



LAND & DEEDS OFFICE
25 SEP 1985
WELLINGTON

SUPPLEMENT
TO THE
NEW ZEALAND GAZETTE
OF
THURSDAY, 12 SEPTEMBER 1985

Published by Authority

WELLINGTON: FRIDAY, 13 SEPTEMBER 1985

CLIMATOLOGICAL TABLE
FOR JULY 1985

CLIMATOLOGICAL TABLE—Summary of the Records of Temperature, Rainfall, and Sunshine for July 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					
Maioiro Forest	52	14.8	8.4	11.6	+1.5	17.0	14	4.2	11	170	24	+25	49	24	..
Hunua	122	14.4	6.3	10.4	..	17.6	13	1.4	11	174	25	..	34	25	..
Maramarua Forest	38	14.6	6.4	10.5	+2.0	18.0	13	0.5	11	131	25	-7	24	20	..
Te Kauwhata	32	14.7	7.2	11.0	+1.7	18.5	13	1.9	7	99	29	-21	15	24	68
Huntly	34	14.3	7.7	11.0	..	18.0	13	4.2	1	86	21	..	22	14	..
Ruakura Hamilton	40	14.3	6.6	10.5	+2.2	17.6	18	1.2	7	83	24	-49	14	24	95
Whatawhata	104	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Hamilton Airport	50	14.6	5.4	10.0	+2.2	18.0	13	-0.2	11	81	18	-52	18	24	..
Cambridge	76	..	6.4	..	..	..	..	0.8	3	70	23	-59	14	25	..
Mohakatino Stn Mokau	46	14.1	8.2	11.2	+1.7	17.2	21	4.6	11	152	..	-3	..	..	..
Arapuni Power Stn	123	13.6	5.7	9.7	+1.6	18.0	17	0.3	9	73	20	-85	11	12	..
Waikeria	46	14.1	5.7	9.9	+2.0	18.0	18	-0.3	3	81	18	..	24	24	..
Te Kuiti	61	14.1	6.3	10.2	+2.2	18.3	13	0.5	11	137	25	-34	28	17	62
Wairere	122	13.6	5.4	9.5	..	17.1	18	-0.6	11	150	25	-20	19	30	..
Pureora Forest	549	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Mangakahu Valley	397	11.5	4.4	8.0	..	16.0	14	-0.1	11	149	20	..	26	26	..
Taumarunui	171	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Tokirima	152	13.0	4.1	8.6	..	17.2	13	-2.4	11	137	21	..	27	17	..
Omata	61	14.4	8.6	11.5	+1.2	17.3	18	6.2	24	136	20	-26	20	11	..
New Plymouth	55	14.6	7.0	10.8	+1.5	17.4	19	2.6	24	147	21	-33	25	30	..
New Plymouth Airport	27	14.0	6.8	10.4	+1.4	16.5	2	3.4	24	138	21	-24	28	30	100
North Egmont	955	7.9	2.3	5.1	..	12.8	2	0.0	11	933	..	..	..	..	..
Te Wera Forest	180	12.9	4.2	8.6	+1.8	16.0	13	-2.2	11	165	20	-13	28	30	..
Lower Retaruke	223	12.8	4.6	8.7	+2.0	17.0	18	-1.9	11	139	23	-7	37	17	..
Turangi	366	11.9	..	..	..	15.5	22	..	..	101	18	-70	29	12	116
Chateau, Mt Ruapehu	1097	7.2	0.5	3.9	..	11.9	22	-4.4	11	318	..	..	..	..	..
Hukanui	235	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Mt Bruce Res	305	12.0	4.1	8.1	+2.0	16.7	19	-1.3	3	300	20	+50	72	26	..
Waingawa Masterton	114	12.9	4.3	8.6	+1.5	17.2	18	-0.7	9	125	21	+13	31	12	92
Kopua	311	11.9	5.1	8.5	+1.8	17.5	17	-1.2	3	230	18	+110	82	26	..
Waipukurau	137	13.2	3.8	8.5	+1.5	17.8	18	-2.5	7	202	13	+104	75	26	124*
Dannevirke	207	12.4	5.7	9.1	+1.9	16.9	17	-1.6	3	193	21	+80	67	26	..
Porangahau	8	14.6	6.5	10.6	..	19.5	18	3.0	6	170	16	..	59	26	..
Castlepoint	3	13.7	9.0	11.4	+1.9	17.3	17	5.4	11	161	16	+42	54	26	..
Ngaumu Forest	244	12.1	4.2	8.2	+1.9	16.1	14	-2.0	9	354	14	+193	131	26	..
