



SUPPLEMENT

TO THE

NEW ZEALAND GAZETTE

OF

THURSDAY, 13 AUGUST 1981

Published by Authority

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CLIMATOLOGICAL TABLE FOR JUNE 1981

CLIMATOLOGICAL TABLE—Summary of the Records of Temperature, Rainfall, and Sunshine for June 1981—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	B			Maxi- mum	Date	Mini- mum	Date				Amount	Date	
		Max.	Min.	°C	°C	°C	°C	°C	°C	mm	mm	mm	mm	Hrs	
Manaia Dem. Farm	98	13.5	6.8	10.2	+1.0	19.5	2	-0.3	25	159	26	+14	21	28	78
Normanby	122	12.9	7.7	10.3	..	17.4	2	0.9	25	171	25	..	28	28	..
Patea	43	13.9	8.2	11.1	+1.2	19.0	2	0.0	25	186	22	+74	34	4	..
Ohakune Junction	629	10.2	4.3	7.3	..	14.6	3	-3.3	26	222	24	..	40	28	..
Karioi	648	10.7	3.7	7.2	+1.7	15.5	3	-4.1	26	162	23	+35	35	28	..
Waiouru	823	9.8	3.1	6.5	+2.2	16.0	2	-5.0	25	106	24	-16	30	28	..
Waiouru Military Camp	823	9.1	3.4	6.3	+2.3	15.8	3	-4.6	25	152	24	+30	37	28	..
Ahu Ahu Valley	85	13.4	5.4	9.4	..	18.1	3	-0.8	26	142	23	..	30	28	..
Taihape	433	12.0	3.8	7.9	+1.5	18.5	3	-5.8	26	121	24	..	25	28	..
Kahui, Taihape	518	11.3	4.3	7.8	+1.0	17.5	3	-2.8	26	118	19	..	29	28	..
Wanganui	22	14.1	7.5	10.8	+1.3	19.5	2	1.2	25	97	21	+6	17	4	62
Wanganui Airport	9	14.3	7.1	10.7	..	19.3	2	1.5	25	100	22	..	16	4	..
Farewell Spit	3	13.6	7.5	10.6	+1.2	16.5	15	1.8	21	140	20	+23	25	14	..
Totaranui	10	13.6	6.3	10.0	..	17.3	14	1.6	11	182	14	..	35	2	..
Westport Airport	2	13.5	6.6	10.1	+1.4	17.7	14	1.6	22	289	18	+101	45	2	79
Cobb Dam	823	8.1	1.0	4.6	+0.7	12.7	2	-3.5	10	250	20	+54	62	13	..
Arapito	20	13.7	6.3	10.0	..	18.0	2	0.6	22	239	16	..	32	16	73
Karamea	5	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Lake Rotoroa	443	9.5	2.0	5.8	..	13.0	3	-3.8	11	184	18	..	38	2	..
Lake Rototiti	634	8.8	1.1	5.0	+1.7	12.4	1	-5.8	24	135	14	-7	25	26	..
Hokitika Airport	39	13.1	4.9	9.0	+1.5	18.1	14	-0.6	11	363	16	+134	103	2	91
Reefton	198	10.3	2.3	6.3	+1.5	16.2	2	-5.3	10	234	18	+64	65	2	..
Barrytown	30	13.6	8.7	11.2	..	18.0	14	4.1	18	337	19	..	69	2	..
Totara Flat	77	11.1	2.5	6.8	+1.0	15.4	2	-3.7	12	208	16	+45	40	4	..
Greymouth	4	12.8	6.2	9.5	+1.2	17.0	14	-0.4	9	322	16	+126	76	2	70
Otira Substation	383	9.7	..	..	..	15.0	2	..	..	478	15	+107	182	2	..
Springs Junction	421	9.4	1.6	5.5	..	14.2	3	-5.8	12	237	14	+59	77	2	..
Hari Hari	45	..	2.8	..	..	..	..	-4.0	9	492	15	+238	255	2	..
Franz Josef	122	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Fox Glacier	152	12.8	3.8	8.3	..	17.4	14	0.1	23	514	14	+197	280	2	..
Milford Sound	3	9.4	2.3	5.9	+0.2	14.6	2	-1.6	10	447	12	+28	94	26	..
Puysegur Point	43	11.3	6.0	8.7	..	16.4	26	2.3	18	177	16	-34	37	28	..
Stephens Island	187	11.9	..	..	..	15.5	2	..	..	78	17	+2	15	15	..
Riwaka, Motueka	8	12.9	3.3	8.1	+0.6	16.4	14	-1.8	24	123	15	+4	31	26	88
Tapawera	146	12.0	1.6	6.8	..	15.1	3	-4.9	10	109	15	..	19	13	..
