

SCOTTISH METEOROLOGICAL SOCIETY.

Observations taken at Corstorphine House, County of Mid Lothian, in Lat. 55° 56' 31" N, Long. 3° 16' 46" W, Distance from Sea 2 2/3 miles.
Height of Cistern of the Barometer above Mean Sea-Level 165 feet, above Ground 6 feet.

During the MONTH of January 1902.

The Hours of Observation are of Greenwich Time.

| ELECTRICITY. | Days of Month. | BAROMETER. | | | | SELF-REGISTERING THERMOMETERS. Read Daily, at 9 P.M. | | | | HYGROMETER. | | | | Rain. | WIND. | | | | CLOUDS. | | | | SUNSHINE. Hours. | THERMOMETERS under Ground. | | | Temperature of WELL at depth of feet, No. | SEA. Temperature at 1 fathom, and Density. | OZONE. 0-10. | GENERAL REMARKS. As to occurrence of Thunder, Lightning, Storms, Hail, Meteors, Remarkable Depression or Elevation of Barometer, Prevalent Diseases, etc. Mention the hour at which Storms, including Thunder and Lightning, began and ended. | Days of Month. | | | |
|--------------|--|-------------------|---------------------------------|-------------------|---------------------------------|---|-------------|--|-------------------|------------------|------------------|------------------|------------------|-------|---|-------------------------|------------|--------|------------|--------|---|--|---------------------|--------------------------------------|--|--------------------------------------|---|---|-----------------|--|----------------|------------------|-------------------|-------------------|
| | | 9 h. A.M. | | 9 h. P.M. | | Protected in Shade, 4 feet above Ground. | | Exposed Black Bulbs. Sun's rays Grass. | | 9 h. A.M. | | 9 h. P.M. | | | 9 h. A.M. | | 9 h. P.M. | | 9 A.M. | | 9 P.M. | | | 9 h. A.M. | | | | | | | | | | |
| | | Barometer. No. | Attached Thermometer. No. | Barometer. No. | Attached Thermometer. No. | Max. No. | Min. No. | Max. in Shade. | Min. on Grass. | Dry bulb. No. | Wet bulb. No. | Dry bulb. No. | Wet bulb. No. | | No. of hours in which it fell. | Amount in inches. | Direction. | Force. | Direction. | Force. | Readings of the H. Cup Anemometer. No. | Velocity (0-6) and Direction. | | Amount (0-10), and Species. | Velocity (0-6) and Direction. | Amount (0-10), and Species. | | | | | | No. 8 inches. | No. 12 inches. | No. 22 inches. |
| | | * No. | No. | No. | No. | No. | No. | No. | No. | No. | No. | No. | No. | | No. | No. | No. | No. | No. | No. | No. | No. | | No. | No. | No. | | | | | | No. | No. | No. |
| | | inches. | ° | inches. | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | | | |
| | 1 | 29.382 | 50.1 | 28.678 | 52.0 | 45.9 | 38.2 | 82.4 | 26.0 | 40.5 | 39.4 | 41.9 | 40.0 | .13 | W. | 1 | S.W. | 4 | — | — | n.10 | — | — | — | 36.5 | 36.8 | 37.2 | | | | 1 | | | |
| | 2 | 28.762 | 50.8 | 29.286 | 52.5 | 47.1 | 40.6 | 64.2 | 32.4 | 43.6 | 41.5 | 43.1 | 41.7 | .02 | W. | 1 | W. | 1.5 | — | — | — | — | — | — | 39.2 | 37.5 | 37.4 | | | | 2 | | | |
| | 3 | 29.508 | 50.5 | 29.474 | 54.8 | 53.4 | 39.0 | 72.9 | 24.9 | 46.0 | 43.2 | 47.9 | 44.8 | .25 | W. | 1 | W. | 1.5 | n.8 | — | — | — | — | — | 39.2 | 38.6 | 38.5 | | | | 3 | | | |
| | 4 | 29.394 | 52.4 | 29.292 | 53.0 | 49.3 | 39.5 | 56.4 | 34.1 | 43.2 | 40.7 | 42.1 | 40.0 | .14 | W. | 2 | W. | 3 | ast.3 | — | — | — | — | — | 41.5 | 39.4 | 38.7 | | | | 4 | | | |
| | 5 | 29.850 | 50.9 | 29.930 | 53.5 | 46.5 | 39.7 | 74.5 | 26.7 | 40.2 | 35.7 | 46.5 | 43.5 | .02 | W. | 1.5 | W. | 3 | — | — | — | — | — | — | 38.5 | 39.0 | 38.6 | | | | 5 | | | |
| | 6 | 29.986 | 52.4 | 30.120 | 54.2 | 50.1 | 45.4 | 73.7 | 37.5 | 48.8 | 45.5 | 47.6 | 44.0 | — | W. | 2 | S.W. | 3 | ast.8 | — | — | — | — | — | 42.5 | 39.2 | 39.1 | | | | 6 | | | |
| | 7 | 30.116 | 52.8 | 30.208 | 54.0 | 48.9 | 45.8 | 49.8 | 39.1 | 46.8 | 43.9 | 46.9 | 44.2 | — | W. | 2.5 | W. | 2 | ast.5 | — | — | — | — | — | 42.8 | 40.0 | 39.3 | | | | 7 | | | |
| | 8 | 30.150 | 52.8 | 29.964 | 53.8 | 47.8 | 41.5 | 65.4 | 37.5 | 44.5 | 41.6 | 44.4 | 41.9 | — | W. | 1.5 | W. | 1 | ast.8 | — | — | — | — | — | 42.5 | 41.7 | 41.5 | | | | 8 | | | |
| | 9 | 29.550 | 52.9 | 29.854 | 54.8 | 49.6 | 41.8 | 56.1 | 36.4 | 48.2 | 46.9 | 42.4 | 40.2 | .05 | W. | 3 | W. | 3 | ast.5 | — | — | — | — | — | 43.2 | 41.6 | 41.5 | | | | 9 | | | |
| | 10 | 29.650 | 52.3 | 29.826 | 53.2 | 43.1 | 32.8 | 48.4 | 31.9 | 41.7 | 39.8 | 33.4 | 31.1 | — | W. | 1.5 | N.W. | 1 | n.8 | — | — | — | — | — | 40.3 | 40.5 | 40.5 | | | | 10 | | | |
| | 11 | 30.000 | 50.4 | 30.028 | 51.8 | 56.6 | 27.9 | 57.8 | 16.1 | 29.7 | 27.9 | 32.2 | 30.5 | .09 | — | — | — | — | — | — | — | — | — | — | 34.5 | 39.2 | 40.4 | | | | 11 | | | |
| | 12 | 29.836 | 48.7 | 30.046 | 50.0 | 35.3 | 25.9 | 66.3 | 21.6 | 28.7 | 28.2 | 32.4 | 30.1 | — | W. | .5 | N. | .5 | — | — | — | — | — | — | 33.6 | 37.8 | 39.3 | | | | 12 | | | |
| | 13 | 30.234 | 47.4 | 30.424 | 47.5 | 33.1 | 20.2 | 56.8 | 9.4 | 24.8 | 24.1 | 21.4 | 21.0 | — | N. | .5 | N. | .5 | — | — | — | — | — | — | 32.5 | 37.2 | 38.4 | | | | 13 | | | |
| | 14 | 30.526 | 44.6 | 30.550 | 47.0 | 30.1 | 18.1 | 66.8 | 6.8 | 20.5 | 20.0 | 30.0 | 29.4 | .03 | N. | .5 | — | — | — | — | — | — | — | — | 31.8 | 36.4 | 38.2 | | | | 14 | | | |
| | 15 | 30.350 | 46.1 | 30.272 | 50.0 | 47.6 | 26.8 | 48.8 | 22.3 | 41.4 | 39.9 | 47.6 | 44.0 | .02 | W. | 2.5 | W. | 2.5 | ast.10 | — | — | — | — | — | 32.2 | 35.8 | 38.4 | | | | 15 | | | |
| | 16 | 30.340 | 48.2 | 30.430 | 53.0 | 50.0 | 43.8 | 71.9 | 34.2 | 46.0 | 44.9 | 44.4 | 43.2 | — | W. | 1 | W. | 1 | ast.5 | — | — | — | — | — | 37.1 | 35.8 | 37.4 | | | | 16 | | | |
| | 17 | 30.316 | 51.8 | 30.186 | 53.2 | 46.8 | 39.0 | 52.4 | 31.9 | 42.7 | 40.6 | 40.1 | 38.8 | — | W. | 1 | W. | 1 | ast.5 | — | — | — | — | — | 38.8 | 37.5 | 37.8 | | | | 17 | | | |
| | 18 | 30.150 | 52.3 | 30.128 | 52.8 | 42.5 | 37.7 | 46.9 | 30.3 | 38.9 | 37.8 | 39.6 | 36.5 | — | — | — | W. | 1.5 | ast.3 | — | — | — | — | — | 37.9 | 37.6 | 37.8 | | | | 18 | | | |
| | 19 | 29.982 | 51.7 | 29.770 | 53.5 | 46.5 | 37.8 | 50.8 | 28.7 | 44.0 | 41.8 | 44.6 | 42.1 | .06 | W. | 2 | W. | 3 | — | — | — | — | — | — | 39.1 | 37.8 | 38.2 | | | | 19 | | | |
| | 20 | 29.664 | 50.9 | 29.900 | 55.0 | 49.3 | 42.4 | 50.9 | 36.8 | 48.6 | 47.8 | 44.4 | 43.7 | .29 | W. | 1.5 | — | — | n.10 | — | — | — | — | — | 42.5 | 39.0 | 38.6 | | | | 20 | | | |
| | 21 | 29.936 | 53.7 | 29.990 | 55.8 | 50.3 | 43.5 | 61.6 | 37.5 | 47.7 | 42.3 | 49.0 | 47.2 | .03 | W. | 1 | W. | 1.5 | n.10 | — | — | — | — | — | 43.1 | 40.3 | 39.7 | | | | 21 | | | |
| | 22 | 29.996 | 53.7 | 29.936 | 56.0 | 50.4 | 41.8 | 72.8 | 30.9 | 42.4 | 41.1 | 49.6 | 48.0 | — | W. | 1 | W. | 1 | — | — | — | — | — | — | 42.6 | 41.5 | 41.5 | | | | 22 | | | |
| | 23 | 29.826 | 54.9 | 29.414 | 56.2 | 50.2 | 44.1 | 58.5 | 39.5 | 48.0 | 44.9 | 45.4 | 41.9 | .01 | W. | 1 | S.W. | 2.5 | ast.5 | — | — | — | — | — | 44.0 | 41.2 | 40.6 | | | | 23 | | | |
| | 24 | 28.950 | 53.6 | 28.852 | 54.8 | 47.0 | 33.5 | 49.1 | 32.8 | 41.6 | 39.7 | 33.5 | 32.3 | .08 | W. | 1.5 | W. | 1 | n.10 | — | — | — | — | — | 41.5 | 41.6 | 40.8 | | | | 24 | | | |
| | 25 | 28.842 | 51.5 | 29.376 | 51.8 | 31.9 | 27.8 | 69.6 | 16.4 | 31.6 | 30.5 | 30.0 | 27.1 | — | N. | .5 | N. | 1.5 | — | — | — | — | — | — | 35.0 | 40.1 | 40.5 | | | | 25 | | | |
| | 26 | 29.476 | 48.7 | 29.488 | 4.8 | 33.4 | 21.6 | 74.1 | 12.9 | 27.4 | 25.7 | 22.2 | 21.8 | — | N. | 1 | — | — | — | — | — | — | — | — | 32.8 | 38.0 | 38.9 | | | | 26 | | | |
| | 27 | 29.350 | 46.7 | 29.000 | 48.5 | 31.6 | 21.4 | 45.8 | 10.8 | 26.8 | 26.2 | 31.2 | 29.6 | .07 | E. | .5 | N. | .5 | — | — | — | — | — | — | 32.3 | 37.5 | 38.7 | | | | 27 | | | |
| | 28 | 28.984 | 46.4 | 29.898 | 48.0 | 35.2 | 26.4 | 69.5 | 24.3 | 30.5 | 29.9 | 29.0 | 28.0 | — | W. | .5 | N. | 1 | ast.10 | — | — | — | — | — | 32.5 | 37.4 | 38.6 | | | | 28 | | | |
| | 29 | 29.750 | 45.1 | 30.100 | 46.8 | 32.8 | 19.4 | 40.5 | 7.6 | 29.8 | 29.4 | 21.0 | 20.9 | .04 | N. | .5 | — | — | ast.10 | — | — | — | — | — | 31.5 | 35.6 | 38.4 | | | | 29 | | | |
| | 30 | 30.450 | 43.0 | 30.726 | 46.2 | 37.9 | 16.1 | 44.9 | 4.2 | 19.8 | 19.5 | 26.2 | 25.6 | — | N. | .5 | — | — | — | — | — | — | — | — | 30.5 | 35.6 | 37.8 | | | | 30 | | | |
| | 31 | 30.878 | 42.8 | 30.890 | 44.7 | 32.3 | 13.4 | 45.0 | 5.8 | 14.8 | 14.5 | 26.4 | 26.1 | — | — | — | — | — | — | — | — | — | — | — | 30.2 | 35.4 | 36.5 | | | | 31 | | | |
| | Sums. | 1815.9 | 111.7 | 1515.1 | 13.7 | 1373 | 16.5 | 16.7 | 15.16 | 15.16 | 16.17 | 13.11 | 11.11 | 133 | 7 | 5 | 34.5 | 41.0 | 121 | 113 | 232.2 | 256.6 | 273.7 | | | | | | | | | | | |
| | Means. | 29.812 | 50.0 | 29.849 | 51.9 | 42.8 | 33.3 | 59.5 | 25.4 | 37.7 | 35.9 | 37.9 | 36.1 | 1.11 | 1.32 | 3.9 | 3.6 | 37.5 | 38.3 | 38.8 | | | | | | | | | | | | | | |
| | + Total Corrections for Instrumental Errors. | +0.32 | | +0.32 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | + Corrections for Diurnal Range. | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | "Corrected Means." | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | No. of Column. | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | 24 | 25 | 26 | 27 | 28 | 29 | 30 | | | |

| NOTATION USED IN GENERAL REMARKS. | | | | | |
|-----------------------------------|-------------------|----------|-------------------------|--|--|
| a. | denotes aurora. | m. | denotes meteor. | | |
| cl. | " cirrus. | ms. | " meteors. | | |
| ci. cu. | " cirro-cumulus. | n. | " nimbus. | | |
| ci. s. | " cirro-stratus. | r. | " rain. | | |
| cu. | " cumulus. | h. r. | " heavy rain. | | |
| cu. s. | " cumulo-stratus. | c. h. r. | " continued heavy rain. | | |
| d. | " dew. | s. | " stratus. | | |
| f. | " fog. | sc. | " squall. | | |
| fr. | " frost. | s. | " sleet. | | |
| h. fr. | " hoar-frost. | so. ha. | " solar halo. | | |
| h. d. | " heavy dew. | sq. | " squall. | | |
| hl. | " hail. | sqs. | " squalls. | | |
| li. cl. | " lightning. | t. | " thunder. | | |
| li. sh. | " light showers. | t. s. | " thunder-storm. | | |
| lu. co. | " lunar corona. | w. | " wind. | | |
| lu. ha. | " lunar halo. | g. | " gale of wind. | | |

| TABLE FOR ESTIMATING FORCE OF WIND. | | | | | |
|-------------------------------------|---------------------|-----------------------|---------------------|-----------------------|---------------------|
| Estimated Force, 0-6. | Common Designation. | Estimated Force, 0-6. | Common Designation. | Estimated Force, 0-6. | Common Designation. |
| 0 | Calm | 1.5 | Light breeze | 4 | Blowing hard |
| 0.5 | Very light air | 2 | Fresh breeze | 5 | Blowing a gale |
| 1 | Light air | 3 | Very fresh | 6 | Violent gale |

BAROMETER, "corrected Mean" at 9 A.M., minus the Correction \ddagger = 29.754
for Temp. (Col. 2), = 29.812 \ddagger = 29.754
"Corrected Mean" of Barometer at 9 P.M., minus the Correction \ddagger = 29.787
for Temp. (Col. 4), = 29.849 \ddagger = 29.787
Mean at Station, corrected, and at 32°, = 29.770 \ddagger = 29.770
Correction for height, feet above Mean Sea-level, = 185
Mean, reduced to 32°, and Sea-level, = 29.888 \ddagger = 29.888
Highest Reading, corrected for Index error, on the 31st, = 30.890
Lowest Do. Do., on the 1st, = 28.678
Difference, or Monthly Range, = 2.212

S.-R. THERMOMETER, (in shade, etc.), Highest in Month, (corrected for Index Errors), on the 31st, = 53.4
Lowest in Month, corrected for Index errors, on the 31st, = 13.4
Difference, or Monthly Range, = 40.0
"Corrected Mean" of all the Highest, (Col. 5), = 42.8
"Corrected Mean" of all the Lowest, (Col. 6), = 33.3
Difference, or Mean Daily Range, = 9.5
** Calculated Mean Temperature of Month, = 38.0
S.-R. THERMOMETER, Black Bulb in Sun, Highest, (corrected for Index Errors), on the 1st, = 87.4
"Corrected Mean," (Col. 7), of Black Bulb, Max. in Sun, = 59.5
Lowest at Night, Black Bulb (corrected for Index errors), on the 30th, = 4.2
"Corrected Mean," (Col. 8), of Black Bulb, Min. on grass, = 25.4
Difference of above means or range ("exposed"), =

HYGROMETER, Mean (corrected) A.M. and P.M. Reading of Dry Bulb, (Cols. 9 and 11), = 37.8
Mean (corrected) A.M. and P.M. Reading of Wet Bulb, (Cols. 10 and 12), = 36.0
†† Computed Temperature of Dew-Point, = 33.6
†† Do. Elastic Force of Vapour, = 1.98
†† Do. Weight of Vapour in a Cubic Foot of Air, = 8.5
†† Relative Humidity (Saturation = 100), = 85
RAIN fell on 16 Days; Amount in Inches, = 1.33
WIND. SUMMARY.
Direction. N NE E SE S SW W NW Calm or Variable. Mean Force. Mean Velocity in miles per day
A.M. 6 0 1 0 0 0 21 0 3 1.11
P.M. 5 0 0 0 0 3 15 1 7 1.32
Mean. 6 0 0 0 0 2 18 0 5 1.21 = 1.46

Observations made and
Return verified by G. N. Johnston

(Signed)

SCOTTISH METEOROLOGICAL SOCIETY.

Observations taken at *Corstorphine House*, County of *Mid Lothian*, in Lat. *55°56'31"N*, Long *3°16'46"W*, Distance from Sea *22 2/3* miles.Height of Cistern of the Barometer above Mean Sea-Level *165* feet, above Ground *6* feet.During the MONTH of *February* 1902.

