CLIMATOLOGICAL TABLE—Summary of the Records of Temperature, Rainfall, and Sunshine for January 1961—continued

			Air Temperatures in Degrees (Fahrenheit)								Rainfall in Inches					
Station		Height of Station Above M.S.L.	Means of		Mean of A	Differ- ence	Absolute Maximum and Minimum				Total	No.	Differ- ence	Maximum Fall		Brigh Sun- shine
A STATE OF THE STA			A Max.	B Min.	and B	From Normal	Maxi- mum	Date	Mini- mum	Date	Fall	Rain Days	From Normal	Amount	Date	
		Ft.	°F.	°F.	°F.		°F.		°F.		In.		3	In.		Hr
Woodbourne		89	72.9	52.8	62.8	+0.5	91.6	11	42.6	22	5.05	6	+2.8*	2.28	16	::
Blenheim	• •	14	72.7	53.0	62.8	+0.2	90.4	11	43.3	13	5.00	5	+3.0*	2.35	16	22
Lake Grassmere		15	67.8	54.8	61.3	-0.5*	88.0	11	45.4	24	4.46	6	+2.8*	2.55	16	23
Golden Downs		900	$71 \cdot 7$ $73 \cdot 2$	52·0 50·4	61·8 61·8	$+2.8 \\ -0.4$	82·8 91·3	2 2	40·5 40·0	20	$4.42 \\ 7.52$	10 18	$^{+0.8}_{+4.9}$	1·81 2·65	20 17	
Waihopai Westport		7	71.2	54.5	62.8	+3.1	79.0	21	46.0	7	1.54	9	-5.8*	0.25	16, 20	22
Molesworth		2,930	70.0	44.0	57.0	+0.0	84.0	4	34.5	25	2.44	5	+0.5*	0.96	17, 20	
Reefton	• •	630	75.8	53.0	64.4		85.5	4	38.0	24	1.79	8		0.82	29	
Fotara Flat	• •	254	75.5	50.7	63 · 1	• • •	85.0	4	36.0	24	1.91	8		0.87	20	
Greymouth		13	69.1	56.2	62.6	+2.5	76.7	21	48.8	12	2.30	10	-6.2*	1.04	29	i
Hanmer Forest		1,270	70.4	46.9	58.6	-1.1	90.9	4	38.0	7	5.43	13	+1.9	1.57	20	17
Hokitika South		12	68.9	53.2	61.0	+2.9	76.5	21	40.3	24	3.23	14	-6.6*	0.70	29	20
Balmoral		650	71.5	49.3	60.4	$-1 \cdot 2*$	93.0	4	39.4	14	1.83	9	-0.3	0.95	20	
Lake Coleridge		1,195	69.9	48.8	59.4	+0.0	85.3	4	42.0	9	1.85	5	-0.8	1.09	26	
Eyrewell		520	69.7	49.0	59.4	-0.9*	85.0	5	40.1	9	3.56	13	+0.9*	1.41	20	
Franz Josef		392	70.7	52.1	61.4	+3.9*	81.8	17	45.2	24	5.30	12	$-12 \cdot 1*$	1.41	5	
Ashley Forest		350	67.2	50.9	59.0	-1.5	83.5	5, 11	43.0	9	3.84	11	+1.1*	1.29	20	
Darfield	• •	640	71.1	49.4	60.2	-0.6	86.0	5	41.7	14, 24	3.96	12	+1.2	1.48	20	:
Christchurch Airport		94	68 · 1	51.8	60.0	-0.8*	87.0	5	42.1	9	3.10	10	+1.0*	1.12	20	1
Christchurch		22	68 · 7	52.8	60.8	-0.6	87.7	5	42.7	9	3.52	11	+1.3	1.30	17	
Hororata	• •	631 150	70·3 68·9	53.3	59.6	-0.9	87·3 83·8	5	39·5 44·0	9	3·64 4·19	12	+1.6*	1.32	20 17	i
Onawe, Akaroa	• •	36	68.8	51.0	59.9	-0.5	86.9	5	37.6	9	4.19	11	+2.1	1.79	20	1
Tighhanle		1,102	68.7	49.3	59.0	-1.0*	85.0	4, 5	43.0	9, 24	4.20	14	+0.7*	1.22	20	1
The Hermitage		2,510	70.9	48.7	59.8	+4.0	84.0	26	39.0	21, 24	2.89	10	-12.4	0.90	20	19
Winchmore		526	69.2	49.9	59.6	+0.0	90.6	4	40.5	24	3.78	10	+1.2*	1.78	20	-
