Government Meteorological Observatory.

METEOROLOGICAL Observations at Kelburn, Wellington, for the Month of September, 1935. Observations taken at Altitude of Observatory, 415 ft.

	-			Pressure in Inches, at Sea-level and Standard Gravity.	Temperature (° F.) from Observations at 9 a.m.						Wind.			(100	Hours	at
					In Screen.					Frass.	Beaufort Scale.		Anemo- meter.	Points: Inch).	1	(Symbols)
	Date.		At 9 a.m.			Maxi- mum.	Mini- mum.	m on (ď		s. 24	4 I	Sunshine: Tenths.			
				Pressur Sea-le Grav	Dry.	Wet.	Humid- ity.	Dry.	Dry.	Minimum on Grass.	Direction.	Force.	Run in Hours.	Rainfall, Points	Bright and I	Weather 9 a.m.
1				30 · 134	$42 \cdot 3$	39.5	76	46.0	34.2	32.2	s	4	288	19	4.5	ophq
2				30 · 210	44.0	40.0	68	47.8	$37 \cdot 2$	$31 \cdot 2$	ESE	3	188	Trace	8.1	c
3				$30 \cdot 258$	$47 \cdot 7$	43.2	67	48.8	38.1	$32 \cdot 2$	SSE	4	122	5	7.6	be
Ŀ	• •			30.358	$46 \cdot 2$	43.8	81	48.1	$39 \cdot 5$	35.9	SE	5	190	6	$2 \cdot 9$	bep
5	••			30.344	$48 \cdot 1$	46.0	84	$54 \cdot 0$	43.0	38.0	SE	2	157	Trace	3.1	O
3				30 · 269	$49 \cdot 8$	46.0	73	$53 \cdot 8$	40.2	31.7	Calm		64		7.4	be
7				30 · 128	51.0	45.8	64	59.0	39.8	29.8	NE	1	17		$9.\overline{9}$	b
}		• •		29.876	53.5	47.2	58	60.1	41.5	31.5	Calm		$\overline{73}$	12	9.1	$\tilde{\mathbf{b}}$
)		• •		29.518	48.6	$\tilde{47} \cdot \tilde{3}$	91	49.6	46.1	38.3	S	3	51	67	0.5	o
)	• •	•		29.482	45.3	44.8	96	46.0	44.8	$44 \cdot 2$	$ \ddot{s} $	8	261	50	0.0	or
	• •	• •	• •	29.978	$42 \cdot 4$	39.2	72	47.8	39.4	39.2		6	563	32	0.4	
2	• •	• •	• •	30.195	47.8	42.7	62	48.2	40.0	$\frac{39.2}{37.8}$	SSE	-6	352	19	3.5	oq
3	• •	• •	• •	$30.135 \\ 30.249$	45.8	43.2	80	48.5	41.0	39.4	S	4	310	Trace	5.4	oqp
	• •	• •	• •	30.249		42.8	79	56.2						Trace		0
Ĺ	• •	.* *	• •		45.4				36.0	27.8	NE	1	92	• • • -	8.2	. 0
í	• •	• •	• •	30.136	49.5	44.5	65	$53 \cdot 1$	39.4	$29 \cdot 3$	Calm	• :	60	5	$9 \cdot 7$	$\mathbf{b}\mathbf{w}$
3	• •	• •	• •	$29 \cdot 965$	44.0	43.0	92	$46 \cdot 1$	41.3	38 2	SSE	2	124	202	0.0	or
1.		• • •	• •	$29 \cdot 573$	$44 \cdot 7$	44.0	95	$53 \cdot 7$	41.8	41.0	SSW	4	287	43	$5 \cdot 2$	od
3		• •		$29 \cdot 169$	$52 \cdot 2$	50.6	89	$55 \cdot 5$	43.7	43.0	NW	6	245	Trace	$5 \cdot 2$	oq
)		• •		$29 \cdot 501$	$53 \cdot 3$	48.7	70	$56 \cdot 0$	49.1	46.7	NW [6	508		10.4	bq
)				$29 \cdot 762$	$51 \cdot 7$	46.9	68	$57 \cdot 9$	45.5	41.5	NW	6	375	Trace	11.0	bq
l	••			$29 \cdot 962$	$51 \cdot 7$	48.0	75	$53 \cdot 0$	41.7	$32 \cdot 2$	SSE	4	167		10.9	cjp
:				$30 \cdot 213$	$50 \cdot 4$	44.2	57	$52 \cdot 5$	39.4	28.6	E	2	93		11.2	b
}			•	30.399	$49 \cdot 2$	44.9	69	$57 \cdot 3$	$37 \cdot 1$	27.8	NE	1	74		9.8	\mathbf{bz}
Ł				$30 \cdot 431$	51.0	46.5	69	$55 \cdot 9$	$42 \cdot 6$	31.0	E	2	105		7.0	0
5	•	• •		$30 \cdot 353$	53.8	48.0	62	$59 \cdot 9$	$44 \cdot 2$	33.9	E	1	120		6.5	ō
,	• • •	• • •		30.381	56.3	50.0	61	$63 \cdot 1$	41.1	31.7	N	î	33	Trace	10.7	b
	• • •		• • •	30.538	49.9	48.0	87	$53 \cdot 6$	44.0	35.9	$ \hat{s} $	3	109		3.0	o
3	• •			30.535	53.2	49.5	75	59.7	44.3	38:0	Ë	i	105		8.7	be
)	• •	••		30.495	49.2	47.4	87	$62 \cdot 6$	42.0	$34 \cdot 2$	Calm		34	1	8.1	ow
)	• •	• • •	••	30.267	55.0	50.9	73	58.2	47.1	40.1	NNW	5	180	19	6.5	O
	Means	. &c.		30.096	49.1	45.6	75	53 · 7	41.5	35.4		3.0	178	480	194.5	

