



LAND & SURVEY OFFICE
1985
CANTONMENT

SUPPLEMENT

TO THE

NEW ZEALAND GAZETTE

OF

THURSDAY, 14 NOVEMBER 1985

Published by Authority

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CLIMATOLOGICAL TABLE FOR SEPTEMBER 1985

NEW ZEALAND METEOROLOGICAL SERVICE

CLIMATOLOGICAL TABLE—Summary of the Records of Temperature, Rainfall, and Sunshine for September 1985

Station	Height of Station Above M.S.L.	Air Temperature in Degrees Celsius								Rainfall in Millimetres				Bright Sun-shine Hrs	
		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	Hrs		
Cape Reinga	191	16.3	10.8	13.6	+0.6	19.6	27	8.8	7	151	23	+60	55	17	..
Kaitaia Airport	80	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Aupouri Forest	69	16.7	10.8	13.8	+0.4	19.0	27	7.5	13	142	22	+43	69	17	..
Kaitaia	8	17.5	9.8	13.7	..	19.5	27	4.7	30	134	21	..	56	17	..
Kaitaia	85	16.9	10.2	13.6	..	19.2	20	6.1	13	118	21	..	45	17	127
Kerikeri M A F	79	17.3	9.5	13.4	..	21.9	27	5.7	30	204	24	..	94	3	..
Kerikeri Downs	74	16.5	9.0	12.8	..	20.6	27	5.5	30	189	24	..	89	3	..
Kerikeri Downs 2	74	16.8	9.2	13.0	..	20.8	27	4.6	10	150	24	..	71	3	..
Kerikeri Aerodrome	150	16.3	8.9	12.6	..	21.6	27	5.7	30	199	26	..	61	3	..
Umawera	9	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Panguru	9	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Kaikohe	204	14.8	9.2	12.0	+0.0	18.3	27	5.6	30	229	23	+84	64	17	91
Waiotemarama	229	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Waipoua Forest	88	16.3	8.5	12.4	+0.5	19.1	27	3.5	15	123	15	-17	38	3	..
Dargaville	20	16.8	9.3	13.1	+0.8	19.3	4	3.8	12	85	15	-9	29	3	121
Waitangi Forest	55	17.0	10.2	13.6	+0.5	21.8	27	6.3	30	110	24	-16	38	3	122
Glenbervie Forest	107	16.1	8.3	12.2	+0.9	21.0	27	1.2	12	239	22	+86	68	3	..
Whangarei Airport	37	16.6	9.7	13.2	+0.3	21.1	27	5.8	12	185	22	+63	58	3	..
Whangarei	29	17.0	9.2	13.1	+0.5	22.0	27	5.0	12	187	22	..	58	3	121*
Marsden Power Stn	3	17.1	10.4	13.8	+0.8	21.5	27	5.6	12	100	22	-11	47	3	..
Poua	97	15.7	9.9	12.8	..	17.9	2	6.0	6	121	20	..	39	3	..
Leigh	27	16.0	11.5	13.8	+0.9	19.3	27	8.7	7	81	20	-28	35	3	138
Warkworth	72	15.9	9.1	12.5	+0.5	19.2	27	4.2	15	142	28	-3	59	3	..
Oyster Point	0	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Woodhill Forest	30	16.6	9.3	13.0	+0.8	18.2	4	4.0	14	80	19	-31	26	3	..
Riverhead Forest	28	16.6	8.7	12.7	+0.8	18.9	27	2.8	14	123	13	+6	41	27	..
Kumeu	32	16.8	9.3	13.1	+1.2	19.2	5	2.6	14	97	20	..	22	3	..
Whenuapai	26	16.4	8.8	12.6	+0.6	18.7	27	3.6	14	74	22	-39	20	3	..
Albert Park Auckland	49	16.8	10.8	13.8	+0.6	19.5	27	8.4	7	88	20	-13	32	3	155*
Owairaka, Auckland	41	16.6	9.7	13.2	+0.9	18.7	27	6.9	11	73	17	-37	24	3	..
Port Fitzroy	4	17.0	10.3	13.7	+0.5	19.7	27	6.0	12	130	23	-34	27	3	..
Little Barrier Is	2	16.7	..	..	..	19.4	27	..	..	84	24	-37	23	3	..
Rotoroa Is	30	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Awaroa Valley	30	16.7	9.8	13.3	..	19.9	27	5.1	14	88	16	..	46	3	..
Manukau Heads	244	14.8	9.8	12.3	..	17.0	27	7.6	8	75	..	-6	40	3	..
Coromandel	43	16.7	10.2	13.5	..	20.8	4	5.5	15	239	25	..	68	26	..
Whangapoua Forest	4	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Thames	3	16.7	10.4	13.6	+0.8	19.8	4	7.2	13	90	27	-17	17	3	..
Tairua Forest	3	16.5	9.6	13.1	+1.0	21.2	27	4.8	15	176	21	+15	53	3	..
Ngatea	1	17.1	..	..	..	21.0	27	..	..	87	23	..	18	3	..
Paeroa	4	17.1	9.0	13.1	+1.3	21.1	27	3.9	13	95	23	-28	16	17	..
Waihi	91	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Te Aroha	18	16.8	9.4	13.1	+0.7	20.4	27	4.8	13	130	25	-10	27	18	..
Katikati	2	16.5	9.4	13.0	..	21.1	27	4.0	13	84	20	..	31	3	..
Waharoa	60	16.2	8.2	12.2	..	19.8	27	2.5	7	79	12	..	20	3	..
Tauranga	2	16.3	10.3	13.3	+0.9	20.3	27	6.5	7	88	17	-25	22	26	..
Tauranga Airport	4	16.1	9.1	12.6	+0.8	20.0	27	3.4	7	82	18	-34	22	13	159
Te Puke	91	15.9	7.7	11.8	+0.2	20.2	27	3.0	7	116	15	-64	45	26	129
Rotoehu Forest	72	16.0	5.9	11.0	+0.3	20.2	27	0.3	7	117	14	-17	50	26	..
Whakatane Airport	6	16.6	6.9	11.8	+0.8	19.2	27	1.2	8	78	14	-20	42	3	..
Te Kaha	6	16.9	8.7	12.8	..	18.6	27	4.6	9	131	11	..	52	3	..
Port Ohope	9	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Kinleith	383	..	6.3	..	..	..	..	0.5	7	108	15	-35	35	3	..
Tikitere	338	13.9	7.1	10.5	+0.5	17.6	27	2.6	7	203	17	..	87	3	..
Kawerau	30	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Te Teko	8	18.5	7.1	12.8	+1.2	22.6	27	2.9	9	124	15	-6	54	3	154
Rotorua Airport	287	14.6	7.0	10.8	+0.6	17.5	27	1.7	7	155	19	+33	67	3	138
Waiotapu Forest	435	13.8	4.5	9.2	+0.0	17.2	27	-4.8	8	109	19	-14	45	3	..
Atiamuri Power Stn	253	15.5	5.4	10.5	+0.7	18.5	27	0.0	7	81	14	-36	25	3	..
Kaingaroa Forest	544	13.0	4.3	8.7	+0.2	16.3	27	-1.6	7	130	15	-4	61	3	..
Murupara	198	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Ohaaki	350	14.9	4.4	9.7	..	18.5	27	-3.2	2	68	16	..	22	3	..
Wairapukao Forest	437	14.6	2.2	8.4	+0.1	17.4	27	-3.0	15	97	13	-19	52	3	..
Taupo	376	14.3	..	..	..	17.3	27	..	..	80	14	-17	31	3	145
Wairakei Power Stn	342	15.1	5.0	10.1	+0.5	18.4	27	-0.3	7	83	16	-21	31	3	..
Wairakei Research Stn	402	15.3	4.5	9.9	+0.8	17.6	27	-1.6	7	86	12	-20	34	3	..
Minginui Forest	366	14.7	2.6	8.7	-0.2	18.0	27	-3.0	23	176	8	+48	76	5	..
Taupo Airport	400	14.2	4.8	9.5	+0.4	17.0	27	-2.2	7	68	11	-9	25	3	..
Waimihia Forest	743	11.3	2.7	7.0	+0.2	14.3	27	-2.0	7	148	14	+6	47	3	..
Opotiki	6	16.4	7.4	11.9	+0.4	19.1	10	2.1	8	100	9	-13	38	3	164
Waimana	37	17.0	5.7	11.4	+0.4	20.0	27	-0.2	23	226	10	+86	117	3	..
Mangere Auckland	4	16.5	10.3	13.4	+0.8	18.7	27	5.6	14	63	19	-33	24	3	152
Otara Auckland	12	16.7	9.4	13.1	+1.2	19.3	27	4.4	14	88	20	-12	37	3	..
Auckland Airport	8	16.5	9.9	13.2	+0.6	18.8	27	6.2	14	70	17	-25	26	3	168
Ardmore	30	16.8	8.5	12.7	+1.0	18.9	27	4.7	15	105	20	-3	27	3	..

