



# SUPPLEMENT

TO THE

# NEW ZEALAND GAZETTE

OF

THURSDAY, 25 NOVEMBER 1982

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WELLINGTON: TUESDAY, 30 NOVEMBER 1982

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# CLIMATOLOGICAL TABLE FOR SEPTEMBER 1982

This supplement supercedes and replaces the  
Supplementary Gazette, No. 138, dated 18 November 1982





CLIMATOLOGICAL TABLE—Summary of the Records of Temperature, Rainfall, and Sunshine for September 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	°C	°C	mm	mm	mm	mm		
Stratford Mountain House	846	9.0	2.3	5.7	+0.0	12.7	24	-2.4	17	572	19	+11	140	25	
Stratford Dem. Farm	311	12.8	4.9	8.9	-0.2	16.2	23	-1.4	3	221	17	+38	59	4	
Manaia Dem. Farm	98	13.8	6.3	10.1	-0.1	17.8	24	-0.1	16	92	21	-5	36	27	
Normanby	122	13.4	6.0	9.7	..	16.6	24	-1.6	16	79	19	..	27	27	
Patea	43	14.0	7.7	10.9	-0.4	16.5	19	-2.0	3	88	11	+12	30	27	
Ruatiti	354	13.1	5.1	9.1	..	16.5	23	-3.5	16	187	19	..	32	25	
Ohakune Junction	629	11.5	3.3	7.4	..	14.5	25	-3.0	3	108	16	..	16	27	
Karioi	648	12.2	2.8	7.5	-0.1	17.8	25	-3.6	3	57	15	-32	12	1	
Waiouru	823	10.6	1.8	6.2	-0.2	14.5	30	-5.5	3	56	15	-30	11	1	
Waiouru Military Camp	823	10.2	1.9	6.1	+0.1	13.4	30	-5.8	3	56	15	-30	10	1	
Ahu Ahu Valley	85	15.2	5.2	10.2	..	18.9	23	-1.4	16	59	18	..	11	19	
Taihape	433	14.0	3.6	8.8	-0.2	17.5	24	-3.6	3	36	14	..	7	1	
Kahui, Taihape	518	12.8	4.5	8.7	-0.2	16.2	24	-1.3	3	40	9	..	10	5	
Patupa	24	..	..	..	..	..	..	..	..	..	..	..	..	..	
Wanganui	22	14.8	7.3	11.1	-0.2	18.7	11	1.2	16	36	13	-22	9	19	
Wanganui Airport	9	14.7	6.7	10.7	..	18.5	11	0.9	15	42	12	..	10	19	
Farewell Spit	3	14.7	6.7	10.7	-0.2	17.5	26	1.8	29	195	17	+104	56	4	
Totaranui	10	14.5	6.0	10.3	..	19.1	26	0.7	2	277	13	..	51	25	
Westport Airport	2	..	..	..	..	..	..	..	..	..	..	..	..	..	
Cobb Dam	823	10.4	0.5	5.5	-0.2	16.0	24	-3.4	2	298	18	+110	59	4	
Arapito	20	14.4	5.8	10.1	..	17.0	8	2.0	2	223	18	..	51	4	
Lake Rotoroa	443	12.7	2.3	7.5	..	16.5	24	-2.1	2	202	17	..	40	4	
Lake Rotoiti	634	12.4	0.8	6.6	+0.2	17.2	24	-5.0	2	163	15	+31	40	4	
Hokitika Airport	39	13.5	5.3	9.4	-0.2	15.8	21	0.4	28	282	17	+43	64	10	
Reefton	198	14.1	3.3	8.7	-0.2	18.0	26	-2.0	2	201	18	+26	57	10	
Barrytown	30	13.9	7.8	10.9	..	15.7	21	5.7	16	210	15	..	35	4	
Totara Flat	77	..	..	..	..	..	..	..	..	..	..	..	..	..	
Greymouth	4	13.6	5.9	9.8	-0.4	16.1	21	2.9	16	182	18	-19	33	4	
Otira Substation	383	12.2	2.4	7.3	..	16.0	21	-1.7	2	362	21	-110	84	4	
Springs Junction	421	..	..	..	..	..	..	..	..	..	..	..	..	..	
Hari Hari	45	..	..	..	..	..	..	..	..	..	..	..	..	..	
Franz Josef	122	13.3	4.1	8.7	-0.3	16.0	21	-1.0	2	326	16	-113	63	10	
Fox Glacier	152	13.0	4.5	8.8	..	15.1	21	0.2	1	344	18	-84	70	10	
Milford Sound	3	12.7	3.8	8.3	-0.3	15.7	12	-0.6	2	259	20	-279	70	18	
Puysegur Point	43	11.8	6.6	9.2	..	15.5	10	2.7	2	177	26	-14	47	29	