Tauherenikau, Alloa	43	13.4	4.9	9.2	+1.7	17.4	4	0.5	9	126	16	-4	32	26	..
Waiorongomai	21	12.6	6.3	9.5	+1.8	16.1	19	0.9	3	167	18	-19	52	27	..
Cape Palliser	10	13.2	8.5	10.9	+1.1	17.5	17	3.7	3	121	17	+1	37	12	..
East Cape	17	15.4	8.1	11.8	+0.8	18.1	14	2.0	9	222	17	+78	93	20	..
Ruatoria	61	15.6	4.9	10.3	+0.9	19.0	14	-1.9	9	246	14	+26	123	20	..
Mangatu Forest	182	13.9	4.7	9.3	+1.1	17.4	17	-1.6	9	194	12	+55	63	20	..
Manutuke Gisborne	9	15.2	4.9	10.1	+1.2	20.0	14	-2.4	9	330	17	+223	206	25	..
Gisborne Airport	4	15.1	5.1	10.1	+1.0	18.9	14	-0.5	9	326	17	+209	200	25	149
Onepoto, Waikaremoana	643	10.0	3.6	6.8	+0.7	13.5	14	-0.4	9	312	15	+116	132	25	..
Wharerata Forest	439	11.9	5.2	8.6	..	16.8	14	-0.5	9	417	18	..	210	25	..
Esk Forest	427	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Ngamatea	885	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Kaweka Forest	414	12.0	5.9	9.0	+1.5	16.7	3	2.2	11	358	14	+233	102	26	..
Napier Airport	2	14.7	5.6	10.2	+1.7	21.0	18	-0.5	3	215	10	+135	76	25	..
Napier	2	15.1	5.6	10.4	+1.5	20.4	18	-0.5	4	224	13	+144	74	25	125
Hastings	16	14.9	4.3	9.6	..	20.1	18	-2.0	4	198	11	..	66	26	..
Whakatu	6	14.6	4.4	9.5	..	19.6	18	-2.5	9	230	15	..	72	26	..
Gwavas Forest	335	12.2	3.3	7.8	+1.9	18.1	17	-0.8	7	295	15	+172	105	26	..
Makaretu	335	12.7	4.0	8.4	+1.6	18.0	17	-1.2	3	223	20	+124	63	26	..
Mohaka Forest	286	13.1	5.7	9.4	+1.7	17.5	18	0.9	3	409	12	+276	200	25	..
Frasertown, Wairoa	8	14.8	5.4	10.1	+1.2	19.5	18	0.0	4	254	18	+113	147	25	..
Wairoa	20	14.6	5.8	10.2	+1.4	19.5	18	0.6	9	232	14	+90	119	25	127
Kapiti Is	16	12.7	8.7	10.7	+1.6	15.8	18	5.2	11	90	19	-24	17	12	..
Paraparaumu Airport	7	13.2	6.8	10.0	+1.7	15.7	21	0.4	11	110	18	-4	23	17	101
Flockhouse Bulls	9	13.4	6.4	9.9	+1.9	16.3	13	-0.2	3	74	22	-12	15	12	..
Ohakea	48	13.1	6.8	10.0	+1.7	16.2	18	1.9	11	70	24	-17	14	12	98
Wharite Peak	914	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Kairanga Palmerston N	15	13.4	6.1	9.8	+2.2	17.4	13	-1.3	3	59	22	-30	16	12	..
Palmerston N Airport	45	13.2	6.2	9.7	+2.0	17.9	13	-1.2	3	82	23	-6	20	12	..
Palmerston N D S I R	34	13.3	6.7	10.0	+1.9	17.9	13	1.0	3	110	25	+12	21	12	72
Tiritea	100	12.7	6.5	9.6	..	17.5	13	2.6	11	148	25	..	29	26	..
Waitarere Forest	3	13.5	5.9	9.7	+1.8	15.9	18	-2.0	11	80	17	-13	32	12	..
Levin	46	13.1	6.3	9.7	+1.4	15.7	18	1.2	11	109	20	-6	29	12	82
Titahi Bay	31	12.9	6.4	9.7	..	16.0	19	-0.5	9	176	13	..	54	12	..
Avalon, Lower Hutt	15	13.0	6.7	9.9	+1.6	15.8	19	2.8	3	185	20	+31	72	27	..
Highland Pk Wgtn	120	11.4	6.9	9.2	..	14.6	17	3.6	9	129	18	..	33	12	..
Kelburn, Wellington	125	12.2	7.3	9.8	+1.4	15.9	19	3.7	8	117	17	-26	28	12	99
Somes Is	43	12.4	7.8	10.1	+1.5	16.0	19	4.5	27	162	15	+43	58	26	..
Gracefield Lower Hutt	34	..	7.5	3.8	2	226	16	+74	74	27	..
Wainuiomata	82	12.5	5.8	9.2	+1.6	15.0	17	0.0	9	324	19	+127	122	26	..