The Hours of Observation are of Greenwich Time.

| ELECTRICITY. | Days of Month. | BAROMETER. | | | | SELF-REGISTERING THERMOMETERS. Read Daily, at 9 P.M. | | | | HYGROMETER. | | | | Rain. | WIND. | | | | CLOUDS. | | | | THERMOMETERS under Ground. | | | SEA. | OZONE. | GENERAL REMARKS. As to occurrence of Thunder, Lightning, Storms, Hail, Meteors, Remarkable Depression or Elevation of Barometer, Prevalent Diseases, etc. Mention the hour at which Storms, including Thunder and Lightning, began and ended. | Days of Month. | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
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| | | 9 h. A.M. | | 9 h. P.M. | | Protected in Shade, 4 feet above Ground. | | Exposed Black Bulbs. | | 9 h. A.M. | | 9 h. P.M. | | | 9 h. A.M. | | 9 h. P.M. | | 9 A.M. | | P.M. | | 9 h. A.M. | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | Barometer. | Attached Thermometer. | Barometer. | Attached Thermometer. | Max. | Min. | Max. in Sun's rays. | Min. on Grass. | Dry bulb. | Wet bulb. | Dry bulb. | Wet bulb. | | No. of hours in which it fell. | Amount in inches. | 9 h. A.M. | 9 h. P.M. | Readings of the H. Cup Anemometer. No. | 9 h. A.M. | 9 h. P.M. | Velocity (0-10), and Direction. | Amount (0-10), and Direction. | Velocity (0-6) and Direction. | Amount (0-10), and Direction. | | | | | No. 3 inches. | No. 12 inches. | No. 22 inches. | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | * No. | No. | No. | No. | No. | No. | No. | No. | No. | No. | No. | No. | | No. | No. | Direction. | Force. | Direction. | Force. | No. | Direction. | Species. | Amount (0-10), and Direction. | Amount (0-10), and Direction. | | | | | Hours. | No. | No. | No. | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | inches. | ° | inches. | ° | ° | ° | ° | ° | ° | ° | ° | ° | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

NOTATION USED IN GENERAL REMARKS.

| | | | |
|---------|-----------------|----------|-----------------------|
| a. | denotes aurora. | m. | denotes meteor. |
| ci. | cirrus. | ms. | meteors. |
| ci-cu. | cirro-cumulus. | n. | nimbus. |
| ci-s. | cirro-stratus. | r. | rain. |
| cu. | cumulus. | h. r. | heavy rain. |
| cu-s. | cumulo-stratus. | c. h. r. | continued heavy rain. |
| d. | dew. | s. | stratus. |
| f. | fog. | sc. | scud. |
| fr. | frost. | s. | sleet. |
| h.-fr. | hoar-frost. | sq. | snow. |
| h. | haze. | so. ha. | solar halo. |
| h. d. | heavy dew. | sq. | squall. |
| hl. | hall. | sq. | squalls. |
| l. | lightning. | t. | thunder. |
| li. cl. | light clouds. | t. s. | thunder-storm. |
| li. sh. | light showers. | w. | wind. |
| lu. co. | lunar corona. | g. | gale of wind. |
| lu. ha. | lunar halo. | | |

TABLE FOR ESTIMATING FORCE OF WIND.

| Estimated Force, 0-6. | Common Designation. | Estimated Force, 0-6. | Common Designation. | Estimated Force, 0-6. | Common Designation. |
|-----------------------|---------------------|-----------------------|---------------------|-----------------------|---------------------|
| 0 | Calm | 1.5 | Light breeze | 4 | Blowing hard |
| 0.5 | Very light air | 2 | Fresh breeze | 5 | Blowing a gale |
| 1 | Light air | 3 | Very fresh | 6 | Violent gale |

BAROMETER, "corrected Mean" at 9 A.M., minus the Correction $\frac{1}{1}$ for Temp. (Col. 2), = *29.697*
"Corrected Mean" of Barometer at 9 P.M., minus the Correction $\frac{1}{1}$ for Temp. (Col. 4), = *29.680*
Mean at Station, corrected, and at 32°, = *29.689*
Correction for height, feet above Mean Sea-level, = *18.6*
Mean, reduced to 32°, and Sea-level, = *29.875*
Highest Reading, corrected for Index error, on the *15* = *30.852*
Lowest Do. Do., on the *27* = *29.182*
Difference, or Monthly Range, = *1.670*

S.R. THERMOMETER, (in shade, etc.), Highest in Month, (corrected for Index Errors), on the *23* = *51.1*
Lowest in Month, corrected for Index errors, on the *14* = *15.4*
Difference, or Monthly Range, = *35.7*
"Corrected Mean" of all the Highest, (Col. 5), = *40.4*
"Corrected Mean" of all the Lowest, (Col. 6), = *28.9*
Difference, or Mean Daily Range, = *11.5*
** Calculated Mean Temperature of Month, = *34.6*
S.R. THERMOMETER, Black Bulb in Sun, Highest, (corrected for Index Errors), on the *9* = *91.8*
"Corrected Mean," (Col. 7), of Black Bulb, Max. in Sun, = *67.4*
Lowest at Night, Black Bulb (corrected for Index errors), on the *14* = *6.2*
"Corrected Mean," (Col. 8), of Black Bulb, Min. on grass, = *19.9*
Difference of above means or range ("exposed"), = *47.5*

HYGROMETER, Mean (corrected) A.M. and P.M. Reading of Dry Bulb, (Cols. 9 and 11), = *33.5*
Mean (corrected) A.M. and P.M. Reading of Wet Bulb, (Cols. 10 and 12), = *32.1*
Computed Temperature of Dew-Point, = *29.6*
Do. Elastic Force of Vapour, = *163*
Do. Weight of Vapour in a Cubic Foot of Air, = *85*
Relative Humidity (Saturation = 100), = *85*
RAIN fell on *16* Days; Amount in Inches, = *0.99*

| WIND. | SUMMARY. | | | | | | | | | |
|-------|------------|---|----|---|----|---|----|---|----|--------------------------------|
| | Direction. | N | NE | E | SE | S | SW | W | NW | Mean Velocity in miles per day |
| A.M. | | 8 | 0 | 8 | 0 | 4 | 0 | 4 | 0 | 0.84 |
| P.M. | | 4 | 4 | 6 | 0 | 1 | 2 | 0 | 2 | 0.89 |
| Mean. | | 6 | 2 | 7 | 0 | 3 | 1 | 2 | 1 | 0.86 = 0.73 |

Observations made and
Return verified by*L. N. Johnston*

(Signed)

SCOTTISH METEOROLOGICAL SOCIETY.

Observations taken at Borstorphine House, County of Mid-Lothian, in Lat. 55°56'31"N, Long. 3°16'46"W, Distance from Sea 23 miles.Height of Cistern of the Barometer above Mean Sea-Level 165 feet, above Ground 6 feet.During the MONTH of March 1902.

The Hours of Observation are of Greenwich Time.

| ELECTRICITY. | Days of Month. | BAROMETER. | | | | SELF-REGISTERING THERMOMETERS. Read Daily, at 9 P.M. | | | | HYGROMETER. | | | | Rain. | WIND. | | | | CLOUDS. | | | | THERMOMETERS under Ground. | | | | SEA. | OZONE. | GENERAL REMARKS. As to occurrence of Thunder, Lightning, Storms, Hail, Meteors, Remarkable Depression or Elevation of Barometer, Prevalent Diseases, etc. Mention the hour at which Storms, including Thunder and Lightning, began and ended. | Days of Month. | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
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| | | 9 h. A.M. | | 9 h. P.M. | | Protected in Shade, 4 feet above Ground. | | Exposed Black Bulbs. | | 9 h. A.M. | | 9 h. P.M. | | | No. of hours in which it fell. | Amount in inches. | 9 h. A.M. | | 9 h. P.M. | | 9 A.M. | | 9 P.M. | | 9 h. A.M. | | | | | | Temperature of Well at depth of feet, No. | Temperature at 1 fathom, and Density. | 0-10. | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | Barometer. * No. | Attached Thermometer | Barometer. No. | Attached Thermometer | Max. No. | Min. No. | Max. in Sun/shade No. | Min. on Grass. No. | Dry bulb. | Wet bulb. | Dry bulb. | Wet bulb. | | | | Direction. | Force | Direction. | Force | Readings of the H. Cup Anemometer. No. | Velocity (0-6) and Direction. | Amount (0-10), and Species. | Velocity (0-6) and Direction. | Amount (0-10), and Species. | SUNSHINE. Hours. | | | | | | | No. | No. | No. | 9 A.M. | 9 P.M. | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | inches. | ° | inches. | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° |

BAROMETER, "corrected Mean" at 9 A.M., minus the Correction $\dagger\dagger$ = 29.504
for Temp. (Col. 2), = 29.504
"Corrected Mean" of Barometer at 9 P.M., minus the Correction $\dagger\dagger$ = 29.517
for Temp. (Col. 4), = 29.517
Mean at Station, corrected, and at 32°, = 29.510
Correction for height, feet above Mean Sea-Level, = 153
Mean, reduced to 32°, and Sea-level, = 29.693
Highest Reading, corrected for Index error, on the 16th, = 29.996
Lowest Do. Do., on the 20th, = 28.844
Difference, or Monthly Range, = 1.154

S.R. THERMOMETER, (in shade, etc.), Highest in Month, (corrected for Index Errors), on the 17th, = 56.8
Lowest in Month, corrected for Index errors, on the 24th, = 22.6
Difference, or Monthly Range, = 34.2
"Corrected Mean" of all the Highest, (Col. 5), = 49.2
"Corrected Mean" of all the Lowest, (Col. 6), = 36.3
Difference, or Mean Daily Range, = 12.9
** Calculated Mean Temperature of Month, = 42.7
S.R. THERMOMETER, Black Bulb in Sun, Highest, (corrected for Index Errors), on the 15th, = 107.2
"Corrected Mean," (Col. 7), of Black Bulb, Max. in Sun, = 90.1
Lowest at Night, Black Bulb (corrected for Index errors), on the 24th, = 15.1
"Corrected Mean," (Col. 8), of Black Bulb, Min. on grass, = 27.1
Difference of above means or range ("exposed"), =

HYGROMETER, Mean (corrected) A.M. and P.M. Reading of Dry Bulb, (Cols. 9 and 11), = 41.8
Mean (corrected) A.M. and P.M. Reading of Wet Bulb, (Cols. 10 and 12), = 39.2
Computed Temperature of Dew-Point, = 35.9
Do. Elastic Force of Vapour, = 7.13
Do. Weight of Vapour in a Cubic Foot of Air, = 81
Relative Humidity (Saturation = 100), = 81
RAIN fell on 22 Days; Amount in Inches, = 1.07

| WIND. | | SUMMARY. | | | | | | | | | |
|------------|--|----------|----|---|----|---|----|----|----|-------------------|-------------|
| Direction. | | N | NE | E | SE | S | SW | W | NW | Calm or Variable. | Mean Force. |
| A.M. | | 2 | 0 | 2 | 0 | 1 | 0 | 22 | 2 | 2 | 1.13 |
| P.M. | | 1 | 0 | 5 | 0 | 0 | 2 | 17 | 1 | 5 | 1.09 |
| Mean. | | 2 | 0 | 3 | 0 | 1 | 1 | 19 | 2 | 3 | 1.11 |

Observations made and
Return verified by G. N. Johnston

(Signed)

SCOTTISH METEOROLOGICAL SOCIETY.

Observations taken at Borstorphine House, County of Mid-Lothian, in Lat. 55°56'31" N. Long. 3°16'46" W. Distance from Sea 2 $\frac{2}{3}$ miles.

Height of Cistern of the Barometer above Mean Sea-Level 165 feet, above Ground 6 feet.

During the MONTH of April 1902.

The Hours of Observation are of Greenwich Time.

| ELECTRICITY. | Days of Month. | BAROMETER. | | | | | | | | SELF-REGISTERING THERMOMETERS. Read Daily, at 9 P.M. | | | | HYGROMETER. | | | | Rain. | WIND. | | | | CLOUDS. | | | | THERMOMETERS under Ground. | | | SEA. | OZONE. | GENERAL REMARKS. As to occurrence of Thunder, Lightning, Storms, Hail, Meteors, Remarkable Depression or Elevation of Barometer, Prevalent Diseases, etc. Mention the hour at which Storms, including Thunder and Lightning, began and ended. | Days of Month. | | | | | | | | | | |
|--------------|----------------|--|-----------------------|------------|-----------------------|--|----------|----------------------|--------|---|-----------|-----------|-----------|--------------------------------|-------------------|------------|--------|-------|------------|--------|------------------------------------|-------------------------------|-----------------------------|-------------------------------|-----------------------------|------|----------------------------|------|------------|------|--------|---|----------------|---|--------------------------------------|--------|--------|-----|------------|-----|-----|--|--|
| | | 9 h. A.M. | | 9 h. P.M. | | Protected in Shade, & 4 feet above Ground. | | Exposed Black Bulbs. | | 9 h. A.M. | | 9 h. P.M. | | No. of hours in which it fell. | | 9 h. A.M. | | | 9 h. P.M. | | Readings of the H. Cup Anemometer. | | 9 A.M. | | 9 P.M. | | 9 h. A.M. | | | | | | | Temperature of Well at depth of 4 feet, 20. | Temperature at surface, and Density. | 9 A.M. | 9 P.M. | | | | | | |
| | | Barometer. | Attached Thermometer. | Barometer. | Attached Thermometer. | Max. | Min. | Max. | Min. | Dry bulb. | Wet bulb. | Dry bulb. | Wet bulb. | No. | Amount in inches. | Direction. | Force. | | Direction. | Force. | No. | Amount (0-10), and Direction. | Amount (0-10), and Species. | Velocity (0-6) and Direction. | Amount (0-10), and Species. | No. | 3 inches. | No. | 12 inches. | | | | | | | | | No. | 22 inches. | | | | |
| | | *No. | inches. | No. | inches. | No. | No. | No. | No. | No. | No. | No. | No. | No. | No. | No. | No. | | No. | No. | No. | No. | No. | No. | No. | No. | No. | No. | No. | | | | | | | | | No. | No. | No. | No. | | |
| | | 1 | 29.200 | 51.0 | 29.392 | 52.8 | 49.3 | 35.8 | 103.9 | 29.5 | 44.6 | 39.4 | 36.0 | 33.8 | — | W | 2 | W | 1 | — | — | — | — | — | — | — | 41.2 | 41.5 | 40.6 | — | — | 1 | | | | | | | | | | | |
| | | 2 | 29.550 | 50.8 | 29.526 | 53.8 | 51.9 | 34.0 | 108.3 | 23.6 | 42.7 | 37.3 | 41.3 | 38.0 | 10 | W | 1 | W | 2 | — | — | — | — | — | — | — | 39.5 | 41.3 | 41.5 | — | — | 2 | | | | | | | | | | | |
| | | 3 | 29.418 | 51.3 | 29.372 | 51.8 | 42.1 | 30.6 | 73.7 | 28.8 | 35.5 | 35.3 | 31.6 | 30.7 | 23 | W | 1 | W | 1 | — | — | — | — | — | — | — | 40.0 | 41.5 | 41.5 | — | — | 3 | | | | | | | | | | | |
| | | 4 | 29.388 | 49.9 | 29.700 | 53.0 | 52.2 | 30.2 | 111.9 | 20.0 | 44.3 | 39.5 | 36.1 | 34.4 | 01 | W | 2 | — | — | — | — | — | — | — | — | — | 40.0 | 40.5 | 41.3 | — | — | 4 | | | | | | | | | | | |
| | | 5 | 29.732 | 51.1 | 29.914 | 52.8 | 48.3 | 29.6 | 104.9 | 17.4 | 41.8 | 36.5 | 36.9 | 36.0 | 26 | W | 1 | W | 1 | — | — | — | — | — | — | — | 39.4 | 41.3 | 41.3 | — | — | 5 | | | | | | | | | | | |
| | | 6 | 30.036 | 50.9 | 30.176 | 52.5 | 45.5 | 35.2 | 108.2 | 24.6 | 40.5 | 31.8 | 38.1 | 36.0 | 01 | W | 1 | — | — | — | — | — | — | — | — | — | 39.8 | 41.0 | 41.2 | — | — | 6 | | | | | | | | | | | |
| | | 7 | 30.200 | 48.7 | 30.140 | 52.8 | 49.5 | 31.6 | 63.5 | 19.4 | 41.2 | 37.6 | 35.7 | 33.8 | — | W | 1 | — | — | — | — | — | — | — | — | — | 41.0 | 41.7 | 41.3 | — | — | 7 | | | | | | | | | | | |
| | | 8 | 30.086 | 49.9 | 30.072 | 52.3 | 46.1 | 31.3 | 98.7 | 17.3 | 35.6 | 33.4 | 39.9 | 32.0 | — | W | 1 | E | 1 | — | — | — | — | — | — | — | 37.4 | 41.2 | 41.4 | — | — | 8 | | | | | | | | | | | |
| | | 9 | 30.088 | 50.2 | 30.080 | 53.5 | 51.7 | 30.5 | 89.3 | 16.7 | 41.5 | 38.4 | 38.0 | 36.5 | — | — | — | — | — | — | — | — | — | — | — | — | 38.7 | 41.1 | 41.3 | — | — | 9 | | | | | | | | | | | |
| | | 10 | 30.100 | 51.2 | 30.080 | 53.5 | 52.6 | 32.3 | 99.7 | 19.8 | 40.5 | 38.4 | 38.8 | 37.9 | — | W | 1 | E | 1 | — | — | — | — | — | — | — | 39.0 | 41.4 | 41.5 | — | — | 10 | | | | | | | | | | | |
| | | 11 | 29.952 | 50.9 | 29.812 | 51.9 | 43.7 | 31.2 | 90.8 | 18.7 | 39.8 | 36.4 | 39.0 | 36.7 | 08 | E | 1 | E | 1 | — | — | — | — | — | — | — | 39.7 | 41.8 | 41.6 | — | — | 11 | | | | | | | | | | | |
| | | 12 | 29.668 | 49.9 | 29.616 | 52.6 | 43.8 | 31.5 | 73.5 | 30.3 | 38.4 | 37.5 | 39.0 | 37.9 | 07 | E | 1 | E | 1 | — | — | — | — | — | — | — | 40.5 | 41.8 | 41.6 | — | — | 12 | | | | | | | | | | | |
| | | 13 | 29.614 | 50.9 | 29.620 | 52.5 | 49.3 | 31.8 | 97.8 | 19.5 | 39.6 | 37.7 | 35.7 | 32.4 | 07 | W | 1 | W | 1 | — | — | — | — | — | — | — | 40.4 | 40.7 | 41.8 | — | — | 13 | | | | | | | | | | | |
| | | 14 | 29.750 | 50.8 | 29.722 | 53.8 | 54.7 | 31.6 | 103.9 | 25.7 | 44.5 | 43.0 | 44.5 | 42.5 | 01 | W | 1 | E | 1 | — | — | — | — | — | — | — | 40.9 | 41.8 | 42.0 | — | — | 14 | | | | | | | | | | | |
| | | 15 | 29.680 | 51.8 | 29.570 | 53.2 | 47.9 | 31.9 | 96.0 | 19.7 | 42.5 | 40.4 | 42.5 | 42.0 | 18 | E | 1 | — | — | — | — | — | — | — | — | — | 41.7 | 42.5 | 42.4 | — | — | 15 | | | | | | | | | | | |
| | | 16 | 29.684 | 51.9 | 29.742 | 51.5 | 59.4 | 37.8 | 113.8 | 25.7 | 49.0 | 44.8 | 44.0 | 40.9 | 03 | W | 1 | — | — | — | — | — | — | — | — | — | 43.3 | 42.5 | 42.1 | — | — | 16 | | | | | | | | | | | |
| | | 17 | 29.750 | 53.2 | 29.800 | 54.9 | 53.0 | 39.2 | 101.3 | 28.5 | 44.0 | 42.5 | 41.3 | 39.2 | 02 | W | 1 | W | 1 | — | — | — | — | — | — | — | 44.5 | 44.0 | 43.2 | — | — | 17 | | | | | | | | | | | |
| | | 18 | 29.800 | 53.4 | 29.750 | 56.5 | 58.2 | 32.3 | 115.5 | 20.5 | 50.7 | 45.7 | 45.4 | 41.6 | — | W | 1 | — | — | — | — | — | — | — | — | — | 43.4 | 44.0 | 44.5 | — | — | 18 | | | | | | | | | | | |
| | | 19 | 29.686 | 54.9 | 29.564 | 58.4 | 60.8 | 39.2 | 109.5 | 25.2 | 49.5 | 44.8 | 51.8 | 47.5 | 05 | E | 1 | W | 1 | — | — | — | — | — | — | — | 44.9 | 44.5 | 43.6 | — | — | 19 | | | | | | | | | | | |
| | | 20 | 29.600 | 55.5 | 29.596 | 58.3 | 60.5 | 37.6 | 122.8 | 33.2 | 53.8 | 48.2 | 50.7 | 46.8 | 01 | E | 1 | W | 1 | — | — | — | — | — | — | — | 47.1 | 45.0 | 44.2 | — | — | 20 | | | | | | | | | | | |
| | | 21 | 29.592 | 56.5 | 29.612 | 58.5 | 60.3 | 46.5 | 113.4 | 25.5 | 53.6 | 49.1 | 50.8 | 47.9 | 02 | W | 1 | E | 1 | — | — | — | — | — | — | — | 48.2 | 46.1 | 44.5 | — | — | 21 | | | | | | | | | | | |
| | | 22 | 29.250 | 57.2 | 29.248 | 58.2 | 59.5 | 40.7 | 77.6 | 42.8 | 54.2 | 50.8 | 48.5 | 45.7 | 19 | W | 1 | W | 2 | — | — | — | — | — | — | — | 49.7 | 46.5 | 45.6 | — | — | 22 | | | | | | | | | | | |
| | | 23 | 29.458 | 56.4 | 29.650 | 58.9 | 58.4 | 44.2 | 114.8 | 36.8 | 51.2 | 49.5 | 45.8 | 43.1 | 02 | W | 1 | W | 1 | — | — | — | — | — | — | — | 47.2 | 46.8 | 45.5 | — | — | 23 | | | | | | | | | | | |
| | | 24 | 29.820 | 55.9 | 29.950 | 58.5 | 57.0 | 39.1 | 118.1 | 26.9 | 51.7 | 46.4 | 46.2 | 44.5 | — | W | 2 | W | 1 | — | — | — | — | — | — | — | 47.4 | 46.8 | 45.6 | — | — | 24 | | | | | | | | | | | |
| | | 25 | 29.982 | 56.8 | 29.991 | 60.2 | 60.5 | 34.7 | 111.9 | 22.6 | 53.5 | 48.7 | 45.9 | 43.4 | — | W | 1 | E | 1 | — | — | — | — | — | — | — | 46.5 | 46.8 | 45.6 | — | — | 25 | | | | | | | | | | | |
| | | 26 | 30.042 | 56.9 | 30.042 | 57.5 | 49.8 | 39.7 | 106.3 | 32.5 | 40.5 | 40.3 | 42.8 | 40.9 | 02 | E | 1 | E | 1 | — | — | — | — | — | — | — | 46.8 | 47.7 | 46.2 | — | — | 26 | | | | | | | | | | | |
| | | 27 | 30.100 | 55.4 | 30.198 | 55.8 | 43.9 | 39.8 | 82.8 | 29.8 | 42.5 | 39.9 | 40.6 | 38.0 | — | E | 1 | E | 1 | — | — | — | — | — | — | — | 45.5 | 47.2 | 46.2 | — | — | 27 | | | | | | | | | | | |
| | | 28 | 30.200 | 54.7 | 30.200 | 56.7 | 51.2 | 36.1 | 106.8 | 21.1 | 44.2 | 40.8 | 43.8 | 40.9 | — | E | 1 | E | 1 | — | — | — | — | — | — | — | 45.4 | 46.2 | 47.3 | — | — | 28 | | | | | | | | | | | |
| | | 29 | 30.062 | 54.3 | 29.936 | 58.2 | 58.5 | 36.2 | 109.0 | 24.1 | 51.3 | 44.9 | 43.4 | 39.9 | 03 | W | 1 | W | 1 | — | — | — | — | — | — | — | 46.2 | 47.0 | 46.3 | — | — | 29 | | | | | | | | | | | |
| | | 30 | 29.784 | 55.8 | 29.522 | 57.5 | 55.8 | 42.7 | 117.3 | 34.7 | 47.5 | 44.6 | 44.4 | 40.9 | 02 | W | 1 | W | 1 | — | — | — | — | — | — | — | 47.7 | 47.8 | 46.9 | — | — | 30 | | | | | | | | | | | |
| | | 31 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | 31 | | | | | | | | | | | | |
| | | Sums. | 14158 | 215 | 15147 | 1416 | 574 | 1314 | 11617 | 1715 | 124 | 1716 | 1514 | 1415 | 7 | 4 | 5 | | | | | | | | | | 1613 | 413 | 1012 | | | | | | | | | | | | | | |
| | | Means. | 23.2968 | 81 | 23.648152 | 2 | 7.541642 | 30.501609 | 153.64 | 4.0 | 60.32815 | 1.43 | 28.5 | 22.0 | | | | | | | 114 | 82 | | | | 93.4 | 1.0 | 2.9 | | | | | | | | | | | | | | | |
| | | + Total Corrections for Instrumental Errors. | 29.776 | 52.9 | 29.788 | 55.0 | 52.535.5 | 101.525.4 | 45.1 | 41.5 | 42.039.4 | | 0.95 | 0.73 | | | | | | | 3.8 | 2.7 | | | | 43.1 | 43.7 | 43.4 | | | | | | | | | | | | | | | |
| | | + Corrections for Diurnal Range. | + 0.32 | | + 0.32 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | "Corrected Means." | 29.808 | | 29.820 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | No. of Column. | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | 24 | 25 | 26 | 27 | 28 | 29 | 30 | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | NOTATION USED IN GENERAL REMARKS. | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | a. denotes aurora. m. denotes meteor. | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | ci. cirrus. ms. meteors. | | | | | | | | | | | |
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| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | ci-s. cirro-stratus. r. rain. | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | cu. cumulus. h. r. heavy rain. | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | cu-s. cumulo-stratus. c. h. r. continued heavy rain. | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | d. dew. s. stratus. | | | | | | | | | | | |
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| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | fr. frost. s. snow. | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | h. hoar-frost. so. ha. solar halo. | | | | | | | | | | | |
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| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | hl. hail. sqs. squalls. | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | l. lightning. t. thunder. | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | li. cl. light clouds. t. s. thunder-storm. | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | li. sh. light showers. w. wind. | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | lu. co. lunar corona. g. gale of wind. | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | lu. ha. lunar halo. | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | TABLE FOR ESTIMATING FORCE OF WIND. | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | Estimated Force, 0-6. Common Designation. Estimated Force, 0-6. Common Designation. Estimated Force, 0-6. Common Designation. | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | 0 0-5 1+ Calm Very light air Light air 1-5 2- 3- Light breeze Fresh breeze Very fresh 4 5 6 Blowing hard Blowing a gale Violent gale | | | | | | | | | | | |

