



2 10 OCT 1985

SUPPLEMENT
TO THE
NEW ZEALAND GAZETTE
OF
THURSDAY, 10 OCTOBER 1985

Published by Authority

WELLINGTON: MONDAY, 14 OCTOBER 1985

CLIMATOLOGICAL TABLE
FOR AUGUST 1985

CLIMATOLOGICAL TABLE—Summary of the Records of Temperature, Rainfall, and Sunshine for August 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.			Maxi-mum	Date	Mini-mum	Date				Amount		Date
Metres	°C	°C	°C	°C	°C	°C	°C	°C	mm	mm	mm	mm	Hrs		
Maioiro Forest	52	14.7	6.3	10.5	-0.4	17.0	9	1.1	16	111	15	-26	31	10	..
Hunua	122	14.1	4.4	9.3	..	16.5	7	-1.8	17	108	16	..	31	25	..
Maramarua Forest	38	14.6	3.7	9.2	-0.4	16.6	31	-2.1	15	78	16	-51	19	19	..
Te Kauwhata	32	14.5	5.0	9.8	-0.4	16.5	25	-0.7	15	88	16	-21	18	25	153
Huntly	34	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Ruakura Hamilton	40	14.3	4.1	9.2	-0.4	16.4	26	-2.9	16	82	14	-35	17	10	168
Whatawhata	104	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Hamilton Airport	50	14.5	3.0	8.8	-0.4	16.5	23	-4.8	16	97	15	-18	23	2	..
Cambridge	76	14.1	3.6	8.9	-0.5	16.1	27	-2.1	14	60	14	-46	18	19	..
Mohakatino Stn Mokau	46	13.6	6.2	9.9	-0.5	16.0	7	0.7	14	91	14	-52	22	1	..
Arapuni Power Stn	123	13.5	3.3	8.4	-0.9	16.6	7	-2.0	15	86	15	-51	30	19	..
Waikeria	46	13.9	3.1	8.5	-0.7	16.1	7	-4.0	16	90	14	..	23	25	..
Te Kuiti	61	13.9	3.6	8.8	-0.6	16.6	26	-1.7	16	108	14	-41	35	19	132
Wairere	122	13.2	3.0	8.1	..	15.3	26	-3.5	16	101	13	-50	31	19	..
Pureora Forest	549	9.9	1.3	5.6	-0.7	12.1	26	-4.5	16	120	14	-57	33	19	..
Mangakahu Valley	397	11.3	2.8	7.1	..	13.3	11	-4.0	15	90	12	..	29	18	..
Taumarunui	171	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Tokirima	152	13.2	1.2	7.2	..	16.0	26	-4.5	16	100	16	..	44	19	..
Omata	61	13.5	7.5	10.5	-0.3	15.6	26	2.9	15	119	17	-29	25	25	..
New Plymouth	55	..	..	..	..	..	..	..	..	..	..	..	..	..	..
New Plymouth Airport	27	13.3	5.8	9.6	-0.3	15.4	8	1.6	16	154	17	+12	32	25	161
North Egmont	955	6.9	1.3	4.1	..	10.2	22	-3.5	16	629	21	..	163	19	..
Te Wera Forest	180	12.4	2.2	7.3	-0.8	15.0	26	-5.1	16	189	16	+19	41	25	..
Lower Retaruke	223	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Turangi	366	11.4	0.8	6.1	-1.3	15.4	26	-5.5	16	93	14	-61	38	19	165
Chateau, Mt Ruapehu	1097	6.6	-1.5	2.6	..	10.0	8	-7.2	14	197	15	..	62	19	..
Hukanui	235	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Mt Bruce Res	305	11.4	2.0	6.7	-0.4	16.2	11	-5.0	13	163	17	-54	79	19	..
Waingawa Masterton	114	12.7	3.1	7.9	-0.3	19.0	25	-2.6	16	85	17	-7	14	19	138
Kopua	311	11.4	2.6	7.0	-0.6	18.4	26	-2.5	16	26	13	-78	4	12	..
Waipukurau	137	12.6	3.3	8.0	-0.3	17.6	19	-3.0	30	22	13	-59	4	3	159*
Dannevirke	207	12.2	4.0	8.1	-0.2	17.9	19	-1.8	17	53	17	-43	9	11	..
Porangahau	8	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Castlepoint	3	12.9	7.6	10.3	+0.1	17.7	25	2.7	16	87	17	-10	20	12	..
Ngaumu Forest	244	11.8	2.6	7.2	-0.1	16.6	26	-3.7	16	92	16	-41	17	3	..
