



SUPPLEMENT
TO THE
NEW ZEALAND GAZETTE
OF
THURSDAY, 30 JANUARY 1986

Published by Authority

WELLINGTON: FRIDAY, 31 JANUARY 1986

CLIMATOLOGICAL TABLE
FOR NOVEMBER 1985

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

Station	Height of Station Above M.S.L. Metres	Air Temperature in Degrees Celsius								Rainfall in Millimetres					Bright Sunshine Hrs
		Means of		Mean of A and B °C	Difference From Normal °C	Absolute Maximum and Minimum				Total Fall mm	No. of Rain Days	Difference From Normal mm	Maximum Fall		
		A Max. °C	B Min. °C			Maxi- mum °C	Date	Mini- mum °C	Date				Amount mm	Date	
Lake Coleridge	364	17.9	7.6	12.8	+0.4	26.0	14	1.2	6	43	13	-32	7	5	..
Highbank Power Stn	336	15.7	7.1	11.4	-1.0	25.8	16	2.0	6	126	15	+37	22	12	168
Hororata Substation	192	18.1	7.3	12.7	-0.3	26.5	16	2.0	4	112	14	+46	16	5	163
Winchmore	160	17.1	7.9	12.5	-0.3	25.7	16	1.7	6	99	14	+34	21	5	..
Peel Forest	274	17.1	6.3	11.7	-0.1	26.9	16	-1.1	6	142	21	+51	29	5	..
Ashburton	101	18.1	8.2	13.2	-0.7	28.3	16	1.7	6	90	13	+24	20	5	138
Waipara	64	19.8	9.3	14.6	+0.7	29.0	16	4.3	4	123	11	+79	27	24	..
Ashley Forest	107	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Rangiora	46	18.2	8.0	13.1	-0.3	29.5	15	3.2	14	90	15	+36	21	24	..
Darfield	195	18.5	7.8	13.2	-0.3	28.9	16	1.6	6	114	16	+47	20	25	..
Eyrewell Forest	158	18.1	7.5	12.8	-0.5	26.8	16	1.7	14	103	13	+41	21	24	..
Christchurch Airport	30	18.4	8.5	13.5	-0.3	28.6	15	3.9	8	75	12	+26	23	25	196
Templeton	46	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Christchurch	7	18.5	9.3	13.9	-0.2	28.0	15	3.0	2	91	14	+45	21	5	..
Bromley Christchurch	9	17.5	10.1	13.8	-0.3	28.0	15	4.4	6	75	14	+32	23	5	..
Mt Pleasant	137	17.2	9.8	13.5	-0.2	26.8	15	3.8	6	93	12	+46	25	5	..
Lincoln	11	17.6	8.4	13.0	-0.3	26.3	16	3.5	8	113	15	+59	32	25	171
Quail Island	75	16.6	9.8	13.2	..	26.2	15	4.4	6	66	11	..	19	5	..
Akaroa	3	19.0	8.6	13.8	+0.1	29.0	15	4.5	10	120	10	..	45	25	..
Lake Tekapo	683	16.7	6.0	11.4	-0.1	24.5	14	-1.2	6	33	10	-19	8	20	..
Fairlie	304	17.9	6.0	12.0	..	26.7	15	-1.6	6	81	11	..	25	20	..
Twizel	457	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Twizel Substation	451	19.2	6.5	12.9	..	27.9	14	0.9	8	51	12	..	13	18	..
Ikawai	70	17.3	7.0	12.2	-0.2	27.0	17	0.5	13	46	10	-10	14	12	..
Geraldine	119	17.9	7.9	12.9	-0.3	28.1	16	3.2	6	135	11	+60	51	20	..
Orari Estate	81	17.5	7.6	12.6	-0.2	27.9	16	0.9	6	122	14	+48	49	20	..
Temuka	24	17.4	7.7	12.6	-0.2	28.2	16	1.4	6	90	15	+28	25	20	..
Timaru Airport	26	17.2	7.6	12.4	+0.0	28.3	16	1.1	6	90	11	+35	35	20	..
Adair	85	16.2	8.5	12.4	-0.3	25.8	17	2.6	6	107	15	+49	29	20	..
Timaru	17	16.6	8.9	12.8	-0.8	26.4	17	2.5	6	104	14	+46	30	20	..
Timaru 2	17	16.2	9.0	12.6	..	26.0	17	2.7	6	100	14	..	29	20	149
Waimate	61	16.6	8.0	12.3	-1.0	26.4	16	2.4	13	70	14	+6	21	2	..
Aviemore	241	18.3	7.6	13.0	..	25.6	15	1.5	6	28	13	-19	6	18	..
