



# SUPPLEMENT

TO THE

# NEW ZEALAND GAZETTE

OF

THURSDAY, 18 NOVEMBER 1982

*Published by Authority*

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WELLINGTON: THURSDAY, 18 NOVEMBER 1982

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# CLIMATOLOGICAL TABLE FOR SEPTEMBER 1982

## NEW ZEALAND METEOROLOGICAL SERVICE

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

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		
Cape Reinga	191	15.6	9.3	12.5	+0.3	18.4	13	7.1	19	32	17	-90	18	25	..
Kaitaia Airport	80	15.4	7.5	11.5	-0.5	17.2	21	3.4	20	40	21	-125	10	5	179
Aupouri Forest	69	15.4	9.0	12.2	-0.1	17.0	13	5.9	21	34	16	-104	5	5	..
Kaitaia	8	16.5	6.5	11.5	..	19.0	12	2.2	20	50	20	..	16	5	..
Kerikeri M A F	79	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Kerikeri Downs	79	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Kerikeri Aerodrome	150	15.3	6.3	10.8	..	18.2	21	2.5	20	19	13	..	4	15	..
Umawera	50	16.0	5.3	10.7	..	18.0	21	-0.2	20	33	14	..	7	2	..
Kaikohe	204	13.8	7.0	10.4	-0.4	16.3	21	3.6	17	29	18	..	6	5	150
Waiotemarama	229	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Waipoua Forest	88	14.8	6.3	10.6	-0.2	17.0	13	1.0	17	87	25	-104	11	18	..
Dargaville	20	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Waitangi Forest	55	15.9	6.8	11.4	-0.6	18.2	23	2.8	20	21	9	-144	9	15	167
Glenberrie Forest	107	14.9	3.8	9.4	-0.5	17.4	31	-1.4	17	30	17	-183	7	18	..
Whangarei Airport	37	15.3	7.0	11.2	-0.3	18.5	31	2.7	17	27	17	-133	6	25	..
Whangarei	29	15.7	5.7	10.7	-0.6	19.0	31	0.7	17	28	13	..	6	25	152*
Marsden Power Station	3	..	7.0	..	..	..	..	1.5	5	40	19	..	8	2	..
Poua	97	..	8.5	..	..	..	..	3.9	19	58	16	..	11	17	..
Leigh	27	15.1	9.5	12.3	+0.3	17.5	13	5.0	19	40	13	-96	9	29	159
Warkworth	72	14.3	6.0	10.2	-0.1	16.4	13	0.7	17	39	20	..	6	25	..
Oyster Point	0	14.8	6.4	10.6	..	17.0	13	0.2	17	32	20	..	5	18	..
Woodhill Forest	30	14.9	6.7	10.8	+0.2	17.2	13	-0.1	17	43	20	-97	9	18	..
Riverhead Forest	28	15.0	5.5	10.3	+0.1	16.5	13	-1.0	17	33	15	-119	11	11	..
Kumeu	32	14.9	5.6	10.3	..	16.9	13	-1.4	17	49	19	..	10	18	..
Whenuapai	26	15.0	6.1	10.6	+0.2	16.8	14	-0.3	17	37	22	-108	10	1	..
Albert Park, Auckland	49	15.3	8.5	11.9	+0.3	17.5	21	4.6	19	33	20	-109	8	1	150*
Owairaka, Auckland	41	14.7	7.1	10.9	+0.2	16.7	14	1.0	17	38	22	-112	6	25	..
Port Fitzroy	4	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Little Barrier Island	2	14.9	9.0	12.0	..	17.0	13	5.4	19	32	19	-143	6	6	..
Coromandel	43	15.0	5.9	10.5	..	17.6	13	-0.5	19	40	17	..	10	5	..
Whangapoua Forest	4	15.8	5.2	10.5	+0.1	19.3	1	-0.5	17	46	14	-155	12	5	..
Thames	3	14.6	7.4	11.0	-0.1	16.1	14	0.6	19	39	20	-85	9	1	..
Tairua Forest	3	15.1	5.4	10.3	+0.0	18.1	14	-0.7	19	41	13	-160	12	2	..