Tauherenikau, Alloa	43	12.8	3.3	8.1	-0.5	18.9	25	-2.5	16	127	13	+18	35	19	..
Waiorongomai	21	12.0	4.0	8.0	-0.7	15.2	25	-2.2	16	236	20	+80	60	19	..
Cape Palliser	10	12.8	7.0	9.9	-0.5	18.0	25	2.0	16	83	16	-26	18	14	..
East Cape	17	14.7	7.7	11.2	-0.3	17.9	26	3.5	17	80	18	-89	19	19	..
Ruatoria	61	14.9	5.4	10.2	-0.1	19.2	26	0.1	17	91	18	-160	28	19	..
Mangatu Forest	182	13.5	4.5	9.0	-0.1	17.9	30	-1.0	17	84	15	-70	27	19	..
Manutuke Gisborne	9	14.5	5.0	9.8	-0.3	19.6	26	-0.3	17	49	16	-73	10	12	..
Gisborne Airport	4	14.6	4.5	9.6	-0.4	19.0	26	-0.1	17	43	18	-82	8	6	162
Onepoto, Waikaremoana	643	10.0	2.8	6.4	-0.6	14.2	26	-0.5	14	124	19	-110	31	19	..
Wharerata Forest	439	10.4	4.6	7.5	..	15.8	24	0.0	14	142	19	..	43	14	..
Esk Forest	427	11.3	3.2	7.3	-0.4	17.6	26	-2.4	16	49	10	-134	15	28	..
Ngamatea	885	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Kaweka Forest	414	11.6	4.0	7.8	-0.5	15.6	26	-0.2	30	29	14	-120	13	19	..
Napier Airport	2	14.1	4.3	9.2	-0.3	20.0	26	-1.8	17	19	11	-69	7	12	..
Napier	2	14.4	4.8	9.6	-0.3	19.5	26	-2.0	17	22	13	-61	9	12	160
Hastings	16	14.5	3.6	9.1	..	19.5	26	-1.5	17	15	10	..	4	2	..
Whakatu	6	13.9	3.6	8.8	..	19.2	26	-2.5	17	20	14	..	5	28	..
Gwavas Forest	335	11.8	1.9	6.9	-0.1	16.2	19	-3.0	30	20	15	-107	5	2	..
Makaretu	335	12.4	2.7	7.6	-0.2	17.3	19	-3.8	30	20	19	-81	4	19	..
Mohaka Forest	286	12.5	4.1	8.3	-0.4	18.0	26	-0.8	17	67	13	-106	19	28	..
Frasertown, Wairoa	8	14.1	5.4	9.8	-0.2	20.1	26	0.5	17	96	18	-68	22	12	..
Wairoa	20	14.3	5.2	9.8	-0.2	19.0	26	0.3	17	81	14	-76	13	25	171
Kapiti Is	16	12.2	7.4	9.8	+0.0	15.7	26	3.3	16	78	17	-20	21	19	..
Paraparaumu Airport	7	12.4	4.7	8.6	-0.6	15.7	9	-0.6	7	89	14	-2	30	19	159
Flockhouse Bulls	9	13.5	2.9	8.2	-0.9	17.6	25	-3.7	14	52	13	-27	24	25	..
Ohakea	48	13.2	4.6	8.9	-0.5	17.1	25	0.0	14	55	13	-24	16	19	175
Wharite Peak	914	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Kairanga Palmerston N	15	13.5	3.1	8.3	-0.6	17.2	25	-2.5	15	59	14	-23	23	25	..
Palmerston N Airport	45	13.2	3.7	8.5	-0.4	16.9	25	-2.3	16	63	14	-19	15	25	..
Palmerston N D S I R	34	13.2	4.4	8.8	-0.5	16.9	19	-1.5	30	70	15	-16	19	25	119
Tiritea	100	12.4	4.8	8.6	..	16.1	19	0.0	15	83	18	..	21	25	..
Waitarere Forest	3	12.9	3.2	8.1	-1.0	16.6	9	-3.3	14	54	11	-27	27	19	..
Levin	46	12.8	4.8	8.8	-0.6	16.1	8	-1.1	16	65	14	-35	25	19	142
Titahi Bay	31	12.4	4.7	8.6	..	15.5	26	-2.5	16	144	13	..	51	19	..
Avalon, Lower Hutt	15	12.7	5.0	8.9	-0.3	16.3	9	-0.6	29	143	19	+10	44	19	..
Highland Pk Wgtn	120	11.3	5.5	8.4	..	15.0	26	0.1	16	137	20	..	35	19	..
Kelburn, Wellington	125	11.6	6.2	8.9	-0.2	15.6	26	0.8	16	135	19	+4	30	31	142
Somes Is	43	11.8	6.4	9.1	-0.3	15.0	9	1.8	16	99	19	-11	30	19	..
Gracefield Lower Hutt	34	12.2	5.6	8.9	-0.5	16.2	9	-1.0	16	114	16	-27	49	19	..
Wainuiomata	82	11.7	4.2	8.0	-0.4	15.4	9	-2.0	16	184	20	-11	47	19	..

