CLIMATOLOGICAL TABLE—Summary of the Records of Temperature, Rainfall, and Sunshine for November 1971—continued

Station	Height of Station Above M.S.L.	Air Temperatures in Degrees (Celsius)								Rainfall in Millimetres					
		Means of		Mean of A	Differ-	Absolute Maximum and Minimum			Total	No.	Differ- ence	Maximum Fall		Bright Sun- shine	
		A Max.	B Min.	and B	From Normal	Maxi- mum	Date	Mini- mum	Date	Fall	Rain Days	From Normal	Amount	Date	Sime
	Metres	°C	°C	°C		°C		°C		mm			mm		Hrs.
Musselburgh, Dunedin Oamaru	30 180 991 329	16.8 16.9 15.3	8.9 8.1 6.7 7.3	12.9 12.5 11.0	$ \begin{array}{c c} +0.4 \\ -0.3 \\ +0.1 \\ \vdots \\ +0.6 \end{array} $	21.0 25.0 22.0 23.9	12 29 9	5.9 4.5 2.3 	16 4 25 	116 42 410 238 57	14 7 15 16 10	+45 +4 +87	59 25 81 63 25	15 15 12 1 29	154 163 211
Queenstown	352 387 213 427	17.8 17.3 19.7	6.2 5.9 6.9	12.0 11.6 13.3	-0.1 -0.6	23.0 22.6 26.3	10 10 6	1.9 0.9 3.3	19 21 25	45 67 34	11 12 11	-9 +4	18 16 13	29 17 15	::
Earnscleugh Alexandra Roxburgh (Power Station)	152 141 110 410	20.5 19.9 19.8 16.3	6.6 7.8 8.2 6.0	13.6 13.9 14.0 11.2	$ \begin{array}{c} +0.8 \\ +0.1 \\ +0.7 \\ +0.8 \end{array} $	26.0 25.6 24.5 22.3	10 12 7 7	-0.3 2.6 4.5 0.6	19 19 21 21	17 19 31 54	6 8 11 15	11 9 17 22	9 8 7 12	15 15 3,15 13	i91
Mahinerangi Dam Tapanui Rankleburn Forest	396 226 255 15	14.8 17.0 15.8 14.4	5.4 7.1 6.5 7.1	10.1 12.1 11.2 10.8	$0.0 \\ +0.2 \\ -0.2$	20.6 23.0 21.5 20.8	7 7 10 29	1.7 2.5 1.6 3.3	16 21 21 3	96 72 61 122	16 15 14 12	+15 -9 -5 +56	25 20 12 63	15 15 15 15	
Otautau Winton Gore, DSIR	55 44 124 46	16.4 16.5 16.4 17.1	5.5 6.8 	11.0 11.7 12.0	$ \begin{array}{c} -0.5 \\ -0.2 \\ -0.2 \end{array} $	21.0 21.6 21.8 22.3	7 6 5 7	$\begin{bmatrix} -0.9 \\ 2.4 \\ \vdots \\ 2.0 \end{bmatrix}$	21 21 ···	70 62 55 70	11 13 19 12	-19 	19 21 16 23	1 1 1 1	144 166 151
Woodlands Invercargill Aerodrome Tiwai Point, Bluff	47 0 5	16.4 15.8 15.8	6.1 6.3 8.4	11.3 11.1 12.1	-0.1 	21.4 20.6 24.0	7 7 6	2.2 0.5 5.2	25 26 22	90 71 78	20 18 17	- <u>20</u>	20 21 22	26 26 29	167
Milton Finegand, Balclutha	18 6 131 5	17.0 16.3 14.2 27.3	7.3 7.1 8.0 22.3	12.2 11.7 11.1 24.8	$^{+0.4}_{+0.2}$ $^{+0.9}$	23.0 21.8 18.6 29.2	10 7 29 11	2.0 2.0 4.9 17.3	3 25 16	129 71 89 38	14 15 21 10	+71 -122	60 26 24 12	15 15 15 10	172 224
Raoul Island, Kermadec Is. Waitangi, Chatham Islands Campbell Island Scott Base, Antarctica Lake Vanda, Antarctica	38 48 15 18 104	21.6 15.2 10.2 -6.8 -0.7	16.6 9.4 4.8 -16.2 -10.2		$^{+0.3}_{+0.8}$ $^{+0.4}_{+0.4}$	23.8 21.6 13.7 0.5 9.5	21 26 25 26 24	$ \begin{array}{r} 12.5 \\ 5.2 \\ -1.9 \\ -27.2 \\ -21.8 \end{array} $	12 21 21 2 1	309 63 99	14 15 21	+238 +7 	96 22 20	8 26 4	154 158 97
Luke vanda, Amaretica	104	0.7	, 10.2	, 5.5	LATE				•		,	••		••	
Te Paki Station Te Hapua October 1971 Te Aroha, October 1971	58 12	17.2 18.4	9.1 10.7	13.2 14.6	-0.9 ··	19.5 21.0	3 16	4.0 6.0	7 15	106 266	20	 	16 161	19 22	148
Pureora Forest September 1971	549 549	12.5 14.6 20.1 17.0	4.5 6.5 9.7 6.9	8.5 10.6 14.9 12.0	$^{+0.6}_{+0.8}_{+2.0}$	14.8 17.5 22.6 22.0	27 16 17 4	0.3 1.6 3.2 -60	15 1 1 1	295 240 140 178	22 22 18 24	+138 +60 +3	39 32 52 38	28 22 22 20	
Whitemans Valley October 1971		14.0	6.4	10.2	••	17.0	31	-1.0	13	214	17		54	4	