Paeroa	4	15.1	5.0	10.1	+0.2	16.9	29	-1.9	19	33	17	-104	13	1	..
Waihi	91	14.1	5.3	9.7	+0.1	16.4	14	-2.1	17	45	15	-194	19	18	140
Te Aroha	18	14.7	5.7	10.2	-0.1	16.2	13	-1.1	19	33	16	-122	8	1	..
Katikati	2	15.4	5.5	10.5	..	17.0	11	-0.4	19	32	11	..	9	1	..
Tauranga	2	15.1	6.9	11.0	+0.3	16.9	22	2.4	4	47	11	..	22	12	..
Tauranga Airport	4	14.8	5.4	10.1	-0.1	17.0	23	-1.2	19	31	11	-106	9	1	175
Te Puke	91	14.8	4.7	9.8	+0.0	17.0	21	-0.2	4	42	9	..	12	2	168
Rotoehu Forest	72	14.7	1.7	8.2	-0.5	17.4	23	-2.3	4	33	10	-140	9	1	..
Edgecumbe	5	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Whakatane	2	15.5	4.9	10.2	+0.0	19.4	23	0.8	19	37	10	-93	13	5	187
Whakatane Airport	6	14.7	3.1	8.9	..	18.3	23	-1.8	4	35	11	..	11	5	..
Te Kaha	6	15.3	..	..	..	18.0	27	..	..	33	8	..	10	25	..
Port Ohope	9	15.2	6.1	10.7	..	18.9	23	1.7	4	44	11	..	12	5	197
Kinleith	383	11.9	3.0	7.5	-0.2	15.0	22	-3.2	19	43	14	-88	15	25	..
Tikitere	338	12.0	4.3	8.2	..	14.4	12	-1.0	19	25	9	..	8	1	..
Kawerau	30	15.3	4.4	9.9	-0.1	18.0	9	-1.0	4	35	9	-150	9	5	..
Te Teko	8	16.5	3.2	9.9	+0.0	19.5	12	-0.3	19	36	10	-119	11	5	185
Rotorua Airport	287	12.7	3.4	8.1	-0.3	15.5	23	-2.2	19	24	11	-123	6	1	148
Tarawera Forest	61	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Waiotapu Forest	435	12.0	2.2	7.1	+0.2	14.7	23	-4.7	29	42	8	-88	11	11	..
Atiamuri Power Station	253	13.1	1.5	7.3	-0.4	15.7	21	-4.1	19	32	16	-96	10	1	..
Kaingaroa Forest	544	11.0	1.2	6.1	-0.6	14.2	22	-3.6	30	45	8	-97	10	11	..
Murupara	198	13.7	2.3	8.0	..	17.0	21	-3.0	19	33	6	-84	8	1	..
Wairapukao Forest	437	..	0.7	..	..	..	..	-5.2	4	42	9	-85	9	11	..
Taupo	376	12.0	2.0	7.0	-0.4	14.4	21	-3.3	19	25	16	-84	6	2	142
Wairakei Power Station	342	12.7	2.6	7.7	+0.1	15.8	22	-3.3	19	31	12	-86	9	2	..
Wairakei Research Station	402	12.5	1.5	7.0	-0.1	15.4	21	-4.4	19	29	9	-85	9	1	..
Minginui Forest	366	12.5	0.5	6.5	-0.1	16.9	23	-5.9	19	34	10	-103	10	1	..
Taupo Airport	407	11.6	1.9	6.8	..	13.5	22	-5.0	19	17	10	..	6	1	..
Waimihia Forest	743	8.6	0.8	4.7	-0.3	12.0	23	-4.0	4	47	13	-110	14	1	..
Opotiki	6	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Waimana	37	15.2	1.7	8.5	-0.4	19.0	23	-3.1	4	22	8	-151	4	5	..
Mangere, Auckland	4	14.5	7.7	11.1	+0.3	16.8	14	1.0	19	38	27	-97	8	1	146
Otara, Auckland	12	14.9	5.9	10.4	+0.0	16.7	13	0.2	17	31	20	-104	8	1	..
Auckland Airport	8	14.2	7.7	11.0	+0.1	15.8	13	3.0	17	35	20	-97	12	1	153
Ardmore	30	14.7	5.3	10.0	-0.3	17.0	13	0.1	17	38	19	-104	11	1	..
Pukekohe	82	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Maioro Forest	52	14.7	6.8	10.8	+0.1	16.5	27	0.4	19	50	17	-90	13	1	..
Hunua	122	14.0	4.6	9.3	..	15.7	27	-1.4	17	56	23	..	12	1	..
Maramarua Forest	38	14.6	4.0	9.3	-0.1	16.4	13	-1.9	19	60	16	-62	15	1	..
Te Kauwhata	32	14.8	4.9	9.9	-0.2	16.9	18	0.1	19	55	26	-62	10	29	122

