Government Meteorological Observatory.

TETEOROLOGICAL Observations at Kelburn, Wellington, for the Month of December, 1938. Observations taken Altitude of Observatory, 415 ft.

,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,					Temperature (° F.) from Observations at 9 a.m.						Wind.			(100	Hours	at
	Date.			Pressure, in Tnches, at Sea-level and Standard Gravity.	In Screen.				Grass.	Beaufort Scale.		Anemo- meter.	Points Inch.)	1	(Symbols)	
					At 9 a.m.			Maxi- mum.	Mini- mum.	Minimum on Grass.	uc.	n 24		a"	Sunshine:	
		Pressu		Pressus Sea-J Grav	Dry.	Wet.	Humid- ity.	Dry.	Dry.	Minim	Direction.	Force.	Run in Hours,	Rainfall, Points	Bright and	Weather 9 a.m.
1 2 3 4 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28				30·077 29·909 29·554 29·486 29·486 29·371 29·371 29·516 29·723 29·516 29·724 29·516 29·724 29·663 29·669 29·265 29·265 29·565 29·565 29·577 29·579 30·569	60·7 69·5 59·0 53·8 50·8 55·4 61·4 57·6 53·3 61·3 61·3 59·3 55·8 57·0 56·9 60·4 51·1 56·5 54·2 53·8	57·3 64·2 58·6 51·2 47·6 56·8 50·4 61·1 55·0 58·0 58·0 55·0 59·1 55·4 55·9 49·6 52·4 50·7 51·8 48·6 51·8 48·6 51·3 55·8	80 73 98 83 78 82 68 98 84 67 87 64 71 77 67 80 81 74 71 99 80 51 83 71 87 87	69.5 70.8 64.7 56.3 59.8 67.0 61.4 65.0 62.5 67.2 65.7 64.2 62.9 56.4 66.0 59.4 65.0 65.0 65.0 65.0 65.0 65.0 65.0 65.0	55.9 57.8 48.3 48.1 45.8 49.7 49.1 54.5 53.7 52.9 53.5 44.2 46.2 46.1 50.9 46.9 44.1 50.7	55.0 57.0 58.4 46.9 46.7 39.6 47.8 48.9 52.8 47.0 49.1 48.1 48.7 47.4 44.7 40.6 36.4 47.6 47.7	NNW NNW N S NW SSE NNW NW	4452743866755556371333546533	137 202 275 319 365 233 211 204 512 414 428 437 310 213 453 394 251 193 159 101 275 150 172 378 310 283	2 61 4 182 15 Trace 115 Trace 122 39 44 Trace 41 46 5 5 Trace	2.0 2.6 7.7 0.0 7.4 7.8 6.4 9.2 4.5 0.7 12.0 8.3 9.7 13.8 6.1 7.4 0.3 10.1 6.9 1.5 8.6 1.5 0.3	o o or oir oq b o oir oc bc bc oip o oip c oip c o oir oip c o oir oip c o oir oip c o oir oir oir oir oir oir oir oir oir o
28 29 30 31	•••	•••		$30 \cdot 142$ $29 \cdot 805$ $29 \cdot 891$ $29 \cdot 900$	57·3 60·4 62·8 58·6	$53 \cdot 7$ $58 \cdot 2$ $52 \cdot 4$ $54 \cdot 0$	77 86 45 78	$62 \cdot 6 \\ 63 \cdot 9 \\ 67 \cdot 0 \\ 62 \cdot 7$	$44 \cdot 1 \\ 55 \cdot 2 \\ 53 \cdot 6 \\ 47 \cdot 3$	$35 \cdot 4$ $53 \cdot 5$ $48 \cdot 2$ $38 \cdot 8$	NNE NW WSW NNE	4 7 4 6	109 298 379 138	Trace 7	$\begin{array}{c} 6 \cdot 5 \\ 3 \cdot 2 \\ 14 \cdot 1 \\ 8 \cdot 8 \end{array}$	o o by be
	Means,	&c.		29.660	58.2	54.4	78	62.9	50.4	46.9		4.7	275	741	197 · 2	• •

Mean earth temperature at 1 ft., 61·7°; and at 3 ft., 62·0°. Number of rain days, 16. Total rainfall, 153 per cent. above normal, being the wettest December since 1928. Sunshine, 41 per cent. of the possible. Mean dew-point at 9 a.m., 42·7°; mean vapour pressure, 0.273 in.

DIRECTION OF WIND. S.W. W. N.W. N.E. S.E. Gale (force Forces N. E. Calm. 8 or more). 22 4 1 $1\frac{1}{2}$ - $\frac{1}{2}$ 1 $1\frac{1}{2}$ $5\frac{1}{2}$ 1 $\frac{1}{2}$ 11 $16\frac{1}{2}$

Note.—Gales occurred on four occasions, that of the 5th being particularly strong. Thunderstorms were frequent, one on the morning of the 8th continuing for nearly five hours. Hail was recorded on the 8th, also.

NOTES ON THE WEATHER FOR DECEMBER, 1938.

Notes on the Weather for December, 1938.

General.—In the final few days of the month settled conditions obtained in the northern half of the North Island, but otherwise December was a most unseasonable month with much cold, wet weather, and persistent strong winds in many places. The exceptionally frequent rains have seriously interfered with haymaking, while shearing, and cultivation operations, especially in the higher country, are well behind schedule. Although the strong winds have caused some drying up in the Hawke's Bay area, pasture growth has, on the whole, been well maintained, in some places almost to abundant, and stock are in good condition. Lambs, however, although growing are not fattening as well as usual. The continuation of cold, damp weather has retarded crops, gardens, and shrubs, and blights are making their appearance. Compared with recent years, however, the white butterfy and other insect pests are present in much reduced numbers.

Rainfall.—With the exception of small areas at the tip of the Anckland Peninsula and in the neighbourhood of Gisborne, rainfall everywhere was well above the normal, great numbers of places having had double or more than double the average fall, while in most of the southern half of the South Island and also in parts of the central portion of the North Island, it was the wettest December on record. Although the monthly aggregates were high, individual falls were not, on the whole, excessive, the chief characteristic of the month being the unusually great number of wet days. The only very heavy falls over extended areas, causing floods, were those which occurred in Otago and Canterbury on the 37d add than did not have the collection of the following week-end. Several cloudbursts in widely scattered places in the South Island also resulted in local flooding.

Temperatures.—In marked contrast with the previous December and also with November, 1938, temperatures were small but elsewhere they were mostly close to, or in excess of, 2 degrees. At Hanmer Springs it wa

in particular, strong winds were very persistent.

The first series of depressions passed between the 2nd and 5th giving general rain with many heavy falls, followed on the latter day by severe southerly gales.