Stephens Island	187	12.0	8.7	10.4	..	14.6	26	4.0	13	75	14	+9	19	25	
Riwaka, Motueka	8	14.6	4.6	9.6	-0.4	19.8	26	0.4	2	175	13	+58	39	8	
Tapawera	146	15.3	2.9	9.1	..	20.8	23	-2.0	2	114	13	..	24	4	
Crail Bay Pelorus Sd	13	13.8	7.1	10.5	..	16.1	22	3.0	17	232	15	..	89	25	
Appleby	17	14.2	5.3	9.8	-0.5	19.0	26	1.0	2	113	11	+34	20	25	
Nelson Airport	2	14.1	4.9	9.5	-0.1	19.1	26	-0.3	2	120	13	+44	27	10	
Rai Valley	79	..	..	..	..	..	..	..	..	..	..	..	..	..	
Moutere Hills	110	13.7	6.5	10.1	-0.1	18.3	26	2.9	29	127	14	+38	26	10	
Blenheim Airport	27	14.8	4.3	9.6	-0.3	21.0	24	-1.3	2	78	11	+14	20	27	
Brancott Valley	64	15.0	3.1	9.1	..	21.0	23	-4.6	4	68	11	..	16	27	
Blenheim	4	15.5	4.3	9.9	-0.5	21.8	24	-1.0	2	60	12	+7	17	25	
Waihopai Power Station	262	14.5	3.3	8.9	-0.5	21.2	24	-1.0	16	110	13	+36	20	27	
Vernon Lagoons	2	15.0	3.9	9.5	-0.5	20.3	24	-1.8	16	44	11	..	15	25	
Lake Grassmere	2	14.1	6.5	10.3	+0.0	19.8	24	1.0	16	38	10	-5	14	27	
Cape Campbell	3	13.3	8.1	10.7	+0.8	16.3	5	4.8	22	46	9	-2	15	27	
Hanmer Forest	387	15.3	1.9	8.6	+0.5	21.5	24	-3.5	16	64	9	-25	19	11	
Molesworth	893	11.7	-0.4	5.7	-0.1	20.4	23	-5.5	3	45	9	-8	9	11	
Kaikoura Flats	24	13.5	3.7	8.6	..	21.6	19	-1.5	3	37	8	..	16	27	
Kaikoura	108	12.8	6.3	9.6	-0.2	21.3	19	3.3	28	22	9	-29	10	27	
Arthurs Pass	738	9.5	0.6	5.1	..	12.8	22	-4.5	16	274	16	-94	58	10	
Balmoral Forest	198	15.4	2.4	8.9	+0.4	22.6	23	-3.5	16	27	7	-19	13	27	
Waiau	137	..	..	..	..	..	..	..	..	..	..	..	..	..	
The Hermitage, Mt Cook	765	12.8	1.5	7.2	+0.8	21.5	23	-4.2	2	158	17	-172	33	10	
Mt John	1027	10.1	1.9	6.0	+0.7	18.7	23	-3.5	2	21	7	-25	16	11	
Craigieburn Forest	914	11.3	0.1	5.7	+0.3	17.6	24	-4.3	16	114	18	-23	21	10	
Lake Coleridge	364	14.6	2.4	8.5	+0.2	23.0	23	-2.3	16	46	13	-28	14	11	
Highbank Power Station	336	12.8	4.1	8.5	-0.3	21.4	23	0.7	29	68	9	+2	27	20	
Hororata Substation	192	14.2	1.6	7.9	-0.6	21.3	23	-3.2	29	35	11	-18	10	11	
Winchmore	160	13.6	3.2	8.4	+0.0	20.7	23	-2.7	3	39	10	-12	15	11	
Peel Forest	274	13.6	2.2	7.9	..	21.3	23	-3.0	2	71	15	..	35	11	
Ashburton	101	..	3.0	..	..	..	..	-2.1	3	25	6	-26	11	11	
Waipara	64	15.0	3.5	9.3	..	20.8	25	-1.5	17	24	8	..	8	27	
Ashley Forest	107	13.6	3.6	8.6	-0.6	20.2	19	-0.9	3	28	8	-25	9	27	
Rangiora	46	14.7	2.3	8.5	-0.6	22.4	25	-3.2	3	24	9	-14	8	8	
Darfield	195	15.0	3.0	9.0	-0.1	22.3	23	-1.0	2	34	9	-22	10	8	
Eyrewell Forest	158	..	..	..	..	..	..	..	..	..	..	..	..	..	
Christchurch Airport	30	14.1	2.8	8.5	-0.6	22.5	25	-3.7	16	21	9	-22	7	8	
Templeton	46	13.8	3.1	8.5	..	22.0	25	-3.2	16	22	8	..	9	8	
Christchurch	7	..	..	..	..	..	..	..	..	..	..	..	..	..	
Bromley, Christchurch	9	13.7	5.5	9.6	-0.1	20.4	19	-0.8	16	25	11	-18	12	8	
Mt Pleasant	137	13.6	6.2	9.9	+0.0	19.2	19	2.8	16	36	9	-10	12	8	
Lincoln	11	13.6	3.7	8.7	-0.2	20.1	25	-3.6	16	21	7	-25	10	8	