Kurow	207	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Knobs Flat	375	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Tara Hills Omarama	488	18.8	6.3	12.6	+0.7	27.7	14	-1.1	13	61	9	+14	24	18	167
Lake Hawea	350	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Wanaka	296	20.0	8.0	14.0	+1.1	25.9	14	0.0	6	75	..	+15	30	18	..
Queensberry	277	19.4	8.4	13.9	..	27.4	14	1.2	6	67	11	..	28	18	..
Bendigo	200	20.6	8.3	14.5	..	28.5	14	-0.5	6	51	8	..	21	18	..
Naseby	607	16.1	4.7	10.4	..	24.5	14	-1.4	6	55	12	..	14	12	..
Windsor	88	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Oamaru	5	16.1	8.3	12.2	..	27.1	16	..	..	46	10	..	10	12	..
Ranfurly	427	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Herbert Forest	61	16.6	5.4	11.0	-0.6	25.5	16	0.9	16	78	14	-3	18	18	..
Palmerston	21	16.6	7.6	12.1	+0.3	26.6	15	0.6	8	44	12	-8	11	18	152
Cherry Farm Hospital	6	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Taiaroa Head	72	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Invermay, Taieri	30	16.4	7.6	12.0	-0.1	25.5	15	-0.9	9	51	19	-19	9	18	142
Berwick Forest	18	16.8	7.9	12.4	+0.4	26.0	15	1.0	10	54	15	-17	12	3	..
Dunedin Airport	1	17.2	7.2	12.2	+0.2	26.5	15	-1.4	10	44	17	-29	9	17	145
Musselburgh Dunedin	2	15.1	9.0	12.1	-0.4	25.3	17	5.0	6	51	19	-22	10	18	126
Te Anau	215	..	..	..	..	..	..	..	..	..	..	..	..	..	..
West Arm, Manapouri	232	15.9	7.4	11.7	+1.1	23.0	29	1.0	6	202	17	-159	36	17	..
Borland Burn	183	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Queenstown	329	18.4	8.0	13.2	+0.6	25.0	28	2.6	13	61	12	-10	30	19	178
Queenstown Airport	349	17.7	6.1	11.9	+0.3	24.5	14	0.0	6	61	9	+8	31	19	..
Gibbston	354	18.1	7.7	12.9	..	25.3	14	-1.0	6	53	7	..	17	19	..
Cromwell Sub Stn	213	20.5	8.8	14.7	..	28.9	14	1.1	6	44	7	+22	14	19	..
Cromwell	213	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Northburn	210	20.1	8.7	14.4	..	28.0	14	1.5	6	48	9	..	14	18	..
Cromwell 2	213	20.3	8.2	14.3	..	28.7	14	-0.1	6	44	8	..	15	19	182
Lauder	370	18.5	6.6	12.6	..	27.0	14	-0.7	6	68	12	..	27	18	..
Clyde Dam	160	20.1	8.5	14.3	..	29.6	14	2.1	13	46	8	..	17	18	..
Ophir	305	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Clyde(Dsir)	171	20.1	7.9	14.0	..	29.9	14	0.4	6	44	11	..	14	18	..
Alexandra	141	20.4	7.9	14.2	..	30.0	14	1.0	14	44	11	..	14	18	190
Roxburgh Power Stn	110	19.4	8.0	13.7	+0.4	28.0	14	1.6	8	61	15	+17	16	29	..
Etrick No 1	83	19.3	7.4	13.4	..	28.0	14	0.5	6	40	13	..	11	3	..
Etrick No 2	91	19.0	6.8	12.9	..	27.2	15	0.5	8	38	15	..	13	3	..
Deep Stream	396	15.8	6.2	11.0	..	24.5	16	-1.0	9	39	17	..	9	17	..
Beaumont	46	18.2	7.2	12.7	..	27.0	15	1.3	6	98	17	+17	26	3	..
Mahinerangi Dam	396	14.2	6.3	10.3	+0.1	24.0	16	0.2	6	87	15	+2	24	3	..
Tapanui	226	16.3	6.6	11.5	-0.2	25.1	15	1.2	6	59	15	-15	12	1	..
Taieri Mouth	15	15.0	7.8	11.4	+0.1	23.5	17	1.3	10	48	15	-22	15	3	..

