Government Meteorological Observatory,

M ETEOROLOGICAL Observations, Wellington, for the month of July, 1927. Observations taken 9 a.m.

Altitude of Observatory, 10 ft.

	From Self-registering Instruments for Twenty-four Hours previously								nd.	n te
	Barometer reduced and corrected in Inches to Lat. 45°	Temp. hade.	Temp.	Temp.	Radia-	Terrestrial Radiation.	Wind, iles.	unt of Cloud,	Direction of Wind.	Rainfall, in Points (100 to 1 Inch).
Date.	Barc an Inc	Max. in S	Min.	Mean in S	Solar tion	Terr	Veloc. in M	Amount 0 to 10.	Direc	Rain (100
		Fah.			- L					
1	29.874	52.8	Fah 46.0	Fah. 49·4	Fah. 73.8	Fah. 42.2	128	10	E.	1
2	29.738	54.8		51.7	60.3		199	9	S.E.	
3	29.842	49.3		42.0	79.0	$25 \cdot 2$	284	4	Calm	
4	29.974	53.8		41.6	98 0	26.5	102	5	N.	10
5 6	29.807	57·1	49.8	53.4	103.2	48.0	393	9	N.W.	4
7	30·009 30·075	55·6 59·0	39·8 48·0	47·7 53·5	79·0 103·0	30.1	203	0	N.	Trace
8	30.075	59.9	41.8	50.8	101.1	$40.3 \\ 33.7$	$155 \\ 142$	3	N.N.W. N.W.	i
9	29.972	57.0		54.4	102.2	49.0	216	10	N.W.	27
10	29.501	56.1		52.0	86.0	42.6	120	9	N.N.W.	38
11	29.238	57.0	46.8	51.9	104.0	40.0	131	10	S.	37
12	29.251	52.9	42.2	47.5	70.4	32.1	163	9	Ň.	
13	29.169	57.1	38.2	47.6	102.0	28.9	159	10	Š.	12
14	29.578	50.2	40.2	45.2	81.0	38.2	336	4	s.w.	Trace
15	29.960	48.0	39.9	43.9	96.3	30.0	297	2	S.W.	
16	29.995	56.5	32.1	44.3	99.1	24.0	91	4	N.	21
17	29.439	54.3	46.9	50.6	99.0	44.7	334	10	N.	6
18	29.697	56.8	47.8	52.3	102.0	43.2	296	0	N.W.	Trace
19	29.643	55.3	50.2	52.7	100.0	48.9	305	10	N.W.	36
20	30.033		35.6		68.0	27.6	112	0	Calm	• • •
$\frac{21}{22}$	30.166	55.0	32.1	43.5	100.0	24.0	29	9	N.W.	• •
23	30.038	53.4	40.2	46.8	101.7	31.0	93	6	S.W.	4
24	30·109 30·327	$54.0 \\ 51.1$	43·1 43·1	48.5	105.9	38.0	164	6	S.E.	9
25	30 239	51.0	36.2	43.6	101·0 100·0	$\frac{39.4}{28.5}$	$\frac{240}{79}$	$\frac{4}{9}$	S.	::
26	29.813	52.2	42.1	47·1	67.9	43.0	95	10	Calm Calm	50 8
27	29.720	53.8	43.9	48.8	67.0	34.8	22	10	N.	19
28	29.856	51.6	47.5	49.5	67.0	47.5	180	10	S.	1
29	29.865	51.8	48.9	50.3	61.0	44.8	179	10	S.E.	40
30	29.787	52.6	44.2	48.4	71.0	44.0	498	10	S.E.	14
31	29.817	4 8·1	44.7		62.0	43.6	426	10	s.	8
*	29.824	53.9	42.9	48.4	87.5	37.5	199-1	6 ·9	••	346
†	29-918	53.1	42.3	47.7	87.5	35.7	203	5.6	••	555

DIRECTION OF WIND.

N. N.E. E. S.E. S. S.W. W. N.W. Calm. 9 | .. | 1 | 3 | 6 | 3 | .. | 5 | 4

Note.—A cloudy and unsettled month, with moderate northerly winds prevailing. Total bright sunshine 102 hours 52 minutes, 35 per cent. of the possible, and eight sunless days. Hail fell on the 13th; fog occurred on the 25th, and frost was recorded on the grass on ten mornings. Mean earth temperature at 1 ft. was 46.2°, and 49.2° at 3 ft. Mean dew-point, 41.7°; mean elastic force of vapour, 0.264 in.; and mean relative humidity, 78 per cent. of

CLIMATOLOGICAL TABLE. MEANS AND TOTALS FROM CHIEF STATIONS. July, 1927.

