



LAND & DEEDS OFFICE
- 3 DEC 1986
GISBORNE

SUPPLEMENT

TO THE

NEW ZEALAND GAZETTE

OF

THURSDAY, 20 NOVEMBER 1986

Published by Authority

WELLINGTON: FRIDAY, 21 NOVEMBER 1986

CLIMATOLOGICAL TABLE FOR SEPTEMBER 1986

CLIMATOLOGICAL TABLE—Summary of the Records of Temperature, Rainfall, and Sunshine for September 1986—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	Hrs			
Ruakura	40	16.0	6.6	11.3	+0.1	19.9	16	-0.2	1	62	16	-39	14	7	166
Whatawhata	104	15.3	7.3	11.3	-0.1	20.1	16	1.0	1	127	19	-7	41	16	142
Hamilton Aero	50	16.2	5.4	10.8	+0.0	20.6	16	-0.3	1	77	18	-28	20	16	..
Cambridge	76	16.3	5.7	11.0	+0.2	19.0	21	0.2	10	70	15	-21	21	16	..
Mokau Mohakatino Stn	46	14.6	7.5	11.1	-0.5	19.7	21	2.0	1	115	12	-1	28	7	..
Arapuni Power Stn	123	15.4	6.0	10.7	-0.5	18.8	25	0.0	1	110	15	-15	32	15	..
Waikeria	46	15.9	5.3	10.6	-0.1	18.5	21	-0.6	10	87	11	..	16	9	..
Te Kuiti Wepb	61	15.9	6.2	11.1	+0.0	20.6	16	0.5	1	124	20	-5	30	15	127
Wairere	122	14.7	5.9	10.3	..	18.8	21	-0.3	1	112	19	-21	27	15	..
Pureora Forest	549	11.9	3.3	7.6	-0.5	15.2	30	-2.7	1	142	19	-18	43	15	..
Mangakahu Valley	397	13.7	6.4	10.1	..	17.4	22	0.2	10	58	12	..	25	7	..
Taumarunui	171	15.5	4.7	10.1	-0.6	20.0	21	-2.2	10	102	19	-25	32	15	119
Tokirima	152	15.1	4.7	9.9	..	19.0	20	-1.3	10	137	18	..	49	15	..
Omata	61	15.4	8.5	12.0	+0.1	19.9	20	3.3	10	157	14	+38	54	15	..
New Plymouth	55	15.3	7.6	11.5	+0.0	19.4	20	1.2	24	140	16	+30	49	15	..
New Plymouth Aero	27	14.7	7.3	11.0	-0.2	18.1	20	1.7	24	114	15	+5	38	15	179
North Egmont	955	9.0	2.1	5.6	..	13.6	20	-1.1	10	714	20	..	193	15	..
Te Wera Forest	180	14.4	..	..	..	18.5	20	..	..	147	12	-5	55	15	..
Lower Retaruke	223	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Turangi	366	13.8	4.4	9.1	-0.3	19.0	30	-3.4	1	113	12	-29	52	15	158
Mt Ruapehu Chateau 2	1097	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Mt Bruce Res	305	..	4.3	..	..	..	..	-2.4	10	244	16	+29	47	16	..
Waingawa	114	14.5	4.4	9.5	-0.6	20.6	30	-2.0	10	69	16	-7	13	7	157
Kopua	311	12.8	5.0	8.9	-0.6	17.7	28	-1.6	1	162	16	+86	61	16	..
Waipukurau Aero	137	14.4	4.3	9.4	-0.7	19.5	28	-0.9	11	118	14	+56	48	16	146*
Dannevirke	207	13.5	5.2	9.4	-0.7	17.6	30	-1.7	10	121	18	+37	23	3	122
Porangahau	8	14.9	6.4	10.7	..	20.4	28	0.6	1	157	17	..	67	16	..
Castlepoint Light	3	14.3	8.6	11.5	-0.2	20.1	28	3.6	10	172	14	+95	99	16	..
Ngau Forest	244	13.9	3.7	8.8	-0.3	19.9	28	-2.9	10	191	15	+95	71	16	..
Tauherenikau	43	14.9	4.5	9.7	-0.8	20.3	28	-1.9	10	54	12	-33	8	15	147
Waiorongomai	21	13.9	5.8	9.9	-0.4	19.2	30	-1.0	10	60	16	-69	13	15	..
Martinborough	30	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Cape Palliser	10	14.4	7.6	11.0	-1.0	20.0	28	1.2	24	61	13	-18	21	16	..
Ruatoria	61	16.7	6.6	11.7	-0.3	21.5	28	-0.4	1	195	13	+27	82	20	..
Mangatu Forest	182	15.4	..	..	..	21.5	28	..	..	223	17	+106	45	20	..
