-3 1984

SUPPLEMENT

TO THE

NEW ZEALAND GAZETTE

OF

THURSDAY, 22 NOVEMBER 1984

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CLIMATOLOGICAL TABLE
FOR SEPTEMBER 1984

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NEW ZEALAND METEOROLOGICAL SERVICE

CLIMATOLOGICAL TABLE—*Summary of the Records of Temperature, Rainfall, and Sunshine for September 1984*

Station	Height of Station Above M.S.L.	Air Temperature in Degrees Celsius: Means of A Max.	Means of B Min.	Mean of A and B	Difference From Normal	Absolute Maximum and Minimum: Maximum	Date	Minimum	Date	Rainfall in Millimetres: Total Fall	No. of Rain Days	Difference From Normal	Maximum Fall: Amount	Date	Bright Sunshine
	Metres	°C	°C	°C	°C	°C		°C		mm		mm	mm		Hrs
Cape Reinga	191	17.1	10.4	13.8	+0.8	19.0	7	7.1	18	82	19	−9	25	19	..
Kaitaia Airport	80	17.2	9.2	13.2	+0.3	19.2	26	4.5	19	100	18	−18	19	29	199
Aupouri Forest	69	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Kaitaia	8	18.4	8.8	13.6	..	22.0	7	3.4	16	94	16	..	24	29	..
Kerikeri M A F	79	17.4	8.1	12.8	..	19.7	23	4.3	16	179	25	..	46	20	..
Kerikeri Downs	74	16.9	8.5	12.7	..	18.8	23	5.5	16	174	25	..	45	20	..
Kerikeri Aerodrome	150	16.7	7.7	12.2	..	19.5	5	4.0	16	69	19	..	20	20	..
Umawera	9	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Kaikohe	204	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Waiotemarama	229	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Waipoua Forest	88	16.8	6.4	11.6	−0.3	19.2	21	1.5	19	145	16	+5	30	29	..
Dargaville	20	16.9	7.1	12.0	−0.3	19.4	12	1.6	19	106	15	+12	23	29	171
Waitangi Forest	55	17.6	8.8	13.2	+0.1	20.1	17	4.5	16	153	19	+27	38	20	165
Glenbervie Forest	107	16.6	5.5	11.1	−0.2	19.6	21	−0.8	16	208	21	+55	42	20	..
Whangarei Airport	37	16.8	7.9	12.4	−0.5	19.2	26	4.0	19	124	19	+2	22	29	..
Whangarei	29	17.3	7.9	12.6	+0.0	20.4	26	3.2	16	141	21	..	19	24	156*
Marsden Power Stn	3	17.1	8.6	12.9	−0.1	20.8	26	4.2	19	97	22	−14	17	29	..
Pouto	97	15.8	9.5	12.7	..	17.8	12	6.4	19	107	13	..	27	30	..
Leigh	27	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Warkworth	72	16.1	7.1	11.6	−0.4	18.0	26	1.8	19	130	18	−15	23	29	..
Oyster Point	0	16.7	7.2	12.0	−0.2	18.6	12	0.6	19	124	13	+39	28	30	..
Woodhill Forest	30	16.4	7.3	11.9	−0.3	18.9	13	1.5	19	99	12	−12	20	30	..
Riverhead Forest	28	16.7	6.3	11.5	−0.4	19.0	23	1.2	16	127	11	+10	26	30	..
Kumeu	32	16.7	6.1	11.4	−0.5	18.9	13	−0.5	19	135	12	..	24	3	..
Whenuapai	26	16.4	6.7	11.6	−0.4	18.4	26	2.3	9	105	13	−8	27	30	..
Albert Park Auckland	49	16.9	9.7	13.3	+0.1	19.3	26	5.7	19	109	14	+8	34	30	184*
Owairaka, Auckland	41	16.4	8.1	12.3	+0.0	19.0	26	5.0	17	112	15	+2	32	30	..
Port Fitzroy	4	16.8	8.5	12.7	−0.5	19.0	23	3.5	19	187	22	+23	57	20	..
Little Barrier Is	2	16.3	9.7	13.0	..	18.6	23	6.6	17	135	21	+14	39	20	..
Rotoroa Is	30	15.3	10.3	12.8	..	17.9	5	7.8	19	77	13	..	15	30	..
Manukau Heads	244	15.2	8.7	12.0	..	17.2	23	5.3	17	77	12	−4	26	30	..
Coromandel	43	16.8	7.6	12.2	..	19.0	26	1.5	19	154	23	..	48	20	..