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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	mm	mm	mm		Hrs			
Wellington Airport	6	12.4	6.7	9.6	-0.1	15.8	26	1.3	29	87	19	-22	32	19	..
Rimutaka Forest	37	12.4	4.1	8.3	..	18.0	11	-4.5	16	132	19	..	36	19	..
Kaitoke	223	11.6	2.3	7.0	-0.5	16.0	8	-4.4	16	257	22	+52	116	19	97
Wallaceville	56	12.4	3.3	7.9	-0.4	16.4	9	-3.8	16	161	20	+38	68	19	112
Cape Egmont	8	13.8	7.2	10.5	+0.0	15.8	7	1.5	6	109	19	-27	28	19	..
Stratford Mtn House	846	6.7	0.9	3.8	-0.7	9.5	25	-3.7	16	639	19	-34	191	19	..
Stratford Dem Farm	311	11.4	3.4	7.4	-0.5	14.8	26	-2.5	16	198	19	+5	79	19	132
Kapuni	173	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Manaia Dem Farm	98	12.7	4.9	8.8	-0.2	18.4	17	-1.9	16	77	20	-40	22	19	129
Normanby	122	12.1	4.3	8.2	-0.4	14.8	26	-2.4	16	100	23	..	22	25	..
Patea	43	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Moumahaki Exp Farm	87	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Pipiriki	80	13.2	4.0	8.6	..	16.2	7	-0.7	16	118	16	..	34	19	..
Ohakune Junction	629	9.3	1.4	5.4	-0.2	13.4	9	-4.0	16	126	17	-8	42	19	..
Karioi	648	9.6	0.4	5.0	-1.0	16.1	25	-3.5	16	95	16	-10	29	19	..
Waiouru	823	8.4	0.7	4.6	-0.3	13.6	19	-4.8	16	81	17	-15	26	19	..
Waiouru Military Camp	823	7.9	0.3	4.1	-0.5	11.2	8	-5.9	16	87	16	-15	25	19	..
Ahu Ahu Valley	85	13.8	2.7	8.3	..	17.0	9	-2.5	16	93	15	..	22	19	..
Taihape	433	11.6	0.9	6.3	-0.6	16.3	19	-3.8	30	81	17	-2	26	19	..
Kahui, Taihape	518	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Wanganui	22	13.5	5.4	9.5	-0.3	17.6	25	0.6	16	51	15	-25	14	25	158
Wanganui Airport	9	13.4	4.9	9.2	..	17.4	25	-0.3	6	56	14	-18	14	25	..
Totaranui	10	13.2	4.0	8.6	..	17.6	26	0.3	14	130	11	-76	34	8	..
Westport Airport	2	13.2	4.7	9.0	+0.0	15.0	7	0.3	14	189	18	+10	51	9	142
Cobb Dam	823	8.6	-0.9	3.9	+0.0	13.0	30	-5.3	16	204	15	-23	60	9	..
Arapito	20	13.8	5.0	9.4	..	16.8	7	0.7	4	155	13	..	41	19	144
Lake Rotoroa	443	10.3	-1.2	4.6	..	12.9	23	-5.8	15	171	15	..	54	18	..
Lake Rotoiti	634	9.6	-1.6	4.0	-0.4	12.0	23	-7.9	15	119	15	+1	45	19	..
Hokitika Airport	39	12.6	3.7	8.2	+0.1	15.8	8	-1.7	13	189	16	-44	36	9	169
Punakaiki	4	14.0	6.9	10.5	..	15.7	9	1.9	13	145	17	..	39	18	..
Reefton	198	12.0	0.8	6.4	-0.1	15.1	28	-4.6	15	164	17	-12	38	18	..
Barrytown	30	13.5	7.0	10.3	..	16.0	9	4.0	15	143	17	-49	32	18	..
Totara Flat	77	12.9	1.0	7.0	+0.0	15.8	28	-4.5	15	125	16	-25	27	18	..
Greymouth	4	12.7	4.6	8.7	-0.3	15.8	28	0.7	15	123	18	-74	29	18	141
Otira Substation	383	..	1.2	..	..	..	..	-4.0	15	447	15	+65	151	18	..
Springs Junction	421	9.7	-0.7	4.5	-0.6	13.4	29	-7.0	15	161	19	-28	38	18	..
Pukekura	86	12.8	1.4	7.1	..	15.8	8	-3.5	15	228	14	..	66	18	..