Appleby	17	13.1	4.1	8.6	+0.8	17.4	14	-0.5	10	94	12	+13	37	26	..
Nelson Airport	2	13.0	3.5	8.3	+1.3	16.4	14	-1.6	11	103	13	+24	35	26	102
Rai Valley	79	12.8	4.6	8.7	+2.4	17.4	4	-3.3	11	176	11	+13	45	2	..
Moutere Hills	110	12.6	6.3	9.5	+1.2	16.9	14	1.4	19	93	12	-1	32	26	..
Blenheim Airport	27	13.5	3.4	8.5	+1.5	19.4	2	-2.7	23	65	9	+4	15	26	..
Blenheim	4	13.7	3.6	8.7	+1.3	18.9	3	-2.1	24	54	13	-4	12	26	92
Waihopai Power Station	262	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Vernon Lagoons	2	13.6	3.2	8.4	+1.4	19.1	3	-2.3	25	57	11	..	9	7	84
Lake Grassmere	2	12.5	7.0	9.8	+2.1	20.9	3	1.6	25	89	12	+38	27	6	94
Cape Campbell	3	12.5	8.3	10.4	+1.4	17.2	3	4.5	25	93	17	+27	40	7	..
Hammer Forest	387	10.3	1.4	5.9	+1.7	19.5	2	-4.0	25	84	13	-15	25	7	40
Molesworth	893	7.7	-0.8	3.5	+1.2	16.2	3	-7.5	25	59	9	+11	16	14	..
Kaikoura Flats	24	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Kaikoura	108	11.7	6.8	9.3	+0.9	23.6	2	3.6	7	115	17	+49	31	7	60
Arthurs Pass	738	6.6	-0.1	3.3	..	12.6	2	-5.6	12	295	16	+5	179	2	..
Balmoral Forest	198	11.6	2.9	7.3	+2.4	19.5	3	-4.5	25	50	17	-1	15	4	..
Hawarden	244	11.4	3.0	7.2	..	19.5	3	-4.6	25	50	11	..	14	13	..
Waiau	137	11.9	2.7	7.3	..	21.9	3	-4.2	25	87	14	..	16	4	..
The Hermitage, Mt Cook	765	7.0	-1.0	3.0	+0.1	14.5	3	-5.3	10	415	18	+164	224	2	55
Mt John	1027	6.2	-1.0	2.6	+0.1	15.0	3	-5.0	10	93	..	+52	61	2	..
Craigieburn Forest	914	6.9	-0.1	3.4	+1.0	15.5	3	-4.0	11	91	13	-21	29	26	..
Lake Coleridge	364	10.1	1.5	5.8	+1.4	18.3	3	-3.0	25	110	17	+39	49	2	..
Highbank Power Station	336	9.9	2.9	6.4	+0.0	19.0	3	-1.0	25	85	17	+24	20	4	63
Hororata Substation	192	11.1	2.1	6.6	+1.7	21.6	3	-4.0	25	85	19	+29	26	14	..
Winchmore	160	10.6	2.8	6.7	+1.5	18.6	3	-2.8	25	84	15	+28	20	14	..
Peel Forest	274	9.9	1.1	5.5	..	18.0	3	-4.1	25	89	19	..	27	13	..
Ashburton	101	11.1	3.3	7.2	+1.4	18.0	27	-3.7	25	80	16	+24	19	14	67
Waipara	64	12.3	2.6	7.5	..	20.5	3	-2.3	2	56	..	..	13	14	..
Ashley Forest	107	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Rangiora	46	11.4	3.4	7.4	+1.5	21.6	3	-3.9	25	100	19	+59	34	14	..
Darfield	195	10.7	3.2	7.0	+1.5	21.0	3	-2.1	25	105	17	+47	33	14	..
Eyrewell Forest	158	11.1	2.7	6.9	+1.6	21.1	3	-4.5	25	114	14	+56	34	13	..
Christchurch Airport	30	11.5	2.8	7.2	+1.3	21.5	3	-4.5	25	114	17	+58	34	12	65
Templeton	46	11.3	3.6	7.5	..	21.5	3	-2.5	25	70	15	..	25	12	..
Christchurch	7	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Bromley, Christchurch	9	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Mt Pleasant	137	11.6	6.3	9.0	+0.9	21.5	3	2.0	6	84	17	+18	22	21	..
Lincoln	11	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Akaroa	3	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Lake Tekapo	683	..	-0.8	-6.0	25	103	11	+55	72	2	85
Lake Pukaki	556	..	-0.7	-5.8	25	110	14	..	60	2	..
Fairlie	304	9.8	-0.6	4.6	..	18.4	3	-6.6	25	73	9	..	18	4	..