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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	mm	Hrs		
Huntly	34	..	..	..	..	..	..	..	..	..	..	..	..		
Ruakura, Hamilton	40	14.5	4.1	9.3	-0.1	16.5	13	-3.1	17	45	18	-72	15	11	149
Whatawhata	104	13.8	5.6	9.7	+0.0	15.6	27	-1.1	19	66	23	-91	8	2	130
Rukuhia	66	14.6	5.0	9.8	+0.1	16.6	22	-0.2	19	31	15	-91	7	1	143
Hamilton Airport	50	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Cambridge	76	14.0	3.6	8.8	..	16.2	12	-2.6	19	43	15	..	15	5	..
Port Taharoa	27	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Mohakatino Station Mokau	46	13.5	6.4	10.0	-0.2	15.8	14	0.8	19	83	20	-69	21	1	..
Arapuni Power Station	123	14.2	..	..	..	16.9	12	..	..	45	15	-90	10	15	..
Waikeria	46	14.1	2.6	8.4	..	16.7	1	-3.6	19	56	16	..	14	18	..
Te Kuiti	61	14.2	4.3	9.3	+0.2	16.2	12	-2.1	19	72	22	-78	13	1	125
Wairere	122	13.5	3.7	8.6	..	15.9	29	-2.4	19	91	26	-54	14	1	..
Pureora Forest	549	10.0	1.7	5.9	-0.3	14.0	27	-6.5	17	85	22	-80	15	2	..
Taumarunui	171	13.6	3.0	8.3	-0.2	16.3	12	-3.5	19	78	22	-46	14	1	113
Omata	61	..	..	..	..	..	..	..	..	..	..	..	..	..	..
New Plymouth	55	14.0	5.9	10.0	..	16.2	27	-0.7	19	79	21	..	19	5	..
New Plymouth Airport	27	14.0	5.1	9.6	-0.1	15.8	14	-1.1	19	59	17	-88	14	17	184
Tikorangi	77	13.9	4.9	9.4	..	16.2	23	-0.5	19	82	22	..	20	17	..
North Egmont	955	7.8	1.1	4.5	..	11.5	22	-3.0	19	245	22	..	38	2	..
Te Wera Forest	180	12.8	1.5	7.2	-0.6	15.0	12	-4.3	12	63	14	-105	12	1	..
Lower Retaruke	223	13.0	2.9	8.0	+0.2	15.9	27	-3.1	16	74	22	..	12	25	..
Turangi	366	12.0	1.4	6.7	-0.5	15.1	21	-4.1	17	57	13	..	17	2	152
Chateau, Mt Ruapehu	1119	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Mangamutu, Pahiatua	116	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Mt Bruce Reserve	305	12.3	1.8	7.1	+0.3	16.6	21	-4.1	17	139	12	..	43	1	..
Waingawa, Masterton	114	14.0	2.2	8.1	+0.0	17.8	24	-2.0	4	43	15	-48	9	25	177
Kopua	311	12.1	3.3	7.7	+0.1	16.0	14	-3.1	17	34	12	-78	9	1	..
Waipukurau	137	13.4	2.4	7.9	-0.2	17.9	14	-2.1	4	22	12	-64	4	16	182*
Dannevirke	207	12.6	3.6	8.1	+0.0	15.1	13	-2.9	17	44	13	-55	13	1	150
Porangahau	8	14.0	5.0	9.5	..	17.5	14	-0.6	17	21	11	..	6	1	..
Castlepoint	3	13.5	7.3	10.4	+0.5	17.1	20	2.9	17	29	11	-75	6	11	..
Ngaumu Forest	244	12.9	2.3	7.6	+0.6	16.1	22	-3.5	17	38	13	-99	8	25	..
Tauherenikau, Alloa	43	13.8	2.9	8.4	-0.1	17.4	9	-1.7	17	53	13	-46	12	25	..
Gladstone, Arahura	116	13.5	1.8	7.7	-0.3	16.6	22	-4.0	14	33	10	-79	9	25	..
Waiorongomai	21	12.8	3.9	8.4	+0.0	15.6	22	-1.8	17	67	13	-75	15	25	..
Cape Palliser	10	13.9	7.2	10.6	+0.6	18.5	22	2.1	17	34	13	-70	13	31	..
East Cape	17	14.6	7.3	11.0	-0.6	18.5	23	2.6	4	28	11	-124	10	6	..
Ruatoria	61	15.6	4.1	9.9	-0.2	19.4	23	-1.7	4	15	8	-203	5	15	..