Gisborne Manutuke	..	16.2	5.6	10.9	-0.7	23.4	28	-1.0	1	83	14	+1	29	20	..
Gisborne Aero	4	15.9	6.5	11.2	-0.4	23.8	28	0.1	1	113	18	+22	25	20	166
Waikaremoana Onepoto	643	11.5	4.6	8.1	-0.6	17.0	28	0.0	10	354	20	+180	56	22	..
Wharerata Forest	439	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Tokomaru Bay Maf Edl	244	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Esk Forest	427	13.1	5.1	9.1	-0.5	21.1	28	-0.9	10	276	14	+138	60	16	..
Ngamatea Nzfs	885	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Kaweka Forest	414	13.1	5.9	9.5	-0.6	20.7	28	0.6	10	172	14	+57	56	16	..
Napier Aero	2	15.6	6.1	10.9	-0.5	22.6	28	-1.1	1	126	14	+62	39	16	..
Napier Clive Square	2	16.3	6.3	11.3	-0.6	22.6	28	-0.9	1	122	15	+61	40	16	166
Havelock Nth Dsir 2	9	16.1	4.8	10.5	..	22.2	28	-2.4	1	105	16	..	43	16	156
Hastings Civic Sq.	16	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Whakatu	6	15.5	5.5	10.5	..	22.9	28	-1.0	1	94	14	..	35	16	..
Gwavas Forest	335	13.6	3.0	8.3	-0.5	20.2	28	-2.4	1	240	14	+144	138	16	..
Makaretu	335	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Mohaka Forest	286	14.4	5.7	10.1	-0.2	21.3	28	0.4	1	204	14	+82	47	17	..
Wairoa Frasertown	8	15.8	6.7	11.3	-0.5	23.0	28	0.5	1	219	18	+119	59	17	..
Wairoa Hospital	20	15.6	6.9	11.3	-0.4	23.0	28	1.0	1	222	12	+122	55	17	150
Kapiti Is	16	14.2	8.3	11.3	+0.2	18.4	30	3.8	10	58	13	-32	15	15	..
Paraparaumu Aero	7	14.0	6.6	10.3	-0.4	18.5	20	-0.3	10	67	14	-19	19	15	181
Bulls Flockhouse	9	14.1	6.2	10.2	-0.5	17.4	7	-2.1	10	59	17	-6	17	15	..
Ohakea	48	14.3	7.0	10.7	-0.4	17.5	7	1.2	10	67	16	+0	20	15	142
Kairanga Grasslands	15	14.4	6.2	10.3	-0.4	17.9	25	-1.0	10	54	15	-20	15	15	..
Palmerston N Aero	45	14.3	7.4	10.9	+0.3	17.8	7	-1.4	10	63	13	-9	18	15	..
Palmerston N D S I R	34	14.3	6.6	10.5	-0.5	18.1	7	-0.7	10	78	13	+4	21	28	119
Foxton	9	14.6	5.6	10.1	..	17.8	25	-2.0	5	54	17	..	16	15	157
Waitare Forest	3	14.4	5.9	10.2	-0.5	16.5	30	-2.3	10	56	10	-13	18	15	..
Levin Maf	46	14.2	6.5	10.4	-0.5	17.2	30	0.1	10	103	14	+17	25	15	135
Titahi Bay Te Pene Av	31	13.9	6.7	10.3	..	18.1	30	-1.4	10	47	15	..	13	2	..
Lower Hutt Avalon	15	14.2	6.4	10.3	-0.6	18.9	30	0.4	10	59	16	-43	17	15	..
Wellington Highland P	120	13.9	6.6	10.3	..	19.0	30	2.1	10	81	13	..	22	15	..
Wellington Kelburn	125	13.3	7.2	10.3	-0.2	18.3	30	2.2	10	65	13	-39	16	15	182
Somes Is	43	13.3	7.8	10.6	-0.3	18.2	30	2.5	10	50	18	-32	10	15	..
Lower Hutt Gracefield	34	13.6	..	..	..	18.8	30	..	..	67	11	-43	20	15	..
Wainuiomata Coast Rd	82	13.3	5.6	9.5	-0.6	18.9	30	-0.8	10	93	16	-61	21	17	..
Wellington Aero	6	13.8	7.9	10.9	-0.2	18.7	30	3.0	10	52	10	-33	12	16	..
Rimutaka Forest	37	13.6	5.8	9.7	..	19.0	30	-0.5	4	129	14	..	40	15	..
Kaitoke	223	12.7	4.4	8.6	-0.6	18.8	30	-2.8	24	203	20	+30	55	16	133
Wallaceville	56	14.0	5.4	9.7	-0.3	19.7	30	-1.8	10	64	17	-37	9	7	148
Cape Egmont	8	14.5	8.1	11.3	-0.5	16.5	26	2.5	4	183	17	+75	67	15	..