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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	
Akaroa	3	14.8	3.6	9.2	..	21.0	23	-0.5	17	39	8	8	2	..	
Lake Tekapo	683	12.4	1.2	6.8	-0.2	20.5	23	-4.5	28	18	7	-38	13	11	
Lake Pukaki	556	12.7	1.9	7.3	+0.8	19.2	23	-3.5	2	25	6	..	10	14	
Fairlie	304	15.0	0.4	7.7	..	24.7	23	-3.7	2	31	6	..	14	11	
Twizel	457	14.0	-0.3	6.9	+0.0	22.5	23	-6.0	2	19	7	..	5	14	
Ikawai	70	13.9	1.2	7.6	-0.9	22.0	23	-3.5	28	13	6	..	4	8	
Geraldine	119	13.9	2.2	8.1	..	21.8	23	-2.7	3	45	11	..	21	11	
Orari Estate	81	13.6	2.4	8.0	-0.7	20.2	19	-2.0	2	35	8	-18	16	11	
Temuka	24	13.7	2.4	8.1	-0.6	28.4	22	-2.0	2	33	8	-13	16	11	
Timaru Airport	26	13.0	2.3	7.7	-0.6	21.0	19	-2.5	2	15	8	-26	4	14	
Adair	85	12.8	4.1	8.5	-0.2	20.1	19	-0.5	16	18	12	-23	4	11	
Timaru	17	12.6	4.1	8.4	-0.8	18.7	19	-1.0	16	12	9	-29	4	27	
Waimate	61	13.6	3.7	8.7	-0.7	20.7	19	-0.5	28	14	8	-32	5	11	
Kurow	207	14.6	3.0	8.8	..	24.0	23	-2.1	28	15	14	..	6	7	
Oamaru Airport	30	12.6	3.1	7.9	-0.4	17.2	19	-1.0	28	9	8	-29	2	11	
Tara Hills, Oamarua	488	13.7	0.9	7.3	+0.3	22.3	23	-4.9	28	7	5	-29	4	7	
Lake Hawea	350	12.9	3.3	8.1	-0.2	17.2	23	-2.3	28	15	7	-56	5	10	
Wanaka	296	14.2	2.4	8.3	+0.0	18.2	23	-3.6	2	16	7	-45	6	10	
Queensberry	277	14.1	3.1	8.6	..	20.8	23	-3.2	28	10	9	..	5	18	
Bendigo	200	14.7	2.6	8.7	..	21.0	23	-3.7	28	5	9	..	1	10	
Naseby Forest	610	13.1	-0.3	6.4	+0.3	20.0	23	-4.1	17	41	8	+3	9	13	
Windsor	88	..	..	..	..	..	..	..	..	..	..	..	..	..	
Oamaru	5	12.7	3.6	8.2	..	17.9	19	-1.5	16	11	10	..	2	19	
Ranfurly	427	12.8	0.7	6.8	..	20.1	23	-4.9	28	15	11	..	5	25	
Herbert Forest	61	13.9	2.0	8.0	+0.0	20.1	18	-2.0	28	18	10	-33	4	7	
Palmerston	21	13.7	1.3	7.5	-0.4	19.5	18	-3.9	16	12	8	..	4	5	
Cherry Farm Hospital	6	13.5	2.3	7.9	-0.4	20.2	18	-2.0	28	18	13	-18	4	1	
Taiaroa Head	72	..	..	..	..	..	..	..	..	..	..	..	..	..	
Invermay, Taieri	30	13.5	3.0	8.3	..	20.4	18	-1.5	16	34	16	..	11	5	
Berwick Forest	18	14.3	1.8	8.1	-0.2	20.7	23	-2.2	16	60	12	+17	20	26	
Dunedin Airport	1	14.0	2.1	8.1	-0.3	20.2	25	-3.8	16	30	12	-8	7	5	
Musselburgh, Dunedin	2	12.3	5.7	9.0	-0.2	18.0	25	1.8	16	32	13	-16	8	5	
Te Anau	215	..	..	..	..	..	..	..	..	..	..	..	..	..	
West Arm, Manapouri	232	..	..	..	..	..	..	..	..	..	..	..	..	..	
Borland Burn	183	..	..	..	..	..	..	..	..	..	..	..	..	..	
Queenstown	329	13.6	3.2	8.4	+0.3	20.1	23	-1.2	2	12	6	-64	5	18	