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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			
Twizel	457	7.4	-1.6	2.9	+1.1	17.4	3	-8.0	25	98	12	..	52	2	..
Ikawai	70	10.6	1.6	6.1	+1.0	19.0	3	-4.0	25	106	12	..	47	14	..
Geraldine	119	10.7	2.1	6.4	..	17.2	3	-3.4	25	70	15	..	18	4	..
Orari Estate	81	10.2	1.9	6.1	+1.5	15.8	20	-3.5	25	76	18	+33	22	14	..
Temuka	24	11.0	2.2	6.6	+1.2	17.0	3	-2.2	23	72	12	+34	20	14	..
Timaru Airport	26	10.6	1.6	6.1	+0.8	15.6	3	-3.2	25	54	12	+18	18	14	..
Adair	85	11.0	3.6	7.3	+0.8	16.4	16	-0.7	25	80	14	+44	25	14	..
Timaru	17	10.2	3.4	6.8	+0.9	13.9	16	-1.0	10	73	15	+37	22	14	73
Waimate	61	11.3	3.1	7.2	+0.6	16.7	3	-2.3	26	108	11	+67	53	14	..
Kurow	207	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Oamaru Airport	30	10.6	3.3	7.0	+1.3	15.3	27	-1.1	25	57	15	+24	18	14	71
Tara Hills, Omarama	488	7.5	-1.0	3.3	+1.0	15.9	3	-6.6	25	71	10	+41	35	2	85
Lake Hawea	350	8.2	1.0	4.6	+0.4	15.7	3	-3.7	9	78	10	+20	34	2	..
Wanaka	296	8.6	-0.6	4.0	+0.2	17.0	3	-5.2	9	57	12	+6	16	2	..
Queensberry	277	7.9	-0.6	3.7	..	16.8	3	-6.5	12	50	14	..	12	4	..
Bendigo	200	8.3	-1.4	3.5	..	17.6	3	-5.9	10	43	15	..	13	4	..
Naseby Forest	610	6.6	-2.4	2.1	-0.1	14.5	3	-7.4	9	39	10	+1	18	4	..
Ranfurly	427	8.3	-1.4	3.5	..	15.1	3	-6.5	10	21	9	..	8	2	77
Herbert Forest	61	11.2	2.8	7.0	+1.4	17.4	3	-2.8	25	135	14	+95	50	14	..
Palmerston	21	10.9	2.0	6.5	+1.3	19.5	3	-4.9	25	110	17	..	36	14	66
Cherry Farm Hospital	6	10.9	3.2	7.1	+1.0	15.8	3	-1.5	18	90	16	+37	28	2	..
Taiaroa Head	72	10.0	6.1	8.1	+0.7	15.0	3	2.6	6	66	18	+8	22	2	..
Invermay, Taieri	30	10.1	2.3	6.2	..	14.9	3	-3.9	25	76	17	..	27	2	72
Berwick Forest	18	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Dunedin Airport	1	10.4	1.0	5.7	+0.8	15.8	3	-5.6	25	52	18	-1	26	2	77
Musselburgh, Dunedin	2	10.0	4.9	7.5	+0.7	14.2	3	0.0	25	142	18	+76	35	14	71
Te Anau	215	8.8	1.3	5.1	+0.6	14.5	3	-4.2	9	76	11	-33	19	4	86
West Arm, Manapouri	232	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Borland Burn	183	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Queenstown	329	8.7	1.0	4.9	+0.6	16.4	3	-2.9	9	58	12	-8	16	2	76
Queenstown Airport	349	8.1	-0.9	3.6	+0.5	15.1	3	-5.0	25	59	13	+7	17	2	..
Otama	183	7.7	0.2	4.0	..	15.3	3	-7.3	10	55	15	-11	20	2	..
Cromwell	213	7.6	-2.0	2.8	-0.7	17.2	3	-7.3	12	46	13	+18	11	4	82
Northburn	210	8.2	-1.2	3.5	..	17.9	3	-5.8	9	46	17	..	12	4	..
Clyde Dam	160	8.3	-0.9	3.7	..	15.7	3	-4.5	26	51	13	..	15	4	..
Ophir	305	8.6	-3.4	2.6	+0.3	17.2	3	-9.8	12	45	9	+20	19	4	..
Moa Creek	427	..	..	..	..	..	..	..	..	45	8	+22	19	4	..
Earnsclough	152	8.8	-2.3	3.3	+0.5	17.9	30	-7.2	12	48	14	+25	14	4	..
