



SUPPLEMENT

TO THE

NEW ZEALAND GAZETTE

OF

THURSDAY, 17 JANUARY 1985

Published by Authority

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CLIMATOLOGICAL TABLE
FOR NOVEMBER 1984

NEW ZEALAND METEOROLOGICAL SERVICE

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

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	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			
Cape Reinga	191	20.2	13.7	17.0	+1.5	23.1	14	8.9	17	73	22	+10	30	15	...
Kaitaia Airport	80	21.2	13.4	17.3	+1.4	23.7	29	7.0	21	80	16	-21	22	2	177
Aupouri Forest	69	21.4	13.7	17.6	+1.4	24.5	6	8.1	17	66	11	-18	19	2	...
Kaitaia	8	22.2	13.3	17.8	...	24.9	29	6.6	21	95	13	...	23	2	...
Kerikeri M A F	79	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Kerikeri Downs	74	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Kerikeri Aerodrome	150	21.5	12.4	17.0	...	25.7	22	7.0	17	55	15	...	12	10	...
Umawera	9	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Kaikohe	204	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Waiotemarama	229	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Waipoua Forest	88	21.0	12.2	16.6	+1.7	25.3	24	5.5	21	120	16	+9	26	25	...
Dargaville	20	21.0	12.6	16.8	+1.4	25.0	24	6.8	22	49	11	-37	14	15	152
Waitangi Forest	55	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Glenervie Forest	107	21.1	11.7	16.4	+1.8	24.9	22	3.6	21	151	17	+39	25	7	...
Whangarei Airport	37	21.5	13.2	17.4	+1.1	25.4	15	8.1	21	79	13	-10	16	7	...
Whangarei	29	22.3	13.3	17.8	+1.6	26.2	15	8.5	1	96	15	...	25	7	159*
Marsden Power Stn	3	21.9	13.9	17.9	+1.3	27.1	15	8.6	21	85	...	-6	...	...	...
Pouto	97	20.3	14.0	17.2	...	23.8	24	9.8	17	56	13	...	10	15	...
Leigh	27	19.9	14.6	17.3	+1.4	23.6	13	9.4	17	68	15	-17	26	2	165
Warkworth	72	20.6	12.6	16.6	+1.3	24.4	14	6.0	21	71	19	-43	21	2	...
Oyster Point	0	20.9	12.8	16.9	+1.6	24.2	24	6.5	21	63	14	-19	15	15	...
Woodhill Forest	30	20.5	12.7	16.6	+1.3	25.8	24	7.6	21	114	14	+16	33	15	...
Riverhead Forest	28	21.4	12.7	17.1	+2.2	26.5	24	6.7	1	124	10	+23	38	15	...
Kumeu	32	21.2	12.3	16.8	+1.8	26.2	24	6.0	1	128	13	...	31	15	...
Whenuapai	26	21.1	12.6	16.9	+1.6	25.3	24	6.8	21	115	16	+18	39	15	...
Albert Park Auckland	49	21.5	14.3	17.9	+1.4	25.5	14	8.9	17	111	17	+22	35	2	170*
Owairaka, Auckland	41	20.9	13.4	17.2	+1.5	24.7	15	8.0	21	99	14	+3	36	2	...
Port Fitzroy	4	21.2	13.8	17.5	+1.3	23.5	13	8.5	21	108	16	+4	30	26	...
Little Barrier Is	2	20.7	14.4	17.6	...	22.7	13	9.9	17	70	15	-22	27	2	...
Rotoroa Is	30	19.7	14.6	17.2	...	22.1	14	10.5	17	56	10	...	29	2	...
Manukau Heads	244	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Coromandel	43	21.8	13.2	17.5	...	25.1	15	7.6	1	107	15	...	47	2	...
Whangapoua Forest	4	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Thames	3	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Tairua Forest	3	21.6	12.6	17.1	+1.4	26.5	14	6.6	1	84	10	-20	27	2	...
Ngatea	1	22.0	11.6	16.8	...	26.0	14	6.1	21	92	14	...	30	15	...
Paeoa	4	22.1	12.5	17.3	+1.5	26.5	14	7.4	21	90	16	-1	21	15	...
Waihi	91	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Te Aroha	18	22.1	13.4	17.8	+1.6	25.7	14	7.8	21	85	14	-15	26	15	...
Katikati	2	22.0	12.6	17.3	...	26.0	14	8.0	17	100	10	...	35	2	...
Waharoa	60	22.0	11.5	16.8	...	25.1	14	4.5	21	102	13	...	37	15	...
Tauranga	2	21.0	13.7	17.4	+1.5	26.4	13	10.0	1	85	8	-1	23	2	...
Tauranga Airport	4	21.0	12.3	16.7	+1.3	26.0	14	7.3	1	67	10	-18	17	3	194
Te Puke	91	20.8	11.2	16.0	+0.9	26.0	14	5.7	17	151	9	+20	32	3	208
Rotoehu Forest	72	20.9	10.2	15.6	+1.1	26.3	13	3.6	17	136	9	+30	37	3	...
Whakatane Airport	6	20.6	11.2	15.9	+0.8	23.2	12	5.3	17	106	9	+25	38	25	222
Te Kaha	6	20.4	13.1	16.8	...	23.0	12	9.5	18	138	8	...	66	3	...
Port Ohope	9	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Kinleith	383	20.1	10.9	15.5	+1.8	23.6	14	5.1	21	82	13	-63	26	25	...
Tikitere	338	19.3	11.3	15.3	+1.6	23.9	7	7.1	17	138	9	...	51	25	...
Kawerau	30	22.4	10.9	16.7	+0.7	28.5	14	5.0	1	131	8	+24	66	25	...
Te Teko	8	24.2	11.6	17.9	+2.3	31.0	14	5.6	17	143	9	+42	48	25	204
Rotorua Airport	287	20.2	11.4	15.8	+1.8	24.1	7	6.1	17	108	9	+11	34	25	198
Waioapu Forest	435	19.8	9.4	14.6	+1.5	23.7	14	4.8	17	106	9	+0	37	25	...
Atiamuri Power Stn	253	21.4	10.9	16.2	+2.2	25.7	7	4.4	20	68	10	-57	18	25	...
Kaingarua Forest	544	19.3	9.2	14.3	+1.7	23.7	7	3.0	28	107	9	-8	36	25	...
Murupara	198	22.4	9.7	16.1	+1.5	27.7	14	4.0	17	70	8	-27	25	25	...
Wairapukao Forest	437	20.4	8.3	14.4	+1.7	25.2	14	1.0	17	80	9	-29	32	25	...
Taupo	376	20.5	10.0	15.3	+1.8	25.0	29	3.0	28	51	8	-40	16	25	191
Wairakei Power Stn	342	21.1	10.1	15.6	+1.8	25.5	12	3.0	28	58	8	-37	19	25	...
Wairakei Research Stn	402	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Minginui Forest	366	21.3	9.4	15.4	+2.2	26.6	14	0.3	28	83	9	-46	23	25	...
Taupo Airport	407	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Waimihia Forest	743	17.4	8.1	12.8	+1.8	22.0	29	1.8	28	90	11	-51	26	4	...
Opotiki	6	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Waimana	37	21.6	11.3	16.5	+1.4	26.9	12	5.6	18	171	10	+50	53	25	...
Mangere Auckland	4	20.9	13.9	17.4	+1.4	25.0	15	9.5	29	111	19	+13	35	15	148
Otara Auckland	12	21.1	12.8	17.0	+1.6	25.0	23	6.5	21	113	14	+24	54	2	...
Auckland Airport	8	20.8	13.6	17.2	+1.2	25.1	15	9.3	21	122	15	+39	34	2	187
Ardmore	30	21.1	12.8	17.0	+1.9	24.2	14	8.0	29	132	17	+32	40	2	...
Pukekohe	82	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Maioro Forest	52	20.2	13.1	16.7	+1.4	25.0	24	9.1	1	130	11	+31	49	2	...
Hunua	122	20.7	11.5	16.1	...	23.9	14	5.0	21	110	12	...	37	15	...
Maramarua Forest	38	21.3	11.2	16.3	+1.6	24.6	14	4.7	21	106	14	+13	26	2	...
Te Kauwhata	32	21.3	12.0	16.7	+1.3	25.1	24	7.0	21	103	14	+18	40	15	156