CLIMATOLOGICAL TABLE—Summary of the Records of Temperature, Rainfall, and Sunshine for November-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	°C	mm	mm	mm	mm	Hrs		
Tuatapere	27	16.8	7.6	12.2	..	23.2	17	1.2	8	107	17	..	22	19	..
Otautau	55	16.6	7.0	11.8	+0.4	22.8	14	1.3	6	127	17	+43	28	19	159
Winton	44	16.8	7.2	12.0	+0.3	24.0	14	1.5	25	100	14	+34	21	19	177
Gore	123	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Hokonui Forest	46	16.8	7.1	12.0	+0.0	..	..	1.0	6	87	15	-2	19	3	..
Woodlands	47	16.4	7.3	11.9	+0.4	23.1	14	2.0	6	91	19	-10	19	3	..
Invercargill Airport	0	16.0	7.8	11.9	+0.6	22.6	15	1.3	10	99	18	+10	24	19	180
Tiwai Point, Bluff	5	15.5	9.2	12.4	+0.6	22.5	17	6.0	10	102	15	+9	31	19	..
Stewart Is	3	14.7	7.9	11.3	+0.8	22.2	15	3.5	3	159	20	+47	61	19	..
Milton	18	16.8	7.4	12.1	+0.1	24.6	15	-0.1	10	41	14	-24	10	1	..
Clinton School	120	16.0	..	..	..	..	..	..	..	65	18	..	16	3	..
Finegand Balclutha	6	16.6	7.8	12.2	+0.2	25.0	11	3.0	3	39	15	-25	11	1	120
Owaka	5	15.6	7.3	11.5	-0.2	25.1	15	-1.0	10	62	18	-12	13	3	..
Nugget Point	129	14.0	7.6	10.8	-0.1	21.3	17	3.2	6	57	19	-22	9	20	..
Tautuku	40	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Nadi Airport Fiji	15	31.4	21.7	26.6	+0.3	34.6	24	19.0	12	85	13	-58	28	25	189
Rarotonga Airport	7	26.9	21.7	24.3	+0.2	28.6	13	17.1	20	144	16	-11	53	15	137
Totokoitu, Rarotonga	9	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Raoul Is	38	20.8	15.7	18.3	-0.6	22.5	27	..	..	158	11	+81	40	24	167
Campbell Is	15	10.2	4.5	7.4	+0.2	13.5	27	-2.9	20	64	21	-43	18	16	68
Waitangi, Chatham Is	44	14.3	9.1	11.7	+0.2	18.5	20	3.8	12	30	16	-27	7	24	182
Scott Base Antarctica	16	-8.9	-16.8	-12.8	-0.9	-0.1	25	-26.3	4	..	..	..	..	..	..
LATE RETURNS AND CORRECTIONS															
Cape Reinga 10/1985	191	17.9	11.6	14.8	+0.7	20.5	12	7.7	27	34	15	-39	13	13	..
Pouo 10/1985	97	16.7	..	..	..	21.0	30	..	..	77	14	..	27	20	..
Little Barrier Is 10/1985	2	17.5	10.8	14.2	..	20.1	13	7.8	4	72	18	-37	24	16	..
Waihi 10/1985	91	17.8	7.8	12.8	-0.6	21.0	7	1.6	28	87	15	-82	31	25	199
Wairakei Research Stn 10/1985	402	17.6	4.0	10.8	-0.4	24.5	30	-1.5	17	54	12	-46	19	25	..
Huntly 10/1985	34	18.3	8.6	13.5	..	22.3	30	3.5	28	50	..	..	..	..	..
Turangi 10/1985	366	16.7	4.4	10.6	-0.9	23.5	7	-1.0	18	96	12	-41	39	25	213
Ngamatea 10/1985	885	12.3	0.5	6.4	..	18.1	20	-4.9	17	58	13	..	23	25	..
Rimutaka Forest 10/1985	37	15.6	7.2	11.4	..	20.0	21	1.5	19	134	17	..	24	19	..
Deep Cove 10/1985	30	15.2	..	..	..	21.5	21	..	..	198	14	..	37	9	..
Puysegur Point 10/1985	43	13.4	7.7	10.6	..	19.5	21	4.5	26	80	20	-99	33	12	..
Wither Hills Blenheim 10/1985	32	16.8	6.1	11.5	-1.1	21.7	31	-0.5	18	39	9	-16	18	23	..
Kaikoura Flats 10/1985	24	15.2	5.2	10.2	..	20.6	23	1.2	12	61	..	..	19	7	..
Craigieburn Forest 10/1985	914	13.5	1.2	7.4	-0.5	22.4	30	-3.0	26	55	18	-116	13	12	..
Ashley Forest 09/1985	107	15.1	5.1	10.1	+0.8	22.0	26	0.5	12	28	..	-28	..	..	199
Ashley Forest 10/1985	107	15.1	5.6	10.4	-1.0	24.7	31	1.0	26	42	..	-21	11	13	194
Kurow 09/1985	207	16.0	4.8	10.4	..	20.8	26	0.0	12	11	4	..	5	4	..
Tara Hills Omarama 10/1985	488	16.5	1.8	9.2	-0.6	24.4	30	-3.2	11	20	7	-28	6	13	249
Wanaka 10/1985	296	18.0	4.2	11.1	+0.3	24.3	30	-1.6	11	18	5	-45	7	12	..
Te Anau 10/1985	215	16.4	3.6	10.0	+0.6	21.1	30	-2.2	17	58	7	-47	29	19	243
Deep Stream 10/1985	396	15.1	1.0	8.1	..	24.0	6	..	..	36	13	..	14	12	..
Mahinerangi Dam 10/1985	396	13.2	2.7	8.0	-0.5	21.0	6	-1.5	17	58	11	-15	12	25	..
Nadi Airport Fiji 10/1985	15	30.2	20.6	25.4	+0.0	34.1	30	17.1	11	140	11	+47	55	19	201
Totokoitu, Rarotonga 09/1985	9	23.9	18.2	21.1	-0.8	28.2	24	13.6	18	207	10	..	102	20	..