Mangatu Forest	182	14.1	3.5	8.8	-0.1	19.0	24	-2.0	4	26	9	-124	9	15	..
Manutuke Gisborne	9	14.9	2.4	8.7	-1.1	19.6	22	-1.2	4	18	9	-91	5	26	..
Gisborne Airport	4	14.8	3.7	9.3	-0.6	18.9	22	-0.9	4	24	7	-93	8	15	200
Onepoto, Waikaremoana	643	11.6	3.1	7.4	+0.6	18.7	22	-0.8	4	75	15	-151	16	15	..
Wharerata Forest	439	..	..	..	..	..	..	..	..	80	..	..	26	18	..
Esk Forest	427	12.1	3.8	8.0	+0.4	17.6	22	-1.4	17	66	13	-117	15	11	..
Kaweka Forest	414	12.2	4.9	8.6	+0.4	16.4	14	-0.5	17	51	11	..	12	11	..
Napier Airport	2	14.8	3.4	9.1	..	19.1	25	-1.6	28	15	9	-71	3	1	..
Napier	2	15.0	3.7	9.4	-0.4	19.3	14	-1.4	4	16	10	-65	3	25	195
Hastings	16	14.8	2.5	8.7	..	20.2	14	-2.6	4	19	10	..	4	25	..
Havelock North	9	14.4	1.8	8.1	-0.7	19.7	14	-2.9	4	19	9	-65	6	25	183
Gwavas Forest	335	12.3	1.7	7.0	+0.2	17.1	14	-2.6	4	31	14	-101	8	1	..
Makaretu	335	13.0	2.1	7.6	+0.0	17.5	14	-4.0	30	32	18	..	7	1	..
Mohaka Forest	286	13.4	3.7	8.6	+0.2	18.0	22	-1.1	4	51	13	-114	10	15	..
Frasertown, Wairoa	8	15.0	4.3	9.7	-0.2	19.0	9	-0.5	4	68	17	-87	20	11	..
Wairoa	20	14.7	3.8	9.3	-0.6	18.5	22	-0.8	4	45	10	..	11	18	189
Portland Island	78	12.8	8.4	10.6	-0.1	16.5	14	5.3	4	7	10	-105	2	18	..
Kapiti Island	16	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Paraparaumu Airport	7	13.0	5.6	9.3	+0.2	15.5	14	-1.2	19	49	12	-42	17	31	160
Flockhouse, Bulls	9	13.2	4.5	8.9	+0.0	15.4	5	-3.2	17	50	14	-31	17	1	..
Ohakea	48	13.0	5.6	9.3	+0.0	15.2	14	-1.5	17	38	15	-43	11	1	140
Wharite Peak	914	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Kairanga Palmerston North	15	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Palmerston North Airport	45	13.1	3.8	8.5	-0.2	15.7	14	-4.5	17	32	12	-47	14	1	..
Palmerston North D S I R	34	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Foxton	3	..	..	..	..	..	..	..	..	50	15	-31	16	17	..
Tiritea	100	12.6	4.8	8.7	..	15.3	23	-1.2	19	56	14	..	17	1	..
Waitarere Forest	3	13.2	4.6	8.9	+0.1	15.6	23	-2.0	16	43	12	-33	14	1	..
Levin	46	12.9	5.1	9.0	-0.2	16.0	23	-1.3	19	60	15	-37	12	1	126
Titahi Bay	31	13.3	5.8	9.6	..	16.7	23	-1.4	19	28	7	..	12	25	..
Taita, Lower Hutt	65	13.1	4.6	8.9	+0.1	16.8	22	-1.0	17	60	12	-72	19	31	..
Avalon, Lower Hutt	15	13.1	5.4	9.3	+0.4	16.1	20	0.0	16	55	13	-100	19	31	..
Kelburn, Wellington	125	12.5	6.3	9.4	+0.5	16.1	20	1.3	17	67	12	-57	36	25	175
Somes Island	43	12.4	6.6	9.5	..	15.0	20	2.0	17	56	10	..	27	25	..
Gracefield, Lower Hutt	34	12.9	6.1	9.5	+0.1	15.5	4	0.2	17	48	10	-92	18	31	..
Wainuiomata	82	12.7	4.3	8.5	+0.3	16.0	23	-1.1	17	53	11	..	17	25	..
Wellington Airport	6	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Rimutaka Forest	40	13.1	4.8	9.0	..	16.8	23	-1.5	17	57	10	..	28	25	..
Kaitoke	223	12.0	2.3	7.2	-0.1	15.4	23	-3.7	9	101	20	-100	30	31	149

