

Government Meteorological Observatory.

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

Altitude of Observatory, 10 ft.

| Date. | Barometer reduced and corrected in inches to Lat. 45°. | From Self-registering Instruments, for Twenty four Hours previously. | | | | | Solar Radiation. | Terrestrial Radiation. | Veloc. Wind, in Miles. | Amount of Cloud, 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 | 29.922 | 69.9 | 54.8 | 62.3 | 133.0 | 51.2 | 201 | 7 | N.W. | .. | .. | |
| 2 | 30.030 | 67.4 | 60.2 | 63.8 | 124.0 | 59.0 | 434 | 6 | N.W. | .. | .. | |
| 3 | 30.016 | 70.1 | 60.2 | 65.1 | 134.0 | 59.1 | 277 | 8 | N.N.W | Trace | .. | |
| 4 | 29.791 | 68.8 | 57.0 | 62.9 | 124.0 | 55.1 | 378 | 7 | N.W. | .. | .. | |
| 5 | 29.624 | 67.1 | 56.2 | 61.6 | 128.0 | 53.0 | 396 | 3 | N.N.W | 12 | .. | |
| 6 | 29.568 | 66.0 | 54.3 | 60.1 | 138.0 | 51.9 | 244 | 10 | S.E. | 104 | .. | |
| 7 | 29.696 | 63.5 | 46.8 | 55.1 | 129.0 | 40.0 | 137 | 8 | N.N.W | .. | .. | |
| 8 | 29.570 | 65.0 | 54.1 | 59.5 | 132.0 | 49.1 | 356 | 1 | N.W. | .. | .. | |
| 9 | 29.800 | 64.0 | 45.8 | 54.9 | 120.0 | 35.5 | 251 | 2 | W.N.W | .. | .. | |
| 10 | 29.626 | 64.1 | 57.0 | 60.5 | 125.0 | 55.0 | 243 | 10 | N.N.E. | 131 | .. | |
| 11 | 29.423 | 66.2 | 56.1 | 61.1 | 108.0 | 55.1 | 170 | 10 | S.W. | 47 | .. | |
| 12 | 29.894 | 62.4 | 52.3 | 57.3 | 116.0 | 45.9 | 102 | 4 | S.S.E. | 45 | .. | |
| 13 | 30.017 | 65.3 | 50.0 | 57.6 | 120.0 | 47.9 | 240 | 10 | S.E. | 2 | .. | |
| 14 | 30.004 | 60.0 | 52.1 | 56.0 | 120.0 | 49.0 | 455 | 5 | S.S.E. | .. | .. | |
| 15 | 29.720 | 65.1 | 47.6 | 56.3 | 126.0 | 41.2 | 150 | 4 | N.N.W | .. | .. | |
| 16 | 29.688 | 72.8 | 53.4 | 63.1 | 130.0 | 46.1 | 166 | 8 | N.W. | 39 | .. | |
| 17 | 29.717 | 66.1 | 53.4 | 59.7 | 129.0 | 53.0 | 393 | 10 | S.E. | 90 | .. | |
| 18 | 29.799 | 55.0 | 51.2 | 53.1 | 69.0 | 49.9 | 392 | 10 | S.E. | 274 | .. | |
| 19 | 29.717 | 53.9 | 48.0 | 50.9 | 90.0 | 46.9 | 562 | 10 | S.S.E. | 210 | .. | |
| 20 | 29.878 | 56.3 | 49.9 | 53.1 | 94.0 | 47.9 | 527 | 8 | S.S.E. | .. | .. | |
| 21 | 29.847 | 61.2 | 49.3 | 55.2 | 126.0 | 42.1 | 239 | 9 | N. | Trace | .. | |
| 22 | 29.573 | 65.9 | 57.1 | 61.5 | 134.0 | 55.0 | 334 | 7 | N.N.W | 42 | .. | |
| 23 | 29.496 | 64.4 | 48.1 | 56.2 | 138.0 | 46.1 | 247 | 9 | S.S.E. | 13 | .. | |
| 24 | 29.804 | 65.2 | 52.8 | 59.0 | 127.0 | 47.2 | 91 | 4 | S.E. | .. | .. | |
| 25 | 29.842 | 70.0 | 55.2 | 62.6 | 131.0 | 53.2 | 132 | 8 | E.N.E. | 46 | .. | |
| 26 | 29.642 | 69.8 | 57.2 | 63.5 | 133.0 | 54.2 | 68 | 9 | E.S.E. | 51 | .. | |
| 27 | 29.458 | 75.1 | 56.7 | 65.9 | 138.0 | 54.9 | 87 | 6 | N.N.W | .. | .. | |
| 28 | 29.690 | 69.8 | 55.6 | 62.7 | 131.0 | 52.2 | 109 | 8 | N.N.W | Trace | .. | |
| 29 | 29.530 | 68.4 | 59.7 | 64.0 | 134.0 | 58.0 | 233 | 10 | N.E. | 32 | .. | |
| 30 | 29.546 | 67.2 | 56.0 | 61.6 | 111.0 | 55.1 | 114 | 10 | S.E. | 1 | .. | |
| 31 | 29.772 | 67.0 | 57.2 | 62.1 | 143.0 | 56.1 | 205 | 7 | S.E. | .. | .. | |
| * | 29.732 | 65.6 | 53.7 | 59.6 | 123.7 | 50.5 | 256 | 7.4 | .. | .. | 1139 | |
| † | 29.869 | 66.9 | 53.8 | 60.3 | 125.8 | 47.1 | 280 | 5.2 | .. | .. | 324 | |

* Means, &c. † Means previous years.