Whangapoua Forest	4	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Thames	3	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Tairua Forest	3	16.1	7.3	11.7	−0.4	20.2	26	1.1	17	133	24	−28	20	13	..
Ngatea	1	16.7	4.7	10.7	..	19.5	24	−0.2	19	76	19	..	15	30	..
Paeroa	4	16.6	6.7	11.7	−0.1	19.8	24	0.5	19	89	20	−34	15	26	..
Waihi	91	15.5	6.6	11.1	−0.5	19.2	26	0.2	19	137	21	−59	24	20	129
Te Aroha	18	16.8	7.4	12.1	−0.3	19.5	24	1.7	19	86	16	−54	15	26	..
Katikati	2	16.5	7.2	11.9	..	19.4	26	1.8	9	93	20	..	15	26	..
Waharoa	60	16.2	5.7	11.0	..	19.4	24	−0.9	19	109	14	..	20	26	..
Tauranga	2	16.2	8.8	12.5	+0.1	18.6	2	4.9	19	95	19	−18	23	26	..
Tauranga Airport	4	15.9	7.5	11.7	−0.1	18.9	6	3.3	16	98	17	−18	25	26	143
Te Puke	91	15.9	6.6	11.3	−0.3	19.8	6	2.0	15	139	18	−41	27	26	144
Rotoehu Forest	72	15.6	4.2	9.9	−0.8	20.0	7	−1.0	9	111	18	−23	27	26	..
Whakatane Airport	6	15.9	5.6	10.8	−0.2	18.4	25	0.2	15	179	18	+81	36	26	151
Te Kaha	6	..	8.5	..	..	..	..	3.5	16	160	14	..	41	30	..
Port Ohope	9	16.3	8.2	12.3	+0.2	18.8	28	3.3	15	145	17	..	47	26	176
Kinleith	383	13.6	5.5	9.6	+0.1	17.5	2	1.0	16	143	17	+0	30	2	..
Tikitere	338	13.7	6.0	9.9	−0.1	17.4	2	2.0	9	147	15	..	35	26	..
Kawerau	30	16.7	7.7	12.2	+0.3	21.0	6	−0.5	17	189	15	+46	54	27	..
Te Teko	8	18.0	5.9	12.0	+0.4	21.7	23	1.9	16	139	17	+9	30	26	141
Rotorua Airport	287	14.1	5.6	9.9	−0.3	17.7	6	1.3	8	119	17	−3	20	26	131
Waiotapu Forest	435	13.2	3.9	8.6	−0.6	17.2	6	−1.7	9	138	18	+15	30	14	..
Atiamuri Power Stn	253	14.6	4.5	9.6	−0.2	18.4	2	−1.5	17	93	15	−24	21	13	..
Kaingaroa Forest	544	12.5	3.7	8.1	−0.4	16.0	6	−2.2	9	118	16	−16	36	13	..
Murupara	198	15.3	4.7	10.0	−0.1	19.0	23	−1.6	9	122	14	+11	42	13	..
Wairapukao Forest	437	13.4	2.7	8.1	−0.2	16.9	23	−3.3	9	112	16	−4	21	13	..
Taupo	376	13.5	4.4	9.0	−0.4	17.4	2	−0.6	7	91	16	−6	24	26	117
Wairakei Power Stn	342	14.1	4.5	9.3	−0.3	18.0	2	−0.5	15	106	16	+2	19	13	..
Wairakei Research Stn	402	14.4	3.7	9.1	+0.0	19.4	2	−1.9	16	115	16	+9	20	26	..
Minginui Forest	366	13.7	4.0	8.9	+0.0	17.0	24	−3.1	9	164	15	+36	38	13	..
Taupo Airport	407	13.1	4.0	8.6	−0.5	15.9	21	−2.9	7	96	16	+19	24	26	..
Waimihia Forest	743	10.2	3.2	6.7	−0.1	14.4	6	−1.7	7	156	15	+14	38	26	..
Opotiki	6	16.2	7.1	11.7	+0.2	20.3	23	1.7	16	167	14	+54	36	26	152
Waimana	37	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Mangere Auckland	4	16.3	8.1	12.2	−0.4	18.5	23	3.1	9	95	16	−1	25	30	167
Otara Auckland	12	16.5	7.0	11.8	−0.1	19.2	23	2.2	16	76	14	−24	18	30	..
Auckland Airport	8	16.0	8.7	12.4	−0.2	18.9	26	5.5	9	83	15	−12	23	30	173
Ardmore	30	16.4	6.8	11.6	−0.1	18.5	23	1.5	15	85	16	−23	22	13	..
Pukekohe	82	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Maioro Forest	52	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Hunua	122	15.7	5.5	10.6	..	18.0	23	1.1	19	74	16	..	14	26	..
Maramarua Forest	38	16.3	4.8	10.6	−0.6	19.4	2	−1.1	19	66	14	−41	16	30	..
Te Kauwhata	32	16.2	6.5	11.4	−0.5	18.7	24	2.0	19	81	16	−14	22	23	154