Alexandra	141	9.0	-1.5	3.8	+0.5	16.9	30	-5.9	12	48	10	+28	15	4	84
Roxburgh Power Station	110	9.4	1.1	5.3	+0.4	16.0	3	-4.5	7	33	7	-3	14	4	..
Beaumont	46	8.3	-0.2	4.1	..	13.8	30	-4.6	10	77	14	-17	25	2	..
Mahinerangi Dam	396	8.0	1.7	4.9	+1.0	14.5	3	-3.5	25	69	19	-10	32	2	..
Tapanui	226	9.6	1.6	5.6	+0.4	16.0	3	-3.6	8	67	15	-22	23	2	..
Taiari Mouth	15	10.4	3.7	7.1	+0.9	16.0	3	-1.6	7	52	13	-19	25	2	..
Tuatapere	27	10.0	1.6	5.8	..	16.6	3	-3.9	7	79	14	..	24	2	..
Otautau	55	8.7	-0.5	4.1	-1.4	17.0	3	-6.8	10	107	15	-5	31	2	62
Winton	44	9.2	0.5	4.9	-0.8	14.9	3	-6.5	10	75	15	+1	29	2	95
Gore	123	8.7	1.8	5.3	+0.8	16.4	3	-3.7	8	60	15	..	16	2	88
Hokonui Forest	46	9.4	1.7	5.6	+0.2	15.5	3	-4.1	25	79	15	-12	28	2	..
Woodlands	47	9.7	2.0	5.9	+0.2	15.6	3	-2.6	9	92	24	..	24	2	..
Invercargill Airport	0	9.8	0.5	5.2	-0.3	14.4	14	-5.9	10	88	17	-19	21	2	87
Tiwai Point, Bluff	5	10.2	3.1	6.7	+0.0	14.8	14	-1.8	11	76	19	..	18	18	..
Stewart Island	3	9.9	4.0	7.0	..	13.3	14	-1.9	25	142	25	..	32	3	..
Milton	18	10.2	1.3	5.8	+0.9	15.8	3	-4.9	7	51	16	-15	23	2	..
Finegand, Balclutha	6	10.3	1.8	6.1	+0.8	17.3	3	-3.5	7	71	19	..	26	2	72
Owaka	5	10.1	2.4	6.3	..	14.4	3	-5.0	7	78	21	..	22	2	..
Nugget Point	129	9.2	4.7	7.0	+1.0	12.6	3	-1.0	6	71	21	-15	22	2	..
Tautuku	61	10.1	4.0	7.1	..	14.4	1	-0.7	25	92	22	..	26	2	..
Nandi Airport, Fiji	19	28.8	18.4	23.6	-0.7	31.0	6	16.5	18	73	4	..	49	21	240
Rarotonga Airport	7	25.9	20.9	23.4	+1.0	28.2	23	17.5	13	30	8	-67	7	4	132
Totokoitu, Rarotonga	9	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Raoul Island	38	20.6	15.2	19.1	+1.8	23.2	15	11.6	20	191	22	+41	29	23	136
Campbell Island	15	7.5	4.7	6.1	+1.3	10.1	26	-2.1	1	113	21	-17	36	15	21
Waitangi, Chatham Island	44	11.6	7.5	9.6	+0.9	14.9	3	1.7	7	186	26	+92	40	17	28
Scott Base, Antarctica	16	-16.2	-29.1	-22.6	+3.6	-5.3	20	-41.6	16	..	..	..	..	..	..
LATE RETURNS AND CORRECTIONS															
Dargaville 05/1981	20	18.1	8.2	13.2	-0.3	22.7	9	0.0	25	147	16	+15	69	7	158
Huntly 05/1981	34	16.8	7.9	12.4	..	22.6	9	2.8	17	46	..	..	10	13	..
Lower Retaruke 01/1981	223	25.6	12.4	19.0	+2.1	29.9	15	4.5	9	56	13	..	11	15	..
Waingawa, Masterton 05/1981	114	14.7	5.6	10.2	+0.1	23.0	10	-0.5	14	168	15	+66	90	20	124
Wharite Peak 04/1981	914	12.6	..	..	..	16.2	16	..	..	119	20	-31	29	11	..
Wharite Peak 05/1981	914	8.5	3.8	6.2	+0.5	16.2	8	0.0	14	243	19	+47	65	19	..
Hari Hari 05/1981	45	15.7	1.8	8.8	+0.2	21.0	8	-3.0	29	147	12	-178	55	10	..
Franz Josef 05/1981	122	14.8	3.4	9.1	-0.3	20.0	9	-1.0	28	228	10	-183	51	10	..
Balmoral Forest 05/1981	198	13.7	1.3	7.5	-0.2	24.0	8	-5.0	29	48	10	-13	17	19	..