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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.			Maxi—um	Date	Mini—um	Date				Amount		Date
Metres	°C	°C	°C	°C	°C	°C	°C	°C	mm	mm	mm	mm	Hrs		
Wallaceville	56	..	..	..	..	..	..	..	..	..	..	..	..	..
Cape Egmont	8	..	..	..	..	..	..	..	..	..	..	..	..	..
Stratford Mtn House	846	15.4	6.8	11.1	+1.6	19.3	12	1.7	21	452	13	-58	130	24	
Stratford Dem Farm	311	18.1	9.6	13.9	+1.4	21.2	14	3.0	21	175	12	+4	47	24	
Kapuni	173	..	..	..	..	..	..	..	..	..	..	..	..	..
Manaia Dem Farm	98	19.0	10.7	14.9	+1.4	22.3	14	5.4	27	103	9	+18	26	24	
Normanby	122	19.3	10.4	14.9	+1.7	22.6	14	5.9	27	100	14	..	39	24	
Patea	43	..	..	..	..	..	..	..	..	..	..	..	..	..
Pipiriki	80	..	11.9	..	..	..	..	..	7.0	21	14	..	30	24
Ohakune Junction	629	17.8	9.4	13.6	+2.1	22.2	28	2.0	27	104	13	-27	35	16	
Karioi	648	18.3	8.6	13.5	+1.8	22.2	28	3.5	17	60	11	-43	26	16	
Waiouru	823	17.4	7.8	12.6	+2.5	21.2	14	1.5	27	41	12	-39	10	3	
Waiouru Military Camp	823	17.1	7.8	12.5	+2.5	21.3	28	0.2	17	37	12	-52	12	3	
Ahu Ahu Valley	85	..	..	..	..	..	..	..	..	..	..	..	..	..
Taihape	433	..	..	..	..	..	..	..	..	..	..	..	..	..
Kahui, Taihape	518	..	..	..	..	..	..	..	..	..	..	..	..	..
Wanganui	22	20.2	12.6	16.4	+1.5	24.8	15	7.2	27	76	10	+6	26	24	
Wanganui Airport	9	..	..	..	..	..	..	..	..	..	..	..	..	..
Totaranui	10	20.1	10.5	15.3	..	26.3	12	5.4	19	39	8	-109	12	3	
Westport Airport	2	..	..	..	..	..	..	..	..	..	..	..	..	..
Cobb Dam	823	16.3	7.0	11.7	+2.1	22.3	28	1.8	19	113	13	-70	30	22	
Arapito	20	18.7	10.5	14.6	..	22.3	29	6.1	28	236	13	..	85	21	
Lake Rotoroa	443	..	..	..	..	..	..	..	..	142	10	..	44	22
Lake Rotoiti	634	18.1	6.4	12.3	+1.4	25.0	28	1.0	17	171	15	+12	50	22	
Hokitika Airport	39	16.6	9.6	13.1	+0.6	20.6	2	3.6	17	248	19	-23	71	22	
Punakaiki	4	17.6	11.4	14.5	..	20.1	2	7.5	17	273	18	..	68	23	
Reefton	198	19.2	9.0	14.1	+1.1	25.5	28	5.0	17	234	16	+43	62	22	
Barrytown	30	17.1	10.8	14.0	..	20.0	2	6.0	17	321	16	+49	70	23	
Totara Flat	77	19.8	9.1	14.5	+1.5	24.3	28	3.1	28	208	17	+17	54	22	
Greymouth	4	..	..	..	..	..	..	..	..	..	..	..	..	..
Otira Substation	383	17.7	7.9	12.8	+1.8	23.9	8	2.0	17	951	20	+414	201	22	
Springs Junction	421	18.6	7.5	13.1	+1.9	24.5	8	2.2	28	328	17	+100	85	22	
Pukekura	86	17.0	7.7	12.4	..	23.5	3	0.9	19	298	19	..	60	21	
Hari Hari	45	17.8	8.6	13.2	+1.0	24.6	2	0.9	19	359	18	-29	88	14	
Okarito	10	16.5	9.3	12.9	..	21.4	3	2.8	19	201	17	..	42	21	
Franz Josef	155	16.2	8.4	12.3	..	22.6	3	3.2	19	444	22	..	108	14	
Fox Glacier	152	16.4	8.3	12.4	+1.0	22.3	3	2.1	19	389	19	-62	91	14	