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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	Hrs			
Ashley Forest 1	107	..	..	..	-0.5	23.4	27	-0.9	11	59	10	+12	28	14	..
Rangiora Nzfs	46	14.5	2.8	8.7	-0.4	24.8	27	-0.4	10	67	9	+14	29	14	..
Darfield	195	14.7	3.1	8.9	-1.0	23.8	27	-2.5	11	64	10	+12	29	14	..
Eyrewell Forest	158	14.2	1.1	7.7	-0.8	24.2	27	-1.8	10	47	12	+5	25	14	178
Christchurch Aero	30	13.9	3.0	8.5	-0.8	25.0	27	-2.8	10	50	8	+8	24	14	..
Christchurch Gardens	7	14.4	3.7	9.1	-0.4	23.4	27	-0.2	10	44	8	+9	23	14	..
Christchurch Bromley	9	13.7	5.3	9.5	-0.1	23.0	27	3.1	9	48	9	+1	23	14	..
Mt Pleasant	137	13.4	6.4	9.9	..	..	..	..	..	..	..	..	..	..	..
Lincoln	11	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Quail Is Lands & S.	75	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Akaroa Rue Lavaud	3	15.4	3.7	9.6	+0.7	24.0	27	-0.5	10	78	10	..	31	15	..
L Tekapo Nzed	683	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Fairlie Riverview Tce	304	13.8	0.4	7.1	..	23.5	27	-3.1	10	82	11	..	34	15	..
Twizel Substation	451	13.1	1.1	7.1	..	20.0	27	-2.0	2	39	11	..	14	6	..
Ikawai	70	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Geraldine Nzfs	119	14.6	2.8	8.7	-0.1	22.5	27	-1.3	10	52	10	+1	20	15	..
Orari Estate	81	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Temuka	24	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Timaru Aero	26	13.9	2.5	8.2	-0.2	21.5	6	-0.6	10	38	8	+4	15	15	..
Timaru 2	17	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Waimate	61	14.0	3.8	8.9	-0.6	21.3	27	0.7	10	34	9	-1	8	15	..
Benmore Power Stn	253	13.7	3.9	8.8	..	21.0	27	-0.5	9	42	13	+8	14	14	..
Aviemore 2	241	13.4	3.7	8.6	..	20.1	27	-4.0	9	28	12	+0	7	15	..
Kurow	207	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Knobs Flat	375	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Lake Hawea	350	12.4	2.5	7.5	-0.8	17.9	30	-1.6	9	24	7	-50	11	6	..
Wanaka	296	14.2	1.9	8.1	-0.1	19.7	30	-2.2	9	32	8	-29	15	5	..
Queensbury Mwd	277	14.1	3.1	8.6	..	19.9	27	-2.3	9	23	9	..	11	6	..
Bendigo 2	200	15.0	2.4	8.7	..	21.3	27	-3.5	9	12	6	..	5	26	..
Nasebury Forest 2	607	11.8	0.8	6.3	..	18.0	27	-4.6	17	15	8	..	5	1	..
Oamaru Spey St	5	13.7	4.4	9.1	..	20.1	27	0.6	13	16	7	..	4	27	..
Maniototo School	427	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Herbert Forest	61	14.3	1.7	8.0	-0.2	20.8	26	-2.2	9	41	12	+0	10	14	..
Palmerston	21	13.9	2.2	8.1	+0.0	20.0	6	-2.0	2	36	9	+2	12	14	138
Cherry Farm Hospital	6	14.5	3.1	8.8	+0.5	21.2	6	-1.5	9	30	13	-7	9	14	..
Taiaroa Head	72	11.5	6.0	8.8	+0.0	18.0	6	2.5	9	23	15	-19	6	7	..