Queenstown Airport	349	12.4	1.3	6.9	-0.5	18.0	23	-3.3	28	10	4	-47	3	1	
Otama	183	..	..	..	..	..	..	..	..	..	..	..	..	..	
Cromwell	213	14.5	1.8	8.2	-0.6	21.3	23	-3.9	28	5	9	-23	1	10	
Northburn	210	14.7	2.3	8.5	..	21.7	23	-3.5	28	5	11	..	1	10	
Lauder	370	13.0	1.9	7.5	..	20.7	23	-3.4	28	21	11	..	4	1	
Clyde Dam	160	14.8	2.3	8.6	..	23.2	23	-2.3	2	5	9	..	1	11	
Ophir	305	13.7	0.0	6.9	-0.6	21.9	23	-6.0	28	16	8	-12	3	25	
Moa Creek	427	..	..	..	..	..	..	..	..	..	..	..	..	..	
Earnsclough	152	15.2	1.2	8.2	+0.0	23.5	23	-4.4	2	6	7	-17	3	1	
Roxburgh Power Station	110	..	..	..	..	..	..	..	..	..	..	..	..	..	
Deep Stream	396	..	..	..	..	..	..	..	..	..	..	..	..	..	
Beaumont	46	14.4	2.0	8.2	..	21.5	23	-2.1	21	42	12	-22	10	10	
Mahinerangi Dam	396	11.1	1.2	6.2	-0.1	17.0	23	-3.0	16	44	12	-12	11	1	
Tapanui	226	12.7	3.0	7.9	-0.6	18.2	23	-1.2	13	56	14	+0	16	5	
Taieri Mouth	15	12.4	3.7	8.1	+0.1	19.0	18	0.2	16	26	11	-17	6	5	
Tuatapere	27	13.6	3.1	8.4	..	18.5	23	-1.5	16	36	12	..	7	13	
Otautau	55	13.5	2.3	7.9	-0.3	19.5	23	-2.7	16	32	15	-44	5	13	
Winton	44	13.2	2.8	8.0	-0.5	18.5	24	-1.5	16	50	15	-1	25	11	
Gore	123	12.8	3.6	8.2	+0.1	18.1	24	-0.5	16	36	18	..	5	26	
Hokonui Forest	46	13.1	2.5	7.8	-0.8	18.9	26	-2.6	16	35	13	-31	9	26	
Woodlands	47	13.4	3.5	8.5	+0.3	19.1	24	-2.1	16	46	22	..	7	11	
Invercargill Airport	0	12.8	3.5	8.2	+0.0	17.9	24	-1.9	16	52	16	-22	8	19	
Tiwai Point, Bluff	5	12.7	5.4	9.1	+0.3	17.7	24	0.5	16	42	15	..	7	11	
Stewart Island	3	11.7	4.4	8.1	..	15.0	24	-0.4	16	45	25	..	8	26	
Milton	18	13.7	2.6	8.2	+0.0	19.6	18	-2.5	16	37	13	-6	11	5	
Finegand, Balclutha	6	14.4	2.5	8.5	+0.3	20.1	23	-1.4	16	25	13	..	5	10	
Owaka	5	13.1	2.4	7.8	..	19.0	23	-3.1	16	41	16	..	7	18	
Nugget Point	129	11.7	4.8	8.3	+0.6	16.2	18	2.2	27	42	16	-11	8	5	
Tautuku	61	..	..	..	..	..	..	..	..	..	..	..	..	..	
Nandi Airport, Fiji	19	28.6	17.1	22.9	-1.7	31.3	30	13.5	1	10	3	..	6	17	
Rarotonga Airport	7	24.2	17.6	20.9	-1.2	26.0	3	13.3	24	59	14	-50	12	3	
Totokoitu, Rarotonga	9	24.1	17.8	21.0	..	29.1	1	13.7	23	75	16	..	13	3	
Raoul Island	38	19.0	13.4	16.2	-0.1	22.5	30	10.0	17	81	17	-36	45	26	
Campbell Island	15	8.3	3.7	6.0	+0.5	10.0	9	-0.4	30	94	27	-8	17	7	
Waitangi, Chatham Island	44	11.2	6.5	8.9	-0.2	14.1	12	1.6	29	22	17	-39	6	11	
Scott Base, Antarctica	16	-24.4	-38.1	-31.3	-3.1	-10.6	30	-49.3	6	..	..	..	..	..	