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		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	°C	°C	mm	mm	mm	mm		
Wellington Airport	6	13.0	8.0	10.5	+1.6	15.7	17	3.7	11	90	18	-26	27	12	..
Rimutaka Forest	37	12.8	6.0	9.4	..	15.9	19	-1.5	9	206	17	..	67	26	..
Kaitoke	223	11.6	4.8	8.2	+1.7	14.8	19	-3.4	3	379	23	+155	100	26	60
Wallaceville	56	12.6	5.2	8.9	+1.7	15.3	17	-1.6	3	156	20	+10	55	27	75
Cape Egmont	8	14.4	8.4	11.4	+1.5	17.5	13	2.0	11	96	26	-64	14	12	..
Stratford Mtn House	846	..	1.7	..	..	..	..	-3.1	11	907	21	+209	211	16	..
Stratford Dem Farm	311	12.1	4.7	8.4	+1.4	15.2	2	-0.5	11	242	23	+24	33	30	107
Kapuni	173	13.4	6.5	10.0	..	18.2	13	0.1	11	107	26	..	11	12	..
Manaia Dem Farm	98	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Normanby	122	12.8	6.2	9.5	+1.6	16.3	13	-0.7	11	105	28	..	11	26	..
Patea	43	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Pipiriki	80	13.2	6.4	9.8	..	17.1	13	1.0	11	139	..	..	22	30	..
Ohakune Junction	629	9.7	3.3	6.5	+2.2	15.5	12	-2.7	11	164	22	+24	27	26	..
Karioi	648	9.8	2.3	6.1	+1.1	15.7	13	-2.5	11	156	19	+39	34	26	..
Waiouru	823	8.8	2.2	5.5	+1.7	14.6	13	-3.2	11	137	22	+35	35	26	..
Waiouru Military Camp	823	8.3	2.2	5.3	+1.8	13.8	13	-3.6	11	168	26	+56	54	26	..
Ahu Ahu Valley	85	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Taihape	433	11.6	2.5	7.1	+1.6	16.9	12	-3.8	10	106	24	+11	33	26	..
Kahui, Taihape	518	10.9	4.5	7.7	+1.6	16.6	13	-1.3	11	118	20	+27	47	26	..
Wanganui	22	13.6	7.6	10.6	+1.9	17.2	18	2.5	11	105	24	+21	13	12	109
Wanganui Airport	9	13.7	7.3	10.5	..	17.3	18	2.5	11	115	20	+27	18	12	..
Totaranui	10	14.0	5.0	9.5	..	16.8	28	1.2	22	58	10	-121	21	11	..
Westport Airport	2	13.6	5.3	9.5	+1.3	17.3	13	2.6	8	159	19	-17	23	18	105
Cobb Dam	823	9.0	0.5	4.8	+1.9	16.6	3	-3.5	11	160	15	-65	33	11	..
Arapito	20	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Lake Rotoroa	443	9.8	0.4	5.1	..	12.6	21	-4.6	27	175	..	..	36	17	..
Lake Rotoiti	634	9.5	-0.7	4.4	+1.4	13.4	13	-4.6	3	105	16	-12	25	17	..
Hokitika Airport	39	12.6	3.4	8.0	+0.9	16.7	13	-0.7	8	237	18	+22	52	30	103
Punakaiki	4	13.6	7.6	10.6	..	18.2	13	4.2	10	193	19	..	39	16	..
Reefton	198	11.2	1.4	6.3	+1.7	14.5	21	-3.6	29	158	17	-2	46	17	..
Barrytown	30	13.5	7.3	10.4	..	18.3	13	3.6	9	193	18	+2	40	16	..
Totara Flat	77	11.8	1.4	6.6	+1.3	16.0	13	-3.5	26	177	19	+29	48	16	..
Greymouth	4	12.8	4.8	8.8	+1.1	16.1	21	0.8	8	212	18	+22	49	16	90
Otira Substation	383	9.5	2.3	5.9	+1.7	13.0	17	-1.2	10	494	18	+171	146	17	..
Springs Junction	421	9.4	0.5	5.0	+1.7	12.4	14	-4.5	29	195	16	+31	48	17	..
Pukekura	86	12.0	0.8	6.4	..	16.1	13	-3.0	26	261	18	..	81	16	..
Hari Hari	45	12.5	0.4	6.5	+0.5	15.6	12	-8.0	23	275	19	+35	60	17	..