DIRECTION OF WIND.

| | | | | | | | | |
|----|------|----|------|----|------|----|------|-------|
| N. | N.E. | E. | S.E. | S. | S.W. | W. | N.W. | Calm. |
| 9 | 1 | 2 | 7 | 5 | 1 | 1 | 5 | .. |

NOTE.—A cool, dull, mild, and humid month, with heavy rain. Total bright sunshine 181 hours 49 minutes, 39 per cent. of the possible, and six sunless days. Thunder was heard on the 6th and hail fell on the same day. Mean earth temperature at 1 ft. was 62.9°, and 62° at 3 ft. Mean dew-point 51.2°; mean elastic force of vapour, 0.377 in.; and mean relative humidity, 74 per cent. of saturation.

CLIMATOLOGICAL TABLE.

MEANS AND TOTALS FROM THE CHIEF STATIONS.

December, 1924.

| 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 (4 Point or more). |
|---------------------------|--|-----------------------------------|-----------------|-----------------|--|-----------------------------------|
| | | | Mean Max. Temp. | Mean Min. Temp. | | |
| NORTH ISLAND. | | | | | | |
| 152 | AUCKLAND .. | Deg. 62.4 | Deg. 68.3 | Deg. 56.4 | Points. 441 | 18 |
| 131 | RUAKURA FARM, HAMILTON EAST W. B. Monro | .. | .. | .. | 806 | 24 |
| 46 | TE AROHA .. | 65.1 | 75.5 | 54.7 | 742 | 17 |
| 340 | WAIHI .. | 62.6 | 72.8 | 52.5 | 964 | 19 |
| 100 | TAURANGA .. | 60.9 | 70.2 | 51.7 | 887 | 18 |
| 925 | ROTORUA .. | 60.0 | 70.1 | 50.0 | 751 | 15 |
| 60 | NEW PLYMOUTH .. | 58.7 | 65.1 | 52.3 | 960 | 21 |
| 250 | MOUMAHAKI .. | 60.4 | 69.5 | 51.3 | 890 | 16 |
| 2080 | TAIHAPÉ .. | 55.3 | 63.7 | 47.0 | 537 | 17 |
| 100 | PALMERSTON NORTH .. | .. | .. | .. | .. | .. |
| 8 | TANGIMOANA .. | 60.1 | 68.6 | 51.7 | 759 | 15 |
| 119 | CENTRAL DEVELOPMENT FARM, WERAROA .. | 57.2 | 63.7 | 50.8 | 740 | 21 |
| 5 | NAPIER .. | 62.0 | 69.9 | 54.1 | 230 | 12 |
| 377 | MASTERTON .. | 59.7 | 70.2 | 49.3 | 1328 | 15 |
| 186 | GREYTOWN .. | 59.8 | 69.4 | 50.3 | 1254 | 15 |
| 10 | WELLINGTON .. | 59.6 | 65.6 | 53.7 | 1139 | 16 |
| SOUTH ISLAND. | | | | | | |
| 87 | BRIGHTWATER .. | 58.3 | 68.0 | 48.7 | 792 | 17 |
| 34 | NELSON .. | 59.8 | 68.0 | 51.6 | 683 | 16 |
| 1220 | HANMER SPRINGS .. | 56.0 | 64.8 | 47.2 | 1100 | 19 |
| 25 | CHRISTCHURCH .. | 58.4 | 66.6 | 50.3 | 394 | 18 |
| 42 | LINCOLN .. | 58.3 | 67.2 | 49.4 | 335 | 8 |
| 1220 | KISSELTON .. | .. | .. | .. | 304 | 11 |
| 349 | RAKAIA .. | 59.0 | 68.8 | 49.2 | 431 | 12 |
| 130 | TIMARU .. | 59.0 | 67.1 | 50.9 | 473 | 16 |
| 200 | WAIMATE .. | 57.3 | 64.7 | 49.8 | 472 | 18 |
| 300 | DUNEDIN .. | 56.9 | 64.0 | 49.8 | 465 | 14 |
| 245 | GORE .. | .. | .. | .. | .. | .. |
| 12 | HOKITIKA .. | 57.6 | 64.6 | 50.6 | 949 | 20 |
| 12 | INVERCARGILL .. | 56.8 | 66.7 | 46.9 | 466 | 19 |

SUMMARY FOR THE MONTH OF DECEMBER, 1924.

The outstanding feature of December was the frequency of the passage of ex-tropical disturbances in and northward of Cook Strait, particularly in the latter half of the month. Dull, mild, and wet conditions resulted, and some very heavy rains occurred over the North Island and the northern and east coast districts of the South. The highest falls were experienced in the Wairarapa—Masterton had a total for the month of 13.28 inches, which is 417 per cent. above the average; Lagoon Hills recorded 17.14 inches; Featherston, 13.41 inches; the Summit, 13.57 inches; Wainuiomata, the main water-supply for the city, had 23.12 inches, and Wellington City 11.39 inches, which is 256 per cent. above the average for the month and the heaviest December fall since 1884. The only parts of the country having a deficit rainfall were Westland and south-west Otago.

Electrical conditions were prevalent in various parts of the country, chiefly about the 5th, 7th, and 22nd.

D. C. BATES, Director.