Hari Hari	45	13.4	1.6	7.5	+0.3	16.1	2	-4.5	15	341	12	+65	105	18	..
Okarito	10	..	..	..	..	..	..	..	..	253	12	..	64	18	..
Franz Josef	155	12.7	3.6	8.2	..	15.5	8	0.1	15	414	15	..	135	18	128
Fox Glacier	152	12.7	2.8	7.8	+0.6	15.1	8	-0.9	15	413	15	+55	141	18	..
Milford Sound	3	11.8	2.0	6.9	+0.0	16.6	8	-1.8	14	346	14	-58	108	18	..
Puysgur Point	43	11.4	5.8	8.6	..	16.8	9	1.9	14	157	21	-7	19	1	..
Stephens Is	187	11.4	7.4	9.4	+0.3	14.3	23	4.7	13	93	14	+13	27	19	..
Riwaka Motueka	8	13.3	1.8	7.6	-0.4	17.2	25	-3.0	15	128	11	-24	42	9	181
Tapawera	146	13.1	-0.6	6.3	..	16.2	26	-5.8	15	66	11	..	21	19	..
Crail Bay Pelorus Sd	13	13.1	5.5	9.3	..	17.6	26	0.7	16	116	14	..	48	19	..
Appleby	17	13.1	2.8	8.0	-0.3	17.4	26	-1.6	15	64	11	-34	14	19	..
Nelson Airport	2	12.8	1.6	7.2	-0.5	16.8	26	-2.4	15	65	11	-31	18	24	194
Rai Valley	79	13.4	1.4	7.4	-0.3	16.8	26	-3.6	15	163	10	-42	36	24	..
Moutere Hills	110	12.5	4.6	8.6	+0.0	15.9	26	1.4	15	79	11	-27	21	19	..
Wairau Valley	162	12.6	1.0	6.8	..	16.4	25	-4.6	15	71	10	..	27	19	..
Blenheim Airport	27	13.5	2.0	7.8	-0.3	18.9	26	-2.9	13	42	11	-32	21	19	..
Brancott Valley	64	..	2.5	..	..	..	..	-2.9	15	38	9	..	16	19	..
Blenheim	4	14.0	2.0	8.0	-0.5	19.4	26	-2.7	15	35	11	-33	19	19	190
Wither Hills Blenheim	32	13.4	2.7	8.1	-0.4	18.0	25	-2.5	15	32	10	-36	16	19	..
Waihopai Power Stn	262	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Duntroon	350	12.4	2.3	7.4	..	17.0	24	-2.7	15	78	11	-10	47	19	..
Lake Grassmere	2	12.2	4.5	8.4	-0.2	17.3	25	-2.3	19	42	9	-22	15	19	184
Cape Campbell	3	12.4	7.1	9.8	+0.6	15.2	26	3.3	16	35	10	-36	12	19	..
Boyle River Lodge	600	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Hanmer Forest	387	10.8	0.3	5.6	+0.1	18.3	25	-6.0	7	116	12	-8	36	19	121
Molesworth	893	7.8	-2.9	2.5	-0.4	14.2	24	-11.6	6	50	11	-4	27	19	..
Kaikoura Flats	24	12.8	3.7	8.3	..	22.3	25	-3.9	8	56	12	..	16	3	..
Kaikoura	108	11.7	5.9	8.8	+0.6	20.3	25	2.5	15	45	10	-41	13	3	169
Arthurs Pass	738	7.6	-1.2	3.2	..	11.0	8	-7.5	15	357	16	+53	122	18	..
Culverden	174	12.9	0.5	6.7	..	20.0	25	-5.2	15	53	10	..	15	11	..
Balmoral Forest	198	12.5	-0.1	6.2	+0.1	20.2	25	-6.1	7	62	14	+6	19	18	..
Waiau	137	13.4	0.9	7.2	..	22.0	25	-5.3	7	64	11	..	19	11	..
Cheviot	85	12.9	0.4	6.7	..	21.5	25	-5.3	7	46	11	..	23	3	152
The Hermitage Mt Cook	765	8.8	-0.9	4.0	+0.5	14.7	30	-5.5	14	386	15	+109	156	18	129
Mt John	1027	6.4	-0.6	2.9	+0.4	11.5	8	-5.0	14	83	..	+30	42	18	..
Craigieburn Forest	914	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Lake Coleridge	364	12.0	1.0	6.5	+0.8	17.8	25	-4.8	15	84	11	+6	39	18	..
Highbank Power Stn	336	10.7	3.4	7.1	+0.5	18.1	25	-0.6	14	109	13	+34	21	31	159