CLIMATOLOGICAL TABLE—Summary of the Records of Temperature, Rainfall, and Sunshine for June 1981—continued

Station	Height of Station Above M.S.L.	Air Temperature in Degrees Celsius								Rainfall in Millimetres					Bright Sunshine
		Means of		Mean of A and B	Difference From Normal	Absolute Maximum and Minimum				Total Fall	No. of Rain Days	Difference From Normal	Maximum Fall		
		A	B			Maximum	Date	Minimum	Date				Amount	Date	
		Max.	Min.	°C	°C	°C	°C	°C	°C	mm	mm	mm	Hrs		
LATE RETURNS AND CORRECTIONS															
Waipara 05/1981	64	..	2.5	..	..	..	..	-3.8	29	46	9	..	20	19	..
Lincoln 05/1981	11	13.6	3.3	8.5	+0.0	24.3	8	-4.3	29	28	9	-48	7	19	112
Akaroa 05/1981	3	14.7	..	..	..	23.5	8	..	..	44	9	..	19	12	..
Ranfurly 05/1981	427	9.8	-0.8	4.5	..	22.0	8	-8.0	26	7	9	..	2	5	105
Herbert Forest 05/1981	61	13.7	2.4	8.1	+0.1	24.0	8	-1.5	26	13	5	-40	6	17	..
Borland Burn 05/1981	183	11.4	1.3	6.4	..	16.0	3	-7.0	20	73	27	..	32	11	..
Ophir 05/1981	305	..	..	..	..	..	..	..	..	11	5	-19	3	17	..
Moa Creek 05/1981	427	..	..	..	..	..	..	..	..	9	6	-19	3	12	..
Finegand, Balclutha 05/1981	6	12.5	3.3	7.9	+0.3	23.2	10	-2.0	25	21	12	..	7	17	96

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 SEQUENCE FOR JUNE 1981

The anticyclone which covered most of New Zealand at the end of May had moved north-east and intensified by the 1st of June. An extensive warm front developed across the Tasman Sea between a depression south of Australia and the anticyclone north-east of New Zealand. An occluded front lay along the east coast of the North and South Islands. Although this system had weakened by the 2nd, rain continued to fall over most of the country with some heavy falls in western and southern areas.

The depression south of Australia moved eastward and covered New Zealand by the 3rd. The resulting strong north-westerly winds caused high temperatures in eastern areas and rain in northern and western areas. This situation persisted until the 6th, with a slow eastward progression of the anticyclone. By the 6th a complex depression had developed in the central Tasman Sea, and a front associated with this brought rain to the South Island. A succession of fronts within this depression crossed the North Island during the 7th, with some heavy local rainfall. The depression covered the country by the 8th, with centres east and west of the North Island. As it continued to move eastward there was a gradual clearance, affecting most areas by the 10th, and an anticyclone centred near Campbell Island brought clear weather on the 11th.