CLIMATOLOGICAL TABLE—*Summary of the Records of Temperature, Rainfall, and Sunshine for September 1984*—continued

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	Metres	°C	°C	°C	°C	°C		°C		mm		mm	mm		Hrs
Huntly	34	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Taupiri	23	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Ruakura Hamilton	40	16.3	5.7	11.0	−0.2	19.2	2	0.3	19	72	17	−29	15	30	161
Whatawhata	104	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Rukuhia	66	16.2	6.6	11.4	+0.0	19.0	2	2.0	17	93	14	−11	17	13	152
Hamilton Airport	50	16.7	5.1	10.9	+0.1	19.6	2	−0.2	8	93	13	−12	26	13	..
Cambridge	76	16.2	5.7	11.0	+0.2	18.8	2	−0.8	17	91	13	+0	20	30	..
Mohakatino Stn Mokau	46	15.8	8.0	11.9	+0.3	19.8	22	4.6	20	71	10	−45	38	26	..
Arapuni Power Stn	123	16.6	4.9	10.8	−0.4	20.6	24	0.5	15	96	15	−29	29	26	..
Waikeria	46	16.3	5.3	10.8	+0.1	19.3	2	−1.2	19	87	12	..	20	30	..
Te Kuiti	61	16.2	5.8	11.0	−0.1	19.0	2	0.6	19	100	14	−29	22	26	127
Wairere	122	15.5	5.3	10.4	..	18.6	22	−0.2	17	90	14	−43	41	26	..
Pureora Forest	549	12.3	3.8	8.1	+0.0	15.7	2	−1.8	7	93	18	−67	22	26	..
Mangakahu Valley	397	13.6	5.1	9.4	..	16.5	23	0.2	17	108	19	..	41	26	..
Taumarunui	171	16.1	4.3	10.2	−0.5	18.9	2	−2.1	17	90	16	−37	34	26	132
Tokirima	152	15.7	3.8	9.8	..	18.2	21	−2.2	18	97	11	..	31	26	..
Omata	61	..	..	..	..	..	..	..	..	..	..	..	..	..	..
New Plymouth	55	16.2	8.0	12.1	+0.6	20.5	22	4.3	28	87	11	−23	52	26	..
New Plymouth Airport	27	15.2	8.0	11.6	+0.4	19.1	22	4.5	9	98	13	−11	55	26	198
North Egmont	955	8.7	2.3	5.5	..	13.6	22	−1.1	17	357	25	..	85	13	..
Te Wera Forest	180	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Lower Retaruke	223	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Turangi	366	13.6	5.0	9.3	−0.1	16.4	21	−1.7	8	136	18	−6	40	26	119
Chateau, Mt Ruapehu	1097	8.8	1.6	5.2	..	12.9	6	−2.9	7	153	14	..	53	26	..
Hukanui	235	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Mt Bruce Res	305	13.0	5.8	9.4	+0.6	18.2	24	0.3	9	132	20	−83	24	13	..
Waingawa Masterton	114	14.4	5.8	10.1	+0.0	19.2	24	1.5	9	70	21	−6	12	18	91
Kopua	311	12.7	5.5	9.1	−0.4	17.8	12	0.5	9	112	21	+36	16	22	..
Waipukurau	137	14.1	5.7	9.9	−0.2	19.4	12	−1.8	9	101	20	+39	26	18	113*
Dannevirke	207	13.9	5.9	9.9	−0.2	19.0	24	1.0	9	63	22	−21	8	19	117
Porangahau	8	14.9	7.4	11.2	..	19.1	26	1.0	9	93	18	..	14	1	..
Castlepoint	3	14.1	9.1	11.6	−0.1	18.0	12	4.6	9	95	19	+18	30	2	..
Ngaumu Forest	244	13.5	5.2	9.4	+0.3	18.7	24	−1.0	9	115	18	+19	24	18	..
Tauherenikau, Alloa	43	14.4	6.4	10.4	−0.1	19.2	5	0.9	9	75	17	−12	19	13	..
Waiorongomai	21	13.7	7.5	10.6	+0.3	17.4	13	2.9	10	81	19	−48	16	13	..
Cape Palliser	10	13.8	9.4	11.6	−0.4	18.0	5	5.6	9	56	18	−23	8	17	..
East Cape	17	15.3	9.7	12.5	−0.2	18.0	25	5.4	10	192	22	+68	61	30	..
Ruatoria	61	16.3	6.7	11.5	−0.5	23.0	3	2.8	10	287	21	+119	73	21	..
Mangatu Forest	182	14.9	5.8	10.4	−0.5	19.3	5	1.7	10	193	23	+76	51	30	..
Manutuke Gisborne	9	15.4	6.8	11.1	−0.5	19.5	26	1.5	7	166	20	+84	35	21	..
Gisborne Airport	4	15.5	6.9	11.2	−0.4	19.9	26	1.8	7	188	23	+97	37	30	133
Onepoto, Waikaremoana	643	11.0	4.5	7.8	−0.9	16.5	5	1.0	7	274	22	+100	41	27	..
Wharerata Forest	439	11.7	5.7	8.7	..	17.2	26	1.5	7	475	23	..	113	27	..
Esk Forest	427	12.2	6.0	9.1	−0.5	17.4	24	−0.6	7	273	22	+135	42	1	..
Ngamatea	885	9.4	2.0	5.7	..	13.4	13	−2.0	10	103	22	..	14	30	..
Kaweka Forest	414	12.8	5.8	9.3	−0.8	17.2	24	1.4	7	209	22	+94	36	21	..
Napier Airport	2	15.2	7.1	11.2	−0.2	20.5	26	1.2	7	128	20	+64	30	18	..
Napier	2	16.0	7.5	11.8	−0.1	20.7	26	2.2	7	124	20	+63	34	18	138
Hastings	16	15.6	7.1	11.4	..	20.5	29	2.0	29	134	17	..	31	18	..
Whakatu	6	15.0	6.8	10.9	..	19.7	29	1.6	7	115	18	..	35	18	..
Gwavas Forest	335	13.3	4.4	8.9	+0.1	19.0	12	−0.7	7	150	18	+54	25	22	..
Makaretu	335	13.4	5.2	9.3	−0.3	18.9	12	−0.4	9	190	23	+110	64	24	..
Mohaka Forest	286	13.5	6.3	9.9	−0.4	18.4	24	0.7	7	171	19	+71	46	30	..
Frasertown, Wairoa	8	15.3	7.4	11.4	−0.4	20.2	29	3.3	10	232	20	+132	54	30	..
Wairoa	20	15.1	7.5	11.3	−0.4	20.0	24	2.8	7	234	17	+134	65	30	138
Kapiti Is	16	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Paraparaumu Airport	7	14.6	7.3	11.0	+0.3	18.0	22	1.6	9	65	15	−21	29	26	161
Flockhouse Bulls	9	15.1	5.8	10.5	−0.2	18.7	23	−0.1	17	57	12	−8	15	26	..
Ohakea	48	15.0	6.9	11.0	−0.1	18.6	24	3.1	17	56	17	−11	14	26	127
Wharite Peak	914	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Kairanga Palmerston N	15	15.3	5.8	10.6	−0.1	18.9	24	0.3	15	52	10	−22	13	13	142
Palmerston N Airport	45	15.1	6.6	10.9	+0.3	19.0	24	0.0	28	58	16	−14	16	26	..
Palmerston N D S I R	34	15.1	6.9	11.0	+0.0	18.7	24	1.5	28	63	15	−11	19	26	115
Tiritea	100	14.2	7.0	10.6	..	17.6	24	1.8	28	68	18	..	19	26	..
Waitarere Forest	3	15.1	6.1	10.6	−0.1	19.3	23	−1.5	8	43	7	−26	21	13	..
Levin	46	15.0	7.0	11.0	+0.1	19.0	23	1.1	17	67	12	−19	21	26	139
Titahi Bay	31	14.6	8.1	11.4	..	18.5	23	1.0	9	60	19	..	16	13	..
Avalon, Lower Hutt	15	14.6	7.6	11.1	+0.2	18.3	23	1.0	9	68	20	−34	15	13	..
Highland Pk Wgtn	120	13.2	7.9	10.6	..	16.9	23	3.3	9	80	21	..	10	17	..
Kelburn, Wellington	125	12.9	8.2	10.6	+0.1	16.8	23	3.0	9	69	17	−35	10	13	124
Somes Is	43	13.4	8.7	11.1	+0.2	16.2	22	3.5	9	55	17	−27	12	17	..
Gracefield Lower Hutt	34	13.8	8.2	11.0	+0.0	17.0	23	2.0	9	68	17	−42	19	17	..
Wainuiomata	82	13.4	6.7	10.1	+0.0	16.6	22	−0.5	9	103	19	−51	29	17	..
Wellington Airport	6	14.2	9.1	11.7	+0.6	17.7	22	2.1	9	54	19	−31	12	13	..
Rimutaka Forest	37	14.0	6.4	10.2	..	17.6	22	−1.0	9	114	18	..	33	17	..