| | | |
|--|---|--------|
| BAROMETER, "corrected Mean" at 9 A.M., <i>minus</i> the Correction $\left\{ \begin{array}{l} \text{for Temp. (Col. 2),} = 29.808 \\ \text{for Bar. (Col. 3),} = .065 \end{array} \right\}$ | = | 29.743 |
| "Corrected Mean" of Barometer at 9 P.M., <i>minus</i> the Correction $\left\{ \begin{array}{l} \text{for Temp. (Col. 4),} = 29.820 \\ \text{for Bar. (Col. 5),} = .071 \end{array} \right\}$ | = | 29.749 |
| Mean at Station, corrected, and at 32°, | = | 29.746 |
| Correction for height, feet above Mean Sea-level, | = | .182 |
| Mean, reduced to 32°, and Sea-level, | = | 29.928 |
| Highest Reading, corrected for Index error, on the γ th day, | = | 30.232 |
| Lowest Do. Do. on the α th day, | = | 29.232 |
| Difference, or Monthly Range, | = | 1.000 |

| | | |
|---|---|-------|
| S.-R. THERMOMETER, (in shade, etc.), Highest in Month, (corrected for Index Errors), on the 19th..... | = | 60.8 |
| Lowest in Month, corrected for Index errors, on the 5th, | = | 39.6 |
| Difference, or Monthly Range, | = | 21.2 |
| "Corrected Mean" of all the Highest, (Col. 5), | = | 52.5 |
| "Corrected Mean" of all the Lowest, (Col. 6),..... | = | 35.5 |
| Difference, or Mean Daily Range, | = | 17.0 |
| ** Calculated Mean Temperature of Month, | = | 44.0 |
| S.-R. THERMOMETER, Black Bulb in Sun, Highest, (corrected for Index Errors), on the 20th..... | = | 122.8 |
| "Corrected Mean," (Col. 7), of Black Bulb, Max. in Sun, | = | 101.5 |
| Lowest at Night, Black Bulb (corrected for Index errors), on the 9th, | = | 16.7 |
| "Corrected Mean," (Col. 8), of Black Bulb, Min. on grass,..... | = | 25.4 |
| Difference of above means or range ("exposed"), | = | 76.1 |

| | | |
|--|---|------|
| HYGROMETER, Mean (corrected) A.M. and P.M. Reading of Dry Bulb, (Cols. 9 and 11), | = | 43.5 |
| Mean (corrected) A.M. and P.M. Reading of Wet Bulb, (Cols. 10 and 12), | = | 40.4 |
| ‡ Computed Temperature of Dew-Point , | = | 36.7 |
| ‡ Do. Elastic Force of Vapour , | = | .218 |
| ‡ Do. Weight of Vapour in a Cubic Foot of Air , | = | |
| ‡ Relative Humidity (Saturation = 100), | = | 76 |
| RAIN fell on 10 Days; Amount in Inches, | = | 1.43 |

| WIND. | | SUMMARY. | | | | | | | | | |
|------------|---|----------|---|----|---|----|----|----|-------------------|-------------|--------------------------------|
| Direction. | N | NE | E | SE | S | SW | W | NW | Calm or Variable. | Mean Force. | Mean Velocity in miles per day |
| A.M. | 2 | 1 | 2 | 1 | 0 | 0 | 1 | 0 | 1 | 0.95 | |
| P.M. | 1 | 1 | 2 | 0 | 2 | 1 | 8 | 2 | 2 | 0.73 | |
| Mean. | 2 | 1 | 2 | 1 | 1 | 1 | 12 | 1 | 4 | 0.84 | 0.70 |

Observations made and
Return verified by

Dr Johnston
Constonshire House

(Signed) _____

SCOTTISH METEOROLOGICAL SOCIETY.

Observations taken at Corstorphine, County of Mid Lothian, in Lat. 55°56'30" N Long 3°16'44" W Distance from Sea 2 2/3 miles.
Height of Cistern of the Barometer above Mean Sea-Level 165 feet, above Ground 6 feet. During the MONTH of May 1902.

The Hours of Observation are of Greenwich Time.

| ELECTRICITY. | Days of Month. | BAROMETER. | | | | SELF-REGISTERING THERMOMETERS. Read Daily, at 9 P.M. | | | | HYGROMETER. | | | | Rain. | WIND. | | | | CLOUDS. | | | | THERMOMETERS under Ground. | | | SEA. | OZONE. | GENERAL REMARKS. As to occurrence of Thunder, Lightning, Storms, Hail, Meteors, Remarkable Depression or Elevation of Barometer, Prevalent Diseases, etc. Mention the hour at which Storms, including Thunder and Lightning, began and ended. | Days of Month. | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
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| | | 9 h. A.M. | | 9 h. P.M. | | Protected in Shade, 4 feet above Ground. | | Exposed Black Bulbs. | | 9 h. A.M. | | 9 h. P.M. | | | 9 h. A.M. | | 9 h. P.M. | | 9 A.M. | | 9 P.M. | | 9 h. A.M. | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | Barometer. | Attached Thermometer. | Barometer. | Attached Thermometer. | Max. No. | Min. No. | Max. No. | Min. on Sun's rays or Grass. | Dry bulb. | Wet bulb. | Dry bulb. | Wet bulb. | | No. of hours in which it fell. | Direction. | Force. | Direction. | Force. | Velocity (0-6) and Direction. | Amount (0-10) and Species. | Velocity (0-6) and Direction. | Amount (0-10) and Species. | No. 3 inches. | No. 12 inches. | | | | | No. 22 inches. | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | * No. | No. | No. | No. | No. | No. | No. | No. | No. | No. | No. | No. | | No. | No. | No. | No. | No. | No. | No. | No. | No. | No. | No. | | | | | No. | No. | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | inches. | ° | inches. | ° | ° | ° | ° | ° | ° | ° | ° | ° | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

NOTATION USED IN GENERAL REMARKS.

| | | | |
|---------|-----------------|----------|-----------------------|
| a. | denotes aurora. | m. | denotes meteor. |
| ci. | cirrus. | ms. | meteors. |
| ci.-cu. | cirro-cumulus. | n. | nimbus. |
| ci.-s. | cirro-stratus. | r. | rain. |
| cu. | cumulus. | h. r. | heavy rain. |
| cu.-s. | cumulo-stratus. | c. h. r. | continued heavy rain. |
| d. | dew. | s. | stratus. |
| f. | fog. | sc. | squall. |
| fr. | frost. | s. | sleet. |
| h.-fr. | hoar-frost. | s. | snow. |
| h. | haze. | so. ha. | solar halo. |
| h. d. | heavy dew. | sq. | squall. |
| hl. | hail. | sq. | squalls. |
| l. | lightning. | t. | thunder. |
| li. cl. | light clouds. | t. s. | thunder-storm. |
| li. sh. | light showers. | w. | wind. |
| lu. co. | lunar corona. | g. | gale of wind. |
| lu. ha. | lunar halo. | | |

TABLE FOR ESTIMATING FORCE OF WIND.

| Estimated Force, 0-6. | Common Designation. | Estimated Force, 0-6. | Common Designation. | Estimated Force, 0-6. | Common Designation. |
|-----------------------|---------------------|-----------------------|---------------------|-----------------------|---------------------|
| 0 | Calm | 1-5 | Light breeze | 4 | Blowing hard |
| 0.5 | Very light air | 2 | Fresh breeze | 5 | Blowing a gale |
| 1 | Light air | 3 | Very fresh | 6 | Violent gale |

BAROMETER, "corrected Mean" at 9 A.M., minus the Correction \ddagger = 29.732
for Temp. (Col. 2), = 29.803.....0.071.....
"Corrected Mean" of Barometer at 9 P.M., minus the Correction \ddagger = 29.749
for Temp. (Col. 4), = 29.824.....0.075.....
Mean at Station, corrected, and at 32°,.....29.740
Correction for height, feet above Mean Sea-level,.....1.82
Mean, reduced to 32°, and Sea-level,.....29.922
Highest Reading, corrected for Index error, on the 8th.....20.232
Lowest Do. Do., on the 17th.....29.014
Difference, or Monthly Range,.....1.218

S.R. THERMOMETER, (in shade, etc.), Highest in Month, (corrected for Index Errors), on the 23rd.....65.2
Lowest in Month, corrected for Index errors, on the 21st.....31.1
Difference, or Monthly Range,.....34.1
"Corrected Mean" of all the Highest, (Col. 5),.....53.4
"Corrected Mean" of all the Lowest, (Col. 6),.....39.1
Difference, or Mean Daily Range,.....14.3
** Calculated Mean Temperature of Month,.....46.2
S.R. THERMOMETER, Black Bulb in Sun, Highest, (corrected for Index Errors), on the 23rd.....126.8
"Corrected Mean," (Col. 7), of Black Bulb, Max. in Sun,.....106.4
Lowest at Night, Black Bulb (corrected for Index errors), on the 21st.....18.5
"Corrected Mean," (Col. 8), of Black Bulb, Min. on grass,.....29.8
Difference of above means or range ("exposed"),.....76.6

HYGROMETER, Mean (corrected) A.M. and P.M. Reading of Dry Bulb, (Cols. 9 and 11),.....45.5
Mean (corrected) A.M. and P.M. Reading of Wet Bulb, (Cols. 10 and 12),.....42.0
†† Computed Temperature of Dew-Point,.....37.9
†† Do. Elastic Force of Vapour,.....2.29
†† Do. Weight of Vapour in a Cubic Foot of Air,.....—
†† Relative Humidity (Saturation = 100),.....75
RAIN fell on 24 Days; Amount in Inches,.....2.94

| WIND. | | | | | | | | | | | | SUMMARY. | | | |
|------------|---|----|----|----|---|----|----|----|-------------------|-------------|--------------------------------|----------|--|--|--|
| Direction. | N | NE | E | SE | S | SW | W | NW | Calm or Variable. | Mean Force. | Mean Velocity in miles per day | | | | |
| A.M. | 9 | 1 | 9 | 0 | 0 | 0 | 11 | 0 | 1 | 1.21 | | | | | |
| P.M. | 2 | 0 | 10 | 0 | 1 | 0 | 9 | 0 | 9 | 0.76 | | | | | |
| Mean. | 6 | 0 | 10 | 0 | 0 | 0 | 10 | 0 | 5 | 0.98 | 0.96 | | | | |

SCOTTISH METEOROLOGICAL SOCIETY.

Observations taken at Corstorphine House, County of Mid Lothian, in Lat. 55° 51' 31" N, Long. 3° 16' 46" W, Distance from Sea 22 miles.

Height of Cistern of the Barometer above Mean Sea-Level 165 feet, above Ground 6 feet.

During the MONTH of ~~May~~ June 1902

The Hours of Observation are of Greenwich Time.

[illegible]

BAROMETER, "corrected Mean" at 9 A.M., minus the Correction †† } = 29.741
for Temp. (Col. 2), = 29.818 - .077 }

"Corrected Mean" of Barometer at 9 P.M., minus the Correction †† }
for Temp. (Col. 4), = 29.840 — .049 } = 29.791

Mean at Station, corrected, and at 32°,.....29.718 29.726

Correction for height, feet above Mean Sea-level,..... 187 187

Mean, reduced to 32°, and Sea-level, 26.949 24.918

Highest Reading, corrected for Index error, on the 27th,..... 30.30017

Lowest Do. Do., on the 6th,..... = 29.400

Difference, or Monthly Range, = 0.50077

S.-R. THERMOMETER, (in shade, etc.), Highest in Month, (corrected for 80.3
Index Errors), on the 9th, = 38.8

Lowest in Month, corrected for Index errors, on the 11 th, = 28.2

Difference, or Monthly Range, = 25.6

"Corrected Mean" of all the Highest, (Col. 5), = 50.1

"Corrected Mean" of all the Lowest, (Col. 6),..... = 46.6

Difference, or **Mean Daily Range**, = 12.8

** Calculated Mean Temperature of Month, = 59.8

S.-R. THERMOMETER, Black Bulb in Sun, Highest, (corrected for Index Errors), on the 24th,..... = 126.4

"Corrected Mean," (Col. 7), of Black Bulb, Max. in Sun, = 103.8

Lowest at Night, Black Bulb (corrected for Index errors), on the 9th, = 26.4

"Corrected Mean," (Col. 8), of Black Bulb, Min. on grass,..... = 38.9

Difference of above means or range ("exposed"), = 64.9

HYGROMETER, Mean (corrected) A.M. and P.M. Reading of Dry Bulb, (Cols. 9 and 11),

Mean (corrected) A.M. and P.M. Reading of Wet Bulb (C) = 57.0

10 and 12), = 18.5-

‡‡ Computed Temperature of Dew-Point, = 43

‡‡ Do. **Elastic Force of Vapour**, = 311

‡ Do. Weight of Vapour in a Cubic Foot of Air, =

Relative Humidity (Saturation = 100), = 8

| WIND. | | SUMMARY. | | | | | | | | | |
|------------|---|----------|----|----|---|----|---|----|-------------------|-------------|--------------------------------|
| Direction. | N | NE | E | SE | S | SW | W | NW | Calm or Variable. | Mean Force. | Mean Velocity in miles per day |
| A.M. | 1 | 0 | 18 | 0 | 1 | 0 | 6 | 1 | 3 | 1.23 | |
| P.M. | 0 | 0 | 14 | 0 | 1 | 0 | 3 | 1 | 4 | 0.73 | |
| Mean. | 1 | 0 | 16 | 0 | 1 | 0 | 4 | 1 | 7 | 0.98 | = 0.87 |

Observations made and
Return verified by

Dr Johnston
pro A. Hume.

(Signed)

SCOTTISH METEOROLOGICAL SOCIETY.

Observations taken at Corstorphine House, County of Mid-Lothian, in Lat. 55° 56' 31" N, Long. 3° 16' 46" W, Distance from Sea 2 2/3 miles.Height of Cistern of the Barometer above Mean Sea-Level 165 feet, above Ground 6 feet.During the MONTH of July 1902.

The Hours of Observation are of Greenwich Time.

