

Government Meteorological Observatory.

METEOROLOGICAL Observations, Wellington, for the month of September, 1922. Observations taken 9 a.m.

Altitude of Observatory, 10 ft.

| Date. | Barometer reduced and corrected in Inches to Lat. 46°. | From Self-registering Instruments, for Twenty-four Hours previously. | | | | | Solar Radiation. | Terrestrial Radiation. | Veloc. Wind, in Miles, 0 to 10. | Direction of Wind. | Rainfall in Points (100 to 1 Inch). |
|-------|--|--|----------------------|----------------------|-------|------|------------------|------------------------|---------------------------------|--------------------|-------------------------------------|
| | | Max. Temp. in Shade. | Min. Temp. in Shade. | Mean Temp. in Shade. | Fah. | Fah. | | | | | |
| 1 | 30.259 | 60.0 | 33.5 | 46.7 | 118.0 | 22.6 | 35 | 0 | N. | .. | |
| 2 | 30.044 | 58.1 | 48.4 | 53.2 | 110.0 | 42.0 | 254 | 4 | N.W. | .. | |
| 3 | 30.044 | 58.5 | 45.3 | 51.9 | 113.0 | 34.9 | 214 | 10 | S. | .. | |
| 4 | 29.952 | 61.7 | 48.3 | 55.0 | 103.0 | 37.7 | 142 | 1 | N.W. | .. | |
| 5 | 30.211 | 58.6 | 40.6 | 49.6 | 113.0 | 29.3 | 212 | 3 | N. | .. | |
| 6 | 30.381 | 60.4 | 43.4 | 51.9 | 113.0 | 31.8 | 140 | 4 | N.W. | .. | |
| 7 | 30.340 | 58.4 | 50.4 | 54.4 | 121.0 | 41.0 | 328 | 1 | N.W. | .. | |
| 8 | 30.366 | 59.5 | 50.0 | 54.7 | 113.0 | 40.2 | 251 | 3 | N.N.W. | .. | |
| 9 | 30.283 | 60.8 | 50.8 | 55.8 | 123.0 | 43.5 | 227 | 3 | N.N.W. | .. | |
| 10 | 30.044 | 61.0 | 50.1 | 55.5 | 114.0 | 40.3 | 184 | 3 | N. | 19 | |
| 11 | 29.463 | 66.1 | 50.1 | 58.1 | 132.0 | 39.0 | 78 | 10 | S.E. | 48 | |
| 12 | 29.662 | 56.8 | 43.7 | 50.2 | 74.0 | 42.4 | 242 | 10 | S. | 31 | |
| 13 | 30.149 | 49.3 | 39.9 | 44.6 | 89.0 | 35.3 | 403 | 10 | S.S.E. | 6 | |
| 14 | 30.454 | 49.0 | 40.6 | 44.8 | 96.0 | 34.7 | 371 | 9 | S. | 5 | |
| 15 | 30.492 | 51.4 | 42.8 | 47.1 | 117.0 | 36.5 | 310 | 9 | S.E. | 2 | |
| 16 | 30.203 | 52.0 | 38.7 | 45.3 | 96.0 | 28.1 | 214 | 6 | W. | 1 | |
| 17 | 30.327 | 58.9 | 42.0 | 50.4 | 123.0 | 39.2 | 489 | 10 | S. | 1 | |
| 18 | 30.425 | 50.0 | 43.2 | 46.6 | 96.0 | 39.0 | 283 | 10 | S. | .. | |
| 19 | 30.364 | 58.0 | 34.0 | 46.0 | 116.0 | 25.3 | 55 | 2 | N. | .. | |
| 20 | 30.298 | 60.2 | 39.8 | 50.0 | 127.0 | 29.0 | 95 | 1 | N. | .. | |
| 21 | 30.191 | 58.2 | 47.8 | 53.0 | 125.0 | 39.5 | 223 | 4 | N.W. | .. | |
| 22 | 29.976 | 62.8 | 36.2 | 49.5 | 117.0 | 27.0 | 65 | 0 | N. | .. | |
| 23 | 29.878 | 61.1 | 50.0 | 55.5 | 117.0 | 44.5 | 174 | 10 | N. | .. | |
| 24 | 29.922 | 61.0 | 52.8 | 56.9 | 124.0 | 47.0 | 343 | 1 | W.N.W. | .. | |
| 25 | 29.955 | 62.0 | 52.2 | 57.1 | 116.0 | 46.0 | 361 | 10 | N.W. | 30 | |
| 26 | 29.971 | 61.5 | 49.3 | 55.4 | 134.0 | 45.3 | 146 | 10 | N. | 62 | |
| 27 | 29.965 | 58.2 | 49.2 | 53.7 | 100.0 | 46.7 | 63 | 10 | S.S.E. | 47 | |
| 28 | 30.095 | 62.8 | 48.4 | 55.6 | 124.0 | 42.0 | 88 | 4 | N. | .. | |
| 29 | 30.241 | 66.5 | 42.6 | 54.5 | 133.0 | 32.6 | 59 | 3 | E. | .. | |
| 30 | 30.288 | 67.1 | 39.5 | 53.3 | 122.0 | 30.1 | 53 | 1 | E.N.E. | .. | |
| * | 30.141 | 59.0 | 44.8 | 51.9 | 114.0 | 37.1 | 203 | 5.4 | .. | 252 | |
| † | 29.937 | 57.4 | 45.7 | 51.5 | 106.0 | 39.3 | 248 | 5.5 | .. | 410 | |

* Means, &c. † Means previous years.