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	Metres	°C	°C	°C	°C	°C		°C		mm		mm	mm		Hrs
Kaitoke	223	12.6	6.0	9.3	+0.1	16.5	13	−0.5	28	151	23	−22	24	26	77
Wallaceville	56	14.1	6.3	10.2	+0.2	17.5	23	−0.8	9	68	21	−33	14	13	115
Cape Egmont	8	15.1	8.4	11.8	+0.0	17.5	21	3.0	9	75	15	−33	21	26	..
Stratford Mtn House	846	8.7	2.4	5.6	−0.4	11.9	5	−0.9	9	237	19	−348	57	26	..
Stratford Dem Farm	311	13.3	5.0	9.2	−0.1	16.2	21	0.1	17	76	14	−92	29	26	134
Kapuni	173	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Manaia Dem Farm	98	14.0	5.6	9.8	−0.6	17.2	11	0.4	9	55	14	−44	18	13	149
Normanby	122	13.8	5.8	9.8	−0.4	17.5	23	−0.8	20	30	21	..	9	13	..
Patea	43	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Pipiriki	80	16.1	6.0	11.1	..	19.0	23	1.1	8	88	14	..	30	26	..
Ohakune Junction	629	11.7	3.5	7.6	+0.2	15.2	21	−0.9	8	87	15	−33	31	26	..
Karioi	648	11.9	2.9	7.4	−0.4	16.1	24	−1.8	7	86	18	−5	20	23	..
Waiouru	823	10.8	2.3	6.6	+0.0	14.0	12	−2.6	7	54	20	−28	11	26	..
Waiouru Military Camp	823	10.1	2.5	6.3	+0.0	13.9	23	−3.6	7	61	21	−31	12	26	..
Ahu Ahu Valley	85	15.5	5.2	10.4	..	18.6	21	−0.2	20	65	16	..	22	26	..
Taihape	433	13.6	3.3	8.5	−0.3	17.6	13	−2.1	20	35	20	−47	11	26	..
Kahui, Taihape	518	12.7	4.3	8.5	−0.4	17.0	23	0.5	20	44	17	−30	9	26	..
Wanganui	22	15.6	8.1	11.9	+0.5	20.2	24	3.5	8	58	13	−5	17	26	143
Wanganui Airport	9	15.5	7.1	11.3	..	19.9	24	1.4	9	59	12	−1	19	26	..
Totaranui	10	14.8	6.9	10.9	..	18.6	5	3.2	30	111	12	−23	31	10	..
Westport Airport	2	14.9	6.6	10.8	+0.5	17.7	22	2.9	20	144	16	−32	23	28	175
Cobb Dam	823	10.3	1.4	5.9	+0.1	13.5	6	−4.2	17	127	17	−49	32	11	..
Arapito	20	15.5	5.7	10.6	..	19.3	5	2.0	17	186	16	..	66	11	177
Lake Rotoroa	443	13.6	1.1	7.4	..	16.9	22	−3.6	17	117	18	..	18	26	..
Lake Rotoiti	634	12.4	1.6	7.0	+0.4	15.6	4	−5.8	17	116	15	−18	22	24	..
Hokitika Airport	39	14.4	5.6	10.0	+0.3	16.4	18	1.4	8	196	14	−40	45	24	175
Punakaiki	4	15.9	8.4	12.2	..	18.0	18	3.4	17	140	15	..	25	24	..
Reefton	198	15.6	4.5	10.1	+1.0	20.0	22	−0.6	8	114	16	−63	30	12	..
Barrytown	30	15.3	8.3	11.8	..	17.3	18	5.7	20	155	13	−60	30	24	..
Totara Flat	77	16.5	3.6	10.1	+0.6	19.9	21	−2.1	17	86	14	−75	17	29	..
Greymouth	4	15.3	6.8	11.1	+0.7	18.7	21	3.8	20	153	15	−41	29	24	179
Otira Substation	383	13.2	3.4	8.3	+0.9	18.0	22	0.0	17	313	16	−158	65	12	..
Springs Junction	421	13.1	2.2	7.7	+0.6	18.5	22	−3.1	17	124	14	−69	33	12	..
Pukekura	86	14.6	3.1	8.9	..	17.8	22	−3.6	20	225	15	..	39	12	..
Hari Hari	45	15.3	4.0	9.7	+0.6	18.9	23	−1.1	20	299	13	−34	56	12	..
Okarito	10	14.4	5.7	10.1	..	16.9	23	2.7	20	219	14	..	39	25	..
Franz Josef	155	14.0	5.5	9.8	..	17.9	23	2.5	30	355	16	..	96	12	141
Fox Glacier	152	14.5	4.6	9.6	+1.0	17.8	23	1.0	30	329	14	−108	92	12	..
Milford Sound	3	13.6	2.9	8.3	−0.4	17.2	15	0.0	27	440	14	−126	125	12	..
Puysegur Point	43	12.7	6.4	9.6	..	16.8	4	3.0	29	232	17	+57	88	12	..
Stephens Is	187	12.4	8.1	10.3	+0.4	16.5	25	3.6	8	32	11	−30	11	14	..
Riwaka Motueka	8	15.4	4.9	10.2	+0.1	18.7	28	0.8	17	86	15	−20	20	12	190
Tapawera	146	15.6	3.0	9.3	..	18.7	22	−3.0	17	58	13	..	11	23	..
Crail Bay Pelorus Sd	13	13.4	8.4	10.9	..	16.1	15	4.7	9	138	..	..	38	10	..
Appleby	17	15.2	5.6	10.4	+0.0	18.9	22	1.0	17	32	11	−38	7	23	..
Nelson Airport	2	14.7	5.3	10.0	+0.1	18.3	22	0.5	17	36	14	−35	8	12	188
Rai Valley	79	15.0	5.5	10.3	+0.5	17.9	28	−1.7	9	124	17	−33	35	10	..
Moutere Hills	110	14.7	6.8	10.8	+0.3	18.4	22	3.0	17	50	12	−27	14	23	..
Wairau Valley	162	14.8	3.8	9.3	..	18.5	4	−2.5	17	44	8	..	17	12	..
Blenheim Airport	27	15.2	4.7	10.0	−0.2	20.6	5	−1.6	17	25	8	−32	11	13	..
Brancott Valley	64	15.4	4.0	9.7	..	20.1	5	−1.4	9	26	7	..	9	22	..
Blenheim	4	15.8	4.8	10.3	−0.4	20.7	5	−0.8	17	24	9	−23	9	13	170
Wither Hills Blenheim	32	15.2	5.5	10.4	+0.0	20.0	5	0.0	9	20	6	−26	8	13	..
Waihopai Power Stn	262	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Duntroon	350	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Lake Grassmere	2	14.2	7.2	10.7	+0.2	18.3	11	−2.3	17	38	8	+1	12	18	163
Cape Campbell	3	13.3	8.6	11.0	+0.6	16.8	25	5.5	9	34	11	−10	13	22	..
Boyle River Lodge	600	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Hanmer Forest	387	13.6	2.7	8.2	+0.1	19.0	11	−2.0	9	56	15	−38	10	18	122
Molesworth	893	10.6	0.4	5.5	−0.3	16.5	4	−3.9	2	27	9	−18	9	12	..
Kaikoura Flats	24	13.7	4.9	9.3	..	21.0	12	−0.4	9	83	13	..	40	18	..
Kaikoura	108	12.7	7.0	9.9	+0.1	21.6	12	4.1	9	48	12	−5	11	18	152
Arthurs Pass	738	10.4	−0.2	5.1	..	15.0	23	−4.5	21	321	19	−25	75	12	..
Culverden	174	14.4	3.4	8.9	..	19.5	5	−2.6	9	17	9	..	5	15	..
Balmoral Forest	198	15.1	3.0	9.1	+0.4	19.7	5	−3.0	28	20	15	−21	5	18	..
Waiau	137	15.3	3.6	9.5	..	21.4	11	−2.0	9	26	14	..	7	18	..
Cheviot	85	14.3	3.8	9.1	..	21.3	12	−1.5	9	36	14	..	9	21	130
The Hermitage Mt Cook	765	12.0	1.0	6.5	+0.0	16.7	23	−1.8	9	188	13	−155	49	12	130
Mt John	1027	9.9	1.3	5.6	+0.3	15.3	5	−2.5	30	33	6	−13	14	29	..
Craigieburn Forest	914	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Lake Coleridge	364	14.3	2.7	8.5	+0.1	20.0	5	−2.2	21	47	14	−22	9	15	..
Highbank Power Stn	336	12.9	4.0	8.5	−0.2	19.5	5	0.6	21	23	8	−43	8	13	161
Hororata Substation	192	14.5	3.2	8.9	+0.3	22.7	5	−2.9	17	22	13	−27	9	13	153
Winchmore	160	13.8	3.7	8.8	+0.1	21.2	5	−2.2	21	21	8	−26	8	13	..
Peel Forest	274	14.2	2.0	8.1	+0.2	20.8	5	−2.8	21	42	16	−13	13	13	..