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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	13.1	3.4	8.3	+0.2	16.4	23	-3.0	19	62	13	-57	20	31	156
Cape Egmont	8	13.8	7.0	10.4	+0.1	15.4	14	-1.5	19	51	24	-89	11	17	..
Oaonui	30	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Stratford Mountain House	846	8.1	0.5	4.3	+0.0	12.0	22	-2.6	17	190	19	-458	39	1	..
Stratford Dem. Farm	311	12.1	3.2	7.7	-0.1	15.2	14	-1.6	19	85	14	-128	17	1	177
Manaia Dem. Farm	98	12.7	5.1	8.9	+0.0	16.7	22	-1.1	16	76	23	-41	14	1	149
Normanby	122	12.4	4.7	8.6	..	14.8	14	-1.6	16	56	20	..	17	1	..
Patea	43	13.3	6.6	10.0	+0.2	16.0	14	0.0	17	54	12	-33	16	17	..
Ruatiti	354	11.6	2.9	7.3	..	14.5	27	-3.2	17	90	22	..	19	2	..
Ohakune Junction	629	9.5	1.3	5.4	..	12.5	27	-4.1	17	76	24	..	19	1	..
Karioi	648	9.9	1.0	5.5	-0.3	13.5	27	-5.6	17	64	18	-38	13	2	..
Waiouru	823	8.9	0.0	4.5	-0.2	12.5	27	-8.0	19	51	19	-48	12	2	..
Waiouru Military Camp	823	8.5	0.1	4.3	-0.1	11.6	13	-7.0	19	56	22	-51	14	2	..
Ahu Ahu Valley	85	13.7	3.4	8.6	..	15.9	4	-3.2	19	64	22	..	17	1	..
Taihape	433	11.9	1.2	6.6	-0.2	14.8	21	-4.7	19	51	17	..	15	2	..
Kahui, Taihape	518	10.9	2.3	6.6	-0.5	14.3	21	-2.9	19	44	13	..	11	1	..
Patupa	24	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Wanganui	22	13.6	5.8	9.7	+0.1	17.0	14	0.4	17	47	14	-29	14	1	148
Wanganui Airport	9	13.8	5.4	9.6	..	16.4	14	-0.8	30	38	11	..	12	17	..
Farewell Spit	3	14.4	4.9	9.7	+0.0	18.1	20	0.0	19	46	11	-71	10	25	..
Totaranui	10	14.2	4.7	9.5	..	17.5	14	0.7	19	45	8	..	15	31	..
Westport Airport	2	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Cobb Dam	823	8.6	0.2	4.4	+0.6	12.0	20	-3.8	19	118	17	-98	38	1	..
Arapito	20	13.1	5.5	9.3	..	15.0	4	0.6	19	219	20	..	49	31	105
Lake Rotoroa	443	10.4	1.3	5.9	..	13.7	27	-4.3	19	137	17	..	44	1	..
Lake Rotoiti	634	10.2	-0.8	4.7	+0.4	13.7	20	-6.8	19	85	16	-65	29	1	..
Hokitika Airport	39	12.3	4.4	8.4	+0.4	14.1	12	0.0	3	189	24	-47	27	13	115
Reefton	198	11.4	3.0	7.2	+0.8	14.9	27	-2.8	19	130	20	-38	28	13	..
Barrytown	30	12.6	7.0	9.8	..	14.0	12	4.2	3	202	25	..	42	31	..
Totara Flat	77	12.2	3.7	8.0	+1.0	15.5	6	-1.5	19	149	21	-11	31	31	..
Greymouth	4	12.1	5.2	8.7	-0.2	13.9	12	0.5	3	197	25	+6	32	31	87
Otira Substation	383	9.8	1.4	5.6	..	13.5	27	-3.5	19	595	22	+204	108	31	..
Springs Junction	421	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Hari Hari	45	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Franz Josef	122	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Fox Glacier	152	11.2	2.4	6.8	..	13.4	11	-0.7	19	439	19	+65	66	1	..
Milford Sound	3	10.6	2.8	6.7	-0.1	14.3	20	-0.3	12	697	25	+273	190	30	..
Puysegur Point	43	11.1	6.6	8.9	..	13.6	4	2.5	16	178	30	+0	20	24	..
Stephens Island	187	11.7	7.4	9.6	..	14.5	23	0.1	15	27	13	-47	9	25	..
Riwaka, Motueka	8	14.6	2.5	8.6	+0.6	18.8	22	-2.3	19	41	9	-99	10	25	200
Tapawera	146	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Craik Bay Pelorus Sd	13	13.5	6.3	9.9	..	19.0	22	0.8	19	50	9	..	26	31	..
Appleby	17	14.1	3.7	8.9	+0.7	17.9	20	-1.6	19	32	6	-62	12	25	..
Nelson Airport	2	13.8	3.0	8.4	+0.9	17.4	20	-2.0	19	23	6	-71	8	25	199
Rai Valley	79	14.3	1.6	8.0	+0.6	18.4	23	-5.3	19	66	6	-132	26	31	..
Moutere Hills	110	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Blenheim Airport	27	15.0	2.7	8.9	+1.1	19.8	24	-2.4	19	18	7	-53	6	25	..
Brancott Valley	64	15.1	2.7	8.9	..	19.7	24	-2.3	16	15	7	..	7	25	..
Blenheim	4	15.6	2.7	9.2	+1.0	20.3	24	-2.6	19	14	8	-47	5	25	203
Waihopai Power Station	262	13.8	1.5	7.7	+0.7	18.8	20	-3.0	19	25	6	-54	15	25	..
Vernon Lagoons	2	15.2	2.1	8.7	+0.9	19.9	22	-3.2	19	14	7	..	5	13	199
Lake Grassmere	2	13.9	4.1	9.0	+0.8	19.3	22	-3.5	18	5	1	-48	5	25	201
Cape Campbell	3	13.3	6.9	10.1	+1.4	16.4	22	4.1	16	10	4	-54	6	25	..
Hanmer Forest	387	13.3	0.3	6.8	+1.4	17.2	22	-5.0	19	51	11	-63	14	25	138
Molesworth	893	9.5	-2.3	3.6	+0.8	14.6	24	-8.6	19	18	7	-40	6	25	..
Kaikoura Flats	24	13.9	2.3	8.1	..	19.9	25	-1.6	17	25	7	..	7	25	..
Kaikoura	108	13.2	5.7	9.5	+1.3	20.2	31	1.9	16	18	7	-63	5	17	189
Arthurs Pass	738	7.4	-0.8	3.3	..	10.5	27	-5.0	3	340	18	+35	57	13	..
Balmoral Forest	198	14.0	1.2	7.6	+1.7	18.1	9	-4.5	17	28	10	-30	6	25	..
Waiau	137	..	..	..	..	..	..	..	..	..	..	..	..	..	..
The Hermitage, Mt Cook	765	9.6	0.0	4.8	+1.2	15.6	9	-5.8	18	392	16	+110	60	25	116
Mt John	1027	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Craigieburn Forest	914	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Lake Coleridge	364	13.5	0.8	7.2	+1.6	17.6	24	-3.2	19	65	11	-14	17	25	..
Highbank Power Station	336	12.8	3.8	8.3	+1.7	16.9	22	-2.0	18	55	14	-19	14	14	170
Hororata Substation	192	14.9	1.1	8.0	+2.0	21.4	24	-4.4	17	57	14	-7	13	14	..
Winchmore	160	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Peel Forest	274	14.2	0.6	7.4	..	21.2	24	-3.5	17	59	16	..	15	25	..
Ashburton	101	14.5	1.7	8.1	+1.3	22.1	24	-2.6	16	23	9	-38	8	25	163
Waipara	64	14.6	3.9	9.3	..	18.4	9	-2.8	16	15	9	..	8	17	..
Ashley Forest	107	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Rangiora	46	14.8	0.7	7.8	+1.0	20.0	31	-5.0	17	21	8	-32	9	17	..
Darfield	195	14.9	3.1	9.0	+2.4	19.1	22	-2.6	16	44	8	-20	16	17	..
Eyrewell Forest	158	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Christchurch Airport	30	14.1	1.5	7.8	+1.1	19.4	25	-4.0	16	14	8	-39	7	17	190
Templeton	46	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Christchurch	7	14.1	2.0	8.1	+0.8	20.0	24	-2.2	16	15	6	-38	9	17	..