DIRECTION OF WIND.

| | | | | | | | | |
|----|------|----|------|----|------|----|------|-------|
| N. | N.E. | E. | S.E. | S. | S.W. | W. | N.W. | Calm. |
| 11 | .. | 2 | 2 | 7 | .. | 2 | 6 | .. |

NOTE.—A good spring month with barometric pressure, temperatures, and sunshine above the average, while precipitation was 39 per cent. below the mean of previous years. Total bright sunshine 186 hours 54 minutes, 53 per cent. of the possible, and three sunless days. Frost was recorded on the grass on eight mornings, and hail fell on five days. Mean earth-temperature at 1 ft. was 51.3°, and 52.3° at 3 ft. Mean dew-point, 43.4°; mean elastic force of vapour, 0.281 in.; and mean relative humidity, 73 per cent. of saturation.

CLIMATOLOGICAL TABLE.

MEANS AND TOTALS FROM THE CHIEF STATIONS. September, 1922.

| Altitude above Sea-level. | Name of Station and Observer. | Absolute Mean Temp. Air in Shade. | Extremes. | | Total Rainfall (100 Points to the Inch). | Days with Rain (3 Point or more) |
|---------------------------|---|-----------------------------------|-----------------|-----------------|--|----------------------------------|
| | | | Mean Max. Temp. | Mean Min. Temp. | | |
| Ft. 125 | NORTH ISLAND. AUCKLAND .. F. A. F. Burnett | Deg. 54.3 | Deg. 60.9 | Deg. 47.8 | Points. 302 | Dys. 12 |
| 131 | RUAKURA FARM, HAMILTON EAST W. B. Monro | 50.8 | 63.9 | 37.7 | 315 | 7 |
| 46 | TE AROHA .. G. F. McGirr | 51.1 | 61.9 | 40.4 | 224 | 8 |
| 340 | WAIHI .. C. F. Sims | 50.1 | 61.0 | 39.2 | 502 | 10 |
| 100 | TAURANGA .. C. J. Butcher | 51.6 | 61.6 | 41.6 | 175 | 8 |
| 925 | ROTORUA .. W. E. Penno | 52.2 | 62.6 | 41.8 | 915 | 12 |
| .. | NEW PLYMOUTH .. G. H. Dolby | 50.8 | 58.4 | 43.3 | 458 | 10 |
| 250 | MOUMAHAKI .. J. G. McFarlane | 48.4 | 57.6 | 39.2 | 303 | 8 |
| 2080 | TAIHAPE .. A. R. Fannin | 45.7 | 53.6 | 37.9 | 154 | 14 |
| 100 | PALMERSTON NORTH .. J. A. Colquhoun | 50.1 | 60.1 | 40.1 | 184 | 8 |
| 119 | CENTRAL DEVELOPMENT FARM, WERAROA J. Beverley | 49.5 | 58.5 | 40.5 | 138 | 11 |
| 70 | GREENMEADOWS, NA-PIER | 51.8 | 60.7 | 42.8 | 131 | 12 |
| 377 | MASTERTON .. R. Brown | 48.7 | 60.2 | 37.3 | 252 | 12 |
| 186 | GREYTOWN .. J. P. Eccleton | 49.2 | 60.4 | 38.0 | 259 | 12 |
| .. | MILITARY HOSPITAL, TRENTHAM Miss E. Hooper | 47.5 | 58.7 | 36.3 | 216 | 15 |
| 10 | WELLINGTON .. | 51.9 | 59.0 | 44.8 | 252 | 11 |
| .. | SOUTH ISLAND. BRIGHTWATER .. Ven. Archdeacon Kempthorne | .. | .. | .. | 336 | 10 |
| 34 | NELSON .. Wm. C. Davies | 49.5 | 57.9 | 41.1 | 360 | 9 |
| 1220 | HANMER SPRINGS .. W. G. Morrison | 46.1 | 58.0 | 34.3 | 289 | 10 |
| 25 | CHRISTCHURCH .. H. F. Skey | 47.8 | 55.3 | 40.4 | 253 | 9 |
| 42 | LINCOLN .. M. J. Scott | 49.3 | 58.2 | 40.5 | 150 | 7 |
| 1220 | KISSELTON .. A. R. Blackwood | 47.1 | 57.9 | 36.3 | 113 | 6 |
| .. | RAKATA .. Miss A. Hardy | 47.5 | 57.3 | 37.8 | 183 | 9 |
| 130 | TIMARU .. Caretaker of Domain | 47.7 | 56.0 | 39.5 | 104 | 7 |
| 200 | WAIMATE .. F. Akhurst | 47.3 | 56.3 | 38.4 | 111 | 9 |
| 300 | DUNEDIN .. D. Tannock | 48.9 | 56.0 | 41.8 | 189 | 13 |
| 245 | GORE .. A. T. Newman | 48.2 | 58.4 | 38.0 | 178 | 13 |
| 12 | HORITIKA .. J. A. Chesney | 49.3 | 57.6 | 41.1 | 503 | 14 |
| 12 | INVERCARGILL .. L. Lennie | 49.4 | 57.8 | 41.0 | 220 | 15 |

SUMMARY FOR THE MONTH OF SEPTEMBER, 1922.

Rainfall was below the average except at isolated places, particularly in the north-east portion of the South Island and the extreme north of the North Island.

Unsettled weather was generally confined to two periods—viz., between the 9th and 14th and the 22nd and 28th. In the former period an extensive though rather shallow cyclonic depression ruled, bringing welcome rain in most parts on the 10th and 11th. Some snow was reported on the 11th on the high country in the South, and also on the 13th on the higher levels in the North Island as far north as the Gisborne district.

The heavy rains that occurred in parts towards the end of the month were accounted for by a succession of disturbances on the edge of an anticyclone which at that time overspread the Dominion.

Except during the periods mentioned fair weather predominated, with several sharp frosts in various parts. The month was a good one for agricultural work, and, although growth was not abundant, it was sufficient for grazing purposes.

D. C. BATES, Director