| ELECTRICITY. | Days of Month. | BAROMETER. | | | | SELF-REGISTERING THERMOMETERS. Read Daily, at 9 P.M. | | | | HYGROMETER. | | | | Rain. | | WIND. | | | | CLOUDS. | | | | THERMOMETERS under Ground. | | | SEA. | OZONE. | GENERAL REMARKS. As to occurrence of Thunder, Lightning, Storms, Hail, Meteors, Remarkable Depression or Elevation of Barometer, Prevalent Diseases, etc. Mention the hour at which Storms, including Thunder and Lightning, began and ended. | Days of Month. | | | |
|---|----------------|----------------------------------|-------------------------------|----------------------------------|-------------------------------|---|----------------------|--|-----------------------------------|---------------------------|---------------------------|---------------------------|---------------------------|---|-------------------------|------------|--------|------------|--------|--|--|--------------------------------------|--|--------------------------------------|--------------------|--------------------|-------|--------|--|----------------|--------------------|---|----|
| | | 9 h. A.M. | | 9 h. P.M. | | Protected in Shade, 4 feet above Ground. | | Exposed Black Bulbs. | | 9 h. A.M. | | 9 h. P.M. | | No. of hours in which it fell. | Amount in inches. | 9 h. A.M. | | 9 h. P.M. | | Readings of the H. Cup Anemometer. No. ——— 9 h. A.M. | 9 A.M. | | 9 P.M. | | 9 h. A.M. | | | | | | | | |
| | | Barometer. No. ——— inches. | Attached Thermometer. ° | Barometer. No. ——— inches. | Attached Thermometer. ° | Max. No. ——— ° | Min. No. ——— ° | Max. in Sun's rays. No. ——— ° | Min. on Grass. No. ——— ° | Dry bulb. No. ——— ° | Wet bulb. No. ——— ° | Dry bulb. No. ——— ° | Wet bulb. No. ——— ° | | | Direction. | Force. | Direction. | Force. | | Velocity (0—10), and Species. | Amount (0—10), and Species. | Velocity (0—10), and Species. | Amount (0—10), and Species. | No. ——— inches. | No. ——— inches. | | | | | No. ——— inches. | | |
| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1 | 29.878 | 62.2 | 30.018 | 59.5 | 60.8 | 47.5 | 11.4 | 43.6 | 50.7 | 46.7 | 47.6 | 45.8 | 0.2 | E | 1 | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | 1 | | |
| 2 | 30.100 | 57.9 | 30.088 | 59.5 | 61.8 | 39.4 | 11.0 | 35.4 | 54.6 | 48.7 | 50.8 | 49.2 | — | S | 5 | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | 2 | |
| 3 | 30.000 | 60.2 | 29.890 | 60.9 | 63.1 | 49.6 | 6.2 | 38.3 | 62.9 | 55.9 | 58.2 | 54.8 | 0.9 | W | 1 | SW | 1 | — | — | — | — | — | — | — | — | — | — | — | — | — | — | 3 | |
| 4 | 29.772 | 61.8 | 29.950 | 61.7 | 67.4 | 52.6 | 11.5 | 49.4 | 60.9 | 58.1 | 52.0 | 51.0 | 0.2 | W | 1 | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | 4 | |
| 5 | 30.094 | 61.4 | 30.050 | 62.0 | 69.0 | 46.6 | 11.2 | 35.9 | 60.7 | 52.9 | 56.5 | 54.6 | — | W | 5 | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | 5 | |
| 6 | 29.950 | 61.8 | 29.916 | 63.5 | 69.3 | 46.8 | 12.5 | 37.8 | 64.4 | 57.8 | 58.8 | 55.4 | — | W | 1 | W | 1 | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | 6 |
| 7 | 29.800 | 62.3 | 29.972 | 62.0 | 65.3 | 54.0 | 12.0 | 47.1 | 68.8 | 54.5 | 54.5 | 51.3 | — | W | 1.5 | W | 1 | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | 7 |
| 8 | 29.946 | 61.4 | 29.800 | 62.4 | 61.2 | 52.5 | 8.4 | 7.4 | 57.1 | 54.8 | 57.8 | 56.3 | 1.6 | W | 5 | W | 1 | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | 8 |
| 9 | 29.640 | 62.1 | 29.418 | 61.6 | 62.3 | 52.1 | 11.0 | 47.6 | 60.0 | 57.6 | 52.4 | 50.6 | 1.1 | W | 1 | W | 1 | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | 9 |
| 10 | 29.400 | 60.8 | 29.718 | 59.6 | 57.8 | 49.0 | 10.5 | 42.5 | 50.2 | 49.3 | 49.0 | 45.0 | 1.0 | — | — | W | 1 | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | 10 |
| 11 | 29.950 | 60.1 | 30.018 | 59.0 | 62.4 | 53.5 | 12.6 | 31.5 | 51.8 | 46.4 | 51.9 | 48.2 | 0.3 | W | 1 | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | 11 |
| 12 | 29.942 | 59.3 | 29.772 | 60.9 | 68.2 | 43.8 | 7.4 | 31.0 | 53.2 | 50.8 | 57.6 | 55.9 | 2.4 | W | 1 | W | 1 | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | 12 |
| 13 | 29.816 | 61.5 | 29.850 | 62.3 | 61.6 | 53.2 | 11.8 | 44.7 | 58.4 | 53.6 | 59.5 | 57.0 | 0.2 | W | 2 | W | 1 | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | 13 |
| 14 | 29.850 | 62.4 | 29.872 | 63.6 | 66.7 | 57.8 | 8.7 | 51.6 | 61.2 | 58.9 | 61.6 | 59.0 | — | W | 5 | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | 14 |
| 15 | 29.812 | 63.7 | 29.900 | 62.5 | 68.7 | 58.9 | 12.4 | 45.5 | 63.2 | 60.5 | 55.8 | 52.6 | — | W | 1 | W | 1 | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | 15 |
| 16 | 29.928 | 60.9 | 29.800 | 61.8 | 66.3 | 48.9 | 11.0 | 36.5 | 60.4 | 56.2 | 53.2 | 51.4 | — | W | 1 | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | 16 |
| 17 | 29.800 | 60.8 | 29.850 | 60.5 | 62.4 | 51.8 | 11.8 | 40.3 | 58.7 | 52.9 | 52.3 | 49.1 | — | W | 1 | W | 1 | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | 17 |
| 18 | 29.936 | 59.5 | 29.972 | 59.4 | 60.9 | 48.4 | 12.1 | 42.7 | 52.3 | 49.5 | 51.9 | 50.0 | — | W | 1 | W | 3 | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | 18 |
| 19 | 29.880 | 68.4 | 29.892 | 58.5 | 61.9 | 46.3 | 10.9 | 43.7 | 54.8 | 50.0 | 48.5 | 47.4 | 0.9 | W | 1 | E | 1 | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | 19 |
| 20 | 29.938 | 57.5 | 29.924 | 57.2 | 58.8 | 44.3 | 11.0 | 35.0 | 55.0 | 48.8 | 49.3 | 46.2 | 0.2 | W | 1 | W | 1 | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | 20 |
| 21 | 29.900 | 56.8 | 29.786 | 56.9 | 60.8 | 46.5 | 11.9 | 43.7 | 54.9 | 48.7 | 50.4 | 47.8 | 1.0 | W | 5 | W | 5 | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | 21 |
| 22 | 29.738 | 56.5 | 29.778 | 56.5 | 58.8 | 48.9 | 12.3 | 39.5 | 51.2 | 49.4 | 51.7 | 48.4 | 0.1 | W | 1 | E | 5 | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | 22 |
| 23 | 29.776 | 56.8 | 29.724 | 56.5 | 64.8 | 47.6 | 12.7 | 41.6 | 55.5 | 51.9 | 50.7 | 50.0 | 4.3 | — | — | E | 1 | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | 23 |
| 24 | 29.630 | 55.5 | 29.650 | 56.2 | 61.2 | 45.8 | 12.7 | 42.3 | 48.6 | 46.8 | 49.3 | 46.7 | 0.2 | E | 5 | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | 24 |
| 25 | 29.700 | 55.6 | 29.712 | 55.8 | 62.4 | 38.4 | 12.0 | 37.3 | 51.7 | 47.2 | 47.5 | 45.8 | 3.8 | W | 1 | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | 25 |
| 26 | 29.362 | 55.6 | 29.128 | 55.6 | 62.7 | 39.8 | 6.4 | 31.2 | 53.1 | 52.3 | 50.9 | 50.4 | 9.0 | E | 1 | E | 5 | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | 26 |
| 27 | 29.350 | 55.3 | 29.640 | 55.5 | 62.2 | 48.5 | 12.1 | 42.3 | 50.7 | 46.8 | 49.7 | 46.4 | 0.6 | W | 1 | E | 1 | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | 27 |
| 28 | 29.814 | 55.1 | 29.812 | 55.9 | 63.9 | 43.5 | 12.0 | 31.2 | 53.8 | 49.1 | 53.7 | 51.4 | 0.5 | E | 1 | W | 1 | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | 28 |
| 29 | 29.784 | 56.2 | 29.800 | 56.9 | 63.5 | 45.7 | 12.3 | 41.5 | 57.9 | 52.4 | 54.9 | 49.3 | 0.7 | W | 2 | W | 2 | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | 29 |
| 30 | 29.842 | 55.9 | 29.912 | 56.7 | 62.7 | 46.1 | 12.2 | 34.2 | 52.7 | 51.8 | 52.0 | 49.5 | 0.0 | W | 1 | W | 5 | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | 30 |
| 31 | 29.980 | 55.8 | 29.918 | 56.9 | 60.9 | 47.5 | 11.5 | 40.8 | 53.0 | 49.2 | 51.8 | 49.7 | 0.0 | E | 5 | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | 31 |
| Sums. | 29.7 | 12.16 | 29.10 | 12.17 | 12.16 | 12.16 | 12.16 | 12.16 | 12.16 | 12.16 | 12.16 | 12.16 | 29.2 | 4 | 2 | — | — | — | — | — | — | — | — | — | 16.1 | 14.1 | 12.15 | — | — | — | — | — | — |
| Means. | 29.488 | 59.0 | 29.590 | 59.0 | 60.8 | 48.4 | 12.16 | 42.3 | 51.2 | 49.4 | 51.7 | 48.4 | 0.1 | W | 1 | E | 5 | — | — | — | — | — | — | — | 16.1 | 14.1 | 12.15 | — | — | — | — | — | — |
| + Total Corrections for Instrumental Errors. | 8.20 | 8.20 | 8.20 | 8.20 | 8.20 | 8.20 | 8.20 | 8.20 | 8.20 | 8.20 | 8.20 | 8.20 | 8.20 | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| + Corrections for Diurnal Range. | 8.32 | 8.32 | 8.32 | 8.32 | 8.32 | 8.32 | 8.32 | 8.32 | 8.32 | 8.32 | 8.32 | 8.32 | 8.32 | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| "Cor- rected Means." | 29.529 | 29.529 | 29.529 | 29.529 | 29.529 | 29.529 | 29.529 | 29.529 | 29.529 | 29.529 | 29.529 | 29.529 | 29.529 | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| No. of Column. | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | 24 | 25 | 26 | 27 | 28 | 29 | 30 | 31 | — | |

NOTATION USED IN GENERAL REMARKS.

| | | | |
|---------|-----------------|----------|-----------------------|
| a. | denotes aurora. | m. | denotes meteor. |
| ci. | cirrus. | ms. | meteors. |
| ci.-cu. | cirro-cumulus. | n. | nimbus. |
| ci.-s. | cirro-stratus. | r. | rain. |
| cu. | cumulus. | h. r. | heavy rain. |
| cu.-s. | cumulo-stratus. | s. h. r. | continued heavy rain. |
| d. | dew. | s. | stratus. |
| f. | fog. | sc. | scud. |
| fr. | frost. | s. | sleet. |
| h.-fr. | hoar-frost. | s. | solar halo. |
| h. | haze. | so. ha. | snow. |
| h. d. | heavy dew. | sq. | squall. |
| hl. | hail. | sq. | squalls. |
| l. | lightning. | t. | thunder. |
| li. cl. | light clouds. | t. s. | thunder-storm. |
| li. sh. | light showers. | w. | wind. |
| lu. co. | lunar corona. | w. | wind. |
| lu. ha. | lunar halo. | g. | gale of wind. |

SCOTTISH METEOROLOGICAL SOCIETY.

Observations taken at Corstorphine House, County of Mid-Lothian, in Lat. 55°56'31"N, Long. 3°16'46"W, Distance from Sea 2 2/3 miles.
Height of Cistern of the Barometer above Mean Sea-Level 165 feet, above Ground 6 feet. During the MONTH of August 1902.

The Hours of Observation are of Greenwich Time.

| ELECTRICITY. | Days of Month. | BAROMETER. | | | | SELF-REGISTERING THERMOMETERS. Read Daily, at 9 P.M. | | | | HYGROMETER. | | | | Rain. | WIND. | | | | CLOUDS. | | | | THERMOMETERS under Ground. | | | SEA. | OZONE. | GENERAL REMARKS. As to occurrence of Thunder, Lightning, Storms, Hail, Meteors, Remarkable Depression or Elevation of Barometer, Prevalent Diseases, etc. Mention the hour at which Storms, including Thunder and Lightning, began and ended. | Days of Month. | | | | | | |
|--|----------------|------------|--------------------------|------------|--------------------------|---|-------|-------------------------|-------|-------------|-----------|-----------|-----------|-------|---|-------------------------|-----------|------------|---|------------|-----------|--|--------------------------------------|--|--------------------------------------|------|--------|--|----------------|------------|--------------|------------|---------------|------------|---------------|
| | | 9 h. A.M. | | 9 h. P.M. | | Protected in Shade, 4 feet above Ground. | | Exposed Black Bulbs. | | 9 h. A.M. | | 9 h. P.M. | | | 9 h. A.M. | | 9 h. P.M. | | 9 A.M. | | 9 P.M. | | 9 h. A.M. | | | | | | | | | | | | |
| | | Barometer. | Attached Thermometer. | Barometer. | Attached Thermometer. | Max. | Min. | Max. | Min. | Dry bulb. | Wet bulb. | Dry bulb. | Wet bulb. | | No. of hours in which it fell. | Amount in inches. | 9 h. A.M. | 9 h. P.M. | Readings of the H. Cup Anemometer. No. | 9 h. A.M. | 9 h. P.M. | Velocity (0-10), and Species. | Amount (0-10), and Species. | Velocity (0-10), and Species. | Amount (0-10), and Species. | | | | | No. | 3 inches. | No. | 12 inches. | No. | 22 inches. |
| | | * No. | No. | No. | No. | No. | No. | No. | No. | No. | No. | No. | No. | | No. | No. | No. | Direction. | Force. | Direction. | Force. | Direction. | Force. | Direction. | Force. | | | | | Direction. | Force. | Direction. | Force. | Direction. | Force. |
| | | inches. | ° | inches. | ° | ° | ° | ° | ° | ° | ° | ° | ° | | | | | | | | | | | | | | | | | | | | | | |
| | 1 | 30.000 | 55.6 | 29.874 | 56.7 | 64.0 | 47.9 | 117.5 | 40.5 | 53.4 | 50.4 | 53.2 | 50.6 | 0.8 | W | 1 | W | 1.5 | — | — | 27 | 4 | 53.8 | 54.2 | 56.6 | | | | | | | | 1 | | |
| | 2 | 29.650 | 56.2 | 29.578 | 56.7 | 64.8 | 46.5 | 130.2 | 42.8 | 53.2 | 54.7 | 53.4 | 51.5 | 0.4 | W | 1 | W | 1 | 27 | 10 | 27 | 10 | 56.4 | 54.3 | 57.1 | | | | | | | | 2 | | |
| | 3 | 29.560 | 56.4 | 29.600 | 56.9 | 62.8 | 46.5 | 121.5 | 33.4 | 58.9 | 53.7 | 52.0 | 50.9 | 2.0 | W | 1 | E | 1.5 | 27 | 3 | 27 | 8 | 56.5 | 57.4 | 56.8 | | | | | | | | 3 | | |
| | 4 | 29.678 | 56.3 | 29.764 | 56.8 | 66.3 | 48.9 | 126.2 | 42.4 | 56.9 | 52.7 | 52.1 | 50.7 | 0.1 | W | 1.5 | E | 1.5 | 27 | 7 | — | — | 57.5 | 57.3 | 56.5 | | | | | | | | 4 | | |
| | 5 | 29.850 | 56.4 | 29.900 | 56.3 | 58.7 | 49.9 | 93.8 | 44.1 | 52.8 | 50.0 | 51.5 | 49.0 | — | E | 1 | E | 1.5 | 27 | 10 | 27 | 5 | 57.0 | 57.9 | 57.2 | | | | | | | | 5 | | |
| | 6 | 29.842 | 56.8 | 29.772 | 56.5 | 65.8 | 47.4 | 66.8 | 37.0 | 52.3 | 49.6 | 51.2 | 49.0 | 0.3 | E | 1 | E | 1 | 27 | 10 | 27 | 10 | 56.0 | 57.5 | 57.2 | | | | | | | | 6 | | |
| | 7 | 29.744 | 56.3 | 29.784 | 54.9 | 52.9 | 48.6 | 79.8 | 44.2 | 49.5 | 48.3 | 48.7 | 47.0 | 0.2 | E | 1 | E | 1 | n | 10 | 27 | 10 | 54.3 | 56.4 | 56.2 | | | | | | | | 7 | | |
| | 8 | 29.816 | 56.7 | 29.836 | 56.5 | 60.8 | 47.4 | 117.9 | 41.1 | 52.2 | 47.6 | 50.4 | 47.7 | — | E | 1 | W | 1.5 | cast | 5 | — | — | 54.5 | 58.5 | 56.0 | | | | | | | | 8 | | |
| | 9 | 29.920 | 56.9 | 29.846 | 56.7 | 63.9 | 47.8 | 134.1 | 36.7 | 56.4 | 50.1 | 51.7 | 46.8 | 0.6 | W | 1.5 | W | 1 | — | — | 27 | 8 | 57.3 | 56.2 | 56.2 | | | | | | | | 9 | | |
| | 10 | 29.850 | 56.4 | 29.850 | 56.4 | 59.5 | 47.4 | 121.6 | 35.5 | 52.2 | 48.9 | 48.0 | 43.8 | 0.3 | W | 1 | W | 1 | — | — | — | — | 56.1 | 57.2 | 56.5 | | | | | | | | 10 | | |
| | 11 | 29.848 | 56.5 | 29.828 | 56.6 | 62.5 | 38.8 | 120.7 | 26.5 | 56.0 | 50.4 | 48.3 | 47.0 | — | W | 2 | W | 1.5 | 27 | 8 | — | — | 54.3 | 56.5 | 56.6 | | | | | | | | 11 | | |
| | 12 | 29.880 | 56.7 | 29.878 | 56.1 | 64.8 | 43.7 | 120.8 | 27.4 | 51.7 | 47.8 | 48.0 | 46.9 | — | W | 1.5 | W | 1.5 | — | — | — | — | 53.0 | 56.3 | 56.8 | | | | | | | | 12 | | |
| | 13 | 29.828 | 56.5 | 29.800 | 56.9 | 60.8 | 42.9 | 112.3 | 34.2 | 51.4 | 48.8 | 57.4 | 50.5 | 0.4 | E | 1 | E | 1.5 | — | — | ci | 5 | 53.5 | 56.2 | 53.8 | | | | | | | | 13 | | |
| | 14 | 29.800 | 57.3 | 29.844 | 57.2 | 65.8 | 49.8 | 120.5 | 43.3 | 54.2 | 52.3 | 52.9 | 52.7 | — | E | 1 | — | — | 27 | 10 | 27 | 8 | 56.7 | 56.6 | 56.2 | | | | | | | | 14 | | |
| | 15 | 29.834 | 58.2 | 29.774 | 60.4 | 71.2 | 47.4 | 115.2 | 55.9 | 61.7 | 58.0 | 57.1 | 54.7 | — | W | 1 | — | — | ci | 5 | — | — | 57.6 | 57.5 | 56.8 | | | | | | | | 15 | | |
| | 16 | 29.732 | 60.2 | 29.724 | 59.0 | 63.4 | 49.8 | 112.5 | 40.4 | 60.7 | 56.6 | 52.8 | 51.5 | — | W | 1 | E | 1 | — | — | 27 | 10 | 58.7 | 58.3 | 57.4 | | | | | | | | 16 | | |
| | 17 | 29.676 | 56.4 | 29.550 | 58.7 | 56.9 | 50.4 | 73.5 | 45.1 | 51.9 | 49.0 | 53.0 | 52.4 | 3.3 | E | 1 | E | 1.5 | 27 | 10 | W | 10 | 58.9 | 57.6 | 57.4 | | | | | | | | 17 | | |
| | 18 | 29.450 | 59.6 | 29.400 | 60.5 | 62.4 | 51.8 | 109.0 | 46.0 | 60.6 | 57.8 | 54.7 | 53.4 | 4.7 | W | 1.5 | — | — | — | — | W | 10 | 57.5 | 57.1 | 56.9 | | | | | | | | 18 | | |
| | 19 | 29.494 | 57.4 | 29.578 | 59.5 | 56.2 | 49.3 | 98.5 | 44.9 | 50.7 | 49.8 | 49.7 | 48.6 | 0.2 | S | 1 | — | — | W | 10 | — | — | 53.4 | 57.2 | 57.1 | | | | | | | | 19 | | |
| | 20 | 29.532 | 56.9 | 29.750 | 59.8 | 63.7 | 45.2 | 122.6 | 34.4 | 57.6 | 53.9 | 49.4 | 46.9 | 1.0 | W | 1 | — | — | 27 | 8 | — | — | 54.5 | 56.3 | 56.5 | | | | | | | | 20 | | |
| | 21 | 29.924 | 56.0 | 29.964 | 60.3 | 58.9 | 45.3 | 112.4 | 40.0 | 52.9 | 45.3 | 51.0 | 48.6 | 0.4 | W | 1.5 | — | — | — | — | 27 | 8 | 54.5 | 56.4 | 56.5 | | | | | | | | 21 | | |
| | 22 | 29.882 | 59.5 | 29.676 | 62.5 | 68.1 | 50.8 | 123.1 | 46.7 | 59.5 | 56.7 | 59.6 | 56.2 | 0.5 | W | 1 | SW | 3 | 27 | 8 | 27 | 10 | 56.6 | 56.7 | 56.8 | | | | | | | | 22 | | |
| | 23 | 29.625 | 61.5 | 29.645 | 63.8 | 70.3 | 56.5 | 125.2 | 46.8 | 60.1 | 56.3 | 56.8 | 54.7 | — | W | 1 | W | 1 | 27 | 6 | cast | 4 | 57.5 | 57.0 | 56.8 | | | | | | | | 23 | | |
| | 24 | 29.636 | 61.7 | 29.476 | 62.5 | 68.1 | 51.6 | 129.1 | 40.3 | 61.7 | 55.9 | 54.0 | 51.9 | — | W | 1 | W | 1 | — | — | — | — | 60.0 | 58.5 | 57.4 | | | | | | | | 24 | | |
| | 25 | 29.780 | 59.8 | 29.864 | 63.0 | 65.0 | 49.2 | 122.9 | 38.6 | 59.5 | 52.9 | 49.2 | 48.8 | — | W | 1 | W | 1 | — | — | — | — | 58.2 | 58.5 | 57.3 | | | | | | | | 25 | | |
| | 26 | 29.874 | 61.5 | 29.812 | 64.2 | 70.8 | 45.9 | 132.7 | 32.8 | 63.9 | 57.0 | 49.5 | 48.2 | — | W | 1 | — | — | — | — | — | — | 56.7 | 57.8 | 57.4 | | | | | | | | 26 | | |
| | 27 | 29.750 | 61.9 | 29.800 | 63.8 | 70.7 | 40.2 | 126.8 | 31.8 | 63.7 | 58.1 | 48.9 | 45.3 | 0.3 | — | — | — | — | — | — | — | — | 54.7 | 57.9 | 57.4 | | | | | | | | 27 | | |
| | 28 | 29.800 | 62.0 | 29.934 | 63.9 | 71.3 | 43.5 | 125.0 | 37.8 | 58.5 | 54.3 | 51.9 | 49.8 | 0.4 | W | 1 | — | — | — | — | ci | 5 | 57.5 | 57.8 | 57.4 | | | | | | | | 28 | | |
| | 29 | 29.726 | 62.2 | 29.738 | 61.7 | 62.6 | 49.5 | 115.4 | 43.5 | 56.4 | 51.8 | 48.4 | 46.5 | — | W | 1 | W | 1.5 | — | — | — | — | 57.5 | 58.0 | 57.5 | | | | | | | | 29 | | |
| | 30 | 29.724 | 59.9 | 29.732 | 61.2 | 59.6 | 39.5 | 114.9 | 27.7 | 53.6 | 48.7 | 48.2 | 46.3 | — | E | 1 | — | — | — | — | — | — | 52.7 | 57.5 | 57.3 | | | | | | | | 30 | | |
| | 31 | 29.712 | 59.7 | 29.700 | 60.8 | 60.0 | 37.6 | 111.5 | 28.5 | 53.4 | 50.6 | 51.9 | 50.1 | 0.2 | W | 1.5 | W | 1.5 | ci | 8 | — | — | 53.1 | 56.5 | 56.8 | | | | | | | | 31 | | |
| Sums. | | 2215.8 | 7.15 | 2313.1 | 15.16 | 1315.1 | 19.18 | 93.15 | 14.47 | 1316.1 | 16.12 | 1612.1 | 15.16 | 6 | | 2 | | 5 | | | | | 1813 | 2213 | 2114 | | | | | | | | | | |
| Means. | | 23 | 117 | 244.6 | 47.3 | 281.9 | 10.4 | 721.9 | 33.1 | 826.5 | 192.7 | 67.1 | 56.9 | 16.1 | | 32.5 | | 18.5 | | | | | 193.5 | 5.1 | 27 | | | | | | | | | | |
| + Total Corrections for Instrumental Errors. | | 29.755 | 57.9 | 29.757 | 59.1 | 63.4 | 47.0 | 114.7 | 38.5 | 56.2 | 52.2 | 51.8 | 49.6 | | | 1.05 | | 0.59 | | | | | 56.2 | 57.3 | 56.9 | | | | | | | | | | |
| + Corrections for Diurnal Range. | | + 0.32 | | + 0.32 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| "Corrected Means." | | 29.787 | | 29.789 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| No. of Column. | | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | 24 | 25 | 26 | 27 | 28 | 29 | 30 | | | | |