CLIMATOLOGICAL TABLE—Summary of the Records of Temperature, Rainfall, and Sunshine for August 1982—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	mm	mm	mm	mm	Hrs			
Bromley, Christchurch	9	13.6	3.9	8.8	+1.3	18.9	22	-1.8	16	14	7	-37	6	17	..
Mt Pleasant	137	13.7	5.5	9.6	+1.5	19.5	24	1.5	18	17	6	-44	8	17	..
Lincoln	11	14.0	2.3	8.2	+1.5	19.9	24	-4.3	16	23	7	-33	9	25	184
Akaroa	3	14.8	1.9	8.4	..	21.8	23	-2.0	16	48	7	..	13	16	..
Lake Tekapo	683	9.9	-0.8	4.6	+1.0	14.5	21	-9.0	18	54	11	+6	19	25	..
Lake Pukaki	556	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Fairlie	304	14.3	-1.8	6.3	..	20.5	23	-6.6	26	32	7	..	16	25	..
Twizel	457	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Ikawai	70	15.0	0.3	7.7	+1.6	20.5	24	-5.0	16	12	5	..	6	25	..
Geraldine	119	14.8	0.7	7.8	..	21.3	24	-4.2	17	42	7	..	16	31	..
Orari Estate	81	14.6	0.4	7.5	+1.8	21.8	24	-4.2	17	40	9	-16	15	31	..
Temuka	24	14.5	0.6	7.6	+1.4	22.0	24	-4.5	17	24	8	-19	11	25	..
Timaru Airport	26	14.3	0.3	7.3	+1.5	22.0	24	-4.0	17	17	8	-24	8	25	..
Adair	85	14.1	3.2	8.7	+1.9	21.9	24	-0.7	17	21	7	-20	8	25	..
Timaru	17	13.3	2.2	7.8	+1.0	21.9	24	-3.1	17	18	8	-20	8	25	172
Waimate	61	14.9	2.4	8.7	+1.6	..	..	-1.5	13	19	6	-22	9	25	..
Kurou	207	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Oamaru Airport	30	13.8	2.0	7.9	+1.8	19.9	9	-2.9	17	8	7	-25	2	25	154
Tara Hills, Omarama	488	11.2	-0.2	5.5	+1.8	15.7	9	-4.6	17	55	13	+25	21	25	165
Lake Hawea	350	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Wanaka	296	12.1	1.2	6.7	+1.5	16.2	21	-3.7	16	88	13	+37	22	25	..
Queensberry	277	11.9	2.0	7.0	..	16.6	21	-3.2	16	58	12	..	22	25	..
Bendigo	200	12.7	2.0	7.4	..	17.5	21	-4.2	16	43	12	..	25	25	..
Naseby Forest	610	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Windsor	88	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Oamaru	5	14.5	3.2	8.9	..	20.5	10	-1.7	17	14	6	..	4	22	..
Ranfurly	427	10.8	-0.4	5.2	..	16.3	10	-7.1	26	36	9	..	18	25	121
Herbert Forest	61	14.8	1.0	7.9	+1.7	20.5	10	-3.8	17	26	10	-17	5	17	..
Palmerston	21	14.5	0.9	7.7	+1.7	19.8	10	-6.0	17	17	7	..	5	2	135
Cherry Farm Hospital	6	14.5	2.1	8.3	+1.9	19.2	25	-2.2	17	24	10	-12	7	2	..
Taiaroa Head	72	12.5	5.1	8.8	+1.5	17.7	24	0.3	3	23	13	-15	5	31	..
Invermay, Taieri	30	13.4	2.3	7.9	..	18.9	24	-3.8	16	44	16	..	11	2	126
Berwick Forest	18	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Dunedin Airport	1	13.1	1.5	7.3	+1.1	19.2	24	-5.2	13	32	13	-6	9	17	135
Musselburgh, Dunedin	2	12.9	4.1	8.5	+1.2	19.2	24	-1.0	26	47	11	+1	11	2	126
Te Anau	215	10.9	2.6	6.8	+1.5	14.6	4	-3.2	18	127	15	+41	30	1	118
West Arm, Manapouri	232	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Borland Burn	183	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Queenstown	329	11.1	1.7	6.4	+0.9	15.4	9	-2.9	15	100	14	+39	19	30	107
Queenstown Airport	349	10.8	0.1	5.5	+0.6	15.2	9	-4.0	16	110	12	+65	23	25	..
Otama	183	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Cromwell	213	12.5	1.0	6.8	+1.6	17.8	21	-5.0	16	36	12	+13	16	25	152
Northburn	210	12.6	1.2	6.9	..	17.2	24	-3.7	16	37	11	..	17	25	..
Lauder	370	11.3	1.2	6.3	..	16.2	10	-8.2	26	38	11	..	24	25	..
Clyde Dam	160	12.9	1.3	7.1	..	17.5	24	-4.0	17	34	12	..	15	25	..
Ophir	305	11.6	-1.4	5.1	+0.8	15.5	8	-8.6	25	43	7	+23	25	25	..
Moa Creek	427	..	..	..	..	..	..	..	..	33	9	+18	15	25	..
Earnsclough	152	13.0	0.1	6.6	+1.8	19.4	10	-6.1	16	43	12	+25	26	25	..
Roxburgh Power Station	110	13.2	2.4	7.8	+1.4	18.0	24	-4.5	16	30	8	+5	8	25	..
Deep Stream	396	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Beaumont	46	13.0	1.4	7.2	..	19.2	9	-4.5	16	110	18	+54	22	31	..
Mahinerangi Dam	396	10.2	0.7	5.5	+1.3	15.8	24	-4.5	16	83	17	+32	18	31	..
Tapanui	226	11.2	2.7	7.0	+0.7	16.5	24	-3.6	16	80	15	+29	18	31	..
Taieri Mouth	15	12.5	2.3	7.4	+1.0	19.1	24	-2.6	16	51	11	+13	13	2	..
Tuatapere	27	12.3	3.2	7.8	..	16.3	21	-2.1	16	131	16	..	20	17	..
Otautau	55	12.2	2.5	7.4	+1.4	16.4	21	-3.3	16	137	16	+61	24	24	111
Winton	44	12.3	1.9	7.1	+0.7	16.0	9	-3.5	16	83	16	+35	18	24	135
Gore	123	11.6	2.6	7.1	+1.5	15.5	24	-3.4	16	84	19	..	16	31	132
Hokonui Forest	46	12.1	2.4	7.3	+1.0	16.4	9	-4.5	16	64	14	+3	21	24	..
Woodlands	47	11.9	2.8	7.4	+0.8	15.8	9	-3.2	16	105	28	..	16	24	..
Invercargill Airport	0	11.8	2.8	7.3	+1.1	16.0	9	-2.9	16	97	23	+31	18	24	106
Tiwai Point, Bluff	5	11.2	4.3	7.8	+0.6	15.6	9	-1.3	16	120	25	..	17	24	..
Stewart Island	3	11.2	4.7	8.0	..	15.5	9	-1.5	16	176	31	..	35	30	..
Milton	18	12.4	1.5	7.0	+1.1	18.9	24	-4.5	16	51	13	+13	11	2	..
Finegand, Balclutha	6	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Owaka	5	12.3	2.1	7.2	..	17.4	24	-4.8	16	63	17	..	12	17	..
Nugget Point	129	11.4	3.7	7.6	+1.2	17.5	24	0.4	16	49	24	-2	8	17	..
Tautuku	61	12.4	3.7	8.1	..	17.0	24	-3.2	26	101	22	..	14	17	..
Nandi Airport, Fiji	19	27.8	19.2	23.5	-0.1	31.2	2	14.9	30	61	10	..	25	22	183
Rarotonga Airport	7	24.0	18.4	21.2	-0.3	25.5	6	15.4	3	84	15	-38	28	13	118
Totokoitu, Rarotonga	9	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Raoul Island	38	17.8	11.8	14.8	-1.2	19.6	1	8.3	21	104	16	-33	31	11	178
Campbell Island	15	8.0	2.6	5.3	+0.3	9.9	3	-1.7	18	143	30	+34	20	13	28
Waitangi, Chatham Island	44	10.8	5.9	8.4	+0.3	13.5	26	0.9	18	37	18	-52	8	20	114
Scott Base, Antarctica	16	-19.8	-31.9	-25.9	+5.3	-9.6	11	-52.4	24	..	..	..	..	..	..