Milford Sound	3	16.4	7.9	12.2	+0.6	22.0	3	2.6	19	563	18	-17	142	14	
Puysegur Point	43	14.1	9.1	11.6	..	19.8	3	5.3	19	136	23	-52	23	13	
Stephens Is	187	16.3	11.4	13.9	+1.3	17.6	28	8.9	19	106	12	+40	39	24	
Riwaka Motueka	8	21.2	9.9	15.6	+1.4	27.2	12	4.8	19	33	10	-64	10	3	
Tapawera	146	21.2	8.7	15.0	..	27.3	12	4.2	20	69	9	..	23	22	
Crail Bay Pelorus Sd	13	19.1	11.6	15.4	..	23.4	13	6.9	19	85	..	..	..	..
Appleby	17	20.3	11.0	15.7	+1.6	26.0	12	6.1	27	31	10	-43	10	22	
Nelson Airport	2	20.0	10.9	15.5	+1.5	26.1	12	6.0	20	39	11	-43	14	15	
Rai Valley	79	20.5	9.3	14.9	+1.4	26.6	12	2.4	20	64	9	-120	22	15	
Moutere Hills	110	20.0	11.8	15.9	+1.7	27.5	12	7.5	18	52	11	-33	13	16	
Wairau Valley	162	21.4	9.2	15.3	..	28.6	28	2.8	19	47	10	..	17	15	
Blenheim Airport	27	21.6	10.3	16.0	+1.7	28.7	29	4.0	27	34	9	-25	12	3	
Brancott Valley	64	21.9	9.4	15.7	..	28.6	29	3.4	19	31	8	..	10	3	
Blenheim	4	22.0	10.6	16.3	+1.5	28.6	11	4.7	26	36	9	-15	17	3	
Wither Hills Blenheim	32	22.0	10.8	16.4	+1.9	29.0	28	4.5	27	37	9	-13	17	2	
Waihopai Power Stn	262	21.0	9.5	15.3	+1.7	28.3	28	4.0	17	50	11	-26	15	15	
Duntroon	350	..	..	..	..	..	..	..	..	67	12	-1	15	15
Lake Grassmere	2	19.8	11.7	15.8	+1.3	26.8	30	2.2	22	31	4	-6	15	16	
Cape Campbell	3	..	..	..	..	..	..	..	..	..	..	..	..	..
Boyle River Lodge	600	..	..	..	..	..	..	..	..	..	..	..	..	..
Hanmer Forest	387	20.7	7.0	13.9	+1.6	27.5	28	-0.6	19	81	11	-7	27	16	
Molesworth	893	18.4	4.8	11.6	+1.4	24.6	28	-2.2	19	64	9	+6	28	22	
Kaikoura Flats	24	19.3	8.6	14.0	..	29.5	22	1.7	19	48	6	..	40	16	
Kaikoura	108	18.0	10.6	14.3	+1.1	27.7	23	3.7	17	42	5	-15	36	16	
Arthurs Pass	738	15.4	6.3	10.9	..	21.5	8	0.2	17	827	17	+390	230	22	
Culverden	174	21.0	8.2	14.6	..	28.0	12	0.8	19	69	7	..	51	16	
Balmoral Forest	198	21.2	8.5	14.9	+1.8	28.3	12	0.7	19	69	10	+23	40	16	
Waiau	137	22.4	8.6	15.5	..	29.5	28	1.8	26	48	7	..	37	16	
Cheviot	85	20.3	8.1	14.2	..	29.6	28	1.5	26	52	4	..	42	16	
The Hermitage Mt Cook	765	..	..	..	..	..	..	..	..	..	..	..	..	..
Mt John	1027	16.8	5.7	11.3	+1.9	22.3	11	-0.8	19	76	9	+25	38	22	
Craigieburn Forest	914	..	..	..	..	..	..	..	..	..	..	..	..	..
Lake Coleridge	364	19.9	7.8	13.9	+1.5	29.3	11	1.0	19	126	10	+51	46	22	
Highbank Power Stn	336	18.9	8.1	13.5	+1.1	27.2	11	2.7	19	110	9	+21	33	16	
Hororata Substation	192	21.4	8.3	14.9	+1.9	29.2	11	1.9	19	104	9	+38	41	16	
Winchmore	160	20.3	8.6	14.5	+1.7	29.2	12	1.7	19	69	8	+4	30	16	
Peel Forest	274	20.1	7.4	13.8	+2.0	28.9	11	-0.5	19	70	15	-21	21	16	
Ashburton	101	21.7	9.5	15.6	+1.7	31.4	28	2.1	17	47	6	-19	19	16	