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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	mm	mm		
Pukekohe	82	..	..	..	..	..	..	..	..	..	..	..	..	..
Maioiro Forest	52	16.9	9.3	13.1	+0.8	19.0	25	4.6	23	55	13	-61	12	3	
Hunua	122	16.0	7.7	11.9	..	18.3	27	3.3	15	110	23	..	34	3	
Maramarua Forest	38	16.5	7.7	12.1	+0.9	19.0	27	3.0	15	84	20	-23	27	3	
Te Kauwhata	32	16.9	8.1	12.5	+0.6	18.0	27	4.5	15	81	24	-14	17	3	
Huntly	34	..	..	..	..	..	..	..	..	..	..	..	..	149
Ruakura Hamilton	40	16.4	7.8	12.1	+0.9	19.0	27	3.8	28	71	15	-30	23	3	
Whatawhata	104	..	..	..	..	..	..	..	..	..	..	..	..	157
Hamilton Airport	50	16.6	6.8	11.7	+0.9	19.0	13	2.5	7	80	15	-25	23	3	
Cambridge	76	16.6	7.5	12.1	+1.3	19.1	27	1.9	7	73	17	-18	16	3	
Mohakatino Stn Mokau	46	16.0	9.2	12.6	+1.0	19.0	15	3.9	7	69	12	-47	21	3	
Arapuni Power Stn	123	16.6	7.3	12.0	+0.8	19.9	22	2.1	7	75	16	-50	19	3	
Waikeria	46	16.6	7.2	11.9	+1.2	19.1	13	0.9	7	63	13	..	18	3	
Te Kuiti	61	16.8	7.4	12.1	+1.0	19.0	20	2.5	7	91	17	-38	29	3	
Waikare	156	15.7	6.6	11.2	..	18.1	20	1.4	12	126	12	-7	49	3	
Pureora Forest	549	12.5	4.9	8.7	+0.6	15.6	20	-1.1	7	148	17	-12	57	3	
Mangakahu Valley	397	14.0	6.6	10.3	..	16.8	22	4.0	29	110	11	..	31	3	
Taumarunui	171	16.6	5.8	11.2	+0.5	19.4	20	-0.8	7	94	14	-33	21	4	
Tokirima	152	16.3	4.4	10.4	..	19.2	20	-0.6	7	119	10	..	51	3	
Omata	61	16.0	9.3	12.7	+0.8	18.2	25	5.8	7	104	16	-15	18	26	
New Plymouth	55	..	..	..	..	..	..	..	..	..	..	..	..	..
New Plymouth Airport	27	15.7	8.5	12.1	+0.9	18.6	26	4.8	7	85	15	-24	25	3	
North Egmont	955	9.0	3.3	6.2	..	12.7	9	-0.2	7	510	19	..	89	26	
Te Wera Forest	180	15.5	4.6	10.1	+0.5	18.4	22	-1.0	7	79	11	-73	33	3	
Lower Retaruke	223	15.8	5.3	10.6	+0.6	19.2	20	-0.5	7	92	11	-29	29	3	
Turangi	366	14.3	5.2	9.8	+0.4	17.4	27	0.3	7	114	15	-28	38	3	
Chateau, Mt Ruapehu	1097	..	..	..	..	..	..	..	..	..	..	..	..	..
Hukanui	235	..	..	..	..	..	..	..	..	..	..	..	..	..
Mt Bruce Res	305	15.0	3.7	9.4	+0.6	19.9	9	-1.8	14	124	..	-91	22	3	
Waingawa Masterton	114	15.4	5.2	10.3	+0.2	20.0	9	-0.5	14	68	11	-8	17	5	
Kopua	311	14.0	5.4	9.7	+0.2	19.0	4	0.7	12	40	14	-36	10	5	
Waipukurau	137	15.2	4.8	10.0	-0.1	20.8	27	-1.6	14	29	11	-33	9	6	
Dannevirke	207	14.9	5.6	10.3	+0.2	18.8	4	1.2	14	46	15	-38	20	5	
Porangahau	8	15.9	6.3	11.1	..	21.8	4	0.9	14	28	10	..	8	5	
Castlepoint	3	14.8	8.8	11.8	+0.1	20.0	9	4.6	7	27	12	-50	11	6	
Ngaumu Forest	244	15.3	4.4	9.9	+0.8	19.1	9	-0.9	13	36	9	-60	13	6	
Tauherenkau, Alloa	43	16.2	5.0	10.6	+0.1	20.3	26	0.2	14	92	10	+5	37	4	