Okarito	10	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Franz Josef	155	11.5	3.3	7.4	..	14.4	20	-2.0	8	392	16	..	68	16	73
Fox Glacier	152	11.6	1.9	6.8	+0.4	14.2	27	-1.9	8	367	19	+78	68	4	..
Milford Sound	3	8.8	2.3	5.6	+0.1	12.5	3	-1.9	30	490	19	+135	84	4	..
Puysegur Point	43	11.0	6.1	8.6	..	13.5	3	2.5	8	169	26	-3	28	22	..
Stephens Is	187	12.2	8.1	10.2	+1.5	14.8	17	4.0	27	73	14	-11	16	13	..
Riwaka Motueka	8	13.5	2.6	8.1	+1.2	17.1	4	-0.9	11	82	10	-72	28	11	140
Tapawera	146	12.5	0.2	6.4	..	15.9	14	-3.0	11	86	14	..	24	11	..
Crail Bay Pelorus Sd	13	13.0	5.5	9.3	..	16.6	17	2.2	10	211	..	..	38	27	..
Appleby	17	13.2	4.0	8.6	+1.4	16.5	18	0.2	11	55	9	-39	21	11	..
Nelson Airport	2	13.0	2.7	7.9	+1.5	16.6	18	-0.9	11	48	8	-44	19	11	135
Rai Valley	79	13.5	2.5	8.0	+1.8	16.5	22	-3.0	11	104	11	-80	22	30	..
Moutere Hills	110	12.9	6.0	9.5	+1.6	15.3	22	3.0	11	62	9	-33	22	12	..
Wairau Valley	162	12.3	2.3	7.3	..	16.0	17	-3.1	11	53	9	..	17	12	..
Blenheim Airport	27	13.4	2.7	8.1	+1.3	17.6	17	-1.4	10	58	10	-13	15	12	..
Brancott Valley	64	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Blenheim	4	13.7	2.9	8.3	+1.1	17.3	17	-1.5	11	85	11	+19	23	27	144
Wither Hills Blenheim	32	13.3	3.8	8.6	+1.3	17.7	17	-1.0	11	103	11	+35	35	27	..
Waihopai Power Stn	262	11.9	1.8	6.9	+1.1	15.5	14	-1.6	11	50	10	-31	16	11	..
Duntroon	350	12.4	2.5	7.5	..	16.5	4	-1.2	11	106	..	+17	33	27	..
Lake Grassmere	2	12.7	4.5	8.6	+1.1	17.0	17	0.3	11	139	13	+70	38	26	142
Cape Campbell	3	12.7	6.9	9.8	+1.1	17.1	18	4.7	30	120	13	+41	25	27	..
Boyle River Lodge	600	8.3	-0.8	3.8	..	12.2	2	-7.0	13	156	..	..	48	17	..
Hanmer Forest	387	10.5	-0.4	5.1	+1.3	17.8	17	-4.5	11	151	15	+40	24	12	102
Molesworth	893	7.9	-2.6	2.7	+1.3	14.0	3	-8.2	30	53	11	-10	21	12	..
Kaikoura Flats	24	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Kaikoura	108	11.9	6.1	9.0	+1.3	18.2	18	3.3	10	110	13	+19	34	27	140
Arthurs Pass	738	7.1	-0.2	3.5	..	10.2	19	-4.6	11	359	19	+107	106	17	..
Culverden	174	12.4	0.1	6.3	..	18.5	17	-5.0	1	67	11	..	19	12	..
Balmoral Forest	198	12.2	-0.6	5.8	+1.3	18.2	17	-4.9	11	50	13	-15	17	12	..
Waiu	137	12.2	0.5	6.4	..	19.4	17	-4.4	11	107	14	..	25	12	..
Cheviot	85	12.3	1.1	6.7	..	18.5	17	-3.8	11	135	12	..	41	12	107
The Hermitage Mt Cook	765	7.2	-1.6	2.8	+0.8	17.0	3	-7.7	26	289	20	+62	63	17	56
Mt John	1027	5.9	-1.0	2.5	+1.1	12.3	4	-5.4	25	30	9	-18	14	23	..
Craigieburn Forest	914	7.4	-1.7	2.9	+1.2	11.3	4	-4.7	26	118	14	-14	46	17	..
Lake Coleridge	364	10.9	0.1	5.5	+1.5	16.0	4	-3.2	26	93	17	+20	25	17	..
Highbank Power Stn	336	10.5	3.0	6.8	+1.2	15.8	3	-0.6	1	68	13	-10	11	23	116
Hororata Substation	192	11.9	0.3	6.1	+1.4	17.5	5	-4.1	8	55	16	-14	8	13	105