CLIMATOLOGICAL TABLE—*Summary of the Records of Temperature, Rainfall, and Sunshine for September 1984*—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
Ashburton	101	15.2	4.0	9.6	+0.0	26.0	5	−2.1	21	16	7	−29	8	13	133
Waipara	64	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Ashley Forest	107	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Rangiora	46	15.0	4.1	9.6	+0.4	24.9	11	−1.1	21	14	12	−33	4	30	..
Darfield	195	15.3	4.0	9.7	+0.4	22.3	5	−1.8	21	20	10	−33	6	13	..
Eyrewell Forest	158	14.5	3.9	9.2	+0.5	22.0	5	−2.5	21	17	10	−35	4	13	..
Christchurch Airport	30	14.5	4.6	9.6	+0.3	21.3	5	−2.4	17	29	9	−13	10	30	151
Templeton	46	14.4	4.8	9.6	+0.5	22.2	5	−1.5	17	28	9	..	7	30	..
Christchurch	7	15.0	5.8	10.4	+0.5	22.1	5	−0.5	17	35	8	−7	12	30	..
Bromley Christchurch	9	14.0	6.6	10.3	+0.4	21.5	12	0.5	17	18	10	−17	8	30	..
Mt Pleasant	137	13.9	7.0	10.5	+0.5	20.4	11	3.6	17	28	11	−19	8	30	..
Lincoln	11	14.3	4.4	9.4	+0.2	22.4	5	−2.3	17	33	9	−8	10	30	151
Quail Island	75	13.1	7.1	10.1	..	19.2	5	3.3	17	39	9	..	11	6	..
Akaroa	3	15.6	..	..	..	21.5	13	..	..	59	9	..	16	6	..
Lake Tekapo	683	11.8	0.6	6.2	−0.9	17.0	12	−2.8	9	34	5	−19	16	29	..
Lake Pukaki	556	12.7	2.0	7.4	+0.0	19.0	12	−0.4	9	41	8	−23	21	13	..
Fairlie	304	14.4	1.1	7.8	..	23.2	12	−2.6	20	32	4	..	10	12	..
Twizel	457	13.6	−0.6	6.5	−0.8	20.5	12	−4.0	9	35	7	−24	14	13	..
Ikawai	70	13.9	2.8	8.4	−0.2	20.5	5	−1.5	19	24	3	−6	10	29	..
Geraldine	119	14.7	3.6	9.2	+0.4	22.2	12	−1.0	21	26	7	−25	10	13	..
Orari Estate	81	14.4	3.1	8.8	+0.1	21.9	12	−2.0	21	20	6	−21	7	13	..
Temuka	24	14.2	2.9	8.6	−0.2	22.6	12	−1.6	21	22	6	−19	12	29	..
Timaru Airport	26	13.8	2.7	8.3	−0.1	22.6	12	−2.6	21	9	5	−25	6	29	..
Adair	85	13.2	5.1	9.2	+0.1	20.0	12	1.6	21	13	8	−20	8	29	..
Timaru	17	13.1	4.6	8.9	−0.5	20.1	12	0.0	21	16	8	−16	10	29	163
Waimate	61	13.8	4.1	9.0	−0.5	21.4	12	0.4	21	40	7	+5	19	29	..
Aviemore	241	14.4	3.2	8.8	..	20.7	12	−1.3	18	17	6	−11	7	29	..
Kurow	207	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Oamaru Airport	30	13.0	4.1	8.6	+0.1	19.6	12	0.0	26	19	7	−8	11	29	160
Knobs Flat	360	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Tara Hills Omarama	488	13.0	0.6	6.8	−0.4	18.5	12	−3.2	9	30	7	−12	12	12	202
Lake Hawea	350	13.0	2.8	7.9	−0.4	17.5	23	0.1	14	65	9	−9	19	12	..
Wanaka	296	14.3	1.5	7.9	−0.3	18.6	12	−2.6	7	54	8	−7	25	12	..
Queensberry	277	14.1	2.4	8.3	..	18.6	12	−1.0	8	35	7	..	17	12	..
Bendigo	200	15.2	1.2	8.2	..	19.4	12	−3.7	8	30	5	..	15	12	..
Naseby	607	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Windsor	88	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Oamaru	5	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Ranfurly	427	13.7	−0.1	6.8	−0.3	18.8	11	−3.6	21	13	6	−9	7	29	144
Herbert Forest	61	14.2	2.4	8.3	+0.1	21.0	10	−1.5	19	26	5	−15	17	29	..
Palmerston	21	13.9	2.2	8.1	+0.0	21.9	5	−3.0	21	42	8	+8	27	29	147
Cherry Farm Hospital	6	13.9	3.0	8.5	+0.2	20.6	5	−1.0	26	37	9	+0	24	29	..
Taiaroa Head	72	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Invermay, Taieri	30	13.7	2.8	8.3	−0.3	21.0	5	−1.5	17	127	11	+80	93	29	153
Berwick Forest	18	14.6	2.5	8.6	+0.1	21.6	5	−0.6	18	98	9	+51	64	29	..
Dunedin Airport	1	14.9	2.5	8.7	+0.2	21.6	5	−1.1	18	91	9	+52	62	29	153
Musselburgh Dunedin	2	12.9	6.3	9.6	+0.3	20.8	12	2.8	21	86	12	+37	47	29	152
Te Anau	215	12.9	2.5	7.7	+0.0	17.1	23	−2.2	7	163	13	+61	63	12	145
West Arm, Manapouri	232	10.6	2.6	6.6	−0.1	14.0	22	0.0	29	315	13	−11	87	12	..
Borland Burn	183	13.8	0.4	7.1	+0.1	17.8	12	−3.9	7	183	13	+71	54	12	..
Queenstown	329	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Queenstown Airport	349	12.7	0.8	6.8	−0.5	18.0	12	−2.0	8	43	9	−16	31	12	..
Otama	183	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Cromwell Sub Stn	213	15.0	1.0	8.0	..	19.7	11	−2.6	8	19	6	−7	12	12	..
Cromwell	213	15.2	0.7	8.0	−0.7	19.9	11	−2.3	8	19	6	−11	11	12	187
Northburn	210	15.1	1.5	8.3	..	19.2	12	−1.7	8	18	5	..	13	12	..
Lauder	370	13.9	1.0	7.5	..	18.5	5	−2.7	8	32	7	..	11	29	..
Clyde Dam	160	15.3	1.5	8.4	..	20.6	12	−1.4	7	16	6	..	9	12	..
Ophir	305	14.4	−0.4	7.0	−0.5	18.5	11	−4.8	8	15	3	−12	6	13	..
Clyde	171	15.3	0.5	7.9	..	20.9	12	−2.9	8	13	6	..	9	12	..
Alexandra	141	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Roxburgh Power Stn	110	15.4	2.0	8.7	−0.3	20.4	12	−1.6	7	34	8	+7	17	12	..
Ettrick	83	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Deep Stream	396	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Beaumont	46	15.1	2.7	8.9	..	20.6	12	−0.5	28	83	10	+17	29	29	..
Mahinerangi Dam	396	12.3	1.9	7.1	+0.6	17.8	5	−1.8	21	78	10	+20	41	29	..
Tapanui	226	13.7	3.0	8.4	+0.0	19.6	12	−0.6	17	98	9	+37	36	29	..
Taieri Mouth	15	13.0	3.2	8.1	−0.3	20.5	12	−0.4	9	107	9	+58	70	29	..
Tuatapere	27	14.4	3.8	9.1	..	18.4	12	0.3	8	104	11	..	40	12	..
Otautau	55	13.9	2.4	8.2	−0.1	18.5	4	−1.6	8	131	12	+50	42	28	144
Winton	44	14.0	3.2	8.6	+0.1	18.5	4	−0.5	7	99	8	+39	37	28	158
Gore	123	13.3	3.1	8.2	+0.1	18.9	12	0.7	18	77	10	+14	22	12	166
Hokonui Forest	46	14.1	2.9	8.5	−0.1	18.5	5	−1.2	9	114	11	+44	33	12	..
Woodlands	47	13.9	3.0	8.5	+0.1	18.1	12	−0.5	26	90	17	+17	25	12	..
Invercargill Airport	0	14.0	3.3	8.7	+0.5	18.7	12	−0.4	9	78	14	+1	27	28	166