Waiorongomai	21	15.3	5.2	10.3	+0.0	20.2	26	-0.7	12	70	9	-59	26	4	
Cape Palliser	10	15.6	8.6	12.1	+0.1	20.3	26	3.3	12	34	7	-45	12	4	
Ruatoria	61	16.6	7.0	11.8	-0.2	20.8	30	-0.6	8	128	18	-40	42	3	
Mangatu Forest	182	..	..	..	..	..	..	..	..	87	..	-30	..	..
Manutuke Gisborne	9	16.7	6.4	11.6	+0.0	21.6	27	0.1	8	38	15	-44	16	3	
Gisborne Airport	4	16.9	5.9	11.4	-0.2	21.6	27	2.1	1	62	16	-29	17	20	
Onepoto, Waikaremoana	643	12.7	4.5	8.6	-0.1	20.1	8	-1.2	8	111	17	-63	33	3	
Wharerata Forest	439	12.8	6.0	9.4	..	18.7	10	2.5	7	82	16	..	18	11	
Esk Forest	427	13.9	5.4	9.7	+0.1	19.5	10	-0.6	7	40	13	-98	8	3	
Ngamatea	885	..	..	..	..	..	..	..	..	..	..	..	..	..
Kaweka Forest	414	13.8	5.7	9.8	-0.3	19.0	27	1.2	7	40	15	-75	16	3	
Napier Airport	2	16.3	6.3	11.3	-0.1	23.1	27	0.4	24	19	10	-45	4	5	
Napier	2	17.1	7.3	12.2	+0.3	22.9	27	1.7	14	18	9	-43	4	5	
Hastings	16	..	..	..	..	..	..	..	..	..	..	..	..	..
Whakatu	6	16.4	6.1	11.3	..	23.3	27	-0.4	8	12	11	..	4	6	
Gwavas Forest	335	14.6	3.3	9.0	+0.2	19.5	26	-0.7	7	42	13	-54	7	3	
Makaretu	335	14.7	4.5	9.6	+0.0	19.4	27	-1.9	12	42	17	-38	8	5	
Mohaka Forest	286	15.2	5.6	10.4	+0.1	20.5	10	0.7	12	40	9	-82	15	11	
Frasertown, Wairoa	8	16.9	6.6	11.8	+0.0	21.8	10	2.0	8	46	18	-54	12	11	
Wairoa	20	..	..	..	..	..	..	..	..	..	..	..	..	..
Kapiti Is	16	..	..	..	..	..	..	..	..	..	..	..	..	..
Paraparamu Airport	7	15.2	6.0	10.6	-0.1	19.1	26	0.8	12	51	7	-35	13	3	
Flockhouse Bulls	9	16.1	5.9	11.0	+0.3	21.0	26	-0.3	14	47	9	-18	15	27	
Ohakea	48	16.0	6.5	11.3	+0.2	21.3	26	1.2	7	47	9	-20	10	3	
Wharite Peak	914	..	..	..	..	..	..	..	..	..	..	..	..	194
Kairanga Palmerston N	15	16.1	5.7	10.9	+0.2	21.6	26	-0.5	7	39	8	-35	13	5	
Palmerston N Airport	45	15.9	6.5	11.2	+0.6	21.2	26	0.0	7	51	9	-21	16	5	
Palmerston N D S I R	34	16.0	6.9	11.5	+0.5	21.0	26	0.8	7	43	7	-31	18	5	
Tiritia	100	15.2	7.1	11.2	..	20.0	26	1.0	7	49	8	..	23	5	
Waitarere Forest	3	15.8	6.1	11.0	+0.3	20.6	26	-1.6	7	41	8	-28	12	3	
Levin	46	15.7	7.6	11.7	+0.8	21.1	26	1.4	7	60	7	-26	20	3	
Titahi Bay	31	15.4	6.2	10.8	..	19.3	26	0.5	12	60	8	..	21	3	
Avalon, Lower Hutt	15	15.7	5.9	10.8	-0.1	19.0	26	1.7	12	60	8	-42	19	4	
Highland Pk Wgtn	120	14.9	6.7	10.8	..	18.5	30	2.9	12	98	7	..	22	6	
Kelburn, Wellington	125	14.7	7.8	11.3	+0.8	18.2	26	3.5	12	93	7	-11	25	4	
Somes Is	43	14.7	7.7	11.2	+0.3	18.0	26	4.0	13	67	8	-15	19	4	
Gracefield Lower Hutt	34	15.0	7.3	11.2	+0.2	19.0	26	2.5	13	81	6	-29	23	4	
Wainuiomata	82	14.9	5.4	10.2	+0.1	19.0	26	0.1	13	88	7	-66	33	4	