CLIMATOLOGICAL TABLE—Summary of the Records of Temperature, Rainfall, and Sunshine for August 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	°C	mm	mm	mm	Hrs				
LATE RETURNS AND CORRECTIONS															
Waiotemarama 04/1982	229	17.9	11.1	14.5	..	19.9	7	7.3	28	159	17	..	46	8	..
Woodhill Forest 06/1982	30	14.9	4.4	9.7	-1.4	18.9	3	-1.5	19	82	13	-63	17	24	..
Woodhill Forest 07/1982	30	14.2	4.1	9.2	-1.0	18.1	20	-3.4	11	128	14	-12	50	28	..
Port Fitzroy 07/1982	4	14.7	7.2	11.0	-0.6	17.9	20	1.1	12	134	20	-67	55	28	..
Little Barrier Island 06/1982	2	..	..	..	..	..	..	..	..	109	14	-59	41	4	..
Little Barrier Island 07/1982	2	..	8.6	..	..	..	..	3.9	23	105	19	-50	49	28	..
Thames 07/1982	3	13.2	5.9	9.6	-0.6	18.7	20	-2.2	10	121	14	-6	56	28	..
Tairua Forest 07/1982	3	13.6	4.4	9.0	-0.7	18.4	31	-2.1	10	115	13	-73	41	28	..
Te Kauwhata 07/1982	32	12.8	2.7	7.8	-1.3	17.7	31	-5.0	10	61	15	-61	11	20	135
Huntly 07/1982	34	13.0	3.4	8.2	..	17.4	31	-4.0	11	66	..	..	19	14	..
Port Taharoa 07/1982	27	13.7	6.9	10.3	-0.6	16.3	29	1.8	11	74	..	..	..	..	..
Lower Retaruke 07/1982	223	11.4	-0.4	5.5	-1.1	15.4	29	-6.5	2	111	13	..	22	31	..
Chateau, Mt Ruapehu 07/1982	1119	..	-2.4	..	..	..	..	-7.7	8	207	14	-62	44	20	..
Wharerata Forest 07/1982	439	..	..	..	..	..	..	..	..	194	17	..	39	21	..
Esk Forest 07/1982	427	..	2.6	..	..	..	..	-3.6	8	146	10	-22	42	20	..
Makaretu 07/1982	335	10.8	2.1	6.5	-0.3	16.0	31	-4.5	25	96	17	..	33	20	..
Portland Island 07/1982	78	11.7	7.3	9.5	-0.7	17.3	20	4.3	23	96	18	-26	14	29	..
Hari Hari 07/1982	45	11.8	..	..	..	16.9	28	..	..	171	10	-70	35	18	..
Stephens Island 07/1982	187	10.7	7.0	8.9	..	13.0	30	-0.9	5	33	13	-51	11	19	..
Christchurch 07/1982	7	10.9	0.4	5.7	-0.2	18.3	31	-3.2	24	58	11	+0	22	19	..
Akaroa 07/1982	3	11.0	..	..	..	17.5	31	..	..	124	17	..	20	29	..
Naseby Forest 07/1982	610	5.1	-5.1	0.0	-1.6	10.2	30	-9.8	1	19	3	-14	13	13	..
Windsor 07/1982	88	9.8	1.0	5.4	..	15.3	17	-2.4	21	2	2	..	1	29	..
Oamaru 07/1982	5	10.9	2.1	6.5	..	17.1	17	-3.0	25	3	4	..	1	21	..
Herbert Forest 07/1982	61	11.0	-1.1	5.0	+0.2	16.0	17	-3.8	25	11	8	-51	3	29	..
Taiaroa Head 07/1982	72	9.0	4.0	6.5	-0.3	14.0	17	1.9	19	31	15	-17	8	18	..
Borland Burn 07/1982	183	6.6	-1.6	2.5	..	12.0	26	-4.0	16	121	..	..	26	17	..
Otama 07/1982	183	7.3	-1.2	3.1	..	12.7	31	-6.9	2	71	16	+23	20	14	..
Moa Creek 07/1982	427	..	..	..	..	..	..	..	..	14	5	-1	6	15	..
Nandi Airport, Fiji 07/1982	19	28.6	20.2	24.4	+0.8	31.5	29	16.4	15	127	12	..	56	18	148
Totokoitu, Rarotonga 06/1982	9	25.0	19.5	22.3	..	28.4	18	15.0	24	93	15	..	33	19	..
Raoul Island 06/1982	38	19.2	14.3	16.8	-0.5	22.5	17	11.0	29	181	18	+31	37	16	104
Campbell Island 04/1982	15	10.1	6.1	8.1	+1.0	11.9	27	0.4	8	79	24	-43	16	29	34
Campbell Island 05/1982	15	9.2	5.3	7.3	+1.2	13.9	7	-0.9	20	239	28	+99	106	22	11
Campbell Island 06/1982	15	7.9	3.9	5.9	+1.1	9.6	1	-0.1	27	57	28	-73	12	21	4
Campbell Island 07/1982	15	6.9	3.4	5.2	+0.6	9.3	26	-3.0	16	93	28	-14	15	30	13