Mean earth temperature at 1 ft., 48.7°; and at 3 ft., 49.1°. Number of rain days, 13.

DIRECTION OF WIND.

Gale (force	Forces									
8 or more).	4 to 7.	ж.	N.E.	$\mathbf{E}.$	S.E.	S.	S.W.	w.	N.W.	Calm .
1	12	14	3	41/2	4 4 4	81	1	1	31/2	4

Note.—A cold and wet month, with mean temperature 3·1° below normal. Sunshine, however, was abundant, averaging 6·5 hours per day, being 55 per cent. of the possible for September. Precipitation was 50 per cent. above the average. This is the first time since March that the rainfall has been above average. Frequent hail squalls were experienced on the 1st, and on that day there was also a heavy fall of snow on the Tararuas, and they remained snowcapped throughout the month.

Notes on the Weather for September, 1935.

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General.—After a comparatively mild winter and indications of an early spring in the preceding month the weather in September, at least during the first half, reverted to a cold and rather stormy type in most districts. Low temperatures, on account of cold southerly or easterly winds prevailing as well as extreme dryness in many parts, had the effect of retarding growth of vegetation. In the western and southern areas of the South Island conditions were particularly dry, and farmers have had to face a serious shortage of feed, with the result that there has been some loss of stock. There was also considerable mortality amongst lambs in the Gisborne, Hawke's Bay, and Marlborough provinces owing to the cold wet spells experienced. In most parts of the country, however, owing to a favourable winter, stock kept in good condition. In North Canterbury and Marlborough some heavy rains on the 9th relieved the situation, which had become serious owing to a prolonged period of dryness. South Canterbury did not benefit to the same extent, and good rains are badly needed in that district.

Rainfall.—Rainfall was very much above the average in the result in the same of the country much above the average in the result.

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Rainfall.—Rainfall was very much above the average in the northern portion of the Auckland Peninsula, some places having more than double. At Russell a total of 12-42 in. was recorded against the average for September of 3-89 in. The eastern districts of the North Island south of East Cape also had a considerable excess, but the remainder of the North Island amount fell. In North Canterbury the totals closely approached the average, but all other districts experienced a very dry month, the deficiencies being greatest on the West Coast.

Temperatures.—Temperatures were everywhere below the average. In the North Island the mean difference was 19^o below, the climatological station showing the greatest difference being Wellington, where it was lower by 3-1°. The South Island mean was 3-3° below, Hanner Springs and Timaru having the greatest departures with 5-2° and 4° respectively. These low mean temperatures, as before mentioned, are accounted for by the prevalence of southerly and easterly winds. Frosts, also, were frequent in the South Island and at inland places in the North.

Sunskine.—There was less sunshine than the normal in the far northern and east coast districts of the North Island, but in most parts of the country the average amount was exceeded. The greatest difference above was on the west coast of the South Island, where it was the sunniest September ever experienced. From the reports so far received, Hokitika had the highest total—viz., 254-9 hours, while Nelson had 239-9 and Lake Tekapo 233 hours.

Pressure Systems.—In the beginning of the month an anticyclone covered New Zealand but the centre was situated in the south while a cyclone was passing in the north. Consequently, a cold south-easterly wind bew up the east coast accompanied by rain a