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	Metres	°C	°C	°C	°C	°C	°C	°C	mm	mm	mm	mm	mm	Hrs	
Wellington Airport	6	15.2	7.2	11.2	+0.1	19.2	26	2.5	16	73	7	-12	21	4	
Rimutaka Forest	37	15.5	5.2	10.4	..	19.2	26	-0.6	13	103	7	..	29	4	
Kaitoke	223	14.3	3.4	8.9	-0.3	18.9	26	-3.2	14	108	10	-65	32	4	
Wallaceville	56	15.8	3.6	9.7	-0.3	19.8	26	-1.4	14	73	10	-28	24	4	
Cape Egmont	8	15.9	8.5	12.2	+0.4	18.3	25	4.4	4	80	12	-28	17	26	
Stratford Mtn House	846	9.7	3.0	6.4	+0.4	12.5	25	-0.3	2	361	14	-224	100	4	
Stratford Dem Farm	311	14.6	5.6	10.1	+0.8	17.6	26	1.1	7	127	12	-41	46	3	
Kapuni	173	15.5	6.7	11.1	..	18.6	25	2.6	2	100	..	..	36	3
Manaia Dem Farm	98	..	..	..	..	..	..	..	..	..	..	..	..	..
Normanby	122	15.0	6.3	10.7	+0.5	18.7	26	2.2	13	94	16	..	31	3	
Patea	43	..	..	..	..	..	..	..	..	..	..	..	..	..
Moumahaki Exp Farm	87	..	..	..	..	..	..	..	..	..	..	..	..	..
Pipiriki	80	17.0	5.7	11.4	..	19.5	16	1.5	17	99	15	..	39	3	
Ohakune Junction	629	13.1	2.3	7.7	+0.3	16.7	3	-1.3	17	95	13	-25	31	3	
Karioi	648	13.3	2.6	8.0	+0.2	18.0	26	-3.2	24	61	10	-30	13	3	
Waiouru	823	11.5	3.2	7.4	+0.8	14.5	23	-2.2	7	56	14	-26	19	3	
Waiouru Military Camp	823	11.1	3.0	7.1	+0.8	14.0	2	-3.3	7	57	11	-35	20	3	
Ahu Ahu Valley	85	16.9	5.0	11.0	..	20.0	3	0.6	17	70	12	..	26	3	
Taihape	433	15.0	..	..	..	19.9	26	..	..	38	12	-44	9	6
Kahui, Taihape	518	13.9	5.3	9.6	+0.7	16.9	24	0.1	7	30	8	-44	6	3	
Wanganui	22	16.6	7.4	12.0	+0.6	21.2	25	3.5	7	47	10	-16	16	3	
Wanganui Airport	9	16.3	6.6	11.5	..	21.5	26	2.8	15	51	9	-9	15	3	
Totaranui	10	15.3	6.9	11.1	..	18.5	10	2.4	7	70	8	-64	23	26	
Westport Airport	2	15.2	7.8	11.5	+1.2	18.1	15	4.7	6	152	15	-24	31	3	
Cobb Dam	823	9.5	1.8	5.7	-0.1	13.5	20	-2.6	7	313	19	+137	131	3	
Arapito	20	15.9	7.1	11.5	..	19.0	18	2.0	7	169	13	..	27	5	
Lake Rotoroa	443	..	..	..	..	..	..	..	..	224	11	..	50	3
Lake Rotoiti	634	12.1	1.9	7.0	+0.4	16.2	20	-5.4	7	141	14	+7	26	27	
Hokitika Airport	39	14.9	6.4	10.7	+1.0	18.9	15	0.2	7	267	16	+31	88	3	
Punakaiki	4	15.9	9.1	12.5	..	19.2	15	4.5	7	187	15	..	44	4	
Reefton	198	15.5	4.3	9.9	+0.8	20.5	20	-3.7	7	215	15	+38	46	3	
Barrytown	30	15.3	8.7	12.0	..	18.7	15	4.4	7	165	13	-50	44	4	
Totara Flat	77	16.0	4.0	10.0	+0.5	21.3	20	-2.3	7	190	15	+29	38	3	
Greymouth	4	14.9	7.1	11.0	+0.6	17.9	17	1.9	7	171	14	-23	43	3	
Otira Substation	383	13.2	3.5	8.4	+1.0	19.5	20	-2.5	7	457	17	-14	144	26	
Springs Junction	421	12.9	2.6	7.8	+0.7	17.9	19	-3.5	7	270	15	+77	64	4	
Pukekura	86	14.6	4.2	9.4	..	18.6	15	-1.6	7	242	16	..	68	4	