| NOTATION USED IN GENERAL REMARKS. | | | | | |
|-----------------------------------|-------------------|----------|-------------------------|--|--|
| a. | denotes aurora. | m. | denotes meteor. | | |
| ci. | " cirrus. | ms. | " meteors. | | |
| ci.-cu. | " cirro-cumulus. | th. | " nimbus. | | |
| ci.-s. | " cirro-stratus. | r. | " rain. | | |
| cu. | " cumulus. | h. r. | " heavy rain. | | |
| cu.-s. | " cumulo-stratus. | c. h. r. | " continued heavy rain. | | |
| d. | " dew. | s. | " stratus. | | |
| f. | " fog. | sc. | " scud. | | |
| fr. | " frost. | s. | " sleet. | | |
| h.-fr. | " hoar-frost. | s. | " snow. | | |
| h. | " haze. | so. ha. | " solar halo. | | |
| hl. | " hail. | sq. | " squall. | | |
| l. | " lightning. | sqs. | " squalls. | | |
| li. cl. | " light clouds. | t. | " thunder. | | |
| li. sh. | " light showers. | t. s. | " thunder-storm. | | |
| lu. co. | " lunar corona. | w. | " wind. | | |
| ld. ha. | " lunar halo. | g. | " gale of wind. | | |

| TABLE FOR ESTIMATING FORCE OF WIND. | | | | | |
|-------------------------------------|---------------------|-----------------------|---------------------|-----------------------|---------------------|
| Estimated Force, 0-6. | Common Designation. | Estimated Force, 0-6. | Common Designation. | Estimated Force, 0-6. | Common Designation. |
| 0 | Calm | 1.5 | Light breeze | 4 | Blowing hard |
| 0.5 | Very light air | 2. | Fresh breeze | 5 | Blowing a gale |
| 1. | Light air | 3. | Very fresh | 6 | Violent gale |

| NOTATION USED IN GENERAL REMARKS. | | | |
|-----------------------------------|-----------------|----------|-----------------------|
| a. | denotes aurora. | m. | denotes meteor. |
| ci. | cirrus. | ms. | meteors. |
| ci-cu. | cirro-cumulus. | n. | nimbus. |
| ci-s. | cirro-stratus. | r. | rain. |
| cu. | cumulus. | c. h. r. | continued heavy rain. |
| cu-s. | cumulo-stratus. | s. | stratus. |
| d. | dew. | sc. | scud. |
| f. | fog. | s. | sleet. |
| fr. | frost. | s. | snow. |
| h-fr. | hoar-frost. | so. ha. | solar halo. |
| h. | haze. | sq. | squall. |
| h. d. | heavy dew. | sqs. | squalls. |
| hl. | hail. | t. | thunder. |
| li. | lightning. | t. s. | thunder-storm. |
| li. cl. | light clouds. | w. | wind. |
| li. sh. | light showers. | G. | gale of wind. |
| lu. co. | lunar corona. | | |
| lu. ha. | lunar halo. | | |

| TABLE FOR ESTIMATING FORCE OF WIND. | | | | | |
|-------------------------------------|---------------------|-----------------------|---------------------|-----------------------|---------------------|
| Estimated Force, 0-6. | Common Designation. | Estimated Force, 0-6. | Common Designation. | Estimated Force, 0-6. | Common Designation. |
| 0 | Calm | 1.5 | Light breeze | 4 | Blowing hard |
| 0.5 | Very light air | 2 | Fresh breeze | 5 | Blowing a gale |
| 1 | Light air | 3 | Very fresh | 6 | Violent gale |

BAROMETER, "corrected Mean" at 9 A.M., minus the Correction \uparrow = 29.709
for Temp. (Col. 2), = 29.709
"Corrected Mean" of Barometer at 9 P.M., minus the Correction \uparrow = 29.709
for Temp. (Col. 4), = 29.709
Mean at Station, corrected, and at 32° = 29.709
Correction for height, feet above Mean Sea-level, = 180
Mean, reduced to 32°, and Sea-level, = 29.889
Highest Reading, corrected for Index error, on the 1st = 30.032
Lowest Do. Do., on the 18th, = 29.432
Difference, or Monthly Range, = 0.600

S.R. THERMOMETER, (in shade, etc.), Highest in Month, (corrected for Index Errors), on the 28th, = 71.3
Lowest in Month, corrected for Index errors, on the 21st, = 34.6
Difference, or Monthly Range, = 36.7
"Corrected Mean" of all the Highest, (Col. 5), = 63.4
"Corrected Mean" of all the Lowest, (Col. 6), = 47.0
Difference, or Mean Daily Range, = 16.4
** Calculated Mean Temperature of Month, = 55.2
S.R. THERMOMETER, Black Bulb in Sun, Highest, (corrected for Index Errors), on the 9th, = 134.9
"Corrected Mean," (Col. 7), of Black Bulb, Max. in Sun, = 114.7
Lowest at Night, Black Bulb (corrected for Index errors), on the 11th, = 26.5
"Corrected Mean," (Col. 8), of Black Bulb, Min. on grass, = 38.5
Difference of above means or range ("exposed"), = 76.2

HYGROMETER, Mean (corrected) A.M. and P.M. Reading of Dry Bulb, (Cols. 9 and 11), = 54.0
Mean (corrected) A.M. and P.M. Reading of Wet Bulb, (Cols. 10 and 12), = 50.9
†† Computed Temperature of Dew-Point, = 47.9
†† Do. Elastic Force of Vapour, = 1.332
†† Do. Weight of Vapour in a Cubic Foot of Air, = 79
†† Relative Humidity (Saturation = 100), = 79
RAIN fell on 18 Days; Amount in Inches, = 1.61

| WIND. | | SUMMARY. | | | | | | | | | |
|------------|--|----------|----|---|----|---|----|----|----|-------------------|-------------|
| Direction. | | N | NE | E | SE | S | SW | W | NW | Calm or Variable. | Mean Force. |
| A.M. | | 3 | 0 | 8 | 0 | 1 | 0 | 14 | 4 | 1 | 1.05 |
| P.M. | | 2 | 0 | 7 | 0 | 1 | 1 | 12 | 3 | 10 | 0.59 |
| Mean. | | 3 | 0 | 7 | 0 | 1 | 1 | 10 | 4 | 5 | 0.82 = 0.67 |

Observations made and
Return verified by D. Johnston
pro A. Hume

(Signed)

SCOTTISH METEOROLOGICAL SOCIETY.

Observations taken at Corstorphine House, County of Mid Lothian, in Lat 55° 56' 31" N, Long 3° 16' 31" W, Distance from Sea 2 3/4 miles.
Height of Cistern of the Barometer above Mean Sea-Level 165 feet, above Ground 6 feet.

During the MONTH of September 1902.

The Hours of Observation are of Greenwich Time.

| ELECTRICITY. | Days of Month. | BAROMETER. | | | | SELF-REGISTERING THERMOMETERS. Read Daily, at 9 P.M. | | | | HYGROMETER. | | | | Rain. | WIND. | | | | CLOUDS. | | | | SUNSHINE. | THERMOMETERS under Ground. | | | SEA. | OZONE. | GENERAL REMARKS. As to occurrence of Thunder, Lightning, Storms, Hail, Meteors, Remarkable Depression or Elevation of Barometer, Prevalent Diseases, etc. Mention the hour at which Storms, including Thunder and Lightning, began and ended. | Days of Month. | |
|--------------|--|------------|--------------------------|------------|--------------------------|---|-------|-------------------------|-------------------|-------------|-----------|-----------|-----------|-------|---|------------|-----------|------------|---------|---|--------------------------------------|---|-----------|--------------------------------------|------------------|-------------------|-------|--------|--|----------------|-------------------|
| | | 9 h. A.M. | | 9 h. P.M. | | Protected in Shade, 4 feet above Ground. | | Exposed Black Bulbs. | | 9 h. A.M. | | 9 h. P.M. | | | 9 h. A.M. | | 9 h. P.M. | | 9 A.M. | | 9 P.M. | | | 9 h. A.M. | | | | | | | |
| | | Barometer. | Attached Thermometer. | Barometer. | Attached Thermometer. | Max. | Min. | Max. in Sunrays | Min. on Grass. | Dry bulb. | Wet bulb. | Dry bulb. | Wet bulb. | | No. of hours in which it fell. | Direction. | Force. | Direction. | Force. | Velocity (0-10) and Direction. | Amount (0-10), and Species. | Velocity (0-10) and Direction. | | Amount (0-10), and Species. | No. 3 inches. | No. 12 inches. | | | | | No. 22 inches. |
| | | * No. | | No. | | No. | No. | No. | No. | | | | | | | | | | | | | | | | | | | | | | |
| | | inches. | ° | inches. | ° | ° | ° | ° | ° | ° | ° | ° | ° | | | | | | | | | | | | | | | | | | |
| | 1 | 29.700 | 59.6 | 29.600 | 61.4 | 63.8 | 41.7 | 100.4 | 32.3 | 54.5 | 52.6 | 55.6 | 52.5 | 0.3 | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | 1 |
| | 2 | 29.534 | 61.4 | 29.526 | 62.1 | 64.0 | 55.2 | 98.5 | 42.5 | 61.9 | 56.1 | 59.3 | 56.1 | 2.1 | W | 1 | — | — | cal | 8 | — | — | — | — | — | — | — | — | — | — | 2 |
| | 3 | 29.008 | 61.7 | 29.294 | 62.6 | 66.8 | 51.5 | 122.4 | 44.7 | 62.3 | 60.2 | 54.8 | 53.5 | 1.2 | S | 1 | W | 3 | cal | 8 | n | 10 | — | — | — | — | — | — | — | — | 3 |
| | 4 | 29.374 | 60.4 | 29.724 | 61.2 | 57.4 | 46.8 | 90.5 | 43.2 | 56.5 | 52.7 | 50.3 | 47.5 | 1.0 | W | 2.5 | W | 2 | cal | 10 | — | — | — | — | — | — | — | — | — | — | 4 |
| | 5 | 29.836 | 59.2 | 29.870 | 60.6 | 62.8 | 45.4 | 124.5 | 32.0 | 53.7 | 51.2 | 50.9 | 48.9 | 0.9 | W | 1 | — | — | — | — | — | — | — | — | — | — | — | — | — | — | 5 |
| | 6 | 29.842 | 59.7 | 29.974 | 61.4 | 63.8 | 50.5 | 88.8 | 45.5 | 58.8 | 56.7 | 57.6 | 55.5 | 0.1 | W | 3 | — | — | n | 10 | cal | 5 | — | — | — | — | — | — | — | — | 6 |
| | 7 | 30.060 | 59.9 | 30.114 | 62.5 | 67.9 | 50.2 | 118.3 | 38.8 | 58.0 | 56.8 | 54.8 | 53.8 | — | W | 1 | n | E | 5 | — | — | — | — | — | — | — | — | — | — | — | 7 |
| | 8 | 30.140 | 60.5 | 30.068 | 62.2 | 67.0 | 52.1 | 110.6 | 40.0 | 59.8 | 56.5 | 51.6 | 50.7 | — | W | 1 | n | 5 | — | — | — | — | — | — | — | — | — | — | — | — | 8 |
| | 9 | 30.012 | 59.9 | 30.032 | 61.7 | 62.9 | 39.7 | 120.3 | 28.6 | 49.8 | 48.9 | 52.5 | 50.0 | 0.6 | W | 3 | S | 1 | — | — | — | — | — | — | — | — | — | — | — | — | 9 |
| | 10 | 30.046 | 59.4 | 30.034 | 59.9 | 53.0 | 46.2 | 98.7 | 30.0 | 50.5 | 47.8 | 46.7 | 40.1 | 2.8 | W | 1 | W | 1 | n | 10 | cal | 8 | — | — | — | — | — | — | — | — | 10 |
| | 11 | 29.922 | 57.6 | 29.816 | 57.8 | 53.9 | 41.1 | 119.0 | 38.6 | 46.7 | 44.8 | 41.5 | 39.9 | 0.2 | E | 1 | — | — | n | 10 | cal | 5 | — | — | — | — | — | — | — | — | 11 |
| | 12 | 29.512 | 56.7 | 29.830 | 56.7 | 57.8 | 40.6 | 114.4 | 30.6 | 52.8 | 49.9 | 39.2 | 37.5 | 0.2 | W | 1 | W | 5 | cal | 5 | — | — | — | — | — | — | — | — | — | — | 12 |
| | 13 | 29.876 | 54.3 | 29.642 | 56.4 | 53.9 | 34.6 | 109.3 | 23.4 | 43.6 | 40.0 | 41.2 | 39.5 | 0.1 | W | 1 | W | 1 | — | — | — | — | — | — | — | — | — | — | — | — | 13 |
| | 14 | 29.580 | 56.5 | 29.640 | 58.6 | 61.8 | 42.7 | 120.4 | 38.4 | 53.7 | 50.8 | 50.2 | 48.5 | — | W | 3 | W | 1 | cal | 8 | ci | 4 | — | — | — | — | — | — | — | — | 14 |
| | 15 | 29.536 | 57.9 | 29.348 | 59.0 | 57.4 | 49.0 | 87.5 | 39.0 | 54.5 | 51.3 | 50.0 | 47.9 | 0.5 | W | 1 | W | 1.5 | cal | 10 | — | — | — | — | — | — | — | — | — | — | 15 |
| | 16 | 29.250 | 56.7 | 29.466 | 58.8 | 61.7 | 45.5 | 121.4 | 37.4 | 51.5 | 48.5 | 45.7 | 42.6 | — | W | 1.5 | W | 1 | cal | 7 | — | — | — | — | — | — | — | — | — | — | 16 |
| | 17 | 29.664 | 57.0 | 29.900 | 57.8 | 57.8 | 41.9 | 118.7 | 30.2 | 50.7 | 45.9 | 41.8 | 40.7 | 0.2 | W | 1 | W | 5 | ci | 5 | — | — | — | — | — | — | — | — | — | — | 17 |
| | 18 | 30.018 | 56.5 | 30.100 | 58.3 | 57.2 | 38.1 | 101.8 | 24.6 | 48.0 | 45.4 | 45.1 | 44.7 | 0.5 | W | 3 | — | — | ci | 5 | — | — | — | — | — | — | — | — | — | — | 18 |
| | 19 | 30.188 | 53.7 | 30.198 | 58.5 | 55.8 | 36.0 | 89.7 | 24.8 | 42.8 | 42.4 | 49.5 | 47.8 | — | W | 1 | n | 5 | ci | 5 | — | — | — | — | — | — | — | — | — | — | 19 |
| | 20 | 30.128 | 57.5 | 30.050 | 59.4 | 57.8 | 45.7 | 95.7 | 37.3 | 53.4 | 50.1 | 52.0 | 50.6 | 0.4 | — | — | E | 1 | cal | 5 | n | 10 | — | — | — | — | — | — | — | — | 20 |
| | 21 | 30.000 | 58.5 | 29.982 | 60.2 | 58.4 | 51.5 | 93.0 | 43.8 | 55.6 | 51.5 | 57.0 | 53.9 | 0.3 | — | — | — | — | cal | 10 | ci | 5 | — | — | — | — | — | — | — | — | 21 |
| | 22 | 29.834 | 58.7 | 29.864 | 61.7 | 64.9 | 52.2 | 114.7 | 42.3 | 56.2 | 51.9 | 59.0 | 56.9 | 0.4 | E | 1 | — | — | cal | 10 | ci | 4 | — | — | — | — | — | — | — | — | 22 |
| | 23 | 29.730 | 61.3 | 29.588 | 62.8 | 78.5 | 56.3 | 119.3 | 46.3 | 56.9 | 54.7 | 56.8 | 55.2 | 1.3 | E | 1 | E | 5 | n | 10 | n | 10 | — | — | — | — | — | — | — | — | 23 |
| | 24 | 29.850 | 60.5 | 30.050 | 60.0 | 62.7 | 44.3 | 106.9 | 40.3 | 57.5 | 52.8 | 46.9 | 45.4 | 0.1 | W | 1.5 | W | 3 | — | — | — | — | — | — | — | — | — | — | — | — | 24 |
| | 25 | 30.150 | 60.0 | 30.270 | 61.7 | 59.9 | 38.1 | 89.6 | 26.4 | 55.6 | 52.4 | 53.8 | 52.0 | — | W | 1 | — | — | ci | 5 | — | — | — | — | — | — | — | — | — | — | 25 |
| | 26 | 30.314 | 60.7 | 30.300 | 63.1 | 63.7 | 49.1 | 103.0 | 36.2 | 58.8 | 56.0 | 56.0 | 54.6 | — | W | 1 | — | — | — | — | — | — | — | — | — | — | — | — | — | — | 26 |
| | 27 | 30.300 | 61.7 | 30.364 | 63.9 | 62.3 | 52.1 | 79.4 | 24.6 | 54.8 | 52.7 | 52.0 | 51.0 | — | — | — | — | — | ci | 4 | — | — | — | — | — | — | — | — | — | — | 27 |
| | 28 | 30.400 | 61.9 | 30.392 | 63.4 | 58.0 | 48.4 | 64.5 | 38.3 | 52.0 | 51.4 | 50.2 | 49.7 | — | W | 5 | E | 5 | ci | 10 | cal | 7 | — | — | — | — | — | — | — | — | 28 |
| | 29 | 30.284 | 61.2 | 30.180 | 63.4 | 58.9 | 49.4 | 85.8 | 44.2 | 52.4 | 51.5 | 54.7 | 53.6 | 0.2 | W | 5 | — | — | cal | 10 | cal | 8 | — | — | — | — | — | — | — | — | 29 |
| | 30 | 30.066 | 59.1 | 30.034 | 62.5 | 57.6 | 50.9 | 79.5 | 44.1 | 52.8 | 51.7 | 50.8 | 49.8 | 0.3 | — | — | E | 1.5 | cal | 10 | cal | 10 | — | — | — | — | — | — | — | — | 30 |
| | 31 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | 31 |
| | Sums. | 12 49 | 16 15 | 13 44 | 14 14 | 17 18 | 13 11 | 15 16 | 13 11 | 14 17 | 11 16 | 12 13 | 15 16 | 6 | 4 | 5 | | | | | | | | | 12 15 | 13 13 | 13 13 | | | | |
| | Means. | 26.274 | 271.7 | 27.250 | 3 | 63.2 | 48.9 | 301.3 | 61.88 | 319.2 | 35.52 | 27.52 | 27.04 | 1.46 | 24.5 | 18.0 | | | 180 | 86 | | | 70.1 | 3.0 | 6.8 | | | | | | |
| | + Total Corrections for Instrumental Errors. | + 0.32 | | + 0.32 | | | | | | | | | | | 0.81 | 0.60 | | | 6 | 2.9 | | | 52.3 | 54.4 | 54.6 | | | | | | |
| | + Corrections for Diurnal Range. | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | "Corrected Means." | 29.908 | | 29.940 | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | No. of Column. | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | 24 | 25 | 26 | 27 | 28 | 29 | 30 |

| NOTATION USED IN GENERAL REMARKS. | | | | | |
|-----------------------------------|-------------------|----------|-------------------------|--|--|
| a. | denotes aurora. | m. | denotes meteor. | | |
| ci. | " cirrus. | ms. | " meteors. | | |
| ci.-cu. | " cirro-cumulus. | u. | " nimbus. | | |
| ci.-s. | " cirro-stratus. | r. | " rain. | | |
| cu. | " cumulus. | c. h. r. | " heavy rain. | | |
| cu.-s. | " cumulo-stratus. | c. h. r. | " continued heavy rain. | | |
| d. | " dew. | s. | " stratus. | | |
| f. | " fog. | sc. | " sleet. | | |
| fr. | " frost. | s. | " snow. | | |
| h.-fr. | " hoar-frost. | so. ha. | " solar halo. | | |
| h. | " haze. | sq. | " squall. | | |
| h. d. | " heavy dew. | sq. | " squalls. | | |
| hl. | " hail. | t. s. | " thunder-storm. | | |
| li. cl. | " light clouds. | w. | " wind. | | |
| li. sh. | " light showers. | g. | " gale of wind. | | |
| lu. co. | " lunar corona. | | | | |
| lu. ha. | " lunar halo. | | | | |

| TABLE FOR ESTIMATING FORCE OF WIND. | | | | | |
|-------------------------------------|---------------------|-----------------------|---------------------|-----------------------|---------------------|
| Estimated Force, 0-6. | Common Designation. | Estimated Force, 0-6. | Common Designation. | Estimated Force, 0-6. | Common Designation. |
| 0 | Calm | 1.5 | Light breeze | 4 | Blowing hard |
| 0.5 | Very light air | 2. | Fresh breeze | 5 | Blowing a gale |
| 1. | Light air | 3. | Very fresh | 6 | Violent gale |