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		A Max.	B Min.			Maximum	Date	Minimum	Date				Amount		Date
Metres	°C	°C	°C	°C	°C	°C	°C	mm	mm	mm	Hrs				
Winchmore	160	11.6	1.5	6.6	+1.6	17.3	18	-1.8	8	63	13	-3	19	23	..
Peel Forest	274	11.3	-0.5	5.4	+1.1	17.1	18	-4.3	26	65	22	+15	23	23	..
Ashburton	101	11.9	0.8	6.4	+0.9	18.2	18	-2.6	8	58	11	-6	16	13	104
Waipara	64	12.7	2.8	7.8	+1.6	19.1	17	-3.5	8	33	9	-26	16	12	..
Ashley Forest	107	12.2	3.0	7.6	+1.3	18.3	5	-0.8	11	73	9	+1	26	13	113
Rangiora	46	12.4	0.7	6.6	+1.0	19.4	18	-4.0	11	64	14	-1	24	13	..
Darfield	195	11.6	1.8	6.7	+1.5	18.0	18	-2.8	25	56	15	-20	9	13	..
Eyrewell Forest	158	11.7	0.1	5.9	+1.0	18.0	17	-4.5	1	57	10	-19	13	12	..
Christchurch Airport	30	12.0	0.9	6.5	+1.0	18.0	18	-4.0	12	61	11	-5	35	13	113
Templeton	46	11.6	1.7	6.7	+1.0	18.0	18	-4.0	11	39	7	..	23	13	..
Christchurch	7	12.4	2.2	7.3	+1.2	18.8	18	-2.5	8	77	11	+5	23	13	..
Bromley Christchurch	9	12.3	3.3	7.8	+1.2	18.4	17	-1.9	11	71	14	+3	31	13	..
Mt Pleasant	137	12.4	6.1	9.3	+1.7	17.5	18	2.5	25	81	12	+2	33	13	..
Lincoln	11	12.0	1.8	6.9	+1.2	18.4	17	-2.9	8	45	11	-23	20	13	92
Quail Island	75	11.8	5.3	8.6	..	18.1	18	1.3	25	88	10	..	28	27	..
Akaroa	3	13.1	3.0	8.1	+1.4	20.5	18	-1.5	25	196	12	..	61	13	..
Lake Tekapo	683	6.6	-2.3	2.2	+0.4	14.0	4	-12.0	27	33	10	-19	13	23	..
Fairlie	304	10.4	-2.5	4.0	..	17.0	18	-6.9	26	42	8	..	14	23	..
Twizel	457	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Twizel Substation	451	..	-2.2	..	..	..	..	-7.5	27	45	14	..	15	23	..
Ikawai	70	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Geraldine	119	11.5	-0.2	5.7	+0.9	16.9	6	-3.8	26	59	7	+1	20	23	..
Orari Estate	81	10.9	-0.1	5.4	+0.8	16.7	6	-3.8	8	65	10	+6	26	23	..
Temuka	24	11.3	0.5	5.9	+0.7	16.8	6	-3.6	1	74	11	+24	25	23	..
Timaru Airport	26	11.2	0.4	5.8	+1.0	17.2	6	-4.2	8	57	10	+15	18	13	..
Adair	85	11.3	3.5	7.4	+1.5	16.5	6	0.3	1	69	10	+26	31	12	..
Timaru	17	10.5	1.7	6.1	+0.8	15.3	6	-2.0	25	55	10	+12	22	12	..
Timaru 2	17	11.1	2.2	6.7	..	16.7	6	-2.0	1	53	11	..	22	12	113
Waimate	61	11.6	1.8	6.7	+0.6	16.1	3	-2.4	1	57	11	+6	27	13	..
Aviemore	241	9.7	2.3	6.0	..	15.8	4	-4.0	28	34	10	+1	12	23	..
Kurou	207	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Oamaru Airport	30	11.1	2.4	6.8	+1.5	15.7	3	-1.8	1	46	13	+3	18	13	115
Knobs Flat	360	7.6	0.2	3.9	..	10.1	4	-5.5	30	155	..	-11	..	..	..
Tara Hills Oamaru	488	7.9	-2.2	2.9	+1.4	14.6	4	-8.5	27	45	13	+15	17	31	94
Lake Hawea	350	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Wanaka	296	9.3	-0.7	4.3	+0.9	15.5	4	-4.9	25	100	12	+49	47	31	..