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		A Max.	B Min.			Maxi- mum	Date	Mini- mum	Date				Amount	Date	
°C	°C	°C	°C	°C	°C	°C	°C	mm	mm	mm					
Waipara	64	
Ashley Forest	107	..	..	..	..	..	..	..	..	..	..	..	..	..
Rangiora	46	20.1	9.4	14.8	+1.4	28.2	22	3.5	9	121	11	+67	85	16	
Darfield	195	22.0	8.6	15.3	+1.8	30.7	12	2.0	19	96	9	+29	37	16	
Eyrewell Forest	158	20.7	8.6	14.7	+1.4	28.6	12	2.0	19	90	7	+28	36	16	
Christchurch Airport	30	20.5	10.5	15.5	+1.7	29.3	15	3.5	19	70	8	+21	41	16	
Templeton	46	20.1	9.5	14.8	+1.7	28.0	15	3.5	19	53	6	..	24	16	
Christchurch	7	20.7	10.7	15.7	+1.6	28.7	22	4.0	19	66	6	+20	41	16	
Bromley Christchurch	9	19.4	11.4	15.4	+1.3	28.1	22	4.9	19	45	7	+2	23	16	
Mt Pleasant	137	19.1	11.0	15.1	+1.4	27.0	22	4.5	19	58	5	+11	27	16	
Lincoln	11	19.7	9.3	14.5	+1.2	26.8	15	2.6	19	71	7	+17	31	16	
Quail Island	75	18.6	10.9	14.8	..	27.5	15	3.8	19	57	4	..	32	16	
Akaroa	3	..	..	..	..	..	..	..	..	..	..	..	..	..
Lake Tekapo	683	19.6	6.8	13.2	+1.7	28.0	9	0.0	17	70	9	+18	36	22	
Lake Pukaki	556	19.4	7.4	13.4	+1.4	25.2	11	0.4	17	68	8	-4	33	22	
Fairlie	304	20.8	7.4	14.1	..	30.3	28	-1.1	19	54	7	..	19	16	
Twizel	457	20.3	6.2	13.3	+1.5	25.5	11	-2.0	19	63	9	-15	33	22	
Ikawai	70	19.4	8.2	13.8	+1.4	27.5	11	0.1	17	55	8	-1	17	16	
Geraldine	119	21.1	9.1	15.1	+1.9	29.7	28	1.0	19	57	10	-18	24	15	
Orari Estate	81	21.5	8.8	15.2	+2.4	30.0	12	1.0	19	45	10	-29	15	23	
Temuka	24	20.5	8.8	14.7	+1.9	29.4	15	0.7	19	60	8	-2	22	15	
Timaru Airport	26	..	..	..	..	..	..	..	..	..	..	..	..	..
Adair	85	19.1	9.5	14.3	+1.6	28.0	15	2.5	19	55	11	-3	17	23	
Timaru	17	19.4	10.1	14.8	+1.2	29.1	15	2.2	19	47	8	-11	16	23	
Waimate	61	19.5	9.4	14.5	+1.2	28.6	30	2.4	17	62	9	-2	16	16	
Aviemore	241	20.0	8.5	14.3	..	26.6	11	1.8	17	52	10	+5	18	22	
Kurow	207	..	..	..	..	..	..	..	..	..	..	..	..	..
Oamaru Airport	30	..	..	..	..	..	..	..	..	..	..	..	..	..
Knobs Flat	360	..	5.3	..	..	..	..	0.0	26	138	18	-73	30	22
Tara Hills Omarama	488	..	..	..	..	..	..	..	..	..	..	..	..	..
Lake Hawea	350	..	..	..	..	..	..	..	..	..	..	..	..	..
Wanaka	296	..	..	..	..	..	..	..	..	..	..	..	..	..
Queensberry	277	20.5	8.2	14.4	..	26.1	11	0.5	17	63	11	..	21	22	
Bendigo	200	20.3	7.6	14.0	..	25.8	10	0.9	17	46	9	..	14	22	
Naseby	607	..	..	..	..	..	..	..	..	..	..	..	..	..
Windsor	88	..	..	..	..	..	..	..	..	..	..	..	..	..
Oamaru	5	..	..	..	..	..	..	..	..	..	..	..	..	..