BAROMETER, "corrected Mean" at 9 A.M., minus the Correction $\frac{1}{100}$ for Temp. (Col. 2), = 29.829
"Corrected Mean" of Barometer at 9 P.M., minus the Correction $\frac{1}{100}$ for Temp. (Col. 4), = 29.855
Mean at Station, corrected, and at 32°, = 29.842
Correction for height, feet above Mean Sea-level, = 1.81
Mean, reduced to 32°, and Sea-level, = 30.023
Highest Reading, corrected for Index error, on the 3rd th, = 30.432
Lowest Do. Do., on the 3rd th, = 29.040
Difference, or Monthly Range, = 1.392

S.-R. THERMOMETER, (in shade, etc.), Highest in Month, (corrected for Index Errors), on the 23rd th, = 78.5
Lowest in Month, corrected for Index errors, on the 13th, = 34.6
Difference, or Monthly Range, = 43.9
"Corrected Mean" of all the Highest, (Col. 5), = 61.0
"Corrected Mean" of all the Lowest, (Col. 6), = 46.3
Difference, or Mean Daily Range, = 14.7
** Calculated Mean Temperature of Month, = 53.6
S.-R. THERMOMETER, Black Bulb in Sun, Highest, (corrected for Index Errors), on the 5th, = 124.5
"Corrected Mean," (Col. 7), of Black Bulb, Max. in Sun, = 101.4
Lowest at Night, Black Bulb (corrected for Index errors), on the 1st th, = 23.4
"Corrected Mean," (Col. 8), of Black Bulb, Min. on grass, = 36.3
Difference of above means or range ("exposed"), =

HYGROMETER, Mean (corrected) A.M. and P.M. Reading of Dry Bulb, (Cols. 9 and 11), = 52.4
Mean (corrected) A.M. and P.M. Reading of Wet Bulb, (Cols. 10 and 12), = 50.1
Computed Temperature of Dew-Point, = 47.8
Do. Elastic Force of Vapour, = 333
Do. Weight of Vapour in a Cubic Foot of Air, =
Do. Relative Humidity (Saturation = 100), = 85
RAIN fell on 2/ Days; Amount in Inches, = 1.46

| WIND. | SUMMARY. | | | | | | | | | |
|-------|------------|---|----|---|----|---|----|----|----|-----------|
| | Direction. | N | NE | E | SE | S | SW | W | NW | Variable. |
| A.M. | | 4 | 0 | 3 | 0 | 1 | 0 | 17 | 0 | 5 |
| P.M. | | 3 | 1 | 4 | 0 | 1 | 0 | 8 | 1 | 12 |
| Mean. | | 4 | 0 | 4 | 0 | 1 | 0 | 12 | 1 | 8 |

Observations made and Return verified by Dr Johnston
pro J. H. Hunter

(Signed)

SCOTTISH METEOROLOGICAL SOCIETY.

Observations taken at Corstorphine House, County of Mid Lothian, in Lat. 55°56'31"N, Long. 3°16'46"W, Distance from Sea 22 2/3 miles.
Height of Cistern of the Barometer above Mean Sea-Level 165 feet, above Ground 6 feet. During the MONTH of October 1902.

The Hours of Observation are of Greenwich Time.

| ELECTRICITY. | Days of Month. | BAROMETER. | | | | SELF-REGISTERING THERMOMETERS. Read Daily, at 9 P.M. | | | | HYGROMETER. | | | | Rain. | WIND. | | | | CLOUDS. | | | | SUNSHINE. Hours. | THERMOMETERS under Ground. | | | SEA. | OZONE. | GENERAL REMARKS. As to occurrence of Thunder, Lightning, Storms, Hail, Meteors, Remarkable Depression or Elevation of Barometer, Prevalent Diseases, etc. Mention the hour at which Storms, including Thunder and Lightning, began and ended. | Days of Month. | | | | | | |
|--------------|--|-------------|-------------------------|------------|-------------------------|---|-----------|-------------------------|-------------------|-------------|-----------|-----------|-----------|-------|---|-------------------------|------------|-------|------------|-------|---|--|---------------------|--------------------------------------|--|--------------------------------------|------|--------|--|----------------|------------------|-------------------|-------------------|-------|-------|-------|
| | | 9 h. A.M. | | 9 h. P.M. | | Protected in Shade, 4 feet above Ground. | | Exposed Black Bulbs. | | 9 h. A.M. | | 9 h. P.M. | | | 9 h. A.M. | | 9 h. P.M. | | 9 A.M. | | 9 P.M. | | | 9 h. A.M. | | | | | | | | | | | | |
| | | Barometer. | Attached Thermometer | Barometer. | Attached Thermometer | Max. | Min. | Max. in Sun-rays | Min. on Grass. | Dry bulb. | Wet bulb. | Dry bulb. | Wet bulb. | | No. of hours in which it fell. | Amount in inches. | Direction. | Force | Direction. | Force | Readings of the H. Cup Anemometer. No. _____ | Velocity (0—6) and Direction. | | Amount (0—10), and Species. | Velocity (0—6) and Direction. | Amount (0—10), and Species. | | | | | No. 3 inches. | No. 12 inches. | No. 22 inches. | | | |
| | | * No. _____ | _____ | No. _____ | _____ | No. _____ | No. _____ | No. _____ | No. _____ | _____ | _____ | _____ | _____ | | _____ | _____ | _____ | _____ | _____ | _____ | _____ | _____ | | _____ | _____ | _____ | | | | | _____ | _____ | _____ | _____ | _____ | _____ |
| | | inches. | ° | inches. | ° | ° | ° | ° | ° | ° | ° | ° | ° | | ° | ° | ° | ° | ° | ° | ° | ° | | ° | ° | ° | | | | | ° | ° | ° | ° | ° | ° |
| | 1 | 30.034 | 60.3 | 30.092 | 61.5 | 57.2 | 48.3 | 68.9 | 37.5 | 49.3 | 48.7 | 50.3 | 48.6 | .03 | E. | 1 | E. | .5 | | | | | | | | | | | | | 1 | | | | | |
| | 2 | 30.192 | 58.4 | 30.244 | 60.2 | 52.4 | 44.5 | 65.9 | 32.6 | 50.0 | 45.8 | 45.0 | 42.3 | — | E. | 2 | E. | 1 | | | | | | | | | | | | | 2 | | | | | |
| | 3 | 30.244 | 57.4 | 30.210 | 59.2 | 50.0 | 40.6 | 89.4 | 30.5 | 48.9 | 43.2 | 41.7 | 39.8 | — | E. | 1 | — | — | | | | | | | | | | | | | 3 | | | | | |
| | 4 | 30.200 | 57.6 | 30.148 | 59.9 | 52.4 | 38.9 | 99.3 | 31.2 | 44.4 | 42.1 | 48.8 | 46.0 | .23 | W. | .5 | E. | .5 | | | | | | | | | | | | | 4 | | | | | |
| | 5 | 30.050 | 58.5 | 30.053 | 59.0 | 53.9 | 46.0 | 90.3 | 40.2 | 48.7 | 47.0 | 48.8 | 45.1 | .07 | E. | 1 | E. | 1 | | | | | | | | | | | | | 5 | | | | | |
| | 6 | 29.900 | 58.1 | 29.844 | 59.0 | 52.4 | 46.4 | 89.2 | 33.4 | 48.9 | 46.8 | 48.0 | 44.7 | .05 | E. | 1 | E. | 1 | | | | | | | | | | | | | | 6 | | | | |
| | 7 | 29.800 | 56.8 | 29.840 | 58.8 | 52.2 | 43.2 | 111.3 | 41.2 | 45.6 | 43.5 | 44.3 | 42.0 | .01 | E. | 1 | E. | .5 | | | | | | | | | | | | | | 7 | | | | |
| | 8 | 29.850 | 55.9 | 29.850 | 57.8 | 51.9 | 36.2 | 102.9 | 29.9 | 43.0 | 41.0 | 44.3 | 42.5 | — | — | — | E. | .5 | | | | | | | | | | | | | | 8 | | | | |
| | 9 | 29.838 | 56.7 | 29.680 | 57.8 | 50.1 | 42.0 | 73.8 | 37.8 | 46.9 | 43.8 | 44.9 | 43.9 | .01 | E. | 1 | E. | 1 | | | | | | | | | | | | | | 9 | | | | |
| | 10 | 29.520 | 55.7 | 29.530 | 58.2 | 48.7 | 42.6 | 58.8 | 36.5 | 45.6 | 42.9 | 47.0 | 43.1 | — | E. | 1.5 | E. | 1 | | | | | | | | | | | | | | 10 | | | | |
| | 11 | 29.630 | 53.9 | 29.816 | 57.5 | 52.5 | 36.1 | 91.5 | 30.8 | 41.9 | 40.0 | 38.7 | 37.8 | — | E. | .5 | N. | .5 | | | | | | | | | | | | | | 11 | | | | |
| | 12 | 29.950 | 55.3 | 29.826 | 59.0 | 57.3 | 31.2 | 100.3 | 25.3 | 41.0 | 39.7 | 54.0 | 51.4 | .02 | — | — | W. | 1 | | | | | | | | | | | | | | 12 | | | | |
| | 13 | 29.874 | 56.8 | 29.792 | 59.5 | 57.9 | 45.8 | 88.6 | 40.5 | 48.7 | 46.9 | 45.0 | 43.6 | .02 | W. | .5 | — | — | | | | | | | | | | | | | | 13 | | | | |
| | 14 | 29.576 | 56.3 | 29.536 | 60.5 | 56.1 | 44.3 | 99.8 | 36.4 | 49.8 | 48.5 | 47.4 | 45.2 | .15 | W. | 1 | W. | 1 | | | | | | | | | | | | | | 14 | | | | |
| | 15 | 28.940 | 58.5 | 28.600 | 60.0 | 54.7 | 46.3 | 87.3 | 39.4 | 52.9 | 48.6 | 50.8 | 47.3 | .18 | W. | 2.5 | W. | 3 | | | | | | | | | | | | | | 15 | | | | |
| | 16 | 28.996 | 57.4 | 29.214 | 59.2 | 53.5 | 45.2 | 98.8 | 39.1 | 50.0 | 45.6 | 46.5 | 43.0 | .05 | W. | 2 | W. | 3 | | | | | | | | | | | | | | 16 | | | | |
| | 17 | 29.484 | 56.8 | 29.528 | 59.6 | 53.6 | 40.8 | 100.7 | 34.7 | 46.8 | 43.0 | 40.7 | 39.9 | — | W. | 1 | — | — | | | | | | | | | | | | | | 17 | | | | |
| | 18 | 29.640 | 56.3 | 29.770 | 57.2 | 49.0 | 33.5 | 88.4 | 30.7 | 39.2 | 38.6 | 34.2 | 33.1 | — | — | — | — | — | | | | | | | | | | | | | | 18 | | | | |
| | 19 | 29.772 | 54.3 | 29.598 | 56.6 | 51.8 | 30.4 | 69.3 | 25.5 | 40.5 | 39.7 | 47.6 | 45.2 | .02 | N. | .5 | S.W. | 2.5 | | | | | | | | | | | | | | 19 | | | | |
| | 20 | 29.436 | 55.2 | 29.576 | 56.0 | 52.9 | 39.5 | 93.5 | 35.3 | 49.0 | 47.7 | 39.7 | 38.5 | — | W. | .5 | W. | 1 | | | | | | | | | | | | | | 20 | | | | |
| | 21 | 29.670 | 54.5 | 29.694 | 56.5 | 53.1 | 39.2 | 99.7 | 30.8 | 45.9 | 43.0 | 46.0 | 43.0 | .17 | W. | 1 | W. | 1 | | | | | | | | | | | | | | 21 | | | | |
| | 22 | 29.800 | 55.1 | 30.052 | 58.5 | 55.6 | 42.8 | 102.9 | 36.3 | 45.2 | 44.5 | 50.9 | 49.0 | .02 | W. | 1 | W. | 1 | | | | | | | | | | | | | | 22 | | | | |
| | 23 | 30.062 | 56.8 | 30.100 | 58.7 | 57.2 | 50.1 | 64.9 | 47.5 | 53.3 | 50.4 | 53.7 | 49.2 | — | W. | 2 | W. | 1.5 | | | | | | | | | | | | | | 23 | | | | |
| | 24 | 30.060 | 57.7 | 30.204 | 60.0 | 58.1 | 48.2 | 88.5 | 45.7 | 54.9 | 50.2 | 48.8 | 46.7 | — | W. | 2 | — | — | | | | | | | | | | | | | | 24 | | | | |
| | 25 | 30.300 | 56.4 | 30.072 | 59.7 | 53.1 | 36.7 | 79.0 | 29.5 | 39.4 | 38.9 | 52.3 | 49.7 | .12 | N. | .5 | W. | 1.5 | | | | | | | | | | | | | | 25 | | | | |
| | 26 | 29.538 | 57.6 | 29.912 | 59.2 | 55.1 | 47.9 | 97.8 | 43.9 | 48.8 | 46.5 | 49.5 | 45.5 | .04 | W. | 2 | — | — | | | | | | | | | | | | | | 26 | | | | |
| | 27 | 29.970 | 57.3 | 29.888 | 59.0 | 52.9 | 37.9 | 87.5 | 30.7 | 41.8 | 40.6 | 47.8 | 45.3 | .02 | W. | .5 | W. | .5 | | | | | | | | | | | | | | 27 | | | | |
| | 28 | 29.852 | 57.9 | 29.864 | 60.0 | 56.2 | 47.0 | 71.4 | 44.7 | 52.5 | 50.0 | 51.3 | 49.4 | — | W. | .5 | — | — | | | | | | | | | | | | | | 28 | | | | |
| | 29 | 29.756 | 59.2 | 29.760 | 60.8 | 59.2 | 50.2 | 99.8 | 47.4 | 55.6 | 52.9 | 51.8 | 49.7 | — | W. | 1 | W. | 1.5 | | | | | | | | | | | | | | 29 | | | | |
| | 30 | 29.842 | 58.7 | 30.012 | 58.5 | 54.2 | 37.0 | 99.1 | 32.3 | 45.7 | 43.2 | 37.0 | 36.2 | .03 | W. | 1 | — | — | | | | | | | | | | | | | | 30 | | | | |
| | 31 | 29.800 | 56.3 | 29.738 | 59.0 | 55.2 | 36.6 | 67.9 | 28.7 | 47.7 | 45.4 | 54.3 | 50.0 | .01 | W. | 2 | W. | 2 | | | | | | | | | | | | | | 31 | | | | |
| | Sums. | 18136 | 2015 | 18140 | 2011 | 1312 | 1511 | 22197 | 1416 | 1716 | 1414 | 1616 | 1711 | 125 | 320 | 280 | | | 134 | 110 | | | 715 | 911 | 1915 | | | | | | | | | | | |
| | Means. | 29.793 | 56.9 | 29.808 | 58.9 | 53.7 | 41.8 | 87.9 | 35.7 | 47.2 | 44.8 | 46.8 | 44.4 | | 1.03 | 0.90 | | | 4.3 | 3.5 | | | 46.8 | 49.2 | 49.8 | | | | | | | | | | | |
| | + Total Corrections for Instrumental Errors. | +0.32 | | +0.32 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | + Corrections for Diurnal Range. | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | "Corrected Means." | 29.825 | | 29.840 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | No. of Column. | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | 24 | 25 | 26 | 27 | 28 | 29 | 30 | | | | | |

| NOTATION USED IN GENERAL REMARKS. | | | | | |
|-----------------------------------|-------------------|----------|-------------------------|--|--|
| a. | denotes aurora. | m. | denotes meteor. | | |
| ci. | " cirrus. | ms. | " meteors. | | |
| ci.-cu. | " cirro-cumulus. | n. | " nimbus. | | |
| cl.-s. | " cirro-stratus. | r. | " rain. | | |
| cu. | " cumulus. | c. h. r. | " continued heavy rain. | | |
| cu.-s. | " cumulo-stratus. | s. | " stratus. | | |
| d. | " dew. | sc. | " scud. | | |
| f. | " fog. | s. | " sleet. | | |
| fr. | " frost. | s. | " snow. | | |
| h.-fr. | " hoar-frost. | so. ha. | " solar halo. | | |
| h. | " haze. | sq. | " squall. | | |
| h. d. | " heavy dew. | sqs. | " squalls. | | |
| hl. | " hail. | t. | " thunder. | | |
| l. | " lightning. | t. s. | " thunder-storm. | | |
| li. cl. | " light clouds. | w. | " wind. | | |
| li. sh. | " light showers. | g. | " gale of wind. | | |
| lu. co. | " lunar corona. | | | | |
| lu. ha. | " lunar halo. | | | | |

| TABLE FOR ESTIMATING FORCE OF WIND. | | | | | |
|-------------------------------------|---------------------|-----------------------|---------------------|-----------------------|---------------------|
| Estimated Force, 0—6. | Common Designation. | Estimated Force, 0—6. | Common Designation. | Estimated Force, 0—6. | Common Designation. |
| 0 | Calm | 1 | Very light air | 4 | Blowing hard |
| 0.5 | Light air | 2 | Fresh breeze | 5 | Blowing gale |
| 1 | | 3 | Very fresh | 6 | Violent gale |

NOTATION USED IN GENERAL REMARKS.

| | | | |
|---------|-----------------|----------|-----------------------|
| a. | denotes aurora. | m. | denotes meteor. |
| ci. | cirrus. | ms. | meteors. |
| ci-cu. | cirro-cumulus. | n. | nimbus. |
| ci-s. | cirro-stratus. | r. | rain. |
| cu. | cumulus. | h. r. | heavy rain. |
| cu-s. | cumulo-stratus. | c. h. r. | continued heavy rain. |
| d. | dew. | s. | sleet. |
| f. | fog. | sc. | scud. |
| fr. | frost. | s. | snow. |
| h. fr. | hoar-frost. | so. ha. | solar halo. |
| h. | haze. | sq. | squall. |
| h. d. | heavy dew. | sq.s. | squalls. |
| hl. | hail. | t. | thunder. |
| l. | lightning. | t. s. | thunder-storm. |
| li. cl. | light clouds. | w. | wind. |
| li. sh. | light showers. | w. | wind. |
| lu. co. | lunar corona. | g. | gale of wind. |
| lu. ha. | lunar halo. | | |

TABLE FOR ESTIMATING FORCE OF WIND.

| Estimated Force, 0-6. | Common Designation. | Estimated Force, 0-6. | Common Designation. | Estimated Force, 0-6. | Common Designation. |
|-----------------------|---------------------|-----------------------|---------------------|-----------------------|---------------------|
| 0 | Calm | 1.5 | Light breeze | 4 | Blowing hard |
| 0.5 | Very light air | 2 | Fresh breeze | 5 | Blowing a gale |
| 1 | Light air | 3 | Very fresh | 6 | Violent gale |

BAROMETER, "corrected Mean" at 9 A.M., minus the Correction $\frac{1}{1000}$ for Temp. (Col. 2), = 29.825
"Corrected Mean" of Barometer at 9 P.M., minus the Correction $\frac{1}{1000}$ for Temp. (Col. 4), = 29.840
Mean at Station, corrected, and at 32°, = 29.754
Correction for height, feet above Mean Sea-Level, = 1.83
Mean, reduced to 32°, and Sea-level, = 29.937
Highest Reading, corrected for Index error, on the 25th, = 30.332
Lowest Do. Do., on the 15th, = 28.632
Difference, or Monthly Range, = 1.700

S.-R. THERMOMETER, (in shade, etc.), Highest in Month, (corrected for Index Errors), on the 29th, = 59.2
Lowest in Month, corrected for Index errors, on the 19th, = 30.4
Difference, or Monthly Range, = 28.8
"Corrected Mean" of all the Highest, (Col. 5), = 53.7
"Corrected Mean" of all the Lowest, (Col. 6), = 41.8
Difference, or Mean Daily Range, = 11.9
** Calculated Mean Temperature of Month, = 47.5
S.-R. THERMOMETER, Black Bulb in Sun, Highest, (corrected for Index Errors), on the 7th, = 111.3
"Corrected Mean," (Col. 7), of Black Bulb, Max. in Sun, = 87.9
Lowest at Night, Black Bulb (corrected for Index errors), on the 12th, = 25.3
"Corrected Mean," (Col. 8), of Black Bulb, Min. on grass, = 35.7
Difference of above means or range ("exposed"), = 52.2

HYGROMETER, Mean (corrected) A.M. and P.M. Reading of Dry Bulb, (Cols. 9 and 11), = 47.0
Mean (corrected) A.M. and P.M. Reading of Wet Bulb, (Cols. 10 and 12), = 44.6
†† Computed Temperature of Dew-Point, = 41.9
†† Do. Elastic Force of Vapour, = 2.66
†† Do. Weight of Vapour in a Cubic Foot of Air, = 83
†† Relative Humidity (Saturation = 100), = 83
RAIN fell on 19 Days; Amount in Inches, = 1.25

| WIND. | SUMMARY. | | | | | | | | | |
|-------|------------|---|----|---|----|---|----|----|----|-------------------|
| | Direction. | N | NE | E | SE | S | SW | W | NW | Calm or Variable. |
| A.M. | | 2 | 0 | 9 | 0 | 0 | 0 | 1 | 0 | 3 |
| P.M. | | 1 | 0 | 9 | 0 | 0 | 1 | 2 | 0 | 8 |
| Mean. | | 2 | 0 | 9 | 0 | 0 | 0 | 15 | 0 | 5 |

Observations made and Return verified by J. R. Johnston

(Signed)

SCOTTISH METEOROLOGICAL SOCIETY.

