

Government Meteorological Observatory.

METEOROLOGICAL Observations, Wellington, for the month of July, 1924. Observations taken 9 a.m.

Altitude of Observatory, 10 ft.

Date.	From Self-registering Instruments, for Twenty-four Hours previously.										Direction of Wind.	Rainfall in Points (100 to 1 Inch).	Altitude above Sea-level.
	Barometer reduced and corrected in Inches to Lat. 46°.	Max. Temp. in Shade.	Min. Temp. in Shade.	Mean Temp. in Shade.	Solar Radiation.	Terrrestrial Radiation.	Veloc. Wind, in Miles.	Amount of Cloud, 0 to 10.	Points.				
1	30·074	Fah. 56·1	Fah. 47·0	Fah. 51·5	Fah. 105·0	Fah. 41·1	185	2	Calm	..	..	..	..
2	29·871	54·9	39·0	46·9	97·0	29·1	85	7	N.N.W.	..	..	..	..
3	29·917	55·4	35·2	45·3	100·0	26·7	46	0	Calm	..	..	..	..
4	29·877	60·3	44·1	52·2	102·0	34·1	217	9	N.W.	51	..	..	..
5	30·265	57·9	41·1	49·5	97·0	39·0	373	4	S.E.	..	..	..	..
6	30·110	50·1	33·7	41·9	95·0	23·0	169	8	N.	1	..	..	..
7	30·408	54·8	44·7	49·7	96·0	38·8	200	2	S.E.	..	..	..	..
8	30·603	51·8	33·9	42·8	96·0	25·0	156	6	Calm	..	..	..	..
9	30·651	52·1	34·2	43·1	96·0	24·9	44	0	Calm	..	..	..	..
10	30·656	53·7	33·0	43·3	96·0	23·1	24	3	N.N.W.	..	..	..	..
11	30·421	53·1	43·2	48·1	101·0	40·2	333	6	N.W.	..	..	..	..
12	30·153	55·4	51·9	53·6	101·0	50·3	579	10	N.N.W.	15	..	..	..
13	30·185	57·0	52·4	54·7	64·0	49·0	15	10	N.N.W.	..	..	..	..
14	30·460	56·9	38·0	47·4	96·0	28·6	80	8	Calm	..	..	..	..
15	30·450	55·0	31·8	43·4	96·0	21·1	48	0	N.E.	Trace	..	..	..
16	30·206	55·7	40·9	48·3	99·0	31·2	217	9	N.W.	29	..	..	..
17	29·815	56·4	48·4	52·4	101·0	47·1	373	10	N.W.	30	..	..	..
18	29·731	55·1	48·7	51·9	98·0	47·0	428	8	N.N.W.	38	..	..	..
19	29·624	53·0	45·4	49·2	78·0	38·0	141	7	S.W.	12	..	..	..
20	29·655	55·1	35·0	45·0	103·0	24·0	179	0	N.E.	..	..	..	..
21	29·684	55·2	39·5	47·3	98·0	29·2	152	6	S.E.	4	..	..	..
22	29·967	48·8	35·4	42·1	93·0	23·9	239	10	S.E.	1	..	..	..
23	30·146	47·9	43·1	45·5	84·0	36·0	276	1	S.E.	3	..	..	..
24	30·287	52·0	42·9	47·4	98·0	40·2	296	7	S.E.	14	..	..	..
25	30·434	46·1	36·3	41·2	90·0	28·0	248	2	N.E.	..	..	..	..
26	30·308	52·2	33·3	42·7	96·0	23·2	81	7	N.N.E.	..	..	..	..
27	30·108	53·0	44·9	48·9	101·0	44·0	326	3	N.	..	..	..	..
28	30·154	55·3	50·1	52·7	103·0	47·4	377	7	N.W.	34	..	..	..
29	29·885	57·2	49·6	53·4	103·0	48·0	148	10	N.W.	13	..	..	..
30	29·786	54·4	50·0	52·2	93·0	46·0	266	6	N.W.	..	..	..	..
31	29·942	61·3	51·0	56·1	105·0	43·1	216	5	N.W.	52	..	..	..
*	30·124	54·3	41·9	48·1	96·2	35·2	210·2	5·6	..	297	..	..	..
†	29·918	53·1	42·3	47·7	87·5	35·7	203·0	5·6	..	573	..	..	..

* Means, &c. † Means previous years.

DIRECTION OF WIND.