Queensberry	277	8.6	0.0	4.3	..	15.9	4	-5.0	27	53	13	..	21	31	..
Bendigo	200	9.2	-0.6	4.3	..	16.2	4	-5.2	27	42	13	..	17	31	..
Naseby	607	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Windsor	88	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Oamaru	5	11.6	3.6	7.6	..	17.0	4	-1.6	27	54	10	..	25	13	..
Ranfurlu	427	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Herbert Forest	61	11.6	1.2	6.4	+1.3	16.6	7	-3.0	1	60	17	+5	25	13	..
Palmerston	21	11.4	0.5	6.0	+1.2	17.1	4	-4.9	27	59	12	+1	27	13	77
Cherry Farm Hospital	6	11.8	1.2	6.5	+1.1	17.0	4	-3.2	26	47	17	-11	19	13	..
Taiaroa Head	72	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Invermay, Taieri	30	10.9	0.5	5.7	+0.2	18.0	4	-8.0	6	60	22	+14	12	26	71
Berwick Forest	18	10.3	0.2	5.3	+0.5	17.0	3	-6.7	27	41	19	-14	13	7	..
Dunedin Airport	1	10.7	-0.8	5.0	+0.4	17.3	3	-5.9	27	30	16	-17	7	23	76
Musselburgh Dunedin	2	10.6	3.9	7.3	+0.9	18.1	3	0.3	30	89	17	+23	24	13	75
Te Anau	215	..	..	..	..	..	..	..	..	..	..	..	..	..	..
West Arm, Manapouri	232	6.4	2.4	4.4	+0.9	10.1	1	-1.4	29	305	18	+57	64	3	..
Borland Burn	183	8.7	-0.3	4.2	+0.7	13.2	1	-4.1	22	85	18	-7	15	6	..
Queenstown	329	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Queenstown Airport	349	8.5	-0.5	4.0	+1.1	13.7	4	-5.0	26	35	12	-16	8	31	..
Gibbston	354	8.5	-0.3	4.1	..	15.0	4	-5.7	29	30	14	..	7	31	..
Otama	183	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Cromwell Sub Stn	213	8.6	-1.5	3.6	..	15.5	4	-6.0	27	37	12	+16	12	31	..
Cromwell	213	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Northburn	210	9.0	-0.8	4.1	..	15.5	4	-5.1	27	28	14	..	10	31	..
Cromwell 2	213	8.6	-1.5	3.6	..	15.9	4	-6.4	27	38	14	..	13	31	95
Lauder	370	8.1	-1.3	3.4	..	16.0	4	-7.0	27	26	12	..	12	23	..
Clyde Dam	160	9.0	-0.6	4.2	..	17.6	4	-4.8	27	27	15	..	7	23	..
Ophir	305	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Clyde(Dsir)	171	8.6	-1.2	3.7	..	17.6	4	-6.6	27	27	17	..	6	23	..
Alexandra	141	8.7	-1.6	3.6	..	17.9	4	-6.5	27	24	12	..	5	17	82
Roxburgh Power Stn	110	9.5	1.0	5.3	+0.9	18.0	4	-2.5	12	25	11	+1	6	23	..
Etrick No 1	83	10.5	0.2	5.4	..	18.0	4	-4.5	27	29	8	..	9	9	..
Etrick No 2	91	10.1	0.2	5.2	..	17.2	5	-4.5	27	31	9	..	11	9	..
Deep Stream	396	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Beaumont	46	9.8	-0.3	4.8	..	15.8	3	-3.9	26	53	15	-15	22	7	..
Mahinerangi Dam	396	8.1	0.1	4.1	+0.8	13.5	4	-5.2	28	43	15	-34	19	7	..
Tapanui	226	9.5	1.9	5.7	+0.8	15.6	4	-3.1	29	48	13	-25	14	23	..
Taieri Mouth	15	10.2	1.2	5.7	+0.0	16.7	3	-2.0	26	55	18	-2	10	7	..
Tuatapere	27	10.5	2.2	6.4	..	15.3	1	-1.2	24	100	21	..	14	9	..