The "normal" refers to the present site of the instruments. The standard periods for normals are: for temperature 1931-60, for rainfall 1921-50, and for sunshine 1935-60. No normals are available for stations with only short records.

NOTES ON THE WEATHER FOR NOVEMBER 1971

General—November was a sunny month marked by an unusually high frequency of north-easterly winds. Farmers found it a good month except that in parts of the North Island, especially eastern districts, it was too wet for the lambs.

Strong gales from a westerly quarter buffeted most of the North Island on the 26th, causing some damage.

Rainfall—Rainfall was above normal over most of the North Island besides most of Otago, Stewart Island, and parts of Fiordland, Nelson, and Mariborough. It was more than double the normal value in eastern Bay of Plenty and around Dunedin.

normal value in eastern Bay of Plenty and around Dunedin.

It was 25 percent drier than normal in North and Central Canterbury and in parts of Buller; also in northern Southland.

Daily falls of up to 160 mm on the 15th caused flooding on the Taieri Plain.

Temperatures—Temperatures were above normal by up to 1°c over the North Island. In the South Island they were a little above normal on the coast and a little below normal inland.

An unusually late fall of snow was reported on the hills in parts of Central Otago and South Canterbury on the 15th, affecting transport over the "Pig Route".

In some areas this was the eighteenth successive month with temperatures warmer than normal; and 1971 is likely to be one of the warmest years on record for New Zealand.

Sunshine—Sunshine was close to or above normal. Departures of 40–80 hours were reported in Westland and also in Wellington and parts of Manawatu. Haast had its highest November sunshine since 1949.

The period from the 2nd to the 12th was particularly sunny and dry in the South Island besides southern and eastern districts of the North Island, under the influence of an anticyclone centred near the Chatham Islands.

Weather Sequence—At the beginning of November a weak cold front crossed the South Island while a shallow depression was off the South Westland coast. Rain was reported in Southland, Fiordland, South Westland, and part of Otago.

On the 2nd a belt of high pressure covered most of New Zealand and it soon moved away eastward, remaining almost stationary near the Chatham Islands up to the 12th. This 11-day period was generally warm; and it was dry over the South Island as well as southern and eastern districts of the North Island. Most of the rain which fell in other parts of the North Island was due to the north-easterlies freshening at times as depressions passed well to the north. The main periods of rain in these districts were from the 4th to the 8th and on the 11th and 12th.

north. The main periods of rain in these districts were from the 4th to the 8th and on the 11th and 12th.

From the 13th to the 15th a depression off the coast of New South Wales moved across the Tasman Sea and deepened, while a trough of low pressure moved north-eastward over the country. Rain started in the south and spread northward, with cooler

^{*}The sunshine recorder is not located at the station but is in the near vicinity.