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 1985

General—November was a cloudy month with an absence of strong winds.

South-westerlies prevailed over the whole country this month, with a much greater frequency than usual over the South Island. North-easterlies were more frequent than usual over the North Island. North-westerlies had their lowest frequency over the North Island since 1976, and their least frequency over the southern part of the South Island for almost 30 years.

Mean sea level pressures were above average throughout New Zealand, especially south of Christchurch where they were over 4 hectopascals above average.

Two small tornadoes were sighted at Bowen Town (Bay of Plenty) on the 25th, and these caused some damage at a caravan park.

Most farmers reported good pasture growth, with silage being made and hay ready to harvest in the North Island. Apart from flystrike in some sheep on the east coast regions of the North Island stock condition was good.

Rainfall—Rainfall was above average in most coastal places, especially in Nelson, on the Canterbury Coast, and in South Westland where it was over 150 percent of normal. Rainfall was also up to 150 percent of normal in Central Otago. The greatest departures from normal this month were on the Kaikoura Coast and at Cape Campbell being 244 and 362 percent of normal respectively. Cape Campbell's rainfall (163 mm) was the highest

November rainfall since 1895, and the second highest for November since records began in 1873. Some heavy rainfalls occurred at both Franz Josef and Haast during the 72 hours from 9 a.m. on the 17th to 9 a.m. on the 19th. These were 474 and 370 mm respectively. Most inland areas of the South Island recorded between 75 to 85 percent of normal rainfall.

Temperatures—Mean daily temperatures were near average throughout New Zealand, apart from Westland and Fiordland where they were 1 to 2°C above normal. Many east coast places recorded maximum afternoon temperatures between 25 and 30°C from the 15th to the 17th.

Sunshine—The first 2 weeks of November were generally sunny, but for the remainder of the month it was rather cloudy over most of the country. Sunshine hours were near or slightly above average for November north of New Plymouth, and also in Fiordland and Southland. Elsewhere, it was below average. At Nelson Airport and Kaikoura November's sunshine was only 76 and 78 percent of normal respectively.

Some of the greatest departures this month were:

Station	Start of record	Departure from normal	Rank
Nelson Airport	1930	-54 hours	second lowest on record
Kaikoura	1960	-46 hours	

J. S. HICKMAN, Director.

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