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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	°C	mm	mm	mm	Hrs			
LATE RETURNS AND CORRECTIONS															
Kerikeri M A F 08/1982	79	15.4	6.5	11.0	..	17.1	23	2.8	20	24	14	..	13	25	..
Kerikeri Downs 08/1982	79	15.3	6.6	11.0	..	17.2	21	3.6	20	21	13	..	12	25	..
Dargaville 07/1982	20	14.6	5.4	10.0	-0.6	19.0	20	-2.2	25	123	18	-9	45	28	137
Dargaville 08/1982	20	15.1	7.0	11.1	+0.2	17.4	13	0.0	17	52	19	-85	9	18	142
Port Fitzroy 08/1982	4	15.5	7.8	11.7	-0.3	17.6	12	3.2	19	33	18	-180	7	12	..
Tarawera Forest 07/1982	61	12.7	0.6	6.7	-0.7	17.4	31	-5.2	12	104	11	-117	42	28	..
Tarawera Forest 08/1982	61	15.0	2.2	8.6	+0.1	18.2	22	-2.5	4	39	9	-177	10	5	..
Opotiki 08/1982	6	14.7	4.4	9.6	-0.5	17.6	12	-0.7	19	38	13	-102	13	5	179
Pukekohe 07/1982	82	13.0	4.7	8.9	-0.6	16.9	31	-1.0	11	85	16	..	14	14	137
Pukekohe 08/1982	82	14.2	5.9	10.1	-0.1	15.8	27	0.8	19	39	25	..	7	1	136
Huntly 08/1982	34	14.5	5.5	10.0	..	17.4	1	0.0	17	50	..	..	11	5	..
Hamilton Airport 08/1982	50	14.8	3.0	8.9	-0.1	17.9	30	-2.5	19	53	15	-64	12	5	..
Omata 08/1982	61	14.2	7.0	10.6	-0.1	16.0	14	2.5	19	62	19	..	12	17	..
Chateau, Mt Ruapehu 08/1982	1119	7.2	-1.7	2.8	-0.4	11.3	27	-5.7	18	173	22	-78	42	2	..
Kapiti Island 05/1982	16	13.8	9.7	11.8	+0.0	17.0	9	6.9	27	115	16	+11	46	14	..
Kapiti Island 06/1982	16	11.0	7.8	9.4	-0.5	15.9	3	5.3	9	119	16	+12	41	25	..
Wharite Peak 07/1982	914	4.5	1.1	2.8	-0.1	8.5	30	-3.4	15	127	22	-66	41	20	..
Wharite Peak 08/1982	914	5.0	1.4	3.2	-0.5	7.7	5	-2.7	19	89	..	-96	..	..	..
Kairanga Palmerston North 08/1982	15	13.2	3.8	8.5	-0.1	15.2	23	-3.7	17	38	15	..	14	17	133
Palmerston North D S I R 08/1982	34	13.0	4.9	9.0	-0.1	15.5	23	-1.5	19	53	15	-31	17	1	119
Wellington Airport 08/1982	6	13.0	6.7	9.9	+0.3	16.0	20	2.0	12	47	10	-55	23	25	..
Patupa 08/1982	24	14.4	4.4	9.4	..	16.8	22	-1.5	19	52	..	..	11	1	..
Totara Flat 09/1981	77	14.1	3.9	9.0	-0.5	17.4	21	-1.3	28	165	15	-3	35	4	..
Hari Hari 08/1982	45	12.3	2.4	7.4	+0.3	15.0	20	-3.5	27	286	17	+17	42	1	..
Franz Josef 07/1982	122	11.3	-0.3	5.5	-1.2	16.5	28	-2.0	4	223	10	-120	60	30	..
Franz Josef 08/1982	122	11.5	2.5	7.0	-0.6	14.5	27	-1.5	19	502	17	+121	65	13	..