CLIMATOLOGICAL TABLE—*Summary of the Records of Temperature, Rainfall, and Sunshine for September 1984*—continued

Station	Height of Station Above M.S.L.	Air Temperature in Degrees Celsius: Means of A Max.	Means of B Min.	Mean of A and B	Difference From Normal	Absolute Maximum and Minimum: Maximum	Date	Minimum	Date	Rainfall in Millimetres: Total Fall	No. of Rain Days	Difference From Normal	Maximum Fall: Amount	Date	Bright Sunshine
	Metres	°C	°C	°C	°C	°C		°C		mm		mm	mm		Hrs
Tiwai Point, Bluff	5	13.4	5.0	9.2	+0.4	18.0	11	1.7	9	62	12	−22	22	12	..
Stewart Is	3	12.4	4.3	8.4	+0.4	17.4	11	0.1	26	57	21	−59	15	12	..
Milton	18	14.1	2.1	8.1	−0.3	20.9	5	−1.8	9	120	9	+73	68	29	..
Clinton School	120	13.7	1.9	7.8	..	19.4	12	−2.4	9	52	13	..	13	28	..
Finegand Balclutha	6	14.1	3.4	8.8	+0.3	20.5	12	−0.2	20	92	8	+50	30	29	144
Owaka	5	13.9	2.0	8.0	−0.2	19.5	12	−2.6	10	103	12	+50	41	29	..
Nugget Point	129	12.0	5.0	8.5	+0.3	17.3	12	1.2	9	107	13	+49	35	29	..
Tautuku	40	13.6	3.5	8.6	+0.2	19.8	5	0.5	1	106	13	+16	32	29	..
Nadi Airport Fiji	19	30.0	19.4	24.7	+0.1	33.2	27	15.5	9	37	8	−55	24	27	224
Rarotonga Airport	7	25.0	18.4	21.7	−0.6	27.6	19	14.1	7	76	13	−36	19	12	160
Totokoitu, Rarotonga	9	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Raoul Is	38	19.4	14.4	17.9	+1.4	22.0	25	11.2	4	65	14	−58	33	17	152
Campbell Is	15	8.7	4.5	6.6	+1.0	10.6	3	−1.3	29	81	24	−25	27	11	38
Waitangi, Chatham Is	44	11.9	6.9	9.4	+0.1	14.9	30	3.3	5	90	21	+24	31	30	90
Scott Base Antarctica	16	−21.0	−34.9	−28.0	+0.1	−9.9	14	−42.0	26	..	..	..	..	..	..
LATE RETURNS AND CORRECTIONS															
Aupouri Forest 07/1984	69	16.0	9.3	12.7	+0.3	18.9	2	4.0	17	154	20	+32	20	21	..
Aupouri Forest 08/1984	69	16.5	10.0	13.3	+0.7	19.0	15	7.0	8	88	16	−48	23	21	..
Kaikohe 08/1984	204	14.8	8.6	11.7	+0.5	17.6	19	5.6	8	131	23	-74	37	13	116
Waiotemarama 04/1984	229	18.3	11.4	14.9	−0.8	21.7	4	7.0	30	62	15	..	14	28	..
Dargaville 08/1984	20	16.0	8.6	12.3	+1.0	19.1	20	4.4	20	164	23	+35	40	14	132
Leigh 07/1984	27	15.8	10.7	13.3	+1.5	19.3	2	4.3	16	78	19	−53	18	14	159
Leigh 08/1984	27	15.5	11.0	13.3	+1.1	18.0	19	7.3	6	146	24	+24	40	14	118
Little Barrier Is 07/1984	2	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Tauranga Airport 08/1984	4	14.9	7.9	11.4	+1.0	17.2	3	2.0	6	130	19	−4	23	16	130
Te Puke 08/1984	91	14.5	6.8	10.7	+0.7	17.9	18	−1.2	6	158	19	−24	37	30	129
Whakatane Airport 08/1984	6	15.1	5.8	10.5	+1.1	17.2	3	−1.4	9	77	12	−40	21	30	159
Atiamuri Power Stn 07/1984	253	12.9	3.5	8.2	+1.6	16.7	24	−2.5	17	142	17	+22	20	22	..
Atiamuri Power Stn 08/1984	253	13.7	4.9	9.3	+1.3	18.0	18	−2.7	8	108	18	−22	29	22	..
Murupara 08/1984	198	14.5	4.1	9.3	+1.2	18.1	18	−4.0	9	83	17	−35	19	16	..
Mangere Auckland 08/1984	4	15.6	9.6	12.6	+1.4	18.0	19	4.4	8	105	24	−24	19	14	131
Pukekohe 06/1984	82	14.7	7.7	11.2	+0.8	16.8	9	0.7	1	93	19	..	23	4	89
Pukekohe 07/1984	82	14.6	6.8	10.7	+1.1	18.4	2	0.9	28	160	18	..	37	14	129
Pukekohe 08/1984	82	15.1	8.4	11.8	+1.4	17.7	19	4.3	9	124	22	..	23	16	123
Te Kauwhata 08/1984	32	15.6	8.0	11.8	+1.6	18.8	19	3.0	6	100	24	−9	19	15	124
Huntly 07/1984	34	14.8	6.3	10.6	..	19.1	2	0.5	28	110	15	..	27	22	..
Whatawhata 07/1984	104	14.5	4.5	9.5	+0.7	18.5	2	−2.2	28	159	16	−14	29	22	111
Whatawhata 08/1984	104	14.7	7.1	10.9	+1.0	17.6	17	1.0	9	229	25	+71	44	15	95
Te Wera Forest 08/1984	180	13.4	4.3	8.9	+0.8	16.5	29	−4.8	8	138	18	−32	28	22	..
Lower Retaruke 07/1984	223	12.8	3.3	8.1	+1.4	16.4	6	−3.6	19	179	19	+33	22	31	..
Lower Retaruke 08/1984	223	13.6	5.3	9.5	+1.5	18.2	18	−3.4	8	108	18	−28	22	22	..
Hukanui 08/1984	235	12.4	4.1	8.3	..	16.4	17	−3.7	7	144	19	−28	37	4	..
Castlepoint 07/1984	3	13.1	8.3	10.7	+1.2	18.0	3	4.3	16	114	19	−5	28	5	..
Manutuke Gisborne 07/1984	9	14.9	4.7	9.8	+0.9	20.1	3	−0.5	10	90	15	−17	30	16	..
Wharerata Forest 07/1984	439	11.5	4.8	8.2	..	17.1	3	−1.0	17	302	19	..	71	16	..