Hari Hari	45	15.3	4.9	10.1	+1.0	18.9	19	-1.5	7	302	16	-31	78	4	
Okarito	10	14.8	6.4	10.6	..	17.7	15	1.2	7	204	15	..	54	3	
Franz Josef	155	14.7	5.8	10.3	..	18.2	17	1.6	7	407	16	..	119	3	
Fox Glacier	152	14.1	5.1	9.6	+1.0	17.8	20	0.5	7	391	17	-46	125	3	
Milford Sound	3	13.9	4.4	9.2	+0.5	18.6	16	-0.3	7	398	15	-168	132	26	
Deep Cove	30	..	..	..	..	..	..	..	..	..	..	..	..	..
Puyssegur Point	43	13.1	7.5	10.3	..	18.5	26	2.1	11	78	18	-97	11	28	
Stephens Is	187	12.9	8.7	10.8	+0.9	15.7	25	5.2	12	49	8	-13	15	5	
Riwaka Motueka	8	15.6	5.5	10.6	+0.5	19.2	9	-0.3	7	171	12	+65	85	3	
Tapawera	146	15.1	3.9	9.5	..	18.1	9	-2.3	7	134	12	..	41	3	
Craig Bay Pelorus Sd	13	15.3	7.2	11.3	..	19.2	8	0.9	7	115	14	..	32	3	
Appleby	17	15.3	6.3	10.8	+0.4	18.6	9	0.3	7	111	13	+41	41	3	
Nelson Airport	2	15.1	5.5	10.3	+0.4	18.1	9	-0.9	7	88	13	+17	31	3	
Rai Valley	79	15.8	4.4	10.1	+0.3	19.7	9	-0.6	14	152	8	-5	47	3	
Moutere Hills	110	14.5	7.5	11.0	+0.5	17.3	9	2.5	7	123	13	+46	45	3	
Blenheim Research	4	15.9	5.7	10.8	..	20.9	9	0.3	7	68	7	..	30	3	
Wairau Valley	162	14.7	4.3	9.5	..	17.8	9	-2.0	12	174	9	..	97	3	
Blenheim Airport	27	16.0	4.6	10.3	+0.1	21.0	9	-1.8	7	76	7	+19	32	3	
Brancott Valley	64	16.0	4.6	10.3	..	20.6	10	-1.1	7	78	6	..	28	3	
Wither Hills Blenheim	32	..	..	..	..	..	..	..	..	..	..	..	..	..
Waihopai Power Stn	262	14.1	4.3	9.2	-0.2	18.5	10	-0.6	7	122	10	+51	55	3	
Duntroon	350	14.5	4.6	9.6	..	22.5	10	-0.5	7	117	10	+52	64	3	
Lake Grassmere	2	15.0	7.4	11.2	+0.7	20.5	10	1.0	7	31	6	-6	17	3	
Cape Campbell	3	14.7	8.6	11.7	+1.3	18.3	10	3.7	7	34	7	-10	17	3	
Boyle River Lodge	600	13.2	0.5	6.9	..	18.0	18	-7.1	6	183	14	..	40	26	
Hanmer Forest	387	15.0	2.0	8.5	+0.4	19.5	3	-2.5	13	62	6	-32	18	10	
Molesworth	893	11.4	-0.1	5.7	-0.1	15.8	24	-5.3	12	74	7	+29	35	3	
Kaikoura Flats	24	..	..	..	..	..	..	..	..	..	..	..	..	..
Kaikoura	108	13.9	7.1	10.5	+0.7	20.0	9	3.0	12	37	8	-16	12	10	
Arthurs Pass	738	10.5	0.6	5.6	..	15.8	21	-4.5	7	394	13	+48	113	26	
Culverden	174	15.5	2.0	8.8	..	20.0	26	-3.0	12	30	7	..	11	10	
Balmoral Forest	198	15.6	1.8	8.7	+0.0	21.0	26	-3.5	12	27	8	-14	9	10	
Waiau	137	16.5	2.7	9.6	..	22.1	4	-3.0	7	32	6	..	10	4	
Cheviot	85	15.2	3.2	9.2	..	21.2	25	-2.5	12	15	6	..	10	10	
The Hermitage Mt Cook	765	12.4	1.6	7.0	+0.5	18.4	22	-3.6	7	335	13	-8	117	26	
Mt John	1027	10.5	1.6	6.1	+0.8	15.0	22	-3.7	7	61	7	+15	28	4	
Craigieburn Forest	914	..	..	..	..	..	..	..	..	..	..	..	..	..
Lake Coleridge	364	15.4	3.7	9.6	+1.2	19.3	18	-1.0	7	103	9	+34	48	4	