Tapawera 08/1982	146	13.9	1.3	7.6	..	16.6	20	-3.7	19	56	11	..	20	1	..
Moutere Hills 08/1982	110	13.6	5.7	9.7	+1.2	16.6	20	1.2	19	37	9	-67	15	25	..
Waiiau 08/1982	137	14.8	2.1	8.5	..	19.0	9	-4.1	17	27	9	..	9	17	..
Mt John 08/1982	1027	8.1	0.4	4.3	+1.6	12.7	30	-7.5	18	51	10	+13	17	25	..
Craigieburn Forest 02/1982	914	21.5	8.4	15.0	+1.5	28.8	9	-0.5	6	68	14	-36	23	23	..
Craigieburn Forest 03/1982	914	19.0	8.1	13.6	+2.1	23.3	8	2.1	24	21	11	-81	9	30	..
Craigieburn Forest 04/1982	914	12.6	1.4	7.0	-1.3	17.9	7	-1.7	5	67	11	-55	19	8	..
Craigieburn Forest 05/1982	914	10.6	0.8	5.7	+0.8	15.0	19	-3.5	26	187	14	+50	41	19	..
Craigieburn Forest 06/1982	914	6.7	-2.1	2.3	-0.1	13.8	1	-5.6	15	94	12	-18	32	24	..
Craigieburn Forest 08/1982	914	9.3	-1.3	4.0	+0.9	13.6	21	-5.4	19	125	20	+1	39	31	..
Winchmore 08/1982	160	14.1	2.6	8.4	+2.2	19.1	24	-2.7	16	32	8	-29	12	17	..
Ashley Forest 08/1982	107	13.8	2.9	8.4	+1.2	20.1	24	-1.5	17	30	7	-44	12	17	173
Templeton 08/1982	46	14.0	2.3	8.2	..	19.8	24	..	..	20	6	..	7	25	..
Lake Pukaki 08/1982	556	9.9	-0.4	4.8	+1.3	15.3	21	-5.0	18	51	17	..	14	25	..
Twizel 08/1982	457	10.9	-2.4	4.3	+0.2	16.7	30	-6.5	18	54	14	..	18	25	..
Kurow 07/1982	207	9.0	-1.0	4.0	..	14.0	17	-5.0	6	3	4	..	2	13	..
Kurow 08/1982	207	13.9	3.1	8.5	..	18.7	10	-2.6	16	12	12	..	6	25	..
Lake Hawea 08/1982	350	10.9	1.1	6.0	+0.4	14.5	10	-3.1	18	98	13	+40	24	25	..
Windsor 08/1982	88	14.1	2.7	8.4	..	20.5	21	-3.7	13	11	4	..	6	22	..
Berwick Forest 08/1982	18	13.8	1.3	7.6	+1.3	20.6	24	-3.2	16	45	15	+4	10	17	..
West Arm, Manapouri 08/1982	232	8.3	3.0	5.7	+1.2	10.3	24	-2.0	2	471	27	..	92	30	..
Borland Burn 08/1982	183	..	..	..	..	..	..	..	..	126	..	..	..	..	..
Deep Stream 07/1982	396	7.5	-3.2	2.2	..	12.6	28	-11.1	3	69	11	..	32	15	..
Deep Stream 08/1982	396	10.5	0.2	5.4	..	16.4	24	-6.9	16	34	11	..	11	17	..
Finegand, Balclutha 08/1982	6	12.2	1.8	7.0	+0.9	18.4	24	-3.6	16	42	14	..	12	31	..
Totokoitu, Rarotonga 07/1982	9	24.4	18.9	21.7	..	28.0	3	15.3	27	201	21	..	42	2	..
Totokoitu, Rarotonga 08/1982	9	23.8	18.4	21.1	..	26.8	20	15.0	24	178	15	..	54	30	..

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 rainy day 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.