	July, 1327.											
	. ove		Mean Air in	·	emes.	Total Rainfall 100 Points to the Inch).	ain ore).					
	Altitude above Sea-level.	Name of Station and Observer.	Absolute M Temp. An Shade.	Mean Max. Temp.	Mean Min. Temp.		Days with Bain					
1	Ft.	North Island.	Deg	Deg.	Deg.	Points.						
l	152	AUCKLAND	52.3	57.0	47.6	847	29					
	131	RUAKURA FARM, HAMILTON EAST	49.1	57.7	40.6	660	23					
	211	A. Y. Montgomery MATAMATA	48.3	56.2	40-4	710	21					
-	4 6	W. Halligan Tr Arona	50.3	59.1	41.6	1044	21					
	340	C. E. Christensen	49.4	56.5	42.3	1822	22					
-	100	Wm. C. Morris TAURANGA	50.2	57.4	43.0	1110	23					
-	925	C. J. Butcher	46.7	53.5	39.9	1028	21					
-	60	W. E. Penno New Plymouth	49.9	55.1	44.6	748	25					
	2080	G. H. Dolby	42.6	47.6	37.5	319	18					
-	100	A. R. Fannin Palmerston North .		54.4	+	224	18					
	8	J. A. Colquhoun TANGIMOANA	48.5	56.2	40.7	219	14					
	119	T. E. Stringer CENTRAL DEVELOPMENT	47.9	55.1	40.7	412	19					
	اير	FARM, WERAROA J. E. Sharp	40.0	50 0								
-	5	Napier	48.6	56.2	41.0	514	15					
-	377	MASTERTON R. Brown	45.3	53.4	37.3	467	21					
-	186	GREYTOWN	45.8	53.8	37.8	5 7 5	22					
	10	WELLINGTON SOUTH ISLAND.	48.4	53.9	42.9	346	20					
-	11	TAKAKA, NELSON	47.3	56.0	38.6	1167	10					
	34	J. H. Scott NELSON H. D. McKellar	46.6	54.6	38.6	539	12					
-	1220	HANMER SPRINGS	39.5	47.0	32.0	420	14					
	25	W. Montgomery Christchurch	41.9	49.4	34.5	246	15					
-	42	H. F. Skey Lincoln	41.6	50.2	33.0	222	13					
-	1220	D. J. Sidey KISSELTON				342	10					
1	349	RAKAIA Miss A. Hardy	42.1	51.3	33.0	241	10					
	323	ASHBURTON H P. Clayton	41.0	49.9	32.1	236	16					
-	1000	FAIRLIE R. J. Rainey	38.1	48.5	27.8	199	10					
i	2350	LAKE TEKAPO R. R. Beauchamp	33.7	41.6	25.9	190	6					
	130	TIMARU	41.3	48.8	33.8	272	11					
	200	Caretaker of Domain WAIMATE F. Akhurst	41.4	50.0	32.7	486	8					
	1550	SANATORIUM, WAIPIATA Dr. A. Kidd	36.8	45.0	28.7	69	12					
1	1000	OPHIR Rev. A. Don	34.3	43.5	25.1	20	7					
	30 0	DUNEDIN D. Tannock	43.5	49.8	37.3	751	15					
	245	Gore A. T. Newman		••								
	12	HORITIKA J. A. Chesney	45.6	54.8	36.5	· 854	17					
-	12	INVERCARGILL	41.9	48.9	35· 0	286	20					
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SUMMARY FOR THE MONTH OF JULY, 1927.

The total precipitation of the month was above normal over the North Island, with the exception of small areas about

The total precipitation of the month was above normal over the North Island, with the exception of small areas about Cook Strait and at Kawhia and Gisborne. In the South Island there were considerable local variations in the amounts measured, but Nelson and Marlborough had an excess, and also isolated places on the east coast and in western Otago. Westland, North Canterbury, and most parts of Otago recorded less than the mean. In some districts, notably in the Bay of Plenty and Hawke's Bay, the excess was considerable.

There were three outstanding storms during the month, which may be briefly described as follows: A cyclone from the north-westward was centred over the Auckland Peninsula on the 1st, and passed off East Cape on the night of the 2nd. On these two days some phenomenal rainfalls occurred in the Gisborne and Hawke's Bay Districts, resulting in serious floods in the low-lying country. Between the 9th and 14th an intense and extensive westerly low-pressure area dominated, with strong northerly winds, changing to southerlies, about the 13th. Much rain fell during this period and, on the 13th, there were heavy snowfalls in the high country in the South Island and also in the central portion of the North Island. Waiouru recorded a fall of 17 in., and at Taumarunui it was regarded as the heaviest fall since 1918. From the 25th to the close of the month wide and extensive cyclonic disturbances operated between New Zealand and Australia, and conditions were again extremely unsettled, with strong north-east to south-east winds. Although precipitation came mostly in the form of drizzle, some heavy rains were occasionally experienced, particularly in the northern and east coast districts on the 25th and 26th.

In many parts of the North Island the continuous rain accounted for serious floods and landslips which interfered with railway and other traffic.

railway and other traffic.

Fair weather ruled between the 3rd and 8th, and other shorter fair periods were experienced, but usually the duration of sunshine was below the average. Temperatures, however, were about normal and above the mean of the previous month, and generally there was a good growth in vegetation for the time of year.