CLIMATOLOGICAL TABLE—Summary of the Records of Temperature, Rainfall, and Sunshine for September 1985—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 Max.	B Min.			Maximum	Date	Minimum	Date				Amount		Date
	Metres	°C	°C	°C	°C	°C		°C		mm		mm	mm	Hrs	
Highbank Power Stn	336	13.7	5.1	9.4	+0.7	18.5	24	0.0	11	53	8	-13	22	4	209
Hororata Substation	192	15.7	3.3	9.5	+0.9	21.8	9	-2.6	12	55	9	+6	22	4	201
Winchmore	160	15.1	4.1	9.6	+0.9	20.2	9	-0.3	12	39	7	-8	17	10	..
Peel Forest	274	15.2	2.3	8.8	+0.9	21.2	9	-3.2	7	81	14	+26	32	4	..
Ashburton	101	16.2	4.2	10.2	+0.6	23.0	24	-1.2	7	23	6	-22	12	10	188
Waipara	64	15.3	4.3	9.8	+0.3	22.0	25	-1.5	12	17	8	-24	8	10	..
Ashley Forest	107	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Rangiora	46	15.5	3.5	9.5	+0.3	23.0	26	-1.5	12	30	9	-17	8	4	..
Darfield	195	16.3	4.2	10.3	+1.0	22.7	24	-1.3	12	46	7	-7	18	4	..
Eyrewell Forest	158	15.2	3.0	9.1	+0.4	21.6	26	-3.0	12	39	8	-13	15	4	..
Christchurch Airport	30	15.2	4.2	9.7	+0.4	22.4	26	-1.7	12	18	6	-24	7	4	208
Templeton	46	15.0	..	..	..	21.6	26	..	..	16	5	..	5	4	..
Christchurch	7	15.7	5.5	10.6	+0.7	23.2	26	-0.7	7	18	5	-24	10	4	..
Bromley Christchurch	9	14.9	6.5	10.7	+0.8	22.2	9	2.3	13	8	7	-27	3	4	..
Mt Pleasant	137	14.7	7.3	11.0	+1.0	21.5	9	3.0	7	14	7	-33	7	4	..
Lincoln	11	15.0	4.6	9.8	+0.6	21.6	26	0.0	12	26	7	-15	11	4	207
Quail Island	75	13.6	7.1	10.4	..	20.7	9	2.3	7	22	4	..	9	4	..
Akaroa	3	..	5.6	..	..	..	..	0.0	12	44	5	..	12	4	..
Lake Tekapo	683	12.5	1.8	7.2	+0.1	16.5	24	-4.0	11	60	7	+7	25	4	..
Fairlie	304	15.5	1.7	8.6	..	21.0	26	-3.1	12	68	7	..	30	4	..
Twizel	457	14.3	0.2	7.3	+0.0	19.0	24	-5.2	7	52	7	-7	16	3	..
Twizel Substation	451	14.4	2.4	8.4	..	18.4	24	-5.0	13	51	8	..	16	3	..
Ikawai	70	15.5	3.5	9.5	+0.9	20.0	10	-3.0	7	10	2	-20	5	10	..
Geraldine	119	15.8	4.0	9.9	+1.1	21.0	9	-2.2	7	47	5	-4	23	10	..
Orari Estate	81	15.6	3.7	9.7	+1.0	23.1	26	-0.9	7	42	6	+1	25	10	..
Temuka	24	15.6	3.7	9.7	+0.9	21.9	26	-2.5	7	35	5	-6	21	10	..
Timaru Airport	26	15.1	3.4	9.3	+0.9	22.7	26	-2.0	7	28	3	-6	19	10	..
Adair	85	14.5	5.5	10.0	+0.9	21.0	9	0.8	7	26	8	-7	17	10	..
Timaru	17	14.4	5.2	9.8	+0.4	22.7	26	-1.0	7	31	9	-1	22	10	..
Timaru 2	17	14.6	5.3	10.0	..	22.5	26	-1.2	7	30	9	..	21	10	172
Waimate	61	15.4	4.2	9.8	+0.3	21.6	9	-1.0	7	20	5	-15	16	10	..
Aviemore	241	..	3.7	..	..	..	..	-2.2	11	11	5	-17	4	4	..
Kurou	207	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Oamaru Airport	30	14.3	4.5	9.4	+0.9	20.5	9	-1.6	7	8	5	-19	6	10	158
Knobs Flat	375	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Tara Hills Omarama	488	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Lake Hawea	350	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Wanaka	296	15.3	3.2	9.3	+1.1	19.5	21	-1.9	7	52	7	-9	19	3	..
Queensberry	277	15.2	4.1	9.7	..	19.3	21	-1.6	7	35	6	..	13	26	..
Bendigo	200	16.0	3.4	9.7	..	20.1	21	-1.7	11	18	6	..	8	3	..
Naseby	607	13.5	1.2	7.4	..	18.7	9	-4.8	11	37	3	..	20	4	..
Windsor	88	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Oamaru	5	14.4	5.2	9.8	..	21.5	9	-0.6	7	21	6	..	8	1	..
Ranfurly	427	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Herbert Forest	61	15.5	3.3	9.4	+1.2	22.8	26	-1.0	11	23	5	-18	13	10	..
Palmerston	21	14.9	3.4	9.2	+1.1	21.1	24	-2.0	11	14	5	-20	6	10	158
Cherry Farm Hospital	6	15.0	3.7	9.4	+1.1	21.6	25	-0.9	7	11	8	-26	5	10	..
Taiaroa Head	72	12.7	6.7	9.7	+0.9	19.5	26	3.7	11	25	7	-17	9	4	..
Invermay, Taieri	30	15.3	3.9	9.6	+1.0	21.5	24	-1.0	21	27	9	-20	16	4	173
Berwick Forest	18	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Dunedin Airport	1	15.5	1.9	8.7	+0.2	21.3	24	-4.6	11	22	12	-17	9	4	187
Musselburgh Dunedin	2	13.7	6.9	10.3	+1.0	20.0	9	1.5	11	29	8	-20	15	4	162
Te Anau	215	14.0	3.2	8.6	+0.9	18.5	21	-3.2	11	88	9	-14	23	28	149
West Arm, Manapouri	232	11.6	4.1	7.9	+1.2	17.0	21	-0.5	11	268	16	-58	60	26	..
Borland Burn	183	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Queenstown	329	14.2	4.2	9.2	+0.9	18.9	25	-0.7	11	48	8	-29	17	26	182
Queenstown Airport	349	13.7	2.7	8.2	+0.9	17.9	21	-1.6	11	38	7	-21	11	26	..
Gibbston	354	14.7	3.9	9.3	..	18.8	21	-1.5	11	33	6	..	10	3	..
Otama	183	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Cromwell Sub Stn	213	15.9	3.5	9.7	..	20.2	21	-2.5	11	19	5	-7	7	4	..
Cromwell	213	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Northburn	210	16.2	3.8	10.0	..	20.2	21	-1.5	11	20	6	..	8	3	..
Cromwell 2	213	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Lauder	370	15.1	2.9	9.0	..	19.1	26	-2.1	11	26	6	..	15	4	..
Clyde Dam	160	16.7	3.9	10.3	..	21.0	24	-1.5	11	15	5	..	5	27	..
Ophir	305	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Clyde(Dsir)	171	16.7	3.5	10.1	..	21.4	24	-2.8	11	14	5	..	4	4	..
Alexandra	141	17.3	3.0	10.2	..	22.2	24	-2.0	11	10	5	..	3	26	181
Roxburgh Power Stn	110	16.3	4.0	10.2	+1.2	22.2	24	-1.0	14	16	7	-11	6	10	..
Ettrick No 1	83	17.0	3.5	10.3	..	23.0	24	-1.5	2	26	6	..	15	10	..
Ettrick No 2	91	16.3	3.2	9.8	..	21.8	24	-1.7	11	29	7	..	19	10	..
Deep Stream	396	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Beaumont	46	..	3.4	..	..	..	..	-1.7	11	71	..	+5	25	10	..
Mahinerangi Dam	396	12.7	1.6	7.2	+0.7	19.5	24	-2.8	11	52	12	-6	18	10	..
Tapanui	226	14.1	4.1	9.1	+0.7	20.0	24	-1.9	11	51	11	-10	14	4	..

