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

Station	Height of Station Above M.S.L.	Air Temperatures in Degrees (Fahrenheit)								Rainfall in Inches					
		Means of		Mean of A	Differ- ence	Absolute Maximum and Minimum			Total	No. of	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	
Adair Timaru Waimate Otematata Oamaru Aerodrome Tara Hills, Omarama Lake Hawea Naseby Forest Herbert Forest Berwick Forest Dunedin Airport Musselburgh, Dunedin Oamaru Dunedin Airport Musselburgh, Dunedin Oamaru West Arm, Lake Manapouri Queenstown Mid Dome Cromwell Ophir Moa Creek Alexandra Alexandra Alexandra Tapanui Rankleburn Forest Taieri Mouth Ofore Invercargill Airport Mitton <tr< td=""><td>$\begin{array}{c} 1,080\\ 1,252\\ 6998\\ 1,000\\ 1,400\\ 500\\ 461\\ 350\\ 1,345\\ 1,300\\ 740\\ 835\\ 50\\ 180\\ 740\\ 835\\ 150\\ 180\\ 145\\ 235\\ 150\\ 1\\ 60\\ 20\\ 15\\ 126\\ 61\\ 157\\ 49\end{array}$</td><td>$^{\circ}$F. 8 47.8 48.2 49.0 39.5 46.7 33.3 42.6 49.1 49.4 49.4 49.4 47.7 43.2 47.8 39.1 41.7 34.2 47.8 39.1 41.7 36.6 42.2 40.4 43.0 40.1 8 43.3 44.6 45.5 46.0 44.1 45.5 30.6 45.7 30.6 45.7 30.6 45.7 30.6 45.7 30.6 45.7 30.6 45.7 30.6 45.7 30.6 45.7 30.6 45.7 30.6 45.7 30.6 45.7 30.7 30.7 40.7 40.7 40.7 40.7 40.7 40.7 40.2 40.7 40.7 40.7 40.2 40.7 40.2 40.7 40.2 40.7 40.2 40.2 40.2 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+0.1 \\ -0.3 \\ +0.3 \\ \\ +2.3 \\ \\ +0.6 \\ +1.0 \\ -0.4 \\ \\ -2.4 \\ +3.7 \\ -0.7 \\ \\ \\ \end{array}$</td><td>In. 0.52 0.88 0.96 0.30 0.50 0.23 0.40 0.61 0.47 0.36 0.641 0.42 0.69 0.60 2.67 0.33 0.19 0.37 0.24 0.17 0.47 0.45 0.68 0.45 0.65 1.13 0.53 0.36 0.66 0.55 0.31 0.52 1.62 0.33 0.35 0.33 0.33 0.33 0.35 0.33 0.33 0.35 0.33 0.35 0.33 0.35 0.33 0.35 0.33 0.35 0.33 0.35 0.33 0.35 0.33 0.35 0.33 0.35 0.33 0.35 0.33 0.35 0.33 0.35 0.33 0.35 0.33 0.35 0.33 0.35 0.33 0.35 0.33 0.35 0.33 0.35 0.33 0.35 0.35 0.33 0.35 0.35 0.33 0.35 0.35 0.33 0.35 0.35 0.33 0.35</td><td>$\begin{array}{c} 23\\11\\11\\23\\12\\23\\23\\23\\23\\23\\23\\15\\15\\15\\22\\23\\3\\15\\3\\1\\1\\2\\3\\15\\3\\1\\1\\2\\3\\1\\3\\1\\2\\3\\1\\3\\1\\2\\2\\4\\.