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Metres	°C	°C	°C	°C	°C	°C	°C	mm	mm	mm	mm	Hrs			
Hororata Substation	192	12.3	0.6	6.5	+0.3	19.4	25	-4.9	15	70	14	+5	16	18	155
Winchmore	160	11.8	2.2	7.0	+0.7	20.2	25	-3.0	7	65	12	-1	13	11	..
Peel Forest	274	12.0	0.1	6.1	+0.5	18.4	25	-4.8	15	113	16	+56	33	18	..
Ashburton	101	12.5	1.6	7.1	+0.1	20.4	25	-4.1	15	52	12	-11	13	11	159
Waipara	64	12.9	3.1	8.0	+0.8	20.8	25	-4.7	17	43	9	-7	12	18	..
Ashley Forest	107	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Rangiora	46	12.8	1.5	7.2	+0.3	22.0	25	-3.6	7	37	14	-25	7	11	..
Darfield	195	12.8	1.8	7.3	+0.5	20.0	25	-2.2	7	66	13	-7	13	11	..
Eyrewell Forest	158	12.7	0.5	6.6	+0.3	21.4	25	-4.8	7	70	13	+1	19	2	..
Christchurch Airport	30	12.5	2.1	7.3	+0.4	21.0	25	-3.7	15	50	10	-5	11	11	183
Templeton	46	12.3	2.3	7.3	+0.3	20.5	25	-4.0	15	33	8	..	11	31	..
Christchurch	7	12.9	3.0	8.0	+0.5	20.0	25	-3.0	15	61	6	+3	15	2	..
Bromley Christchurch	9	12.2	4.1	8.2	+0.4	19.6	25	-2.0	15	57	7	+1	21	2	..
Mt Pleasant	137	12.0	5.5	8.8	+0.5	18.5	25	1.2	13	64	7	-1	16	2	..
Lincoln	11	12.3	2.6	7.5	+0.5	19.6	25	-3.6	15	44	9	-15	10	2	165
Quail Island	75	11.5	5.6	8.6	..	18.3	30	0.2	15	49	7	..	16	2	..
Akaroa	3	13.3	3.2	8.3	+0.5	19.0	25	-2.0	15	61	10	..	13	2	..
Lake Tekapo	683	8.1	-1.6	3.3	-0.4	14.0	24	-7.0	15	81	9	+27	46	18	..
Fairlie	304	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Twizel	457	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Twizel Substation	451	10.0	-1.0	4.5	..	14.2	23	-6.0	18	62	7	..	41	18	..
Ikawai	70	12.7	0.4	6.6	+0.3	18.0	25	-5.0	15	8	3	-30	6	30	..
Geraldine	119	12.4	0.7	6.6	+0.1	18.4	25	-4.8	15	58	8	-5	24	31	..
Orari Estate	81	12.2	1.0	6.6	+0.5	19.0	25	-3.8	15	48	8	-12	18	31	..
Temuka	24	12.7	1.2	7.0	+0.6	19.5	25	-4.4	15	34	8	-13	12	18	..
Timaru Airport	26	12.5	0.8	6.7	+0.7	18.8	25	-3.5	7	31	8	-11	10	18	..
Adair	85	11.8	3.3	7.6	+0.7	17.5	25	-1.0	15	38	7	-3	18	11	..
Timaru	17	11.6	2.1	6.9	+0.0	17.6	25	-3.3	15	30	7	-10	14	11	..
Timaru 2	17	11.7	2.3	7.0	..	17.0	25	-3.1	15	30	7	..	14	11	172
Waimate	61	12.8	1.9	7.4	+0.2	19.4	25	-3.5	15	24	5	-20	8	30	..
Aviemore	241	11.1	1.3	6.2	..	15.1	10	-3.8	14	34	8	+1	20	18	..
Kurou	207	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Oamaru Airport	30	12.1	1.6	6.9	+0.6	19.4	25	-1.6	15	13	5	-26	6	30	164
Knobs Flat	360	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Tara Hills Omarama	488	9.5	-1.7	3.9	+0.1	13.5	23	-6.9	14	67	9	+28	48	18	163
Lake Hawea	350	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Wanaka	296	11.0	-0.3	5.4	+0.2	15.5	8	-4.5	14	121	10	+70	68	18	..