CLIMATOLOGICAL TABLE—Summary of the Records of Temperature, Rainfall, and Sunshine for September 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	mm	mm	mm	Hrs				
Taiari Mouth	15	13.7	3.9	8.8	+0.4	21.9	24	-1.0	11	37	9	-12	13	4	..
Tuatapere	27	15.1	4.2	9.7	..	20.2	24	-1.8	11	68	14	..	13	4	..
Otautau	55	15.1	3.3	9.2	+0.9	19.8	24	-2.7	11	77	13	-4	19	29	143
Winton	44	14.7	4.0	9.4	+0.9	20.3	24	-1.8	11	40	12	-20	8	4	156
Gore	123	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Hokonui Forest	46	14.8	3.4	9.1	+0.5	20.6	25	-2.5	11	51	12	-19	9	9	..
Woodlands	47	14.6	3.8	9.2	+0.8	20.2	24	-3.2	11	84	16	+11	17	28	..
Invercargill Airport	0	14.4	3.2	8.8	+0.6	20.1	24	-1.3	11	76	15	-1	20	28	157
Tiwai Point, Bluff	5	13.7	5.6	9.7	+0.9	19.8	24	-0.5	11	84	16	+0	23	27	..
Stewart Is	3	12.9	4.2	8.6	+0.6	18.2	24	-1.2	11	105	17	-11	26	28	..
Milton	18	14.9	3.6	9.3	+0.9	22.3	24	-1.6	2	28	13	-19	11	4	..
Clinton School	120	14.0	3.5	8.8	..	20.7	24	-3.0	11	56	13	..	11	29	..
Finegand Balclutha	6	14.8	..	..	..	21.5	24	..	..	25	11	-17	7	4	173
Owaka	5	14.3	3.0	8.7	+0.5	21.6	24	-3.2	11	67	15	+14	9	4	..
Nugget Point	129	12.4	5.1	8.8	+0.6	21.1	24	0.3	29	60	15	+2	9	5	..
Tautuku	40	13.6	4.1	8.9	+0.5	21.0	24	-1.9	11	110	14	+20	24	28	..
Nadi Airport Fiji	15	29.8	18.4	24.1	-0.5	32.6	12	15.0	27	33	4	-59	26	16	250
Rarotonga Airport	7	24.5	18.6	21.6	-0.7	27.4	28	13.6	18	123	10	+11	74	20	149
Totokoitu, Rarotonga	9	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Raoul Is	38	18.7	13.5	16.1	-0.4	21.0	27	10.5	14	120	23	-3	34	19	140
Campbell Is	15	8.8	3.7	6.3	+0.7	..	..	-1.9	8	116	23	+10	20	23	38
Waitangi, Chatham Is	44	12.4	6.8	9.6	+0.3	14.6	5	1.1	12	63	14	-3	25	4	135
Scott Base Antarctica	16	-21.1	-34.8	-28.0	+0.1	-10.4	11	-50.8	3	..	..	..	..	..	..
LATE RETURNS AND CORRECTIONS															
Little Barrier Is 08/1985	2	15.0	..	..	..	16.7	26	..	..	146	20	-29	72	10	..
Manukau Heads 08/1985	244	12.8	7.4	10.1	..	15.7	19	3.9	14	89	..	-20	41	10	..
Waimihia Forest 08/1985	743	8.3	0.1	4.2	-0.9	11.6	27	-5.2	17	81	10	-76	35	19	..
Opotiki 07/1985	6	14.9	6.1	10.5	+1.3	18.3	22	0.5	9	109	12	-20	33	21	132
Huntly 08/1985	34	14.5	6.3	10.4	..	16.7	8	1.4	15	74	..	..	16	19	..
Taumarunui 07/1985	171	13.2	4.4	8.8	+1.6	17.5	18	-1.5	11	130	23	-10	21	17	54
Taumarunui 08/1985	171	13.4	1.2	7.3	-1.4	16.0	23	-4.5	16	90	18	-37	33	19	113
Lower Retaruke 08/1985	223	12.6	2.4	7.5	-0.5	16.4	26	-4.8	16	106	..	-30	44	19	..
Porangahau 08/1985	8	14.2	4.7	9.5	..	18.9	19	-0.2	17	43	14	..	13	14	..
Wharite Peak 07/1985	914	6.3	2.6	4.5	+1.6	12.0	13	-1.0	26	212	..	+30	51	26	..
Wharite Peak 08/1985	914	5.4	1.2	3.3	-0.3	10.7	9	-2.1	14	80	..	-114	14	19	..
Kapuni 08/1985	173	12.4	4.7	8.6	..	15.0	31	-1.4	16	111	22	..	29	19	..
Kahui, Taihape 08/1985	518	10.7	2.6	6.7	-0.4	15.1	25	-1.5	5	64	14	-15	19	19	..
Deep Cove 08/1985	30	..	3.3	..	..	..	..	-1.0	14	347	..	..	88	18	..
Waihopai Power Stn 08/1985	262	11.9	1.4	6.7	-0.4	16.5	26	-4.0	15	50	10	-35	17	19	..
Boyle River Lodge 08/1985	600	10.2	-2.1	4.1	..	14.4	10	-8.5	4	120	..	..	..	..	..
Craigieburn Forest 08/1985	914	8.3	-1.6	3.4	+0.1	12.9	23	-7.2	15	176	14	+38	75	18	..
Ashley Forest 08/1985	107	12.4	3.3	7.9	+0.6	20.7	25	-1.0	7	42	9	-28	11	11	158
Eyrewell Forest 08/1985	158	12.3	0.4	6.4	+0.1	21.4	25	-4.8	7	70	13	+1	19	2	..
Fairlie 08/1985	304	12.0	-2.2	4.9	..	16.9	30	-6.9	7	67	5	..	37	18	..
Twizel 07/1985	457	6.7	-3.8	1.5	+0.5	18.5	18	-7.8	27	50	16	-2	13	23	..
Twizel 08/1985	457	9.6	-3.3	3.2	-0.6	18.0	26	-8.1	15	69	9	+27	41	18	..
Kurov 07/1985	207	10.5	2.1	6.3	..	15.9	4	-2.2	27	20	11	..	10	23	..
Cherry Farm Hospital 08/1985	6	12.5	1.8	7.2	+0.7	19.6	10	-2.0	7	26	10	-17	8	20	..
Berwick Forest 08/1985	18	12.5	1.7	7.1	+0.7	19.7	10	-3.1	14	50	15	+6	18	20	..
Deep Stream 08/1985	396	9.9	-0.6	4.7	..	16.3	8	-9.0	14	37	7	..	17	20	..
Tautuku 08/1985	40	11.2	2.5	6.9	+0.2	18.3	10	-1.7	7	88	19	+23	15	20	..
Totokoitu, Rarotonga 08/1985	9	24.7	19.2	22.0	+0.6	28.6	11	16.2	20	139	17	..	46	30	..