Ranfurlly	427	19.4	6.4	12.9	+1.5	25.8	11	-0.6	17	69	11	+28	16	16	
Herbert Forest	61	..	..	..	..	..	..	..	..	..	..	..	..	..
Palmerston	21	18.9	8.1	13.5	+1.7	26.9	30	0.7	17	36	12	-16	11	13	
Cherry Farm Hospital	6	18.4	7.8	13.1	+1.2	27.7	30	0.7	17	57	14	+0	15	16	
Taiaroa Head	72	..	..	..	..	..	..	..	..	..	..	..	..	..
Invermay, Taieri	30	18.3	8.2	13.3	+1.2	26.0	11	2.5	19	65	20	-5	14	22	
Berwick Forest	18	18.6	7.4	13.0	+1.0	24.8	15	2.2	26	46	13	-25	11	16	
Dunedin Airport	1	18.7	8.1	13.4	+1.4	24.7	15	1.1	19	42	14	-31	7	22	
Musselburgh Dunedin	2	17.6	10.0	13.8	+1.3	26.0	15	3.4	19	52	17	-21	13	24	
Te Anau	215	18.3	6.8	12.6	+1.5	24.9	3	0.6	26	62	15	-36	17	22	
West Arm, Manapouri	232	16.1	7.5	11.8	+1.2	23.8	3	2.9	19	327	19	-34	62	22	
Borland Burn	183	19.2	5.5	12.4	+1.5	24.4	10	-1.2	26	72	14	-22	19	22	
Queenstown	329	20.2	8.5	14.4	+1.8	25.3	3	2.7	17	79	11	+8	27	22	
Queenstown Airport	349	..	..	..	..	..	..	..	..	..	..	..	..	..
Gibbston	366	..	..	..	..	..	..	..	..	..	..	..	..	..
Otama	183	..	..	..	..	..	..	..	..	..	..	..	..	..
Cromwell Sub Stn	213	21.8	8.5	15.2	..	26.8	28	1.4	17	38	5	+16	12	22	
Cromwell	213	22.1	7.8	15.0	+1.3	27.0	28	1.1	17	45	10	+12	12	21	
Northburn	210	21.3	8.3	14.8	..	26.2	10	1.8	17	32	11	..	8	15	
Lauder	370	19.8	6.9	13.4	..	24.8	28	-0.4	26	82	12	..	31	5	
Clyde Dam	160	21.9	8.5	15.2	..	27.3	28	2.5	17	46	12	..	12	21	
Ophir	305	..	..	..	..	..	..	..	..	..	..	..	..	..
Clyde(Dsir)	171	22.1	7.7	14.9	..	28.0	28	0.6	17	43	12	..	11	21	
Alexandra	141	..	..	..	..	..	..	..	..	..	..	..	..	..
Roxburgh Power Stn	110	..	..	..	..	..	..	..	..	..	..	..	..	..
Ettrick	83	..	..	..	..	..	..	..	..	..	..	..	..	..
Deep Stream	396	..	..	..	..	..	..	..	..	..	..	..	..	..
Beaumont	46	19.6	8.2	13.9	..	25.0	21	1.5	26	96	15	+15	35	18	
Mahinerangi Dam	396	..	..	..	..	..	..	..	..	..	..	..	..	..
Tapanui	226	17.5	7.4	12.5	+0.8	23.0	3	0.4	19	75	13	+1	20	13	
Taieri Mouth	15	17.3	8.3	12.8	+1.5	23.8	15	2.4	19	31	16	-39	8	18	
Tuatapere	27	17.9	7.6	12.8	..	24.8	3	1.8	26	75	13	..	16	13	
Otautau	55	17.9	7.2	12.6	+1.2	23.8	11	1.1	26	90	11	+6	25	18	
Winton	44	17.8	7.6	12.7	+1.0	23.6	14	1.8	26	63	14	-3	19	13	
Gore	123	..	..	..	..	..	..	..	..	..	..	..	..	..
Hokonui Forest	46	17.7	7.5	12.6	+0.6	23.0	14	1.0	26	77	13	-12	16	13	
Woodlands	47	17.5	7.4	12.5	+1.0	23.2	3	1.5	26	82	19	-19	18	17	
Invercargill Airport	0	16.9	8.1	12.5	+1.2	23.3	14	3.4	26	64	17	-25	16	17	