Queensberry	277	10.8	0.3	5.6	..	15.4	8	-4.5	14	99	9	..	67	18	..
Bendigo	200	11.5	-0.6	5.5	..	16.5	8	-5.5	14	56	10	..	37	18	..
Naseby	607	8.7	-0.9	3.9	..	15.0	10	-6.9	14	26	11	..	8	30	..
Windsor	88	..	..	..	..	..	..	..	..	7	2	..	6	30	..
Oamaru	5	12.2	3.1	7.7	..	19.3	25	-1.6	8	15	6	..	7	30	..
Ranfurlly	427	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Herbert Forest	61	13.1	1.0	7.1	+0.7	19.4	25	-4.0	7	19	6	-26	7	31	..
Palmerston	21	12.2	0.7	6.5	+0.5	17.1	19	-5.6	7	21	6	-26	7	30	135
Cherry Farm Hospital	6	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Taiaroa Head	72	10.4	5.3	7.9	+0.6	15.6	19	2.4	12	34	13	-15	9	12	..
Invermay, Taieri	30	12.2	1.4	6.8	+0.2	18.2	10	-9.3	18	36	19	-27	7	12	104
Berwick Forest	18	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Dunedin Airport	1	12.5	0.7	6.6	+0.3	18.5	8	-5.3	6	36	11	-4	8	20	115
Musselburgh Dunedin	2	11.3	4.8	8.1	+0.7	18.3	10	0.4	14	39	14	-17	11	12	110
Te Anau	215	10.5	1.6	6.1	+0.7	15.4	8	-3.6	14	57	13	-32	25	18	114
West Arm, Manapouri	232	7.6	2.3	5.0	+0.3	11.0	25	-1.5	14	234	20	+2	72	18	..
Borland Burn	183	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Queenstown	329	10.2	1.1	5.7	+0.2	15.0	24	-2.9	14	79	9	+20	56	18	111
Queenstown Airport	349	10.0	-0.4	4.8	+0.1	14.3	8	-5.2	15	67	10	+22	45	18	..
Gibbston	354	10.5	0.5	5.5	..	15.0	30	-5.3	14	70	8	..	40	18	..
Otama	183	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Cromwell Sub Stn	213	11.0	-0.7	5.2	..	15.3	10	-5.8	14	47	7	+22	32	18	..
Cromwell	213	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Northburn	210	11.3	-0.6	5.4	..	15.5	10	-4.9	16	39	10	..	26	18	..
Cromwell 2	213	11.1	-1.3	4.9	..	15.9	10	-6.1	14	48	10	..	32	18	141
Lauder	370	10.9	0.1	5.5	..	16.5	8	-5.2	15	39	12	..	22	18	..
Clyde Dam	160	11.9	-0.2	5.9	..	16.7	10	-4.8	14	32	8	..	23	18	..
Ophir	305	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Clyde(Dsir)	171	11.9	-0.7	5.6	..	17.0	10	-6.0	14	30	8	..	21	18	..
Alexandra	141	12.2	-0.5	5.9	..	17.5	10	-5.7	14	26	6	..	16	18	129
Roxburgh Power Stn	110	12.1	1.5	6.8	+0.4	17.0	9	-6.0	15	32	12	+7	9	20	..
Etrick No 1	83	12.4	1.8	7.1	..	17.5	9	-6.5	14	36	10	..	13	19	..
Etrick No 2	91	11.9	1.7	6.8	..	16.7	10	-6.3	14	40	12	..	12	19	..
Deep Stream	396	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Beaumont	46	12.0	1.0	6.5	..	17.2	8	-4.6	14	84	19	+26	35	20	..
Mahinerangi Dam	396	8.7	0.9	4.8	+0.5	14.9	10	-5.5	14	67	16	+0	17	21	..
Tapanui	226	10.1	3.0	6.6	+0.3	15.2	8	-3.7	14	60	15	+1	19	20	..
Taieri Mouth	15	11.4	2.6	7.0	+0.5	18.2	10	-1.8	6	46	12	-2	19	20	..