CLIMATOLOGICAL TABLE—Summary of the Records of Temperature, Rainfall, and Sunshine for July 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.			Maximum	Date	Minimum	Date				Amount	Date	
Metres	°C	°C	°C	°C	°C	°C	°C	°C	mm	mm	mm	Hrs			
Otautau	55	9.3	0.9	5.1	+0.4	15.4	4	-3.2	21	103	23	+22	20	9	25
Winton	44	9.9	1.5	5.7	+0.6	16.0	4	-3.0	26	68	15	+13	16	9	61
Gore	123	8.9	1.9	5.4	+1.1	16.4	4	-3.6	26	56	18	-1	13	7	70
Hokonui Forest	46	9.8	1.0	5.4	+0.4	15.6	4	-4.2	26	63	14	-6	13	7	..
Woodlands	47	9.7	2.1	5.9	+0.8	15.0	4	-2.2	28	87	..	+18	12	8	..
Invercargill Airport	0	10.0	1.8	5.9	+0.8	14.8	3	-3.4	26	90	20	+18	18	7	77
Tiwai Point, Bluff	5	9.9	4.0	7.0	+1.1	13.7	3	-0.8	26	113	20	+31	26	8	..
Stewart Is	3	10.1	3.5	6.8	+1.3	15.2	3	-0.5	26	140	25	+38	21	6	..
Milton	18	9.6	0.3	5.0	+0.6	16.4	3	-4.3	12	54	..	-5	10	7	..
Clinton School	120	9.8	0.8	5.3	..	15.7	4	-3.6	22	59	16	..	14	8	..
Finegand Balclutha	6	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Owaka	5	10.6	1.3	6.0	+0.5	16.5	4	-5.1	26	70	19	+5	12	9	..
Nugget Point	129	9.7	4.0	6.9	+1.2	16.5	4	-0.6	8	65	22	-3	11	9	..
Tautuku	40	10.8	3.1	7.0	+1.2	16.2	4	-1.2	26	75	..	-8	15	9	..
Nadi Airport Fiji	15	28.4	19.0	23.7	+0.2	31.7	16	16.0	19	112	7	+61	54	25	204
Rarotonga Airport	7	24.6	19.0	21.8	+0.0	26.7	31	14.7	8	95	16	+11	41	2	163
Totokoitu, Rarotonga	9	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Raoul Is	38	19.1	14.0	16.6	+0.3	20.6	21	11.1	8	127	22	-50	46	25	125
Campbell Is	15	7.5	3.4	5.5	+0.8	10.5	2	-2.7	8	147	28	+40	36	14	6
Waitangi, Chatham Is	44	11.7	6.7	9.2	+1.4	13.9	5	2.7	25	134	20	+48	34	15	70
Scott Base Antarctica	16	-29.1	-42.3	-35.7	-6.4	-18.7	7	-53.8	30	..	..	..	..	..	..
LATE RETURNS AND CORRECTIONS															
Waiotemarama 06/1985	229	15.4	9.4	12.4	+0.5	18.8	4	5.5	26	173	20	..	44	21	..
Whangarei Airport 06/1985	37	16.8	8.2	12.5	+0.4	19.9	5	4.6	28	164	14	-17	40	21	..
Oyster Point 05/1985	0	17.3	6.3	11.8	-1.6	21.1	10	-0.3	18	74	..	-21	21	22	..
Oyster Point 06/1985	0	16.6	6.0	11.3	-0.1	18.4	5	1.8	30	73	..	-60	..	..	..
Woodhill Forest 03/1985	30	22.0	13.4	17.7	-0.3	26.0	6	7.7	11	66	10	-26	17	13	..
Woodhill Forest 04/1985	30	19.9	11.1	15.5	-0.2	22.8	18	4.7	23	96	12	-22	28	19	..
Woodhill Forest 05/1985	30	17.2	6.3	11.8	-1.5	20.6	10	-0.1	18	136	9	-3	60	22	..
Woodhill Forest 06/1985	30	16.4	6.9	11.7	+0.3	18.7	6	1.7	30	106	15	-49	22	21	..
Whangapoua Forest 06/1985	4	..	..	..	..	..	..	..	..	279	..	+47	..	..	..
Murupara 01/1985	198	25.2	..	..	..	28.5	7	..	..	98	11	+1	25	11	..
Huntly 06/1985	34	15.8	7.6	11.7	..	19.0	6	2.9	4	137	..	..	..	..	..
Whatawhata 02/1985	104	23.8	11.6	17.7	-0.8	26.1	10	8.0	20	116	6	+16	109	16	204
Whatawhata 03/1985	104	22.6	11.1	16.9	-0.2	26.1	17	4.5	22	98	11	-13	39	14	183
Whatawhata 04/1985	104	19.7	8.2	14.0	-0.7	23.0	4	2.3	30	68	9	-61	28	20	121
Taumarunui 06/1985	171	14.0	4.6	9.3	+1.4	18.6	6	-1.0	26	181	21	+41	40	21	45
Hukanui 06/1985	235	12.5	5.7	9.1	..	16.0	5	-1.8	28	199	26	+11	39	7	..
Castlepoint 06/1985	3	..	..	..	..	..	..	..	..	194	19	+89	55	22	..
Kapiti Is 05/1985	16	14.0	9.6	11.8	-0.1	17.3	6	6.5	25	59	10	-59	23	21	..
Wharite Peak 08/1984	914	6.0	1.7	3.9	+0.3	13.0	18	-2.5	6	156	..	-38	24	16	..
Wharite Peak 09/1984	914	6.8	2.6	4.7	-0.1	13.0	24	-1.0	17	179	..	+9	31	25	..
Wharite Peak 10/1984	914	8.5	3.3	5.9	-0.6	14.5	28	-2.0	2	80	..	-113	27	18	..
Wharite Peak 11/1984	914	13.1	6.8	10.0	+1.8	17.5	28	1.0	18	148	..	-21	48	17	..
Wharite Peak 12/1984	914	15.5	9.0	12.3	+2.1	22.0	27	6.5	19	215	..	+8	63	11	..
Patea 10/1984	43	16.1	9.4	12.8	-0.1	21.0	31	3.5	5	52	10	-37	23	18	..
Patea 11/1984	43	19.1	12.3	15.7	+1.4	22.0	15	6.0	27	146	7	+65	47	24	..
Patea 12/1984	43	22.0	..	..	..	26.0	21	..	..	100	..	+12	40	11	..
Patea 01/1985	43	22.6	15.1	18.9	+1.5	25.0	1	12.0	10	130	13	+48	26	24	..
Patea 02/1985	43	21.7	13.8	17.8	+0.2	26.0	27	9.0	4	38	5	-28	22	17	..
Patea 03/1985	43	19.9	12.5	16.2	-0.5	25.5	1	4.5	21	55	6	-15	45	13	..
Arapito 07/1984	20	13.9	4.6	9.3	..	17.7	13	-0.6	26	208	15	..	41	17	86
Lake Tekapo 05/1985	683	9.7	0.5	5.1	-0.9	17.6	7	-4.0	31	23	9	-37	6	9	..
Kurow 04/1985	207	19.1	7.2	13.2	..	25.2	3	0.3	27	5	4	..	3	3	..
Knobs Flat 05/1985	360	..	..	..	..	..	..	..	..	144	..	-76	55	8	..
Knobs Flat 06/1985	360	..	..	..	..	..	..	..	..	173	..	-12	..	..	..
Naseby 03/1985	607	18.2	5.0	11.6	..	26.0	5	-1.1	21	18	5	..	14	12	..
Naseby 04/1985	607	16.2	3.7	10.0	..	21.7	2	-2.5	27	7	4	..	4	20	..
Naseby 06/1985	607	9.0	-1.2	3.9	..	14.5	9	-6.9	26	19	8	..	8	4	..
Cherry Farm Hospital 06/1985	6	12.3	1.3	6.8	+0.7	16.6	8	-2.0	7	36	10	-14	16	4	..
Deep Stream 06/1985	396	10.2	-0.9	4.7	..	16.0	10	-11.0	3	19	10	..	11	4	..