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

Station	Height of Station Above M.S.L.	Air Temperature in Degrees-Celsius								Rainfall in Millimetres				Bright Sun-shine	
		Means of		Mean of A and B	Differ-ence From Normal	Absolute Maximum and Minimum				Total Fall	No. of Rain Days	Differ-ence From Normal	Maximum Fall		
		A Max.	B Min.			Maxi-mum	Date	Mini-mum	Date				Amount		Date
Metres	°C	°C	°C	°C	°C	°C	°C	mm	mm	mm	Hrs				
Tiwai Point, Bluff	5	15.9	9.4	12.7	+0.9	22.8	29	5.1	18	61	17	-32	16	12	..
Stewart Is	3	15.2	7.7	11.5	+1.0	18.8	27	3.2	17	102	24	-10	15	12	..
Milton	18	18.7	7.8	13.3	+1.3	24.0	15	1.2	26	40	14	-25	7	16	..
Clinton School	120	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Finegand Balclutha	6	18.2	8.4	13.3	+1.3	24.5	22	3.1	19	32	9	-32	6	16	167
Owaka	5	17.6	7.1	12.4	+0.7	22.8	15	1.2	26	56	14	-18	12	18	..
Nugget Point	129	15.5	8.1	11.8	+0.9	22.0	15	1.2	19	57	17	-22	11	18	..
Tautuku	40	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Nadi Airport Fiji	19	31.4	21.9	26.7	+0.4	34.1	20	19.8	26	80	10	-63	35	29	174
Rarotonga Airport	7	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Totokoitu, Rarotonga	9	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Raoul Is	38	21.6	16.7	19.2	+0.3	23.3	17	14.3	11	2	6	-75	1	17	192
Campbell Is	15	9.7	5.1	7.4	+0.2	11.7	21	-0.5	19	111	28	+34	17	21	81
Waitangi, Chatham Is	44	15.1	9.4	12.3	+0.8	19.2	24	4.7	19	37	13	-20	14	16	199
Scott Base Antarctica	16	-6.4	-15.3	-10.9	+1.0	-0.8	28	-20.	2 4	..	..	..	..	..	..
LATE RETURNS AND CORRECTIONS															
Aupouri Forest 10/1984	69	17.9	10.9	14.4	-0.3	21.5	18	6.9	4	14	5	-94	6	7	..
Waiotemarama 05/1983	229	15.6	10.3	13.0	-0.7	18.7	5	5.7	24	132	25	..	32	5	..
Waiotemarama 07/1984	229	14.3	8.7	11.5	+0.6	17.0	2	2.5	16	199	24	..	25	15	..
Waiotemarama 08/1984	229	14.7	9.1	11.9	+0.6	16.8	20	5.0	7	113	16	..	24	21	..
Leigh 10/1984	27	17.6	11.1	14.4	+0.0	20.9	15	6.6	2	7	8	-87	2	11	224
Whangapoua Forest 09/1984	4	..	..	..	..	..	..	..	..	186	..	+23	..	..	..
Whangapoua Forest 10/1984	4	19.5	6.9	13.2	-0.7	23.0	30	1.3	3	24	..	-113	8	18	..
Huntly 09/1984	34	16.4	8.1	12.3	..	19.2	2	4.1	1	66	14	..	14	30	..
Huntly 10/1984	34	18.3	8.4	13.4	..	22.7	31	3.0	2	40	..	..	..	..	..
Taupiri 04/1984	23	21.2	7.3	14.3	..	28.4	1	1.1	20	32	15	..	14	28	..
North Egmont 10/1984	955	..	..	..	..	..	..	..	..	440	20	..	149	17	..
Te Wera Forest 09/1984	180	14.7	4.0	9.4	-0.2	19.0	21	-1.3	8	100	13	-52	42	26	..
Te Wera Forest 10/1984	180	15.9	6.1	11.0	-0.6	20.4	31	-1.8	5	94	17	-60	27	17	..
Hukanui 10/1984	235	14.2	6.5	10.4	..	19.6	28	-1.1	5	115	21	-73	20	10	..
Waingawa Masterton 10/1984	114	17.3	6.0	11.7	-0.2	22.5	31	1.0	6	43	14	-33	8	18	218
Hastings 10/1984	16	19.4	7.3	13.4	..	25.4	29	1.7	6	8	4	..	4	8	..
Kapiti Is 01/1983	16	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Kapiti Is 02/1983	16	20.2	13.4	16.8	-0.7	24.1	18	9.6	6	9	..	-57	3	21	..
Kapiti Is 03/1983	16	18.2	13.5	15.9	-0.7	22.9	13	9.0	18	114	..	+28	..	..	..
Kapiti Is 04/1983	16	..	..	..	..	..	..	..	..	88	..	-8	32	1	..
Kapiti Is 05/1983	16	13.7	9.1	11.4	-0.5	16.8	5	5.2	25	85	..	-33	19	17	..
Kapiti Is 06/1983	16	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Kapiti Is 07/1983	16	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Kapiti Is 08/1983	16	11.9	7.8	9.9	+0.1	13.6	1	3.8	27	84	..	-14	31	20	..
Kapiti Is 09/1983	16	13.9	7.8	10.9	-0.2	15.5	12	4.8	16	179	..	+89	72	10	..
Kapiti Is 10/1983	16	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Kapiti Is 05/1984	16	13.7	9.0	11.4	-0.5	16.5	7	5.0	1	87	13	-31	33	9	..
Patea 08/1984	43	14.8	7.0	10.9	+1.0	17.5	14	0.0	9	61	..	-33	13	4	..
Puyssegur Point 10/1984	43	12.6	7.7	10.2	..	15.5	15	4.7	21	154	25	-25	15	7	..
Wither Hills Blenheim 10/1984	32	19.0	6.7	12.9	+0.3	24.7	14	-0.5	2	15	5	-40	10	17	..
Waihopai Power Stn 10/1984	262	..	..	..	..	..	..	..	..	40	7	-43	25	17	..
Ashley Forest 10/1984	107	16.6	6.3	11.5	+0.1	25.5	14	2.0	4	40	9	-23	20	30	215
Herbert Forest 10/1984	61	17.1	4.3	10.7	+0.5	24.6	17	0.8	21	19	9	-34	10	8	..
Taiaroa Head 06/1984	72	11.7	5.7	8.7	+1.3	16.4	9	1.6	24	30	7	-27	19	30	..
Deep Stream 04/1984	396	16.0	3.1	9.6	..	22.0	7	-4.0	24	69	14	..	50	30	..
Otautau 10/1984	55	15.1	4.6	9.9	-0.2	20.6	14	-1.0	4	111	15	+22	22	15	165
Gore 10/1984	123	14.7	5.0	9.9	-0.2	20.6	17	1.0	21	76	18	-2	13	15	145
Clinton School 10/1984	120	..	4.2	..	..	..	..	0.2	21	90	19	..	15	21	..
Campbell Is 07/1984	15	7.1	2.8	5.0	+0.3	9.1	19	-4.0	8	81	26	-26	17	30	14
Campbell Is 08/1984	15	7.2	3.7	5.5	+0.3	11.8	11	-3.0	7	99	30	-6	33	3	8
Campbell Is 09/1984	15	8.7	4.5	6.6	+1.0	10.6	3	-1.3	29	81	24	-25	27	11	35
Campbell Is 10/1984	15	9.3	4.1	6.7	+0.6	12.0	16	-1.4	21	128	26	+19	21	17	65