CLIMATOLOGICAL TABLE—Summary of the Records of Temperature, Rainfall, and Sunshine for August 1985—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	mm	mm	mm	mm	mm	Hrs		
Tuatapere	27	12.1	2.2	7.2	..	17.1	9	-2.6	14	89	20	..	18	19	..
Otautau	55	11.0	1.3	6.2	+0.2	16.7	8	-4.0	14	109	16	+34	41	20	64
Winton	44	11.4	2.3	6.9	+0.5	16.8	9	-3.0	14	74	16	+21	17	20	91
Gore	123	10.5	2.1	6.3	+0.6	16.2	25	-3.6	14	69	18	+17	21	20	92
Hokonui Forest	46	11.2	1.5	6.4	+0.0	16.3	10	-5.0	14	86	13	+26	25	20	..
Woodlands	47	11.2	2.2	6.7	+0.3	16.2	10	-3.1	14	83	24	+21	18	20	..
Invercargill Airport	0	11.4	1.6	6.5	+0.3	16.3	10	-3.7	14	64	19	+2	15	1	90
Tiwai Point, Bluff	5	11.2	4.2	7.7	+0.7	15.1	10	-0.7	14	65	19	-3	11	11	..
Stewart Is	3	10.9	2.7	6.8	+0.6	15.1	10	-1.9	6	77	23	+7	17	19	..
Milton	18	11.7	0.9	6.3	+0.2	18.2	10	-4.3	6	52	12	+5	18	1	..
Clinton School	120	10.5	2.0	6.3	..	16.4	10	-3.5	14	50	19	..	19	20	..
Finegand Balclutha	6	12.1	2.7	7.4	+1.2	19.5	29	-3.0	6	38	14	+0	15	20	96
Owaka	5	11.4	1.7	6.6	+0.2	17.6	25	-5.0	6	66	17	+12	15	20	..
Nugget Point	129	10.1	3.8	7.0	+0.4	16.6	25	-0.2	21	64	16	+9	16	20	..
Tautuku	40	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Nadi Airport Fiji	15	29.0	19.3	24.2	+0.5	31.6	5	14.5	20	9	1	-48	9	5	218
Rarotonga Airport	7	25.3	19.7	22.5	+0.7	27.5	14	15.5	20	106	14	-25	72	30	177
Totokoitu, Rarotonga	9	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Raoul Is	38	18.8	13.1	16.0	-0.3	20.8	1	9.4	18	147	21	+9	41	7	184
Campbell Is	15	7.8	3.8	5.8	+0.6	13.5	9	-5.1	21	95	26	-10	19	23	13
Waitangi, Chatham Is	44	11.2	5.6	8.4	+0.1	14.4	20	0.4	22	38	26	-45	5	13	123
Scott Base Antarctica	16	-21.1	-36.0	-28.6	+2.2	-11.2	11	-47.4	31	..	..	..	..	..	..
LATE RETURNS AND CORRECTIONS															
Waiotemarama 07/1985	229	14.1	9.3	11.7	+0.8	17.6	20	5.2	5	232	28	..	25	20	..
Whangarei 06/1985	29	17.3	7.8	12.6	+0.5	20.2	7	3.8	28	177	16	..	51	25	127*
Waihi 07/1985	91	14.0	6.8	10.4	+1.6	18.3	13	-1.8	3	336	24	+107	111	20	92
Port Ohope 07/1985	9	15.3	7.4	11.4	+1.7	18.5	22	1.7	9	103	15	..	40	21	126
Waimihia Forest 07/1985	743	8.7	1.7	5.2	+1.1	12.0	2	-3.0	9	195	19	+31	67	26	..
Whatawhata 05/1985	104	16.5	5.5	11.0	-0.8	19.4	12	-0.8	20	130	5	-29	103	22	155
Whatawhata 06/1985	104	15.3	6.3	10.8	+1.1	18.6	6	0.5	27	219	20	+41	55	14	78
Pureora Forest 07/1985	549	10.2	3.7	7.0	+1.6	14.2	13	-1.6	3	163	25	-38	26	12	..
Esk Forest 07/1985	427	11.8	5.2	8.5	+1.7	15.7	13	0.6	3	494	15	+336	163	26	..
Ngamatea 06/1985	885	9.3	2.2	5.8	..	15.6	4	-4.0	27	112	16	..	29	22	..
Ngamatea 07/1985	885	..	..	..	..	..	..	..	..	247	19	..	40	26	..
Wharite Peak 05/1985	914	7.1	3.5	5.3	-0.4	13.0	10	-0.3	15	128	13	-59	37	30	..
Wharite Peak 06/1985	914	7.2	4.3	5.8	+2.0	11.6	5	0.5	24	149	..	-24	39	22	..
Manaia Dem Farm 07/1985	98	13.4	7.0	10.2	+1.8	17.1	17	-0.2	11	102	23	-24	11	12	97
Ahu Ahu Valley 07/1985	85	13.6	5.5	9.6	..	17.9	13	0.0	11	150	23	..	38	27	..
Okarito 06/1985	10	..	..	..	..	..	..	..	..	274	14	..	73	4	..
Okarito 07/1985	10	..	..	..	..	..	..	..	..	265	..	..	50	31	..
Brancott Valley 07/1985	64	13.4	2.4	7.9	..	17.3	17	-2.0	11	62	13	..	12	27	..
Kaikoura Flats 07/1985	24	12.4	2.7	7.6	..	18.8	18	-1.4	9	170	17	..	77	27	..
Ikawai 07/1985	70	11.3	0.7	6.0	+1.1	15.5	4	-4.0	1	61	6	+7	24	13	..
Kurow 05/1985	207	13.6	2.8	8.2	..	20.9	6	-2.4	31	7	7	..	3	14	..
Kurow 06/1985	207	11.1	2.7	6.9	..	16.9	10	-3.2	3	32	8	..	15	4	..
Naseby 07/1985	607	7.8	-1.8	3.0	..	14.2	4	-7.5	25	18	9	..	5	18	..
Windsor 07/1985	88	..	..	..	..	..	..	..	..	52	12	..	19	13	..
Taiaroa Head 07/1985	72	10.4	5.5	8.0	+1.2	17.0	3	2.3	9	50	16	-3	10	13	..
Te Anau 07/1985	215	8.8	1.7	5.3	+1.2	12.6	1	-2.9	25	97	19	+14	17	17	78
Queenstown 07/1985	329	8.7	1.0	4.9	+1.1	13.6	4	-3.1	27	41	14	-18	6	6	76
Deep Stream 07/1985	396	9.2	-1.8	3.7	..	16.5	4	-8.5	26	35	17	..	5	12	..
Finegand Balclutha 07/1985	6	9.9	1.3	5.6	+0.7	16.5	4	-3.1	26	39	10	-8	14	9	..
Totokoitu, Rarotonga 07/1985	9	24.2	18.7	21.5	+0.0	26.6	26	15.1	8	135	17	..	73	2	..
Scott Base Antarctica 01/1985	16	0.7	-5.6	-2.5	+2.5	3.9	25	-12.0	21	..	..	..	..	..	..