Invermay Edr	30	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Berwick Forest	18	14.4	2.0	8.2	-0.3	20.5	6	-1.8	16	14	13	-33	3	8	..
Dunedin Aero	1	14.2	2.5	8.4	-0.1	19.8	6	-2.5	14	20	7	-19	6	14	152
Dunedin Musselburgh	2	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Te Anau Po	215	13.1	3.0	8.1	+0.4	16.9	6	-3.0	9	48	9	-54	14	26	172
Manapouri West Arm 2	232	10.4	3.4	6.9	+0.2	14.0	22	0.3	19	362	20	+36	145	26	..
Borland Burn	183	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Queenstown	329	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Queenstown Aero	349	12.9	1.0	7.0	-0.3	17.8	27	-3.0	9	26	7	-33	14	6	..
Gibbston Nevis Bluff	366	13.7	..	..	..	18.3	27	..	..	16	6	..	7	6	..
Cromwell Sub Stn	213	14.6	2.0	8.3	..	20.5	27	-3.4	9	12	6	-14	4	6	..
Cromwell Climat	213	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Northburn	210	14.8	2.4	8.6	..	21.5	27	-3.0	9	13	9	..	4	26	..
Cromwell 2	213	14.5	1.8	8.2	..	20.0	27	-3.7	9	20	9	..	6	26	187
Clyde Dam	160	14.9	1.7	8.3	..	21.1	27	-2.6	9	14	7	..	5	26	..
Ophir 2	305	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Clyde Dsir	171	14.8	1.3	8.1	..	21.2	27	-4.6	17	14	8	..	5	26	..
Alexandra B Council	141	16.1	1.2	8.7	..	21.5	27	-3.5	9	7	5	..	4	26	171
Roxburgh Power Stn	110	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Ettrick No 1	83	15.5	1.4	8.5	..	21.0	27	-4.5	17	6	6	..	3	6	..
Ettrick No 2	91	14.7	1.2	8.0	..	20.1	29	-4.3	17	9	8	..	3	6	..
Beaumont Nzfs	46	15.2	2.0	8.6	..	19.9	6	-3.0	17	27	11	-39	5	7	..
Mahinerangi Dam	396	11.0	1.4	6.2	-0.3	15.6	6	-3.5	17	18	8	-40	5	14	..
Tapanui	226	12.8	3.4	8.1	-0.3	18.5	6	-2.6	16	24	8	-37	7	6	..
Taieri Mouth	15	13.3	3.7	8.5	+0.1	20.2	6	-1.6	16	16	11	-33	4	6	..
Tuatapere	27	14.1	3.5	8.8	..	19.5	26	-3.1	16	46	14	..	10	6	..
Otautau Nzfs	55	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Winton B Council	44	13.7	3.3	8.5	+0.0	18.8	6	-4.1	16	33	11	-27	10	14	154
Gore Grasslands Dsir	123	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Hokonui Forest	46	13.8	3.1	8.5	-0.1	19.0	6	-4.3	16	35	13	-35	7	7	..
Invercargill Aero	0	13.1	3.4	8.3	+0.1	18.8	6	-3.3	16	66	19	-11	12	6	161
Tiwai Point	5	12.4	4.9	8.7	-0.1	18.4	6	-1.0	16	96	18	+12	18	6	..
Stewart Is	3	11.9	4.3	8.1	+0.1	17.8	26	-1.7	16	202	23	+86	53	6	..
Clinton School	120	12.6	3.3	8.0	..	19.1	6	-0.9	21	27	11	..	5	6	..
Balclutha Finegand	6	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Owaka	5	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Nugget Point	129	11.9	5.1	8.5	+0.3	17.6	6	2.0	9	28	15	-30	7	26	..
Tautuku	40	12.9	3.8	8.4	+0.0	20.5	6	-1.7	16	47	17	-43	8	26	..
Nadi Airport Fiji	15	28.4	19.0	23.7	-0.9	31.4	20	15.2	23	75	7	-17	30	11	211