Wharite Peak 01/1984	914	13.8	6.3	10.1	−1.5	19.4	23	1.0	17	104	11	−47	40	27	..
Kairanga Palmerston N 08/1984	15	14.4	5.2	9.8	+0.9	17.6	19	−3.3	9	45	15	−37	11	4	146
Palmerston N D S I R 08/1984	34	14.3	6.4	10.4	+1.1	17.2	17	−1.2	7	46	13	−40	10	4	120
Patea 05/1984	43	15.1	8.4	11.8	−0.4	19.5	9	0.5	22	79	12	−32	19	24	..
Patea 07/1984	43	13.5	7.6	10.6	+1.5	17.5	1	2.0	28	182	17	+86	40	5	..
Pipiriki 08/1984	80	14.7	5.0	9.9	..	18.9	14	−0.8	9	123	19	..	26	22	..
Totaranui 08/1984	10	13.7	6.2	10.0	..	17.8	16	−0.6	8	128	18	−78	19	22	..
Westport Airport 08/1984	2	14.0	6.8	10.4	+1.4	17.5	15	1.1	8	168	19	−11	29	21	87
Cobb Dam 08/1984	823	7.6	1.1	4.4	+0.5	11.2	29	−4.8	8	254	26	+27	33	14	..
Lake Rotoroa 08/1984	443	10.4	2.0	6.2	..	13.4	17	−5.5	8	153	19	..	27	2	..
Reefton 08/1984	198	..	3.4	..	..	..	..	−5.5	8	150	16	−26	30	20	..
Springs Junction 08/1984	421	10.8	1.2	6.0	+0.9	16.9	22	−6.5	9	167	17	−22	35	4	..
Okarito 08/1984	10	13.8	6.3	10.1	..	17.7	14	−2.0	8	263	21	..	62	21	..
Fox Glacier 08/1984	152	13.5	4.7	9.1	+1.9	18.8	31	−1.8	7	402	22	+44	85	21	..
Puysegur Point 08/1984	43	11.4	5.9	8.7	..	15.0	10	1.5	8	142	20	−22	26	20	..
Rai Valley 08/1984	79	14.1	3.8	9.0	+1.3	16.7	23	−4.1	8	115	14	−90	35	22	..
Wairau Valley 08/1984	162	13.2	2.9	8.1	..	17.0	4	−4.6	8	47	11	..	18	22	..
Blenheim Airport 08/1984	27	14.1	3.9	9.0	+0.9	18.8	4	−3.4	8	36	8	−38	15	22	..
Cape Campbell 08/1984	3	13.2	7.9	10.6	+1.4	15.9	29	2.3	5	31	10	−40	9	4	..
Arthurs Pass 08/1984	738	8.5	−0.1	4.2	..	12.5	13	−7.5	7	344	14	+40	65	20	..
Waipara 08/1984	64	..	..	..	..	..	..	..	..	18	8	−32	8	4	..
Ashley Forest 07/1984	107	10.9	3.0	7.0	+0.7	17.5	21	−1.0	20	104	11	+32	30	6	92
Eyrewell Forest 08/1984	158	12.5	2.6	7.6	+1.3	19.7	20	−6.3	9	38	9	−31	11	4	..
Christchurch 08/1984	7	13.4	5.5	9.5	+2.0	19.8	20	−1.1	9	21	10	−37	5	31	..
Bromley Christchurch 08/1984	9	12.4	6.2	9.3	+1.5	18.0	20	0.2	5	11	10	−45	4	4	..
Lincoln 08/1984	11	12.9	4.9	8.9	+1.9	18.9	20	−1.5	9	15	7	−44	8	4	158
Akaroa 08/1984	3	14.4	..	..	..	19.5	20	..	..	78	8	..	22	30	..
Lake Tekapo 08/1984	683	9.6	0.1	4.9	+1.2	16.0	19	−6.2	5	62	10	+8	22	20	..
Ikawai 08/1984	70	11.8	2.0	6.9	+0.6	17.0	18	−4.5	9	48	6	+10	16	4	..
Timaru Airport 08/1984	26	12.6	1.1	6.9	+0.9	18.4	4	−5.0	9	32	13	−10	14	4	..
Kurow 06/1984	207	12.1	1.9	7.0	..	17.2	25	−4.5	24	10	5	..	5	5	..

CLIMATOLOGICAL TABLE—*Summary of the Records of Temperature, Rainfall, and Sunshine for September 1984*—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
Naseby 08/1984	607	9.4	−0.4	4.5	..	16.0	19	−9.4	9	50	9	..	23	4	..
Windsor 08/1984	88	11.9	3.5	7.7	..	16.9	10	−2.7	24	25	7	..	9	14	..
Oamaru 08/1984	5	11.6	4.0	7.8	..	16.7	3	−1.5	10	16	8	..	4	4	..
Ranfurly 08/1984	427	10.1	−0.8	4.7	+0.5	16.5	19	−12.5	9	20	4	+0	13	5	114
Palmerston 08/1984	21	11.8	2.0	6.9	+0.9	18.2	20	−4.5	9	36	12	−11	14	14	112
Taiaroa Head 08/1984	72	9.5	4.8	7.2	−0.1	16.1	21	−0.5	6	33	18	−16	5	4	..
Invermay, Taieri 08/1984	30	11.8	2.9	7.4	+0.8	19.0	19	−7.0	9	38	15	−25	8	22	131
Queenstown 08/1984	329	10.9	2.1	6.5	+1.0	14.4	13	−3.1	9	56	10	−3	16	20	85
Cromwell 08/1984	213	12.7	0.1	6.4	+1.2	16.5	11	−6.6	9	19	9	−9	10	4	138
Finegand Balclutha 08/1984	6	11.7	2.4	7.1	+0.9	17.2	29	−3.5	9	58	11	+20	15	5	114
Nadi Airport Fiji 07/1984	19	29.5	17.2	23.4	−0.1	32.4	23	13.7	30	0	2	−51	0	..	266
Nadi Airport Fiji 08/1984	19	29.6	18.6	24.1	+0.4	32.3	17	15.8	12	52	6	−5	31	31	242
Totokoitu, Rarotonga 07/1984	9	24.4	18.9	21.7	+0.2	27.0	17	14.0	4	51	14	..	14	26	..
Totokoitu, Rarotonga 08/1984	9	24.4	18.3	21.4	+0.0	26.5	8	14.0	16	238	12	..	141	11	..
Campbell Is 06/1984	15	8.1	3.8	6.0	+1.2	10.0	17	−2.5	23	93	30	−27	14	11	2

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 1984

General—The weather in September was highly variable, but in general slightly milder and drier than usual.