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 rainy day 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 NOVEMBER 1984

General—November was a mild month, and a little wetter than usual in many places.

There were more north-westerly winds than normal in both the north and south of the country this month, with a corresponding decrease in the frequency of south-westerlies in the north and winds from an easterly quarter in the south. There were slightly more strong winds than usual this month. Gales in the Wellington region caused disruptions to air transport and power supplies on the 23rd. Two houses lost roofs and there were many reports of minor damage.

Farmers in the North Island reported that stock were generally in excellent condition, although very dry conditions are beginning to develop in southern Hawkes Bay and parts of Wairarapa. Fly strike was a problem in many areas. Conditions were also very good in the South Island, although parts of South Canterbury and North Otago were very dry and there were some feed problems locally.

Many observers reported that native shrubs and trees were flowering early and prolifically, with cabbage trees and flax frequently specified.

A severe hailstorm in north-west Auckland on the 4th caused serious damage to orchards, vineyards and glasshouses. Individual farms sustained up to \$50,000 damage to glasshouses and equipment, with total damage estimated at several million dollars. Damaging hailstorms occurred on the same day in Manawatu, causing damage to horticultural crops.

Rainfall—Eastern parts of Northland and north Auckland, Bay of Plenty, some central areas and the Wellington region were drier than usual while most of the rest of the North Island had between normal and 160 percent of normal rainfall. Nelson, Blenheim, Marlborough, Southland and isolated areas of South Westland had between normal and half normal rainfall. The rest of the South Island had up to 180 percent of the usual November rainfall.