Haast		15	67.4	51.7	59.6	+1.5	83.7	17	42.8	6	4.79	11	-7.6*	2.37	2	22
Ashburton		323	72.9	50.9	61.9	+0.9	94.3	4	40.5	24	4.18	11	+1.9	2.20	19	15
Temuka		80	68.8	49.6	59.2		90.0	5	32.5	28	4.04	9		1.19	29	
Lake Tekapo		2,240	74.0	49.6	61.8	+3.6*	86.0	26	38.0	24	1.38	5	-0.7*	0.39	15	24
Fairlie		1,004	69.2	47.5	58.4	-0.8	87.0	4, 5	33.0	28	1.95	9	-1.0	0.52	20	
Timaru		56	70.2	51.9	61.0	+0.4	91.1	5	39.1	24	4.34	11	+1.8	1.02	19	14
Adair		200	66.7	50.3	58.5	-0.5*	87.2	5	40.3	24	3.75	9	+1.3*	0.90	29	::
Tara Hills, Omarama	• •	1,600	75.7	46.4	61.0	+1.0*	87.1	4	34.0	6	4.66	5	+2.4*	3.41	19	23
Benmore, Otematata	• •	920	74.0	50.6	62.3	••	88.8	4	38.8	24	1.90	5	2 (*	0.81	22	
Lake Hawea	• •	1,147	$75 \cdot 5$ $68 \cdot 6$	54.6	65.0	+3:7	85.9	14 17	43 · 4	24	0.57 9.94	4	$-2.6* \\ -15.6$	0·31 3·55	22	
Milford Sound		200	68.9	50.6	59.8	-0.4	89.0	5	40.0	25	3.09	11	+0.6	0.75	29	i
Jacobs Passat	• •	2,300	70.8	43.1	57.0	$-0.4 \\ +1.3$	85.0	4	29.0	24	2.49	7	-0.7*	0.78	22	1.
2	•••	1,100	72.9	51.2	62.0	+2.6	83.3	31	38.5	24	1.21	8	-2.0	0.31	15	26
Cromwell		720	78.0	52.6	65.3	+3.2	91.5	14	37.8	24	1.04	4	-0.9	0.45	2	20
Ophir		1,000	74.7	46.7	60.7	+0.5	89.7	14	33.0	24	3.31	5	+1.3	1.62	19	
Moa Creek		1,400	71.6	44.7	58.2		86.0	14	33.0	6	3.39	7		1.44	19	
Earnscleugh		500	74.6	47.2	60.9	-0.1	89.9	14	34.0	24	1.09	6	-0.6*	0.38	22	
Alexandra		520	74.2	51.2	62.7	+1.0	89.0	14	40.0	24	1.30	6	-0.3	0.47	19	2
Garston		1,009	72.8	45.8	59.3		85.0	18	33.6	24	1.74	8		0.41	15	
Roxburgh Hydro	*:	350	73.5	49.6	61.6	+0.2*		10	40.2	24	1.73	8	-0.5*	0.60	19	
1 C 1 D		593	67.1	51.0	59.0	11.04	79.7	18	41.0	23	5.78	13	1 04	1.46	10	
Mid Dome	oiti · ·	1,252	73.3	45.5	59.4	+1.8*	81.7	18	34.1	28	1.70	11	-1.9*	0.42	18	
Cherry Farm, Waikou		21	66.6	46.8	56.5	+0.7*	83·1 79·8	5 18	35·4 34·8	24 24	1·79 3·42	9	+0.4*	0.39	29 19	
Moa Flat, West Otago		1,345	66·6 67·8	48.3	55·8 58·0	$+0.74 \\ +0.2$	87.9	18	34.8	24	2.25	9	-0.6*	$1.10 \\ 0.92$	19	i
raieri Musselburgh, Dunedir		5	64.3	51.1	57.7	-0.5*	77.5	15	44.2	24	2.87	15	+0.1	0.92	29	1
2. 11		419	67.4	47.2	57.3	_0.5.			38.8	28	1.84	10		0.62	29	1.00
Fapanui		550	68.3	47.9	58 · 1	+0.3	83.0	18	34.4	23	3.15	11	− 0 ·2*	1.01	28	
East Gore		245	68.9	47.5	58.2	+0.2	81.0	15	38.0	24	2.39	10	-0.8	0.50	29	
Gore		240	69.7	47.7	58.7	+0.3	83.0	18	38.5	24	2.34	9	-0.9*	0.55	29	i
Otautau		180	66.6	49.3	58.0	+0.9*	79.0	18	38.8	13	2.27	11	-1.3*	0.77	10	1
Pebbly Hills		150	68.8	47.9	58.4	+1.2*	81.0	18	40.0	12, 24	2.35	11	-0.9*	0.63	29	
Invercargill Airfield		0	64.5	49.0	56.8	+0.6	79.2	18	33.3	24	2.39	12	-1.2*	0.95	10	1:

