CLIMATOLOGICAL TABLE—Summary of the Records of Temperature, Rainfall, and Sunshine for January 1978—continued	
LATE RETURNS AND CORRECTIONS—continued	

LATE RETURNS AND CORRECTIONS—continued															
		Air Temperatures in Degrees Celsius								Rainfall in Millimetres					
Station	Height of Station Above M.S.L.	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	Amount	Date	
Kaweka Forest,	Metres 414	°C 20.2	°C 10.5	°C 15.4	°C -0.1	°C 27.5	6	°C 6.5	11	mm 110	12	mm 	mm 42	14	Hrs
December 1977 Kairanga, D.S.I.R.,	15	19.3	9.3	14.3	-1.5	23.1	5	3.2	24	91	13		25	30	227
December 1977 Palmerston North D.S.I.R.,	34	19.5	10.9	15.2	-0.9	23.6	28	6.4	24	94	14	-10	19	9	197
December 1977 Foxton, December 1977 Pauatahanui, December 1977	3 30	17.8	11.3	 14.6	-0.8	21.2	 28	 6.5	ii	60 136	16 	-21 +66	15 29	31 11	223
Manaia Dem. Farm, December 1977	98	18.0	9.3	13.7	-1.2	23.4	19	4.4	27	67	14	-32	17	30	248
Normanby, December 1977 Kahui, Taihape, December 1977	122 518	18.4 18.3	9.1 7.9	$\begin{array}{c} 13.8\\ 13.1 \end{array}$	-i.2	22.3 25.2	5 5	4.5 4.6	26 25	46 104	14 	••	11 37	30 31	
Franz Josef, November 1977 Franz Josef, December 1977 Ski Basin, December 1977	122 122 1554	14.4 16.7	6.5 8.0 1.9	$10.5\\12.4$	$-1.2 \\ -1.3$	17.6 24.4	3 14	2.0 2.7 -3.1	2 13 25	314 320	20 26	-199 -135	54 44	23 8	
Craigieburn Forest, December 1977	914	17.1	5.0	11.1	-0.5	26.2	3	$\begin{bmatrix} -3.1 \\ -0.8 \end{bmatrix}$	11	iż1	18	$+2^{-1}$	28	ii	•••
Highbank Power Station, December 1977	336	18.9	8.4	13.7	-0.2	28.2	3	4.0	15	112	12	+18	23	12	208
Winchmore, December 1977 Ashley Forest, December 1977	160 107	20.5 20.2	8.6 9.2	14.6 14.7	$+0.4 \\ -0.1$	29.2 29.8	4 4	4.3 3.8	15 11	73 54	12 9	$\begin{vmatrix} -3 \\ -32 \end{vmatrix}$	12 18	30 21	
Darfield, December 1977 Christchurch, December 1977	195 7	22.0 20.8	8.3 9.8	15.2 15.3	$ +0.1 \\ -0.2$	30.7 30.6	4 4	3.0 5.4	11 24	127 68	10 8	+51 +12	58 30	12 30	
Taieri, Invermay, December 1977	30	18.2	7.8	13.0		26.8	28	4.0	1	120			22	19	
Moa Creek, December 1977 Moa Flat, December 1977 Winton, December 1977 Woodlands, December 1977 Tautuku, December 1977 Waitangi, Chatham Islands,	427 410 44 47 61 44	17.5 18.0 18.0 17.4 16.5	6.4 6.6 7.4 8.0 10.9	12.0 12.3 12.7 12.7 12.7 13.7	$\begin{vmatrix} \\ -0.1 \\ -1.1 \\ -0.4 \\ \\ +0.3 \end{vmatrix}$	 24.4 26.1 25.4 26.7 19.6	18 28 28 27 8	1.7 1.0 2.5 3.7 6.6	ii 1 11 11 11 11	37 106 94 77 99 91	16 14 24 12 15	$\begin{vmatrix} -4 \\ +32 \\ +28 \\ \cdots \\ +25 \end{vmatrix}$	8 21 22 17 31 22	19 19 30 19 30 31	··· 197 ··· 114
December 1977 Campbell Island,	15	8.0	3.1	5.6	+0.1	10.1	13	-2.5	5	76	26	-26	13	22	61
September 1977 Campbell Island, October	15	8.3	3.3	5.8	-0.4	11.4	21	-1.2	17	84	29	-33	11	3	67
Campbell Island,	15	10.3	4.9	7.6	+0.4	13.9	11	0.2	1	138	24	+31	23	23	101
November 1977 Nandi Airport, Fiji, December 1977	15	32.7	22.7	27.7	+1.1	35.4	25	20.4	11	46	13		14	8	275
Totokoitu, Rarotonga, December 1977	9	27.4	22.5	25.0		30.6	30	19.5	20	55	19		13	29	
Scott Base, Antarctica, November 1977	16	-10.2	-18.7	-14.5	-2.5	-5.3	30	-26.0	3						
Scott Base, Antarctica, December 1977	16	-4.0	-11.0	-7.5	-2.2	-0.2	15	-15.6	1						

The "normal" refers to the present site of the instruments. Standard period for normals is 1941-70. 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 rain day is a day with rainfall equal to or greater at the 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.

NOTES ON THE WEATHER FOR JANUARY 1978 General-Pressures were unusually high over the whole of New Zealand during January, with a predominance of westerly winds over most of the country. Rainfall was below normal over most of the country with the exception of Northland and the West Coast. In most areas this was a sunny, warm month. The only appreciably cold spell was the 1st/2nd of the month, when some areas had daily maximum temperatures well below normal. The longest fine dry spell was from the 21st to the 29th. Farmers throughout the country reported that pastures had become very dry with negligible grass growth. Stock in some areas had started to lose condition, and on some farms milk production was down by 20 percent. *Rainfall*—The only areas with rainfall above normal for the month were the extreme north of Northland and the West Coast.

Parts of Bay of Plenty, Hawke's Bay, Wairarapa, Manawatu, Taranaki, Nelson and Marlborough, had less than 10 percent of their normal months total. Blenheim Aerodrome recorded no rainfall at all during the month, and this has never happened before in any January since the station began in 1941. At Motueka only 0.1 mm was recorded during the month. Although 86 mm was "recorded at Kaitaia Aerodrome for the month, 84 mm of this was recorded at Kaitaia Aerodrome for the month, 84 mm of this was recorded in 36 hours on the 8th/10th during the passage of cyclone "Bob" across Northland. Many areas in the North and South Islands had less than 20 percent of their normal January totals. Parts of Westland were above normal by more than 50 percent.

Temperatures—Temperatures were above normal over the whole of New Zealand. In Auckland, Waikato, Bay of Plenty, Taranaki, Wairarapa and the majority of the South Island, apart from the West Coast, temperatures were at least 1.0°C above normal. Some areas in the central North Island and Otago were above normal by almost 2.0°C.

-The only area that had below or near normal sunshine Sunshine_ for the month was Westland, the rest of the country having at least 10 percent more than usual. Many places had at least 20 hours more sunshine, and in some areas of both islands more than 40 hours greater than normal. A total of 305 hours of sunshine was recorded at Manaia, Taranaki, during the month and this is the highest recorded in any month since the station began in 1968.