CLIMATOLOGICAL TABLE—Summary of the Records of Temperature, Rainfall, and Sunshine for March 1968—continued

	Height of Station Above M.S.L.	Air Temperatures in Degrees (Fahrenheit)								Rainfall in Inches					
Station		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	
Tara Hills, Omarama Lake Hawea Naseby Forest Herbert Forest Cherry Farm, Waikouaiti Taieri Berwick Forest Omarau Dunedin Airport Musselburgh, Dunedin West Arm, Lake Manapouri Queenstown Mid Dome Cromwell Ophir Moa Creek Earnscleugh Alexandra Roxburgh Hydro Moa Flat, West Otago Lake Mahinerangi Tapanui Rankleburn Forest Taieri Mouth Otautau Gore Winton Pebbly Hills Invercargill Airport Milton Balclutha Rarotonga Raoul Island Chatham Islands Campbell Island Scott Base, Antarctica	Ft. 1,600 1,147 2,000 21 80 60 99 4 5 5 590 1,080 1,252 698 1,000 461 350 1,345 1,300 461 151 150 1 60 20 15 126 157 49 45	°F. 70.3 70.4 67.9 67.3 66.3 68.0 67.9 66.6 5.0 63.4 69.0 72.1 70.5 72.7 71.4 65.4 65.1 67.8 64.8 63.7 64.8 63.7 64.8 67.3 65.5 66.6 64.3 51.6	°F. 49.4 52.3 46.1 49.6 51.3 50.4 53.6 49.0 54.0 51.8 49.2 51.7 48.9 49.2 52.2 48.9 48.4 51.2 50.8 49.2 50.8 49.9 50.8	°F. 59.8 61.4 57.0 58.4 59.6 59.6 59.6 60.1 58.8 59.5 57.6 60.3 58.0 61.9 61.4 57.2 56.8 57.2 56.8 57.2 57.1 59.8 58.0 58.2 57.2 58.6 673.2 58.9 47.7	+4.9 +3.4 +5.3 -5.0 +4.1 +3.6 -4.1 +3.1 +3.8 +3.5 +4.4 -4.6 +4.1 +3.7 +5.0 -4.6 +4.1 +3.3 +3.7 -5.0 -4.6 +4.1 -1.6 -4.1 -1.0 -1.0 -1.0 -1.0 -1.0 -1.0 -1.0 -1	°F. 83.7 77.3 83.0 84.7 89.5 89.6 88.7 85.2 75.0 783.4 86.0 83.4 83.4 82.1 81.0 83.4 82.1 81.0 83.4 83.9 83.0 83.4 82.1 81.0 80.0 779.6 72.2 63.2 23.0	2 1 2 19 19 2 19 2 19 2 2 2 2 2 2 2 2 2	°F. 37.9 46.2 36.0 42.0 44.0 39.5 42.1 48.3 35.4 45.2 43.6 36.0 41.0 39.9 39.5 41.0 41.5 39.0 41.5 39.0 42.7 41.0 64.0 43.3 35.2 42.7	1 18 25 28, 29 25 25 18, 19 25 25 25 25 25 25 25 25 25 25 25 25 30 25 24 15 30 18 18 13 27 6	In. 4.72 5.84 4.24 10.69 10.06 7.70 6.98 7.67 7.81 8.53 14.88 5.66 4.17 4.84 4.10 4.04 4.50 5.12 4.46 6.12 6.00 6.33 4.52 4.67 4.72 4.87 15.93 1.16 3.38	9 11 11 15 16 12 12 15 18 10 17 8 10 11 11 14 10 13 15 13 16 17 14 11 11 11 12 12 13 13 14 15 15 16 17 18 18 18 18 18 18 18 18 18 18 18 18 18	+3.0 +2.8 +2.1 +8.0 +5.2 +4.4 +5.6 +6.0 +1.6 +2.7 +3.7 +3.7 +2.8 +1.7 +1.2 +2.3 +1.8 +1.7 +1.2 +0.4 +2.2 +6.0 +1.6	In. 1.11 2.56 1.27 7.24 2.87 3.32 5.05 3.58 2.83 3.58 2.83 2.66 1.47 1.59 1.34 1.32 1.33 0.80 0.97 1.74 0.96 2.21 2.13 2.05 1.15 1.10 1.20 1.24 4.62 0.22 0.81	8 5 5 5 8 8 8 8 8 8 5 5 5 5 5 5 5 5 5 5	Hrs. 162
					LATE	RETII	RNS								
	Ft.	°F. 1	°F.	°F. I		°F.		°F.		In.	l i		In.		Hrs.
Whatawhata, Jan 1968 Whatawhata, Feb 1968 Havelock North, Feb 1968 Flockhouse, Bulls, Feb 1968	340 340 30 30	71.7 72.6 76.0 70.5	49.3 49.8 52.6	60.7 62.9 61.4	-3.3 -0.6 -1.1	81.1 81.3 89.4 77.6	11 22 2 28	36.4 38.4 42.7	20 5 15	3.02 2.92 0.36 1.56	12 10 4 4	$ \begin{array}{r} -1.4 \\ -1.4 \\ -2.1 \\ -1.2 \end{array} $	0.82 1.30 0.19 1.00	18 9 9 3	239 195
Palmerston North, D.S.I.R., Feb 1968	110	71.3	53.6	62.5	-0.9	81.9	21	42.9	5	2.02	6	-1.0	1.03	3	207
Errata Owairaka, Feb 1968	133	72.8								••	· ·				