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, SEPTEMBER 1982

*General*—September was generally dry with temperatures that were close to average.

Winds were lighter than normal in the north of the country, with the frequency of light winds at Auckland being the highest equal for September for the last 25 years. South-westerlies were infrequent in the north, this September having the lowest equal occurrence for the last 25 years. However, south-westerlies were more frequent than usual in the south this month, where there were also less strong winds than usual.

Farmers in the North Island reported an excellent season, with stock generally in good fettle apart from some isolated outbreaks of bloat in central and western districts. Feed is still short in eastern areas of the South Island which continue to be very dry. However the dry weather has meant very few lambing problems with virtually no deaths from cold or wet conditions.

A tornado near New Plymouth on the 19th caused minor damage to hangars at the airport and destroyed or damaged several farm outbuildings and homesteads further inland.

*Rainfall*—Extensive areas of the country had less rainfall than normal again this month. The east of the South Island from Kaikoura to Oamaru and inland, Central Otago and Fiordland had less than half their average rainfall with areas around Oamaru and Central Otago having less than 25 percent of their usual September amount. In contrast northern Westland, Nelson, and Blenheim had above average rainfall, with some parts of Nelson having more than twice their normal rain this month.

Although not as dry as the South Island most of the North Island was also drier than usual. The only areas to record normal or above normal totals were parts of Northland, Taranaki, the Gisborne-northern Hawkes Bay area and Wellington. The drier areas, mostly with between 40 and 75 percent of normal rainfall, included southern Hawkes Bay, Bay of Plenty-Rotorua and Waikato. However in most of these areas the rainfall was still sufficient to maintain pasture growth.

Drought conditions continue to be moderate to severe in many parts of Canterbury and North Otago as a consequence of the continuing low rainfall, and wind erosion of dry topsoil is becoming a problem in some areas.

*Temperatures*—Mean temperatures were normal or slightly below normal for most of the country this month. The only areas to have temperatures more than 1°C above average were the South Island high country and Cape Campbell. Most other areas were around 0.5°C below average.

The first three days of September were very cold with mean temperatures on the 2nd 5°C to 6°C colder than average and there were widespread frosts. There was a second very cool period between the 14th and 17th, with mean temperatures between 3°C and 6°C below average. Frosts were again widespread, especially in the south of the country.

There was a warm spell between the 23rd and 26th. Eastern districts were particularly mild, with maximum temperatures of 20°C or above being recorded at many East Coast stations in both Islands. Minimum (night-time) temperatures were as much as 8°C above normal during this period.

*Sunshine*—Sunshine totals were below normal in the North Island and the north and west of the South Island. Eastern and some southern areas of the South Island had more sun than usual. Among

## THE WEATHER SEQUENCE, SEPTEMBER 1982

those places with the greatest departures from normal this month were: Gisborne (-44 hours), New Plymouth (-33 hours), Blenheim (-26 hours), Taupo and Auckland (both -22 hours), Timaru (+23 hours), Christchurch (+19 hours), and Hanmer (+14 hours).

## 1-7 September

A front within a trough lying over New Zealand crossed the country on the 1st, bringing rain to most areas. The rain cleared as the trough moved eastward on the 2nd but temperatures were cool due to the following southerly flow. A ridge from an anticyclone near Lord Howe Island extended onto the country on the 3rd but by the 4th a complex trough had begun to move onto the South Island bringing widespread rainfall to all areas except those to the east during the 4th and 5th. Temperatures remained cool. There was a clearance on the 6th as the trough moved eastward and a ridge extended onto the South Island but a further trough brought rain to the north and west of both Islands on the 7th.

## 8-14 September

The frontal system associated with the trough continued to cross the country on the 8th with widespread rain although falls were light in eastern areas. The weather throughout this week was dominated by the passage of a series of fronts, bringing heavy rain to northern and western districts of both Islands on the 10th, to all districts except Southland and the east of the North Island on the 11th, to isolated northern and western districts on the 12th and to Northland on the 13th. There were some light falls in the North Island and east of the South Island on the 14th. Apart from the 10th and 11th, temperatures were cooler than usual throughout the week.

## 15-21 September

On the 15th an extensive anticyclone lay in the Tasman Sea, with its centre to the east of Tasmania. This moved slowly eastward over the country and the weather between the 15th and 17th was fine and cool, although there were isolated showers in some western areas of the South Island. By the 18th the centre of the anticyclone lay to the east of East Cape and a strong north-westerly flow associated with a trough moving into the Tasman Sea area brought rain to southern and western areas of the South Island and about New Plymouth. Rain became widespread in southern and western areas of both Islands on the 19th, central districts on the 20th and some northern areas on the 21st as a front within this trough moved up the country.

## 22-30 September

A ridge from an anticyclone centred near Tasmania extended onto the South Island on the 21st and by the 22nd this covered the country. The 22nd and 23rd were generally fine and mild with warm temperatures in eastern areas. A deep depression developed near Lord Howe Island on the 24th, and this moved onto the North Island on the 25th, bringing widespread and occasionally heavy rain during the 25th and 26th. At the same time a front within a disturbed westerly flow brought rain to southern and western areas of the South Island. There was further widespread rain on the 27th as a complex frontal system crossed the country. A small depression passing close to Northland caused showers in northern areas on the 28th and 29th and there were showers in western areas of the South Island as a front crossed this area on the 30th, but otherwise the weather during the last 3 days of the month was fine and cool.

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

J. S. HICKMAN, Director.