Observations taken at Corstorphine House, County of Mid Lothian, in Lat. 55° 52' 31" N, Long. 3° 16' 41" W, Distance from Sea 2 1/2 miles.Height of Cistern of the Barometer above Mean Sea-Level 165 feet, above Ground 6 feet.During the MONTH of November 1902.

The Hours of Observation are of Greenwich Time.

| ELECTRICITY. | Days of Month. | BAROMETER. | | | | SELF-REGISTERING THERMOMETERS. Read Daily, at 9 P.M. | | | | HYGROMETER. | | | | Rain. | WIND. | | | | CLOUDS. | | | | SUNSHINE. Hours. | THERMOMETERS under Ground. | | | SEA. | OZONE. | GENERAL REMARKS. As to occurrence of Thunder, Lightning, Storms, Hail, Meteors, Remarkable Depression or Elevation of Barometer, Prevalent Diseases, etc. <i>Mention the hour at which Storms, including Thunder and Lightning, began and ended.</i> | Days of Month. | | | | | | |
|--|----------------|----------------|-------------------------|------------|-------------------------|---|-------------|-------------------------------------|-------------------|--------------|--------------|--------------|--------------|-------|---|------|------------|-------|------------|--------|---|---|-------------------------|--------------------------------------|---|--------------------------------------|-------|--------|--|----------------|---------------------|----------------------|----------------------|-----|-----|-----|
| | | 9 h. A.M. | | 9 h. P.M. | | Protected in Shade, 4 feet above Ground. | | Exposed Black Bulbs, Sun-rays | | 9 h. A.M. | | 9 h. P.M. | | | 9 h. A.M. | | 9 h. P.M. | | 9 A.M. | | P.M. | | | 9 h. A.M. | | | | | | | | | | | | |
| | | Barometer. | Attached Thermometer | Barometer. | Attached Thermometer | Max. No. | Min. No. | Max. in Sun-rays | Min. on Grass. | Dry bulb. | Wet bulb. | Dry bulb. | Wet bulb. | | No. of hours in which it fell. | No. | Direction. | Force | Direction. | Force | Readings of the H. Cap Anemometer. No. | Velocity (0-6) (0-10), and Species. | | Amount (0-10), and Species. | Velocity (0-6) (0-10), and Species. | Amount (0-10), and Species. | | | | | No. 3 inches. | No. 12 inches. | No. 22 inches. | | | |
| | | * No. | No. | No. | No. | No. | No. | No. | No. | No. | No. | No. | No. | | No. | No. | No. | No. | No. | No. | No. | No. | | No. | No. | No. | | | | | No. | No. | No. | No. | No. | No. |
| | | inches. | ° | inches. | ° | ° | ° | ° | ° | ° | ° | ° | ° | | ° | ° | ° | ° | ° | ° | ° | ° | | ° | ° | ° | | | | | ° | ° | ° | ° | ° | ° |
| | 1 | 29.716 | 57.8 | 30.084 | 57.5 | 54.3 | 37.2 | 91.8 | 47.4 | 54.0 | 51.3 | 37.8 | 36.3 | — | W. | 2 | — | — | — | St. 8 | — | — | — | — | — | 49.3 | 48.5 | 48.5 | | 1 | | | | | | |
| | 2 | 30.122 | 54.3 | 29.964 | 56.0 | 50.8 | 32.8 | 98.5 | 24.3 | 37.6 | 36.0 | 40.8 | 38.9 | — | N. | 5 | W. | 1 | — | St. 5 | — | — | — | — | — | 40.6 | 47.4 | 48.5 | | 2 | | | | | | |
| | 3 | 29.800 | 54.6 | 29.964 | 56.5 | 54.3 | 38.1 | 95.3 | 30.0 | 46.1 | 44.3 | 46.2 | 45.1 | — | W. | 1 | — | — | — | St. 10 | St. 3 | — | — | — | — | 43.2 | 46.4 | 47.6 | | 3 | | | | | | |
| | 4 | 29.950 | 55.6 | 29.824 | 58.0 | 57.3 | 41.8 | 99.8 | 38.4 | 46.8 | 45.5 | 47.8 | 44.4 | — | E. | 5 | E. | 1.5 | — | St. 5 | St. 10 | — | — | — | — | 45.4 | 46.3 | 47.4 | | 4 | | | | | | |
| | 5 | 29.642 | 55.5 | 29.419 | 57.4 | 50.2 | 46.7 | 67.4 | 43.6 | 47.4 | 43.8 | 50.1 | 48.0 | — | S. | 1 | S. | 1 | — | St. 4 | St. 8 | — | — | — | — | 46.4 | 47.1 | 47.5 | | 5 | | | | | | |
| | 6 | 29.406 | 56.4 | 29.378 | 58.7 | 58.9 | 49.5 | 97.0 | 42.3 | 53.2 | 50.4 | 57.2 | 49.7 | .05 | S. | 5 | E. | 1 | — | — | St. 7 | — | — | — | — | 47.3 | 47.2 | 47.3 | | 6 | | | | | | |
| | 7 | 29.116 | 57.8 | 29.364 | 58.5 | 56.4 | 42.1 | 69.8 | 47.9 | 52.8 | 51.4 | 42.3 | 40.2 | — | E. | 1 | E. | 5 | — | St. 10 | — | — | — | — | — | 49.5 | 48.4 | 47.8 | | 7 | | | | | | |
| | 8 | 29.246 | 56.4 | 28.882 | 57.0 | 47.8 | 41.5 | 74.8 | 32.9 | 45.8 | 43.0 | 44.9 | 42.3 | .28 | E. | 1 | S.W. | 2 | — | — | St. 8 | — | — | — | — | 44.5 | 42.3 | 43.0 | | 8 | | | | | | |
| | 9 | 29.918 | 55.7 | 29.314 | 57.0 | 52.1 | 47.8 | 87.4 | 39.5 | 47.4 | 44.7 | 45.6 | 43.0 | .08 | W. | 1 | W. | 1.5 | — | St. 5 | St. 4 | — | — | — | — | 45.2 | 46.6 | 47.5 | | 9 | | | | | | |
| | 10 | 29.518 | 55.9 | 29.628 | 58.2 | 42.8 | 42.2 | 90.0 | 36.7 | 44.6 | 43.2 | 45.2 | 43.1 | .01 | W. | 1 | — | — | — | — | St. 4 | — | — | — | — | — | 43.8 | 46.4 | 47.2 | | 10 | | | | | |
| | 11 | 29.576 | 55.2 | 29.328 | 56.5 | 48.8 | 42.0 | 62.4 | 35.4 | 44.3 | 42.1 | 47.3 | 45.1 | .03 | E. | 1 | E. | 1 | — | St. 8 | St. 10 | — | — | — | — | 43.0 | 46.8 | 46.7 | | 11 | | | | | | |
| | 12 | 29.150 | 55.0 | 29.698 | 56.5 | 52.2 | 44.9 | 92.5 | 38.6 | 47.8 | 43.9 | 50.2 | 46.2 | .01 | W. | 2 | S.W. | 3 | — | — | St. 8 | — | — | — | — | 44.5 | 45.6 | 46.4 | | 12 | | | | | | |
| | 13 | 29.720 | 55.8 | 29.426 | 58.0 | 54.1 | 48.4 | 67.9 | 47.2 | 53.4 | 50.1 | 48.7 | 46.1 | — | W. | 1.5 | S.W. | 2 | — | St. 8 | — | — | — | — | — | 47.3 | 46.0 | 46.2 | | 13 | | | | | | |
| | 14 | 30.144 | 55.4 | 30.158 | 57.8 | 52.6 | 39.0 | 83.2 | 31.0 | 38.9 | 37.3 | 48.7 | 45.3 | — | E. | 5 | E. | 5 | — | — | St. 9 | — | — | — | — | 43.2 | 46.5 | 46.8 | | 14 | | | | | | |
| | 15 | 30.168 | 55.9 | 30.132 | 58.5 | 55.9 | 47.0 | 83.2 | 41.0 | 40.8 | 42.6 | 49.3 | 45.8 | — | S. | 1 | — | — | — | St. 5 | St. 8 | — | — | — | — | 46.0 | 45.5 | 46.2 | | 15 | | | | | | |
| | 16 | 30.132 | 56.1 | 30.238 | 56.8 | 49.8 | 33.2 | 85.5 | 28.5 | 40.9 | 38.0 | 42.6 | 39.9 | — | S. | 5 | E. | 1 | — | — | St. 10 | — | — | — | — | 42.3 | 46.1 | 46.2 | | 16 | | | | | | |
| | 17 | 30.282 | 55.2 | 30.300 | 55.0 | 48.1 | 37.9 | 88.3 | 34.0 | 41.8 | 38.3 | 38.1 | 35.9 | — | E. | 1 | E. | 1 | — | — | — | — | — | — | — | 42.9 | 45.2 | 46.1 | | 17 | | | | | | |
| | 18 | 30.332 | 52.8 | 30.330 | 53.5 | 44.1 | 36.9 | 70.6 | 27.4 | 38.6 | 35.8 | 38.9 | 36.1 | — | S. | 1 | E. | 1 | — | — | St. 10 | — | — | — | — | 39.1 | 44.3 | 45.6 | | 18 | | | | | | |
| | 19 | 30.226 | 51.6 | 30.192 | 53.0 | 43.2 | 38.1 | 74.9 | 32.6 | 39.7 | 35.4 | 40.7 | 36.6 | — | E. | 1 | E. | 1.5 | — | — | St. 6 | — | — | — | — | 39.1 | 43.0 | 44.5 | | 19 | | | | | | |
| | 20 | 30.224 | 51.3 | 30.188 | 52.8 | 45.3 | 35.2 | 71.8 | 32.3 | 40.6 | 36.7 | 40.0 | 37.3 | — | E. | 1 | E. | 1 | — | — | — | — | — | — | — | 39.7 | 42.5 | 44.3 | | 20 | | | | | | |
| | 21 | 30.116 | 50.7 | 29.944 | 52.0 | 40.7 | 30.0 | 74.4 | 22.4 | 33.5 | 30.2 | 34.3 | 32.5 | — | E. | 5 | E. | 1 | — | — | — | — | — | — | — | 35.5 | 41.8 | 43.7 | | 21 | | | | | | |
| | 22 | 29.862 | 50.8 | 29.686 | 49.9 | 38.7 | 30.9 | 47.2 | 19.5 | 31.6 | 29.8 | 38.6 | 37.2 | .06 | — | — | E. | 1 | — | — | St. 7 | — | — | — | — | 33.4 | 40.6 | 43.4 | | 22 | | | | | | |
| | 23 | 29.614 | 49.7 | 29.640 | 51.2 | 43.8 | 37.7 | 82.9 | 32.5 | 42.8 | 40.7 | 38.3 | 37.3 | — | W. | 1 | — | — | — | St. 5 | — | — | — | — | — | 37.5 | 40.0 | 42.8 | | 23 | | | | | | |
| | 24 | 29.538 | 49.5 | 29.248 | 52.2 | 46.0 | 29.9 | 51.9 | 23.5 | 31.2 | 31.0 | 46.1 | 44.0 | .08 | — | — | E. | 2.5 | — | — | St. 10 | St. 10 | — | — | — | 35.4 | 40.2 | 42.8 | | 24 | | | | | | |
| | 25 | 29.200 | 50.7 | 29.264 | 53.5 | 50.6 | 45.5 | 70.2 | 42.4 | 48.5 | 46.1 | 47.5 | 45.8 | .01 | S. | 1 | E. | 1 | — | St. 8 | St. 8 | — | — | — | — | 42.8 | 40.5 | 42.7 | | 25 | | | | | | |
| | 26 | 29.300 | 52.8 | 29.402 | 53.5 | 49.4 | 42.4 | 66.1 | 36.7 | 47.9 | 44.8 | 43.0 | 42.3 | .01 | E. | 5 | — | — | — | St. 5 | St. 10 | — | — | — | — | 42.8 | 42.5 | 42.6 | | 26 | | | | | | |
| | 27 | 29.398 | 53.0 | 29.268 | 55.0 | 49.6 | 38.0 | 68.9 | 31.5 | 42.9 | 42.1 | 41.0 | 39.2 | — | N. | 5 | E. | 5 | — | St. 3 | — | — | — | — | — | 42.0 | 42.4 | 42.5 | | 27 | | | | | | |
| | 28 | 28.996 | 52.3 | 28.928 | 55.5 | 46.8 | 40.5 | 48.8 | 33.4 | 45.0 | 43.3 | 46.0 | 43.8 | .21 | S. | 1 | E. | 1 | — | St. 10 | St. 10 | — | — | — | — | 42.4 | 42.5 | 42.3 | | 28 | | | | | | |
| | 29 | 29.240 | 52.3 | 29.454 | 54.0 | 46.1 | 36.1 | 56.9 | 28.0 | 36.7 | 35.4 | 45.0 | 43.8 | .06 | E. | 1 | E. | 1 | — | — | — | — | — | — | — | 39.8 | 42.6 | 43.0 | | 29 | | | | | | |
| | 30 | 29.626 | 53.2 | 29.624 | 52.5 | 45.9 | 38.5 | 71.3 | 38.8 | 44.9 | 42.5 | 39.5 | 37.6 | .02 | E. | 5 | E. | 1.5 | — | St. 10 | St. 10 | — | — | — | — | 42.4 | 42.5 | 42.9 | | 30 | | | | | | |
| | 31 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | 31 | | | | | | |
| Sum. | | 13 10 11 14 16 | 14 15 15 | 17 11 | 16 14 | 16 13 | 15 15 | 15 13 | 14 16 | 12 12 | 15 12 | 16 12 | | 5 | 5 | 4 | | | | | | | | | | 75 13 | 13 12 | 16 14 | | | | | | | | |
| Means. | | 20.578 | 121.1 | 20.635 | 163.2 | 281.6 | 277.7 | 240.5 | 14 0.0 | 116.7 | 46.9 | 116.1 | 49.6 | .91 | 26.0 | 30.0 | | | 10.4 | 16.6 | | | | | 77.8 | 3.1 | 0.4 | | | | | | | | | |
| + Total Corrections for Instrumental Errors. | | 29.419 | 54.0 | 29.688 | 55.4 | 49.4 | 39.9 | 76.3 | 34.7 | 43.9 | 41.6 | 43.9 | 41.6 | | 0.87 | 1.00 | | | 3.5 | 5.5 | | | | | 42.6 | 44.4 | 45.3 | | | | | | | | | |
| + Corrections for Diurnal Range. | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| "Corrected Means." | | 29.751 | | 29.720 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| No. of Column. | | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | 24 | 25 | 26 | 27 | 28 | 29 | 30 | | | | | |

| NOTATION USED IN GENERAL REMARKS. | | | | | |
|-----------------------------------|-------------------|----------|-------------------------|--|--|
| a. | denotes aurora. | ni. | denotes meteor. | | |
| ci. | " cirrus. | ms. | " meteors. | | |
| ci.-cu. | " cirro-cumulus. | n. | " nimbus. | | |
| ci.-s. | " cirro-stratus. | r. | " rain. | | |
| cu. | " cumulus. | h. r. | " heavy rain. | | |
| cu.-s. | " cumulo-stratus. | c. h. r. | " continued heavy rain. | | |
| d. | " dew. | s. | " stratus. | | |
| f. | " fog. | sc. | " squall. | | |
| fr. | " frost. | s. | " sleet. | | |
| h.-fr. | " hoar-frost. | s. | " snow. | | |
| h. | " haze. | so. ha. | " solar halo. | | |
| h. d. | " heavy dew. | sq. | " squall. | | |
| l. | " hail. | sq. | " squalls. | | |
| li. | " lightning. | t. | " thunder. | | |
| li. cl. | " light clouds. | t. s. | " thunder-storm. | | |
| li. sh. | " light showers. | w. | " wind. | | |
| lu. co. | " lunar corona. | g. | " gale of wind. | | |
| lu. ha. | " lunar halo. | | | | |

| TABLE FOR ESTIMATING FORCE OF WIND. | | | | | |
|-------------------------------------|---------------------|-----------------------|---------------------|-----------------------|---------------------|
| Estimated Force, 0-6. | Common Designation. | Estimated Force, 0-6. | Common Designation. | Estimated Force, 0-6. | Common Designation. |
| 0 | Calm | 1.5 | Light breeze | 4 | Blowing hard |
| 0.5 | Very light air | 2 | Fresh breeze | 5 | Blowing a gale |
| 1 | Light air | 3 | Very fresh | 6 | Violent gale |

NOTATION USED IN GENERAL REMARKS.

| | | | |
|---------|-----------------|----------|-----------------|
| a. | denotes aurora. | nl. | denotes meteor. |
| ci. | " " | ms. | " " |
| ci.-cu. | " " | n. | " " |
| ci.-s. | " " | r. | " " |
| cu. | " " | h. r. | " " |
| cu.-s. | " " | c. h. r. | " " |
| d. | " " | s. | " " |
| f. | " " | so. | " " |
| fr. | " " | sq. | " " |
| h.-fr. | " " | s. | " " |
| h. | " " | so. ha. | " " |
| h. d. | " " | sq. | " " |
| li. | " " | sq. | " " |
| l. | " " | t. | " " |
| li. cl. | " " | t. s. | " " |
| li. sh. | " " | w. | " " |
| lu. co. | " " | g. | " " |
| lu. ha. | " " | | " " |

TABLE FOR ESTIMATING FORCE OF WIND.

| Estimated Force, 0-6. | Common Designation. | Estimated Force, 0-6. | Common Designation. | Estimated Force, 0-6. | Common Designation. |
|-----------------------|---------------------|-----------------------|---------------------|-----------------------|---------------------|
| 0 | Calm | 1.5 | Light breeze | 4 | Blowing hard |
| 0.5 | Very light air | 2 | Fresh breeze | 5 | Blowing a gale |
| 1 | Light air | 3 | Very fresh | 6 | Violent gale |

BAROMETER, "corrected Mean" at 9 A.M., minus the Correction \ddagger for Temp. (Col. 2), = 29.684
"Corrected Mean" of Barometer at 9 P.M., minus the Correction \ddagger for Temp. (Col. 4), = 29.647
Mean at Station, corrected, and at 32°, = 29.649
Correction for height, feet above Mean Sea-level, = .152
Mean, reduced to 32°, and Sea-level, = 29.837
Highest Reading, corrected for Index error, on the 18 th, = 30.364
Lowest Do. Do., on the 8 th, = 28.914
Difference, or Monthly Range, = 1.450

S.-R. THERMOMETER, (in shade, etc.), Highest in Month, (corrected for Index Errors), on the 6 th, = 58.9
Lowest in Month, corrected for Index errors, on the 24 th, = 29.9
Difference, or Monthly Range, = 29.0
"Corrected Mean" of all the Highest, (Col. 5), = 49.4
"Corrected Mean" of all the Lowest, (Col. 6), = 39.9
Difference, or Mean Daily Range, = 9.5
** Calculated Mean Temperature of Month, = 44.6
S.-R. THERMOMETER, Black Bulb in Sun, Highest, (corrected for Index Errors), on the 4 th, = 99.8
"Corrected Mean," (Col. 7), of Black Bulb, Max. in Sun, = 76.3
Lowest at Night, Black Bulb (corrected for Index errors), on the 22 th, = 19.5
"Corrected Mean," (Col. 8), of Black Bulb, Min. on grass, = 34.7
Difference of above means or range ("exposed"), = 41.6

HYGROMETER, Mean (corrected) A.M. and P.M. Reading of Dry Bulb, (Cols. 9 and 11), = 43.9
Mean (corrected) A.M. and P.M. Reading of Wet Bulb, (Cols. 10 and 12), = 41.6
†† Computed Temperature of Dew-Point, = 38.9
†† Do. Elastic Force of Vapour, = .238
†† Do. Weight of Vapour in a Cubic Foot of Air, =
†† Relative Humidity (Saturation = 100), = 83
RAIN fell on 13 Days; Amount in Inches, = .91

| WIND. | | SUMMARY. | | | | | | | | | |
|------------|---|----------|----|----|---|----|---|----|-------------------|-------------|--------------------------------|
| Direction. | N | NE | E | SE | S | SW | W | NW | Calm or Variable. | Mean Force. | Mean Velocity in miles per day |
| A.M. | 2 | 0 | 12 | 0 | 7 | 0 | 7 | 0 | 2 | 0.87 | |
| P.M. | 0 | 0 | 18 | 0 | 1 | 3 | 2 | 0 | 6 | 1.00 | |
| Mean. | 1 | 0 | 15 | 0 | 4 | 2 | 4 | 0 | 4 | 0.93 | 0.86 |

Observations made and Return verified by H. N. Johnston

(Signed)

SCOTTISH METEOROLOGICAL SOCIETY.

