.7	17	-1.2	9	116	23	+10	20	23	38

The "normal" refers to the present site of the instruments. Standard period for normals is 1951-1980. 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 1985

General—October was drier and sunnier than usual, with below average temperatures in most places.

South-westerlies prevailed over the whole country and strong winds were less frequent than usual.

A heavy thunderstorm with large hailstones, up to 10 mm in diameter occurred in Auckland City during the afternoon on the 22nd. Hail was also reported throughout eastern districts of both the North and South Islands during the 26th.

Mean sea level pressures were up to 5 hectopascals above average over the southern half of the South Island.

Most farmers reported reasonable or good grass growth with stock in good condition this month, although in Canterbury grass growth has been slow due to drier weather and low soil moistures.

Rainfall—Rainfall was below average throughout the country, except for the Wairarapa where it was just above average. The driest regions in the North Island were the Bay of Plenty and the Manawatu, where rainfall was about 50 percent of average. Most eastern districts of the South Island received from 50 to 70 percent of average rainfall. On the West Coast as north-westerly and westerly winds were much less frequent than usual, rainfall for the month ranged from only 20 to 40 percent of average.

This month both Otira and Milford Sound recorded their lowest rainfalls for October, being 128 mm (24 percent of normal) and 162 mm (29 percent of normal) respectively. Records began at Otira in 1906 and at Milford Sound in 1930. Franz Josef recorded 184 mm (41 percent of normal), the second lowest for October since records began in 1928.

So far this year Oamaru Airport has recorded only 186 mm of rain (47 percent of normal), which makes this the driest year since records began in 1941.

Temperatures—Throughout the country mean daily temperatures were about 1°C below average. Kawerau experienced the coolest October on record. The mean daily temperature was 2°C below average. Records began in 1954. On the West Coast of the South Island the mean daily maximum temperature was between 1°C and 2°C above average, while the mean daily minimum was 1°C below average.

Some record maximum air temperatures for October were recorded this month at the following stations:

Date	Station	Start of record	Maximum temperature	Previous record
7 Nov.	Whakatane Airport	1975	26.4°C	23.8°C 1980/81
21 Nov.	Hokitika Airport	1953	24.0°C	24.0°C 1983
21 Nov.	Franz Josef	1963	23.8°C	22.9°C 1960

At Mount Cook Village on the 25th the temperature dropped from 18°C at 3.30 p.m. to 0°C at 8.30 p.m. The greatest drop in the temperature was between 3.30 p.m. and 4.30 p.m. when it fell 13°C.

Sunshine—Sunshine was near or above average over the whole country. The sunniest region in the North Island was the Bay of Plenty, where sunshine hours were 25 percent above average. On the West Coast of the South Island and in Southland it was particularly sunny, as most places recorded at least 30 percent more sunshine than average.

Among those stations which recorded the greatest departures this month are:

Station	Start of record	Departure from normal	Rank
Westport Airport	1937	+75 hours	equal highest with 1950
Hokitika Airport	1964	+68 hours	highest on record
Invercargill Airport	1932	+61 hours	second highest on record
Tauranga Airport	1933	+53 hours	
Rotorua Airport	1976	+41 hours	

J. S. HICKMAN, Director.

THESE MAPS ARE MEAN SEA LEVEL ANALYSES
 FOR 0000 HOURS. THEY WERE PREPARED BY
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