\\\end{array}$</td><td>Hr. i41 137 143 143 143 143 143 143 143 143 143 143 119 141 90 104 104 104 104 </td></tr<>	$\begin{array}{c} 1,080\\ 1,252\\ 6998\\ 1,000\\ 1,400\\ 500\\ 461\\ 350\\ 1,345\\ 1,300\\ 740\\ 835\\ 50\\ 180\\ 740\\ 835\\ 150\\ 180\\ 145\\ 235\\ 150\\ 1\\ 60\\ 20\\ 15\\ 126\\ 61\\ 157\\ 49\end{array}$	$^{\circ}$ F. 8 47.8 48.2 49.0 39.5 46.7 33.3 42.6 49.1 49.4 49.4 49.4 47.7 43.2 47.8 39.1 41.7 34.2 47.8 39.1 41.7 36.6 42.2 40.4 43.0 40.1 8 43.3 44.6 45.5 46.0 44.1 45.5 30.6 45.7 30.6 45.7 30.6 45.7 30.6 45.7 30.6 45.7 30.6 45.7 30.6 45.7 30.6 45.7 30.6 45.7 30.6 45.7 30.6 45.7 30.7 30.7 40.7 40.7 40.7 40.7 40.7 40.7 40.2 40.7 40.7 40.7 40.2 40.7 40.2 40.7 40.2 40.7 40.2 40.2 40.2 40.7 40.2 40.2 40.2 40.2 40.2 40.2 40.2 40.2	$^{\circ}$ F. 2 34.2 32.3 32.6 27.1 13.2 28.6 23.6 23.6 23.6 23.6 23.6 23.6 23.6 23	°F. 41.0 40.2 40.8 33.6 23.2 35.6 32.0 32.0 38.5 41.1 35.2 34.0 33.4 37.5 34.0 34.7 31.4 29.6 34.2 36.5 34.2 36.5 34.2 35.6 34.2 37.4 37.4 37.6 38.5 37.2 37.6 38.5 37.2 37.6 38.6 37.2 37.6 38.6 37.2 37.6 38.6 37.2 37.6 38.0 38.6 37.2 37.6 38.6 37.2 37.6 38.6 37.2 37.6 38.0 38.4 37.6 38.0 38.6 37.2 37.6 38.0 74.6 61.3 40.1 -21.6 -2	$\begin{array}{c} -1.2\\ -0.6\\ -1.4\\ -4.8\\ -2.3\\ -2.3\\ -2.3\\ -2.3\\ -2.3\\ -2.4\\ 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.\end{array}$	$\begin{array}{c}9\\10\\12\\9\\7\\5\\8\\9\\9\\9\\12\\1\\1\\1\\10\\14\\5\\8\\8\\11\\14\\12\\25\\16\\6\\16\\6\\16\\6\\9\\14\\12\\24\\1\\2\\2\\1\\2\\2\\1\\2\\2\\1\\2\\2\\1\\2\\2\\2\\2$	$\begin{array}{c} -0.3 \\ +0.3 \\ +0.2 \\ -0.1 \\ \\ -0.7 \\ -1.1 \\ +0.9 \\ \\ -0.6 \\ -0.6 \\ -0.6 \\ -0.6 \\ -0.7 \\ -1.3 \\ +0.2 \\ +0.2 \\ +0.2 \\ +0.1 \\ -0.3 \\ +0.3 \\ \\ +2.3 \\ \\ +0.6 \\ +1.0 \\ -0.4 \\ \\ -2.4 \\ +3.7 \\ -0.7 \\ \\ \\ \end{array}$	In. 0.52 0.88 0.96 0.30 0.50 0.23 0.40 0.61 0.47 0.36 0.641 0.42 0.69 0.60 2.67 0.33 0.19 0.37 0.24 0.17 0.47 0.45 0.68 0.45 0.65 1.13 0.53 0.36 0.66 0.55 0.31 0.52 1.62 0.33 0.35 0.33 0.33 0.33 0.35 0.33 0.33 0.35 0.33 0.35 0.33 0.35 0.33 0.35 0.33 0.35 0.33 0.35 0.33 0.35 0.33 0.35 0.33 0.35 0.33 0.35 0.33 0.35 0.33 0.35 0.33 0.35 0.33 0.35 0.33 0.35 0.33 0.35 0.33 0.35 0.33 0.35 0.33 0.35 0.35 0.33 0.35 0.35 0.33 0.35 0.35 0.33 0.35 0.35 0.33 0.35	$\begin{array}{c} 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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. *Sunshine recorder is not located at the station but is in the near vicinity.