N.	N.E.	E.	S.E.	S.	S.W.	W.	W.N.W.	Calm.
8	|	3	|	..	|	6	|	..

NOTE.—A mild winter month with precipitation 48 per cent. below the mean of previous years. Total bright sunshine 144 hours 34 minutes, 49 per cent. of the possible, and two sunless days. Hail fell on the 19th, and frost was recorded on the grass on fourteen mornings. Mean earth temperature at 1 ft. was 46·1°, and 50·4° at 3 ft. Mean dew-point, 40·3°; mean elastic force of vapour, 0·250 in.; and mean relative humidity, 75 per cent. of saturation.

CLIMATOLOGICAL TABLE.

MEANS AND TOTALS FROM THE CHIEF STATIONS.

July, 1924.

Name of Station and Observer.	Ft.	Altitude above Sea-level.	Absolute Mean Temp. Air in Shade.			Extremes.	Total Rainfall (100 Points to the Inch).	Days with rain (Point or more).
			Deg.	Deg.	Deg.			
NORTH ISLAND.	152	AUCKLAND	51·2	56·6	45·7	296	17	..
RUAKURA FARM, HAMILTON EAST	131	W. B. Monroe	..	..	..	..	..	..
TE AROHA	46	C. E. Christensen	48·9	58·6	39·3	258	10	..
WAIIHI	340	C. F. Sims.	47·1	57·6	36·7	397	11	..
TAURANGA	100	C. J. Butcher	48·8	57·4	40·2	291	11	..
ROTORUA	925	W. E. Penno	45·5	54·7	36·3	338	12	..
NEW PLYMOUTH	60	G. H. Dolby	48·3	54·8	41·9	698	18	..
MOUMAHAKI	250	J. G. McFarlane	45·6	54·9	36·3	351	10	..
TAIHAE	2080	A. R. Fannin	41·2	47·4	35·1	208	16	..
PALMERSTON NORTH	100	J. A. Colquhoun	45·1	53·6	36·6	242	10	..
OROUA DOWNS	5	R. A. Reid	43·1	54·6	31·6	302	9	..
CENTRAL DEVELOPMENT FARM, WERAROA	119	J. E. Sharp	45·2	53·3	37·1	337	13	..
NAPIER	5	Chas. L. Thomas	47·9	56·0	39·9	127	6	..
MASTERTON	377	R. Brown	44·8	54·8	34·8	170	16	..
GREYTOWN	186	W. Allan	45·1	54·3	36·0	220	12	..
WELLINGTON	10	L. Freeman	48·1	54·3	41·9	297	14	..
SOUTH ISLAND.	87	Ven. Archdeacon Kempthorne	44·2	54·7	33·7	248	9	..
NELSON	34	H. Harrison	44·7	55·2	34·2	349	10	..
HAMMER SPRINGS	1220	W. G. Morrison	41·2	51·5	31·0	147	8	..
CHRISTCHURCH	25	H. F. Skey	41·8	51·6	32·0	149	10	..
LINCOLN	42	M. J. Scott	43·3	53·3	33·2	136	4	..
KISSELTON	1220	F. Freeman	48·8	60·5	37·1	324	9	..
TRIMARU	130	Caretaker of Domain	42·0	51·9	32·1	29	6	..
WAIMATE	200	F. Akhurst	42·8	52·3	33·3	31	7	..
DUNEDIN	300	D. Tannock	44·9	51·4	38·5	213	11	..
GORE	245	A. T. Newman	..	..	..	..	..	..
HOKITIKA	12	J. A. Chesney	43·6	52·2	35·1	1046	19	..
INVERCARGILL	12	L. Lennie	43·4	50·9	35·9	295	22	..
RUAKURA FARM, HAMILTON EAST	131	June, 1924	48·9	58·0	39·9	617	13	LATE RETURN.

SUMMARY FOR THE MONTH OF JULY, 1924.

With the exception of three anticyclones which ruled from the 5th to the 10th, 14th to the 15th, and 24th to the 27th, the month was dominated by atmospheric systems of the westerly type, with lowest pressure passing southward of New Zealand. As a consequence, winds from a westerly quarter generally prevailed and rainfall was chiefly confined to districts with a westerly aspect. The western half of the South Island recorded a total rainfall above the average, while the eastern half experienced dry conditions. The whole of the North Island, except a small portion in the neighbourhood of Cape Egmont, also had a deficient rainfall.

Generally, July was characterized by mild weather, though the nights were cold and frosty, especially while high atmospheric pressure was in evidence. There were, however, two very cold spells, one from the 3rd to 6th and the other between the 20th and 25th, the latter period being marked by heavy southerly winds, which were accounted for by the development of a storm eastward of New Zealand. Snow fell during these two periods on the high country of both islands.

D. C. BATES, Director.