Note—At stations where departures from normal have an asterisk, the temperature record has been maintained for less than 10 years, the rainfall record for less than 20 years. Rainfall normals have been extensively revised and refer to the standard period 1921–50. Where observations are not available for the whole period, or where the site of the rain gauge has been changed, the normals are partly interpolated.

Notes on the Weather for January 1961

General: January was the third successive month of unusually cloudy, wet weather in Gisborne and Hawke's Bay, owing to the comparatively high frequency of winds from an easterly quarter. In these districts many crops were seriously affected by the wet weather, and in some areas sheep were lost in flooding on the 16th and 17th.

In many areas elsewhere there was very little rain from the middle of December to the middle of January, and in parts of the Taranaki and Nelson Provinces and on the West Coast conditions became unusually dry. However, heavy rain in the third week of January caused a marked recovery, with good pasture growth.

Rainfall: Rainfall was about double the average in Coromandel, Gisborne, and Hawke's Bay, around Taihape, and also in parts of Marlborough. Over the remainder of the North Island and in most eastern districts of the South Island it was mainly close to or somewhat above normal.

In and west of the Alps, and in western Southland, rainfall was only a third to a half of the average.

Many thunderstorms were reported in the North Island from the 18th to the 23rd, with some severe local flooding causing disruption of road and rail services at times. During a violent thunderstorm at Palmerston North on the 20th 2·09 in. of rain fell in half an hour. On the previous day during a thunderstorm Rainfall: Rainfall was about double the average in Coromandel,

at Tara Hills, Omarama (North Otago), 2.66 in. were recorded in

Temperatures: Temperatures were more than 2 degrees above average in Taranaki and Nelson and on the West Coast, but more than a degree below average in eastern districts from Gisborne to Canterbury. Intermediate areas between west and east were mainly somewhat above normal.

Sunshine: Except in and west of the Alps, in parts of Central Otago, and in Wellington, sunshine was below normal. In Gisborne and Hawke's Bay, with deficiencies of 70 to 100 hours, it was one of the cloudiest Januaries on record. Elsewhere the deficiency was mainly 40 to 60 hours.

In Gisborne and Hawke's Bay the last season with similar persistent cloud and rain during November, December, and January was 1952-53.

Weather Sequence: The first fortnight was a period of predominantly settled weather, with very little rain over the greater part of the country. From the 1st to the 5th an anticyclone, initially over the North Island and later centred to the east, caused mainly fair weather. However, depressions passing close to Southland brought wet weather at times to western and far southern districts of the South Island. During the next three days the presence of a depression near Raoul Island caused some rain in Bay of Plenty, Northland, and Gisborne; but the 9th was generally fine under the