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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					mm	mm	mm			
Rarotonga Airport	7	25.2	20.4	22.8	+0.5	28.0	22	20.8	10	239	12	+127	111	13	116
Totokoitu, Rarotonga	9	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Raoul Is	38	18.7	12.9	15.8	-0.7	20.8	21	8.7	13	122	18	-1	60	14	181
Campbell Is	15	7.9	2.3	5.1	-0.5	10.0	26	-4.3	18	116	25	+10	16	26	48
Waitangi, Chatham Is	44	11.6	6.6	9.1	-0.2	13.5	15	2.4	7	56	21	-10	9	12	111
Kaingarua, Chatham Is	41	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Scott Base Antarctica	16	-29.6	-42.8	-36.2	-8.1	-16.7	8	-50.7	3	..	..	..	..	..	..
LATE RETURNS AND CORRECTIONS															
Whangarei Hospital 08/1986	29	15.5	6.1	10.8	-0.8	18.6	22	1.3	16	148	20	..	32	12	172*
Kumeu 08/1986	32	14.8	4.7	9.8	-0.7	17.6	9	-2.1	16	168	18	..	20	20	..
Wairakei Research Stn 08/1986	402	12.8	0.8	6.8	-0.5	16.6	9	-4.5	3	140	14	+18	33	22	..
Opotiki 08/1986	6	14.3	5.3	9.8	-0.4	16.7	9	0.0	26	153	11	+17	48	8	158
Matawai Maf Edl 08/1986	580	10.8	0.8	5.8	..	17.1	9	-5.4	3	174	17	..	53	21	..
Te Kauwhata Maf 08/1986	32	14.4	4.9	9.7	-0.5	18.1	9	-1.0	16	121	18	+12	27	8	141
Lower Retaruke 08/1986	223	12.9	1.7	7.3	-0.7	16.6	11	-3.8	27	93	14	-43	19	20	..
Mt Ruapehu Chateau 2 08/1986	1097	7.6	-0.7	3.5	..	12.0	9	-6.2	27	104	..	..	21	20	..
Tokomaru Bay Maf Edl 08/1986	244	13.1	5.5	9.3	..	20.2	9	1.9	5	144	13	..	73	21	..
Hastings Civic Sq. 08/1986	16	13.2	4.1	8.7	..	18.2	11	-0.7	7	50	17	..	12	22	..
Normanby Edr 06/1986	122	12.6	5.7	9.2	..	16.8	10	-2.0	17	93	19	..	15	21	..
Cape Campbell 08/1986	3	..	..	..	..	..	..	..	..	137	..	+66	..	..	..
Boyle River Lodge 08/1986	600	8.1	-0.5	3.8	..	13.9	20	-8.9	9	155	..	..	32	10	..
Mt Cook The Hermitage 08/1986	765	6.8	-2.4	2.2	-1.3	13.6	20	-5.2	3	144	15	-133	48	19	106
Quail Is Lands & S. 06/1986	75	..	..	..	..	..	..	..	..	52	..	..	..	..	..
Quail Is Lands & S. 07/1986	75	..	..	..	..	..	..	..	..	164	..	..	..	..	..
Lake Hawea 05/1986	350	11.8	2.5	7.2	-0.1	16.2	12	-2.0	24	91	9	+14	36	29	..
Lake Hawea 06/1986	350	8.5	0.0	4.3	+0.1	14.5	6	-3.7	17	150	17	+93	39	10	..
Lake Hawea 07/1986	350	7.6	0.0	3.8	+0.1	13.8	30	-4.6	4	57	12	+0	15	31	..
Lake Hawea 08/1986	350	9.1	-0.1	4.5	-1.0	13.7	20	-2.5	15	13	9	-52	8	19	..
Ettrick No 2 08/1986	91	10.4	-0.1	5.2	..	16.2	20	-4.8	26	29	12	..	7	8	..
Tautuku 08/1986	40	10.4	2.8	6.6	-0.1	17.5	19	-1.5	26	77	17	+12	24	1	..
Totokoitu, Rarotonga 06/1986	9	25.6	20.2	22.9	+0.5	28.1	18	17.0	24	294	19	..	78	13	..
Totokoitu, Rarotonga 08/1986	9	24.4	18.5	21.5	+0.1	27.4	12	14.1	5	165	19	..	38	12	..
Scott Base Antarctica 08/1986	16	-26.5	-40.5	-33.5	-2.7	-18.0	17	-51.6	6	..	..	..	..	..	..