NOTES ON THE WEATHER FOR JULY 1968

General-July was marked by an unusually high frequency of winds from an easterly quarter. Excessive rain in eastern districts was not welcome. In Gisborne and Hawke's Bay after two very wet months the ground was waterlogged in some areas, adversely affecting the health of stock. On the other hand, many western North Island districts found the comparatively low rainfall favourable for growth and for stock.

There was an excessive accumulation of snow in parts of Southland, Otago, and South Canterbury, especially the high country. This was followed by heavy frosts in the same areas, isolating stock and necessitating the use of helicopters to keep them fed.

Rainfall—East of the main ranges and in the Waimea Plains of Nelson, also in Coromandel and parts of Northland, rainfall was mainly 50 percent above average. The greatest excesses were recorded just inland from Gisborne and around Kaikoura, where totals were more than double the normal value. West of the main more than double the normal value. ranges, in the Southern Lakes district and in parts of Southland, Otago, and inland Canterbury, it was below average, mainly by about 30 percent. In North Taranaki, Waitomo, and parts of Waikato it was less than half the average and some stations in this area enjoyed their driest July for many years. In the Southern Lakes district rainfall was also less than half the average value.

Temperatures-In Southland, Otago, and inland South Canterbury temperatures were mainly 2-5 degrees below average, with greatest departures in the high country, where this was the coldest month since July 1938. Elsewhere temperatures were mainly close to average.

The snowfalls on the last four days of June on the high country The showfalls on the last four days of June on the high country of both islands and to low levels in the South Island persisted for the first four days of July, and there were further falls about 10–12 July and on the 25th. Frosty conditions, especially during the first half of the month, allowed little opportunity for the snow to melt over the greater part of the South Island. On the hills to the south-west of Mossburn at an altitude of about 2,000 ft the depth was reported as 2 ft, and 10 ft in the drifts, and it remained frozen there for 3 weeks for 3 weeks.

Very severe conditions were experienced, even at quite low Very severe conditions were experienced, even at quite low altitudes where a continuous snow cover persisted. For example, Tara Hills, Omarama (altitude 1,600 ft) had snow lying on the ground the whole month, never less than $5\frac{1}{2}$ in. in depth. The mean temperature was 23° F the lowest ever recorded in New Zealand for a month below an altitude of 3,000 ft. On 8 days the maximum temp-erature failed to reach 32° F, the lowest maximum being 20° F on the 14th. The air temperature fell just below 0° F on the 6th, 7th, and 14th.

Sunshine—The West Coast and inland Canterbury were especially favoured, with 30-80 hours more sunshine than usual. Haast received 182 hours, the highest for July in 26 years of observation. Other areas with sunshine somewhat above average were western North Island districts, most of Marlborough and Nelson, and parts of Otago and Southland.

The only areas which received appreciably less sun than usual were northern Northland and parts of northern Hawke's Bay.

Weather Sequence—The month began with 4 days of cold south-westerly weather, a continuation of that experienced on the last 4 days of June. Pressures remained very low to the south-east and a small depression crossed Northland, while an anticyclone moved eastward across the South Tasman Sea. There were further falls of snow on the high country of both islands and down to low levels in the south; and many other districts received some rain. By the 5th the anticyclone had moved on to the South Island and the weather was mainly fine, though still very cold.

The anticyclone soon moved to the east of the South Island, and a depression from the North Tasman Sea moved close to Northa depression from the North Tasman Sea moved close to North-land. In the moist north-easterlies rain was reported on the 6th and 7th in Northland, and in all eastern districts as far south as Christchurch, including Coromandel and Bay of Plenty. Condi-tions remained rather similar during the next 2 days as the depres-sion crossed the North Island, but there was scattered rain in some other districts. As the depression moved away, to the Chatham Islands on the 10th it was mainly western districts which were affected. However, a southerly change on the 11th and 12th brought further rain to districts east of the main ranges, with snow on the