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 JULY 1985

General—July was a rather mild month with rainfall well above normal in Gisborne and Hawkes Bay, but above average elsewhere.

The frequency of south-westerlies over the North Island was much higher than usual, but strong winds were less frequent. Over the South Island westerlies predominated and were stronger than usual.

Strong southerly winds affected the Wellington - Cook Strait region during the 27th and 28th causing damage to boats and some properties. These winds also affected the Kaikoura and Canterbury Coast, producing high seas. Several shoreline houses were damaged. During this same period high winds from the southerly quarter with speeds up to 167 kmph were recorded at the Chatham Islands to the east of New Zealand. Strong to gale force north-westerlies were reported in Canterbury on the 8th.

Snow fell on the Desert road in the central North Island, closing it temporarily on the 27th and 28th.

Most farmers report grass growth as being better than usual especially in the North Island, and stock in good condition.

Rainfall—In the North Island during the 25th and 26th a slow moving depression with a very moist easterly flow brought very heavy rain in Gisborne and Hawke's Bay. From 9 a.m. on the 25th to 9 a.m. on the 26th a record 24-hour fall of 200 mm was recorded at Gisborne Airport, the previous record fall for 24 hours was 121 mm recorded in June 1977. Serious damage resulted due to flooding. In Napier a total of 146 mm fell during the 24th to the 27th. The total rainfalls for July for Gisborne and Napier were 326 mm (278 percent of normal, and highest for July since records began in 1937) and 215 mm (269 percent of normal respectively. Some extensive flooding was also reported at this time in farming areas of the Wairarapa.

Rainfall was lower than normal in the Waikato and Bay of Plenty. These areas received between 60 to 80 percent of their normal rainfall for July. It was also a little drier than normal in Taranaki, Manawatu and Wellington.

In the South Island regions that received above normal rainfalls were; the Kaikoura Coast, Timaru, Southland, Westland and Fiordland, where totals ranged from between 120 to 160 percent of normal. Nelson was rather dry receiving only 52 percent of normal. It was also drier in Otago.

Temperatures—Over the whole country mean temperatures were well above normal.

In the North Island mean daily temperatures were from 1.5C to 2.0C higher than usual.

In the South Island mean daily temperatures ranged between 1.0C to 1.5C above normal.

In many places this July, the mean daily temperature for the month was the highest on record. New Plymouth had the warmest July in over 63 years and in Kelburn (Wellington) for over 57 years. Other places that recorded their warmest July for over 20 years were; Auckland, Rotorua, Palmerston North and Paraparaumu.

Sunshine—Although July's weather was rather mild, total sunshine hours were somewhat lower than normal over the whole country except in Gisborne and on the Kaikoura Coast where it was nearly 10 percent above normal.

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

- Auckland City (-34 hours, the lowest since 1964).
- New Plymouth (-33 hours, the lowest since 1964).
- Kaitaia (-30 hours, the lowest since 1967).
- Dunedin Airport (-26 hours).
- Ruakura (-25 hours).
- Tauranga (-25 hours).
- Taupo (-25 hours).

J. S. HICKMAN, Director.

THESE MAPS ARE MEAN SEA LEVEL ANALYSES
FOR 0000 HOURS. THEY WERE PREPARED BY
NEW ZEALAND METEOROLOGICAL SERVICE
MINISTRY OF TRANSPORT
P.O. BOX 722
WELLINGTON