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 SEPTEMBER 1986

General—This September it was wetter than normal in some northern regions of the North Island, and in most eastern regions of the country.

Strong winds occurred with only half their normal frequency for September over the north of the North Island. South-westerly winds prevailed with almost twice their normal frequency over the North Island for September. Westerlies prevailed over the South Island, with little variation from normal.

Mean sea level pressures ranged from 2 hPa below normal at Invercargill to almost 5 hPa below normal at New Plymouth.

Many farmers noted that pasture growth was slow this month. There was also a high incidence of lamb losses in Hawkes Bay.

One event of significance this month was that of a small tornado which caused damage to approximately one thousand properties in Auckland City on the afternoon of the 8th.

Rainfall—Rainfall was above normal for September in Whangarei, Gisborne, Hawke Bay (where up to 200 percent of normal rainfall was recorded), Marlborough, Nelson and Canterbury. Heavy rain

NOTE: Amendment to 'The Weather in New Zealand in June 1986'. Due to an error in data, the mention of -12°C at The Hermitage (Mount Cook) on 13 June is now not valid.

occurred at Whangarei Airport in the 48 hours of 9 a.m. on the 21st, when just over 150 mm was recorded.

It was much drier than usual in Otago, where total rainfall was only 30 to 50 percent of normal in most places.

Temperature—Mean daily temperatures for September were near average throughout New Zealand, being slightly colder than usual in inland and east coast regions, and slightly higher than usual in Auckland, Bay of Plenty, Buller and Westland.

Sunshine—Up to 20 percent above normal sunshine for September was recorded in places on the west coast of the North Island from Taranaki to Wellington, and in Nelson, North Canterbury and Southland.

To date this year Kelburn (Wellington) has had 14 percent more sunshine than normal, each month being sunnier than usual.

Hours of bright sunshine were 10 percent below average in the Bay of Plenty.

J. S. HICKMAN, Director.

THESE MAPS ARE MEAN SEA LEVEL ANALYSES
FOR 0000 HOURS. THEY WERE PREPARED BY
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