A trough developed over east Australia on the 11th and moved over the Tasman Sea on the 12th, bringing rain to the north of the North Island. By the 13th it covered most of New Zealand bringing widespread rain to all districts except Westland and Southland but by the 14th rain was falling over the whole country. Associated north-easterly winds caused high temperatures in many places. The anticyclone to the east of the Chatham Islands had become very slow moving and blocked the passage of the trough across New Zealand. Cool, showery conditions continued to the 19th, when an anticyclone in the north-western Tasman Sea brought a general clearance.

An anticyclone over Australia extended a ridge onto the country on the 20th, bringing mainly fair weather, although a small cold front east of Cook Strait brought rain to Wellington and the Wairarapa on the 21st and 22nd.

The anticyclone moved over the Tasman Sea during this interval and was centred south of Fiordland by the 23rd. The strong southerly winds brought rain to the south of the North Island but fine, cold weather to most other districts. The anticyclone intensified and spread over the country bringing dry, cool weather everywhere on the 24th and 25th.

A depression developed over south-east Australia on the 25th, and on the 26th a front associated with this lay off the west coast with rain, widespread, except in southern and eastern districts. By the 28th a broad trough covered the country and fronts within this trough brought showery conditions to many areas on the 28th and 29th. Rain continued in some northern and north-western districts under the influence of a westerly flow across the country on the 30th.

THE NEW ZEALAND WEATHER IN JUNE 1981

June was a mild, cloudy month for most of New Zealand.

North-westerly winds were most frequent in the north of the country while north-easterlies predominated in the south, where the frequency of north-easterlies was the greatest for June in 25 years.

Farmers in many parts of the country reported some grass growth due to the mild weather and a relative lack of frost in many areas, although pasture pugging due to prolonged wet weather has caused some problems. The mild, dry week at the end of the month in Canterbury was ideal for wheat drilling and other cultivation.

Rainfall—Rainfall was above normal in all areas except Blenheim, Southland and South Otago. Parts of the Wairarapa Valley, Westland and Canterbury had over twice their normal rainfalls.

Heavy falls in south Westland on the 2nd caused local flooding and resulted in the Haast Pass road being closed. Some of the heaviest falls on the 2nd were recorded at Bruce Bay (128 mm), Fox Glacier (159 mm), Mahitahi (176 mm) Ross (183 mm) and Whataroa (204 mm).

Parts of the Wairarapa valley were flooded again this month after heavy rain on the 6th and 7th. The soil was still saturated from last month's flooding and severe slips occurred on some properties.

An unusual feature of the rainfall this month had been the higher number of days with more than 1.0 mm of rain. There were more than 20 such days for much of the North Island and approximately 15 days for central and northern areas of the South Island. This is between 3 and 7 days more than usual in all areas. Wet, muddy conditions have resulted.

Although rainfall for Dunedin City was more than twice normal, Dunedin Airport recorded below normal rainfall for the third consecutive month. Invercargill also had less rainfall than normal for June.

Temperatures—Mean temperatures were an average 1.5°C above normal in the North Island and 1.0°C above normal in the South Island this month. Gisborne, 2°C above and Taupo 1.9°C above normal, had their second highest June means since 1937 and 1949 respectively.

Some high temperatures were recorded in eastern areas on the 3rd, during a period of strong north-westerly winds. These included 22.9°C at Gisborne, the highest for June since records began in 1937, 24.3°C at Napier Airport, also the highest recorded there for June, and 23.6°C at Kaikoura, the 2nd highest for June since 1963.

There were two pronounced cold spells this month.

The first, between the 5th and 12th, affected the South Island, with temperatures between 2° and 5° below normal. The second between the 21st and 25th affected the whole country, again with temperatures 2° to 5° below normal.

Sunshine—Sunshine hours were low over the whole country except in Kaitiā and Invercargill. Blenheim, with 91 hours sunshine, had its lowest total for any month since 1930, when records began, while Kelburn, with 66 hours had its lowest equal total for any month in the same period.

Stations recording large deficits this month were: Blenheim (-66 hrs), Christchurch (-52 hrs) Gisborne (-51 hrs), Nelson (-47 hrs), Wellington (-39 hrs), Taupo (-34 hrs) and Westport (-32 hrs).

In contrast, Invercargill had 17 hours more sunshine than usual for June.

J. S. HICKMAN, Director.

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