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 1985

General—September was mainly dry and sunny with temperatures above average in most places.

North-easterlies were much more frequent than usual, especially over the North Island. This was due to an anticyclone which remained almost stationary to the east of the country from the 12th to the 26th. This also resulted in fewer southerly and north-westerly winds than usual.

Near gale force northerly winds occurred in the Northland and Auckland regions on the 3rd. A gust of 93 km/hr was recorded at Kaitia Observatory, and 107 km/hr at Auckland Airport. Many power faults occurred throughout the Waitemata Power Board region, and 15 yachts and pleasure boats broke their moorings. 15 mm of rain fell between 4 and 5 p.m. at Kaitia Observatory.

A small tornado was reported at Waitara (Taranaki) on the 4th, which demolished a haybarn.

Strong to gale force winds affected Northland and Auckland again on the 17th. At Northshore (Auckland) 5000 households were without power for hot water when strong winds forced 2 power lines together causing the hot water circuits to fuse.

Snow fell at Blenheim Airport in southerly conditions on the 6th during part of the afternoon. At 2 p.m. the air temperature was only 2°C.

Mean sea level pressures were about 2 hPa higher than average for the whole country.

Most farmers reported good lambing weather, with stock in good condition, but good rainfalls are needed in Canterbury.

Rainfall—Regions which received above average rainfall this month were Northland, parts of the Bay of Plenty, Marlborough, Nelson, and Canterbury high country regions. Cape Reinga recorded 166 percent of normal rainfall for September, Whangarei Airport 152 percent, and Lake Coleridge 178 percent of normal rainfall. A heavy fall of 67 mm was recorded at Rotorua Airport on the 3rd.

Oamaru Airport recorded only 9 mm this month (33 percent of normal). To date this year at Oamaru Airport there has been only one month with above normal rainfall. In total 42 percent of the normal rainfall has fallen. This makes this the driest year since records began in 1941.

In the North Island Napier was one of the driest places, with 20 mm (33 percent of normal).

This month some places experienced drought conditions (more than 14 days without rain). These places were:

Waiouru	17 days from the 9th to the 25th.
Ohakea	19 days from the 7th to the 25th.
Palmerston North Airport	19 days from the 7th to the 25th.
Kelburn (Wellington)	*15 days from the 11th to the 25th.
Paraparaumu Airport	19 days from the 7th to the 25th.
Wellington Airport	15 days from the 11th to the 25th.
Nelson Airport	15 days from the 11th to the 25th.
Timaru Airport	20 days from the 11th to the 30th.
Dunedin Airport	15 days from the 11th to the 25th.
Queenstown Airport	15 days from the 11th to the 25th.
Alexandra	15 days from the 11th to the 25th.

*The driest period for September, equalling September 1958. Rainfall records began in 1862.

Temperatures—Over the whole country mean daily temperatures were near or above average. Day-time temperatures were up to 2°C higher than average in Central Otago. The mean daily maximum temperature at Alexandra was 17.0°C. This made Alexandra the warmest town in New Zealand during the afternoons, equal to Gisborne Airport. This was the highest mean daily maximum temperature for September at Alexandra since records began in 1929. There were also 4 days when afternoon temperatures reached 21°C or higher. A temperature of this nature is normally reached on just one day in September at Alexandra.

Mean daily temperatures were 1°C colder on the Kapiti Coast, in the Manawatu in the North Island, and in Dunedin in the South Island.

Sunshine—Sunshine hours were above average throughout the country apart from the Bay of Plenty and regions north of Auckland.

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

Kaitia (−42 hours, the least since records began in 1952).

Kaikoura (+33 hours).

Ohakea (+36 hours, the highest since 1965).

Christchurch Airport (+46 hours, the highest since 1958 and second highest since records began in 1949).

Dunedin Airport (+46 hours, the highest since 1963).

Kelburn (Wellington) (+68 hours the highest since 1958, and second highest since records began in 1927).

Paraparaumu Airport (+74 hours, the highest since 1958, and second highest since records began in 1953).

J. S. HICKMAN, Director.

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