Prolonged moderate to heavy rainfall in inland areas and the ranges of northern and central Westland during the 21st to 23rd caused extensive flooding in some low lying coastal areas when rivers and streams overtopped their banks. Much of the commercial area and low-lying residential areas of Greymouth were flooded when the Grey River broke its banks. Among the heavier 72-hour falls recorded between the 21st and 23rd were: Inchbonnie, 415 mm; Lake Kaniere, 296 mm; Kowhitirangi, 237 mm.

Temperature—November was a very mild month, with mean temperatures between 1°C and 2.5°C above average over the whole country, except Westland and Fiordland which were up to 1°C above average. For many parts of the country this was the warmest November since 1972. Maximum temperatures were generally very high, reaching 20°C or more on half the days this month at many stations. For example, in Gisborne there were 26 days with temperatures of 20°C or above of which 10 reached 25°C or more.

Corresponding figures (i.e. days when the maximum reached 20°C or above and the number of those above 25°C) for some other stations were: Blenheim 23, 5; Masterton 23, 2; Hororata 21, 6; Alexandra 20, 10; Napier 20, 6.

There were only two short periods of cool weather this month. Temperatures were 2°–6° below average between the 16th and 19th. The 18th was generally very cold, especially in sheltered and inland areas of the South Island where widespread frosts occurred.

Temperatures were also very cool on the 26th and 27th.

Sunshine—Sunshine hours were average or below average over the North Island apart from some eastern areas which were a little sunnier than usual. In the South Island, Nelson and some southern and eastern areas had average or slightly above average sunshine, otherwise the South Island was also cloudier than usual this month. Among those stations with the greatest departures this month were: Timaru (+24 hours), Gisborne (+22 hours), Nelson (+21 hours), Kaikoura (–41 hours), New Plymouth (–31 hours) and Auckland (–30 hours).

THE WEATHER SEQUENCE, NOVEMBER 1984

1–7 November

Although an extensive high pressure system over the country brought generally fine weather on the 1st a cold front to the west caused showers in the north of the North Island. By the 2nd a small depression had developed on this front and heavy showers fell in the north and west of the North Island on the 2nd and these spread southwards over the North Island and north of the South Island on the 3rd.

By the 4th the rain was confined to central areas of the North Island as the depression crossed the country. The rain had cleared by the 5th although a front to the south brought showers to southern and western areas of the South Island. A belt of high pressure had become established over the country by the 6th and apart from light showers in parts of Northland the weather was generally fine and mild on the 6th and 7th.

8–14 November

The high pressure belt continued to cover the country. The weather was fine and settled in most areas between the 8th and 11th, although a warm front passing to the north brought rain to parts of Northland on the 8th and 9th. Temperatures were very mild at times. Showers fell in parts of Southland and Westland on the 12th as a front passed to the south, but the northerly flow which still covered the country meant temperatures remained very warm. There was further rain in southern and western areas of the South Island and isolated areas of the North Island as a cold front developed between the high pressure belt over New Zealand and an anticyclone over Australia.

Temperatures continued to be warm.

15–21 November

The cold front moved onto the country during the 15th and rain became widespread apart from eastern areas of both Islands. Temperatures remained mild. Rain continued in most areas on the 16th, but by the 17th had cleared apart from the south and west of the South Island, and some very light falls in western areas of the North Island. A strong south-westerly flow developed over the country on the 18th.

Temperatures were cool and there were showers in many areas on the 18th and 19th as a front within the flow crossed the country. By the 20th an anticyclone extended over the north of the country, with a south-westerly flow remaining to the south. Apart from continuing showers in south Westland and Fiordland the weather was fine. During the 21st a cold front moved onto the south of the South Island, bringing rain to southern and western areas.

22–30 November

A strong north-westerly flow associated with a deep depression near MacQuarie Island covered the South Island on the 22nd. A front within this flow brought rain to much of the South Island on the 22nd, with very heavy falls in Westland and Fiordland. Temperatures were very mild, especially in eastern areas. Rain spread to the south of the North Island on the 23rd as the front began to cross the country.

There was further rain from Taranaki southwards on the 24th although falls were very light in eastern areas of the South Island. By the 26th the rain had cleared south of Manawatu and heavy rain was falling from Hawkes Bay northward as the front continued to move north-eastwards. It lay off the east coast by the 27th and an extensive anticyclone with centres east and west of the South Island brought generally fine weather, although showers persisted in northern and eastern areas of the North Island.

The weather became generally mild and settled until the 29th, when a cold front began to move onto the South of the South Island and rain fell in Fiordland and Westland on the 29th, when a cold front began to move onto the South of the South Island and rain fell in Fiordland and Westland on the 29th and 30th, with light falls in some western areas of the North Island and about Cook Strait on the 30th.

J. S. HICKMAN, Director.