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 NEW ZEALAND WEATHER IN AUGUST 1985

In August it was drier and sunnier in most places with temperatures about normal.

South-westerly winds were more frequent than normal over the North and South Island but strong winds were less frequent than usual.

Mean sea level pressures were 2 hectopascals higher than average over New Zealand.

Most North Island farmers reported stock as being in good condition but grass growth was not as good as in June or July, due to the cooler weather. In Hawke's Bay there was a lack of feed on some farms and in North Otago in the South Island topsoils have been dry with slow grass growth and some stock in poor condition.

Gale force northerly winds caused major disruptions to Cook Strait rail ferry crossings and aircraft passengers during the 19th. Airports which were either marginal or closed were Auckland, Palmerston North, Wellington, Nelson, Westport, Hokitika and Duendin. Some turbo-prop aircraft were grounded and nearly 4000 passengers held up.

Some maximum gust recorded were:

Auckland Airport 88 km/hr.

Dunedin Airport 85 km/hr.

Wellington Airport 132 km/hr.

A number of small tornadoes occurred due to an unstable westerly flow over Auckland on the 2nd. One was sighted to the west of Auckland, and another caused minor damage at Rotorua Island. Another occurred on the 6th and took the roof off a deer shed and flattened 35 shelter trees, up to 25 metres high, on two farms near Hamilton at about 3.15 p.m. It left a 1-2 km long path of damage with a trail of no more than 100 metres wide in only a very short period of time. A short time after the tornado in Rukuhia an electrical storm accompanied by hail swept the Hamilton area. Hailstones were reported to be 7 to 8 mm in diameter, and in Cambridge hail was about 25 mm deep on some roads.

Snow fell to low levels in Canterbury and Otago during the 12th to 14th, and again in Otago on the 20th and 21st. South Island ski fields were closed on the 20th due to high winds.

Rainfall—Over the whole of the North Island rainfall was generally below normal. The only areas which received slightly above normal rainfalls were Taranaki and Wellington. Gisborne and Hawke's Bay

areas had below normal rainfall ranging from (19 mm) 22 percent of average at Napier Airport to 46 percent of average at East Cape. Gisborne was also rather dry with only (48 mm) 38 percent of average.

Over the South Island rainfall was below average in coastal regions and well above average in most inland high country regions. Oamaru received only (14 mm) 36 percent of average. To date this year Oamaru has had only 44 percent of the average rainfall.

Temperatures—Over the North Island mean daily maximum temperatures and minimum temperatures were slightly lower than usual ranging from between 0.0 to 0.5 C below average in most places. Night time temperatures averaged between 1.0 C to 1.5 C below normal in the Gisborne, Whakatane and Rotorua regions.

In the South Island mean temperatures were slightly warmer than average due to an increase in both mean daily maximum and minimum temperatures. Nelson and Marlborough were colder than average by about 0.5 C.

Some record or near record minimum air temperatures for August were recorded this month at the following stations:

Date	Station	Minimum temperature	Previous record
15 August	Roxburgh	-6.0 C	-6.3 C in 1972
16 August	Hamilton Airport	-4.8 C	-5.0 C in 1972
16 August	Whakatane Airport	-2.6 C	-2.4 C in 1980

Whakatane had a mean daily minimum temperature of 2.4 C, this is the coldest for August at that station for over 10 years.

Sunshine—Sunshine hours were above average over the whole of the country apart from the lower South Island. In many western and central North Island regions and in the Bay of Plenty this was the sunniest August for over 10 years, while in the South Island at Invercargill Airport it was the least sunniest August for 10 years.

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

Christchurch Airport (+ 39 hours).

Ohakea (+ 38 hours, the highest since 1972).

Ruakura (+ 33 hours, the highest since 1961).

Stratford (+ 33 hours).

Invercargill Airport (- 30 hours, the lowest since 1975).

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
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