North-easterly winds were very much more frequent than the usual this month. The south of the country had the highest frequency of north-easterlies for September on record (since 1956), while the highest frequency for the month since 1966 was recorded in the north. There was a corresponding decrease in the number of north-westerly winds this month, with the south of country having the lowest frequency of north-westerlies for September since 1966. There were also fewer strong winds than usual in the south.

Pressures were higher than normal to the south-east and low to the north-west this month.

Farmers in most parts of the country reported good grass growth with the mild, dry conditions early in the month but cold wet weather during the last 10 days checked pasture growth considerably. The numbers of wet days this month in central districts caused delays in seasonal work, especially docking, shearing and crop planting. However, some irrigation has already been necessary in areas of southern Canterbury and North Otago.

Rainfall and Snow—Parts of Northland, the east of the North Island, South Otago and Southland were wetter than usual this month while the rest of the country was drier. Coastal areas of North Otago and South Canterbury were very dry, especially around Timaru where only 20 percent of normal rain fell. Parts of Nelson and Blenheim were also very dry, with between 40 percent and 50 percent of normal rainfall this month.

Very heavy rain fell in the Otago and Dunedin areas on the 29th. Among the heavier falls recorded in 24 hours to 9 a.m. on the 30th were: Ross Creek 100 mm, Sullivans Dam 90 mm, Portobello 76 mm and Mosgiel 70 mm. Widespread surface flooding was reported in the Mosgiel—Taieri area and the Three Mile Hill Road between Dunedin and Mosgiel was closed by flooding overnight on the 29th—30th.

Snow fell in parts of Otago and Southland on the 29th and 30th, with heavy falls in the Maniototo area and about Hindon, Middlemarch and Milton. Many roads in the area were closed by snow drifts including State Highways 85 (Ranfurly—Becks), 87 (Outram—Middlemarch) and 97 (Te Anau—Milford). Farmers, especially in the high country, reported very heavy losses of new-born lambs.

Temperatures—Temperatures were very close to normal for September. In the North Island temperatures were generally between normal and 0.5°C above normal in western and southern areas and down to 0.5°C below normal in northern and eastern areas. Temperatures were also slightly below average in Central Otago but the rest of the South Island was up to 1.0°C milder than usual.

Some very low temperatures were recorded in parts of Southland and Otago during a period of snow and heavy rainfall on the 29th–30th. Maximum temperatures on these 2 days were generally 6°C to 8°C but locally 10°C to 12°C below average for September.

Sunshine—Northern and western areas of the North Island and south and west of the South Island were sunnier than usual with between 20 hours and 40 hours more sunshine than usual this month. Eastern and southern areas of the North Island had up to 40 hours less sunshine than usual while northern and eastern areas of the South Island had 10 to 30 hours less.

Among those stations recording the greatest departures this month were: New Plymouth (+38 hours), Invercargill (+32 hours), Kaitaia (+30 hours), Gisborne (−39 hours), Wellington (−37 hours) and Taupo (−35 hours).

THE WEATHER SEQUENCE, SEPTEMBER 1984

1–7 September

A shallow depression covered the North Island on the 1st with fronts lying to the north of Northland and across the centre of the North Island. Showers fell in some eastern and central districts of the North Island on the 1st and 2nd but the weather was otherwise fine. During the 2nd a ridge, from an anticyclone centred near Lord Howe Island, began to extend onto the South Island and by the 3rd a belt of high pressure extended north-west—south-east across the country. Although showers persisted in some central and eastern areas of the North Island the weather was generally fine and mild. Fine weather continued as the high pressure system remained over the country on the 4th and 5th although showers fell in some western and southern areas on the 5th as a front approached the country. There was a further light rain in eastern and central areas on the 6th and 7th as the front crossed the country. During this period an anticyclone become established to the south of Stewart Island.

8–14 September

By the 8th a cool south-westerly flow covered the country bringing showers to isolated areas. The anticyclone remained centred to the south-west but a front extended along the western coast of the country on the 9th and rain fell in Westland and Fiordland and there were showers in Northland. Further rain fell in southern and western areas of the South Island and about Cook Strait on the 10th and also in central areas of the North Island on the 11th as the front crossed the country. A moist north-westerly flow associated with a trough in the Tasman Sea brought rain to much of the South Island and isolated areas of the North Island on the 12th, with heavy falls in southern and western areas of the South Island. Rain became widespread on the 13th as the trough and its associated front crossed the country but cleared from most areas on the 14th.

15–21 September

An anticyclone centred in the Tasman Sea began to extend a ridge onto the country on the 15th and the associated south to south-westerly flow brought showers to eastern and central areas of the country on the 15th and 16th. By the 17th the anticyclone covered the South Island, bringing generally fine, cool weather although light showers persisted in some eastern areas and the south of the North Island on the 17th and 18th, with some heavy falls in the Hawke's Bay - East Cape area. By the 19th a belt of high pressure had developed across the South Island and a depression lay off the coast of Australia. The resulting easterly flow continued to bring showers to eastern areas and rain developed in Northland as the depression crossed the Tasman Sea to lie across Northland on the 21st.

22–30 September

By the 22nd the high pressure system that had covered the South Island had moved away to the east and a depression to the west of the North Island extended a cold front across Auckland. Showers fell over most of the North Island south of Auckland and in the north and east of the South Island on the 22nd and 23rd. A complex frontal system crossed the Tasman to lie west of New Zealand by the 24th, bringing widespread rain. A deep trough developed over the country during the 25th, with rain continuing in many areas until the 27th. Heavy falls were recorded in central areas of the North Island on the 26th and northern areas on the 27th. Rain had largely cleared from the South Island by the 27th. A second depression travelling in the same trough approached the South of the South Island on the 28th. As this crossed the country rain fell in southern and western areas of the South Island on the 28th and became widespread on the 29th and 30th, although a clearance had begun in the south and west of the South Island by the 30th.

J. S. HICKMAN, Director.

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