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 March 1968

General—March was exceptionally warm and also very humid. For most of the North Island it was the third successive month with rainfall well below average, and conditions were much too dry, seriously affecting dairy production. In northern districts there was also an outbreak of facial eczema affecting especially cattle. In the South Island rainfall was mainly adequate and conditions were better.

cattle. In the South Island rainfall was mainly adequate and conditions were better.

Rainfall—Rainfall was above average over most of the South Island, in Northland and Coromandel, and around Rotorua. It was more than double the average value in Otago and in parts of South Canterbury, Nelson, and Northland. On the Otago coast some stations had nearly four times the average value.

By contrast, in eastern and southern districts of the North Island and in parts of Taihape, Taupo, and Waikato rainfall was less than half the average value. The greatest deficiency was recorded in northern and central Hawke's Bay, Wairarapa, and western Waikato. western Waikato.

Widespread and serious flooding was reported in Dunedin and coastal North Otago and South Canterbury following heavy rainfall on the night of 8-9 March associated with the passage across the South Island of a depression of tropical origin. Flooding was also reported on parts of the Southland plain and around

Queenstown. Temperatures—Temperatures were above average, mainly by about 5 degrees. Highest departures of 6–8 degrees were recorded from Waikato through central districts of the North Island to Southern Hawke's Bay and Northern Wairarapa; and also in inland Marlborough and North Canterbury. In these districts it was by far the warmest March for at least 60 years.

Sunshine—The greater part of the North Island was favoured with 20–50 hours more sunshine than usual, highest departures being recorded from Taumarunui to Manawatu. By contrast, parts of the South Island together with northern and eastern

Northland were unusually cloudy. Te Paki, Northland received 115 hours, and Invercargill only 92 hours; these were both the lowest in over 30 years of record. Another unusually low total was recorded at Timaru—only 100 hours.

Weather Sequence—On the 1st the weather was generally settled, under the influence of an anticyclone. During the next four days the anticyclone moved away to the east, but fair weather persisted over most of the North Island and in the northern half of the South Island. However, during this time a trough of low pressure moved on to Southland and Otago and became stationary

pressure moved on to Southland and Otago and became stationary there, with rain spreading progressively eastward over these areas and South Westland from the far south-west. There were some very heavy falls in Fiordland and the Lakes district.

A tropical storm which had originated east of New Caledonia moved southward and started to effect some northern districts on the 6th. The weather cleared temporarily in Southland and later in Otago and Fiordland but rain spread northward over remaining districts of the South Island. The tropical storm became less vigorous as it moved southward to the west of the North Island and crossed the South Island on the 8th, which was a day of fairly general rain. Some heavy rain occurred on this and the following day in coastal Otago, with flooding there and in parts of South Canterbury and Southland and around Queenstown. Meanwhile the weather had improved temporarily over most of the North Island.

A centre of low pressure still persisted off the Fiordland coast, A centre of low pressure still persisted off the Fiordland coast, and a trough associated with this centre crossed the country from west to east on the 10th and 11th, with further rain over the South Island and some also in many North Island districts, especially in the west. Low pressures continued to dominate the area for another three days, with the trough almost stationary at first east of Northland and Gisborne. The weather cleared over most of Otago and Southland, but rain was still reported in many other districts. in many other districts.

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