Observations taken at Gorleston, County of Mid Lothian, in Lat. 55° 51' 31" N Long 3° 14' 44" W Distance from Sea miles.

Height of Cistern of the Barometer above Mean Sea-Level 165 feet, above Ground 6 feet.

During the MONTH of December 1902.

The Hours of Observation are of Greenwich Time.

| ELECTRICITY. | Days of Month. | BAROMETER. | | | | SELF-REGISTERING THERMOMETERS. Read Daily, at 9 P.M. | | | | HYGROMETER. | | | | Rain. | WIND. | | | | CLOUDS. | | | | THERMOMETERS under Ground. | | | | SEA. | OZONE. | GENERAL REMARKS. As to occurrence of Thunder, Lightning, Storms, Hail, Meteors, Remarkable Depression or Elevation of Barometer, Prevalent Diseases, etc. Mention the hour at which Storms, including Thunder and Lightning, began and ended. | Days of Month. | | | |
|--|----------------|------------|--------------------------|------------|--------------------------|---|-------|-------------------------|-------------------|-------------|-----------|-----------|-----------|-------|---|-------------------------|------------|--------|------------|--------|--|--------------------------------------|--|--------------------------------------|------------------|-------------------|------|--------|--|----------------|-------------------|-----|-----|
| | | 9 h. A.M. | | 9 h. P.M. | | Protected in Shade, 4 feet above Ground. | | Exposed Black Bulbs. | | 9 h. A.M. | | 9 h. P.M. | | | 9 h. A.M. | | 9 h. P.M. | | 9 A.M. | | P.M. | | 9 h. A.M. | | P.M. | | | | | | | | |
| | | Barometer. | Attached Thermometer. | Barometer. | Attached Thermometer. | Max. | Min. | Max. in Sun's rays. | Min. on Grass. | Dry bulb. | Wet bulb. | Dry bulb. | Wet bulb. | | No. of hours in which it fell. | Amount in inches. | Direction. | Force. | Direction. | Force. | Velocity (0-10), and Direction. | Amount (0-10), and Species. | Velocity (0-10), and Direction. | Amount (0-10), and Species. | No. 3 inches. | No. 12 inches. | | | | | No. 27 inches. | | |
| | | * No. | No. | No. | No. | No. | No. | No. | No. | No. | No. | No. | No. | | No. | No. | No. | No. | No. | No. | No. | No. | No. | No. | No. | No. | | | | | No. | No. | No. |
| | | inches. | ° | inches. | ° | ° | ° | ° | ° | ° | ° | ° | ° | | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | | | | | ° | ° | ° |
| | 1 | 29.450 | 505 | 29.144 | 528 | 432 | 388 | 441 | 379 | 419 | 400 | 417 | 404 | 19 | E | 1.5 | SE | 2.5 | SE | 10 | 2 | 10 | 411 | 423 | 427 | | | | | 1 | | | |
| | 2 | 29.238 | 512 | 29.588 | 522 | 421 | 389 | 409 | 375 | 413 | 394 | 399 | 379 | 08 | E | 1 | E | 2 | SE | 10 | 2 | 10 | 409 | 422 | 427 | | | | | 2 | | | |
| | 3 | 29.950 | 502 | 30.336 | 518 | 402 | 322 | 513 | 307 | 357 | 340 | 332 | 328 | | E | 1 | | | | | | | 388 | 421 | 426 | | | | | 3 | | | |
| | 4 | 30.450 | 487 | 30.510 | 488 | 354 | 244 | 537 | 189 | 273 | 270 | 286 | 279 | | E | 1.5 | | | | | | | 340 | 406 | 417 | | | | | 4 | | | |
| | 5 | 30.414 | 475 | 30.350 | 473 | 334 | 284 | 535 | 278 | 307 | 298 | 321 | 313 | | | | E | 5 | SE | 10 | 2 | 8 | 382 | 389 | 412 | | | | | 5 | | | |
| | 6 | 30.292 | 473 | 30.274 | 476 | 358 | 292 | 629 | 306 | 342 | 324 | 302 | 297 | | E | 1 | 22 | 5 | SE | 6 | | | 347 | 386 | 411 | | | | | 6 | | | |
| | 7 | 30.286 | 447 | 30.274 | 438 | 304 | 178 | 632 | 129 | 223 | 200 | 191 | 188 | | | | | | | | | | 320 | 376 | 398 | | | | | 7 | | | |
| | 8 | 30.214 | 435 | 30.172 | 455 | 385 | 174 | 402 | 143 | 278 | 274 | 385 | 361 | | | | E | 15 | SE | 8 | 2 | 6 | 314 | 372 | 396 | | | | | 8 | | | |
| | 9 | 30.184 | 450 | 30.250 | 468 | 421 | 294 | 621 | 256 | 391 | 382 | 393 | 376 | | E | 1 | E | 15 | | | | | 320 | 365 | 387 | | | | | 9 | | | |
| | 10 | 30.314 | 468 | 30.272 | 472 | 408 | 360 | 625 | 301 | 359 | 350 | 399 | 371 | 05 | E | 1 | E | 1 | | | | | 339 | 364 | 395 | | | | | 10 | | | |
| | 11 | 30.176 | 475 | 30.022 | 495 | 401 | 368 | 480 | 356 | 392 | 374 | 371 | 353 | | E | 1 | E | 1 | SE | 8 | 2 | 10 | 360 | 365 | 372 | | | | | 11 | | | |
| | 12 | 29.900 | 474 | 29.724 | 470 | 381 | 290 | 602 | 311 | 339 | 340 | 327 | 310 | | E | 1 | | | SE | 8 | 2 | 5 | 365 | 370 | 381 | | | | | 12 | | | |
| | 13 | 29.550 | 479 | 29.706 | 500 | 491 | 306 | 752 | 257 | 460 | 430 | 435 | 403 | | 71 | 2 | W | 2 | | | | | 374 | 373 | 385 | | | | | 13 | | | |
| | 14 | 29.490 | 499 | 29.356 | 535 | 534 | 335 | 679 | 337 | 508 | 465 | 455 | 445 | 61 | W | 4 | W | 1 | | | | | 403 | 384 | 385 | | | | | 14 | | | |
| | 15 | 29.382 | 515 | 29.790 | 529 | 465 | 368 | 504 | 348 | 409 | 386 | 387 | 314 | 35 | W | 1 | W | 1 | | | | | 405 | 402 | 395 | | | | | 15 | | | |
| | 16 | 29.170 | 511 | 29.412 | 532 | 527 | 385 | 624 | 337 | 495 | 462 | 439 | 425 | 11 | W | 2.5 | W | 5 | SE | 3 | 2 | 10 | 424 | 407 | 403 | | | | | 16 | | | |
| | 17 | 29.584 | 525 | 29.624 | 525 | 447 | 378 | 604 | 311 | 380 | 353 | 390 | 359 | 02 | W | 1 | W | 1 | | | | | 395 | 404 | 404 | | | | | 17 | | | |
| | 18 | 29.416 | 514 | 29.674 | 518 | 454 | 366 | 638 | 302 | 404 | 387 | 397 | 372 | 04 | W | 1.5 | W | 2 | SE | 4 | | | 387 | 395 | 402 | | | | | 18 | | | |
| | 19 | 30.032 | 502 | 29.944 | 530 | 467 | 368 | 645 | 284 | 389 | 361 | 458 | 440 | | W | 1 | W | 1 | | | | | 362 | 389 | 400 | | | | | 19 | | | |
| | 20 | 29.944 | 516 | 30.050 | 546 | 491 | 448 | 537 | 387 | 462 | 445 | 478 | 464 | | W | 1 | W | 1 | | | | | 412 | 395 | 402 | | | | | 20 | | | |
| | 21 | 30.162 | 528 | 30.240 | 538 | 517 | 455 | 690 | 400 | 482 | 470 | 459 | 446 | | W | 1.5 | W | 5 | SE | 5 | | | 426 | 405 | 405 | | | | | 21 | | | |
| | 22 | 30.262 | 535 | 30.284 | 549 | 458 | 424 | 456 | 384 | 445 | 427 | 428 | 408 | | W | 1 | W | 1 | SE | 8 | 2 | 5 | 425 | 407 | 404 | | | | | 22 | | | |
| | 23 | 30.266 | 543 | 30.264 | 566 | 453 | 418 | 469 | 401 | 433 | 411 | 457 | 429 | | W | 1.5 | W | 1 | SE | 10 | 2 | 10 | 415 | 400 | 403 | | | | | 23 | | | |
| | 24 | 30.032 | 578 | 29.910 | 572 | 489 | 461 | 568 | 425 | 477 | 450 | 482 | 466 | 02 | W | 2 | W | 2 | SE | 10 | | | 434 | 415 | 412 | | | | | 24 | | | |
| | 25 | 29.518 | 514 | 29.650 | 504 | 502 | 387 | 495 | 445 | 485 | 448 | 454 | 432 | 17 | W | 3 | W | 2 | | | | | 450 | 422 | 415 | | | | | 25 | | | |
| | 26 | 29.728 | 498 | 29.600 | 500 | 508 | 393 | 565 | 395 | 400 | 376 | 507 | 479 | 02 | W | 1 | W | 2 | | | | | 395 | 420 | 416 | | | | | 26 | | | |
| | 27 | 29.638 | 502 | 29.172 | 505 | 516 | 468 | 525 | 416 | 498 | 467 | 517 | 486 | 28 | W | 2 | W | 2 | SE | 10 | 2 | 10 | 447 | 428 | 419 | | | | | 27 | | | |
| | 28 | 29.950 | 484 | 29.776 | 468 | 405 | 325 | 498 | 305 | 337 | 328 | 334 | 318 | 16 | W | 2.5 | W | 2 | SE | 10 | | | 378 | 421 | 435 | | | | | 28 | | | |
| | 29 | 29.430 | 452 | 29.360 | 455 | 394 | 317 | 732 | 287 | 362 | 349 | 393 | 368 | 03 | W | 2 | W | 5 | SE | 10 | 2 | 10 | 345 | 400 | 410 | | | | | 29 | | | |
| | 30 | 28.572 | 450 | 28.790 | 453 | 404 | 364 | 521 | 315 | 387 | 360 | 400 | 376 | | W | 1 | W | 1 | SE | 8 | 2 | 10 | 371 | 398 | 408 | | | | | 30 | | | |
| | 31 | 29.092 | 447 | 29.250 | 445 | 415 | 298 | 642 | 259 | 343 | 325 | 295 | 282 | 6 | W | 1.5 | W | 5 | SE | 4 | | | 362 | 394 | 403 | | | | | 31 | | | |
| Sums. | | 13.159 | 13.4 | 13.57 | 12.5 | 12.4 | 19.16 | 12.14 | 13.16 | 16.10 | 17.15 | 15.16 | | 21.3 | | 4 | 4 | | | | | 12.12 | 12.93 | | | | | | | | | | |
| Means. | | 23.086 | 23.5 | 23.778 | 309.2 | 115.2 | 154.9 | 214.2 | 82.1 | 295.8 | 234.8 | 298.8 | 272 | | 400 | | 390 | | 142 | | 142 | | 254.5 | 301.8 | 127.4 | | | | | | | | |
| + Total Corrections for Instru- mental Errors. | | 29.745 | 49.1 | 29.767 | 49.9 | 43.7 | 34.9 | 56.9 | 32.7 | 39.5 | 37.6 | 398.37.6 | | | 1.29 | | 1.26 | | 4.6 | | 4.6 | | 38.2 | 39.7 | 40.2 | | | | | | | | |
| + Corrections for Diurnal Range. | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| "Cor- rected Means." | | 29.777 | | 29.799 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| No. of Column. | | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | 24 | 25 | 26 | 27 | 28 | 29 | 30 | | |

| NOTATION USED IN GENERAL REMARKS. | | | | | |
|-----------------------------------|-------------------|-------------|-------------------------|--|--|
| a. | denotes aurora. | m. | denotes meteor. | | |
| ci. | " cirrus. | ms. | " meteors. | | |
| ci. cu. | " cirro-cumulus. | n. | " nimbus. | | |
| ci. s. | " cirro-stratus. | r. | " rain. | | |
| cu. | " cumulus. | c. h. r. | " heavy rain. | | |
| cu. s. | " cumulo-stratus. | s. c. h. r. | " continued heavy rain. | | |
| d. | " dew. | s. | " sleet. | | |
| f. | " fog. | sc. | " squall. | | |
| fr. | " frost. | s. | " snow. | | |
| h. fr. | " hoar-frost. | so. ha. | " solar halo. | | |
| h. d. | " haze. | sq. | " squall. | | |
| h. d. | " heavy dew. | sq. | " squalls. | | |
| hl. | " hail. | t. | " thunder. | | |
| l. | " lightning. | t. s. | " thunder-storm. | | |
| li. cl. | " light clouds. | w. | " wind. | | |
| li. sh. | " light showers. | g. | " gale of wind. | | |
| lu. co. | " lunar corona. | | | | |
| lu. ha. | " lunar halo. | | | | |

| TABLE FOR ESTIMATING FORCE OF WIND. | | | | | |
|-------------------------------------|------------------------|-----------------------------|------------------------|-----------------------------|------------------------|
| Estimated Force, 0-6. | Common Designation. | Estimated Force, 0-6. | Common Designation. | Estimated Force, 0-6. | Common Designation. |
| 0 | Calm | 1.5 | Light breeze | 4 | Blowing hard |
| 0.5 | Very light air | 2 | Fresh breeze | 5 | Blowing a gale |
| 1 | Light air | 3 | Very fresh | 6 | Violent gale |

BAROMETER, "corrected Mean" at 9 A.M. minus the Correction \ddagger = 29.723
 for Temp. (Col. 2), = 29.723
 "Corrected Mean" of Barometer at 9 P.M. minus the Correction \ddagger = 29.742
 for Temp. (Col. 4), = 29.799
 Mean at Station, corrected, and at 32°, = 29.732
 Correction for height, feet above Mean Sea-level, = 1.84
 Mean, reduced to 32°, and Sea-level, = 29.916
 Highest Reading, corrected for Index error, on the 4 th, = 30.542
 Lowest Do. Do., on the 29 th, = 28.392
 Difference, or Monthly Range, = 2.150

S.-R. THERMOMETER, (in shade, etc.), Highest in Month, (corrected for Index Errors), on the 14th, = 53.4
 Lowest in Month, corrected for Index errors, on the 8 th, = 17.4
 Difference, or Monthly Range, = 36.0
 "Corrected Mean" of all the Highest, (Col. 5), = 43.7
 "Corrected Mean" of all the Lowest, (Col. 6), = 34.9
 Difference, or Mean Daily Range, = 8.8
 ** Calculated Mean Temperature of Month, = 39.3
 S.-R. THERMOMETER, Black Bulb in Sun, Highest, (corrected for Index Errors), on the 13 th, = 75.2
 "Corrected Mean," (Col. 7), of Black Bulb, Max. in Sun, = 56.9
 Lowest at Night, Black Bulb (corrected for Index errors), on the 7 th, = 12.9
 "Corrected Mean," (Col. 8), of Black Bulb, Min. on grass, = 32.7
 Difference of above means or range ("exposed"), = 24.2

HYGROMETER, Mean (corrected) A.M. and P.M. Reading of Dry Bulb, (Cols. 9 and 11), = 39.6
 Mean (corrected) A.M. and P.M. Reading of Wet Bulb, (Cols. 10 and 12), = 37.6
 ** Computed Temperature of Dew-Point, = 35.0
 ** Do. Elastic Force of Vapour, = 120.4
 ** Do. Weight of Vapour in a Cubic Foot of Air, = 84
 ** Relative Humidity (Saturation = 100), = 84
 RAIN fell on 14 Days; Amount in Inches, = 2.13

| WIND. | | SUMMARY. | | | | |
|------------|--|----------|----|---|----|----|
| Direction. | | N | NE | E | SE | SW |
| A.M. | | 1 | 0 | 9 | 0 | 0 |
| P.M. | | 4 | 0 | 6 | 1 | 0 |
| Mean. | | 3 | 0 | 7 | 1 | 0 |

| | Calm or Variable. | Mean Force. | Mean Velocity in miles per day |
|-------|-------------------|-------------|--------------------------------|
| A.M. | 3 | 1.29 | |
| P.M. | 4 | 1.26 | |
| Mean. | 3 | 1.27 | 1.61 |

Observations made and Return verified by D. Johnston Gorleston House
pro A. Duane

(Signed)

INSTRUCTIONS FOR TAKING METEOROLOGICAL OBSERVATIONS,

WITH REMARKS ON THE USE OF INSTRUMENTS.

ONE of the chief objects of the SCOTTISH METEOROLOGICAL SOCIETY proposed to itself when the Society was established, in 1855, was to secure PERFECT UNIFORMITY in the system of observation pursued at all its Stations. Uniformity in the observations is absolutely necessary to justify the publication of Monthly Results from different Observations, it being found that differences between the Returns from two Stations, so very considerable as to render them quite incomparable, may arise from dissimilarity in the position or shelter of instruments, different hours of observation, or even from the use of differently constructed instruments. It is therefore hoped, that those who kindly furnish Reports to the Society will, by a scrupulous attention to the following Directions, secure for their Monthly Returns an accuracy and value commensurate with the labour and pains involved in making them; and, for the Tables published by the Society, an entire comparableness among the several Returns, without which the Society's Reports must inevitably fail in achieving one of the main objects of Meteorological Observation.

The Council recommend that Observations be made precisely at 9 A.M. and 9 P.M. (Greenwich or Railway Time only), as specified in the following Remarks, or at the hour of observation of the columns of the Schedule. It is hoped that the utmost punctuality in the time of reading the instruments will be observed. Observers, in some few cases, may find this impossible, in such instances, they are specially requested to mark opposite every reading the time at which it was taken, if not at 9 A.M. or 9 P.M. Weather-Glasses and Aneroids, though well suited to indicate roughly variations of atmospheric pressure, are not fitted for scientific purposes. No Barometer should be used for Meteorological Observation that is not supplied with some means of adjustment or compensation which will ensure that the fluctuating surface of the mercury in the tube is accurately measured from the fluctuating surface of the mercury in the cistern.

The Barometer in which the error arising from the fluctuating surface of the mercury in the cistern is entirely got rid of is Fortin's Barometer, the arrangement consisting in applying pressure by means of a screw to the bottom of the cistern, which is made of flexible leather, thus raising or depressing the surface till it just meets the ivory point which forms the zero point of the fixed scale. The Barometer originally constructed by Mr. Adie of London, and usually called the Board of Trade Barometer, has the great convenience of requiring no adjustment of the cistern. Its scale-inches are not true inches, but so much shorter as to compensate the error that would otherwise arise from the fluctuations of the surface of mercury in the cistern. This is an excellent Barometer for ordinary Observers, inasmuch as it entirely eliminates the error of observation likely to arise in a few cases in setting the instrument to the zero point of the fixed scale when the light is not good. To show the accuracy with which these Barometers are made, it may be stated, that one was compared, during a whole year, with the Society's Standard Barometer, particular care being given to make the comparison when atmospheric pressure was rising or falling very rapidly, with the result that none of the readings differed from those of the Standard more than 0.003 inch.

A modification of Fortin's Barometer is used at a number of the Society's Stations, by which the coincidence of the zero point with the surface of the mercury is indicated by a little ivory float, whose stem passes freely through the lid and case of the cistern. When the index-line on this little piston-rod is brought, by the adjusting screw, to form one straight line with those on its ivory frame, the surface of the mercury is then at the exact height from which the scale is graduated. In taking an observation, this preliminary setting must be made with scrupulous accuracy; as a slight error here will vitiate the readings from the vernier.

It is absolutely necessary that the Barometer which is to be used shall have been compared with a Standard Barometer.

The Barometer should be suspended in as good a light as can be secured, and to facilitate the reading, a piece of white paper may be put behind the tube. It must be hung truly perpendicular, and exposed to neither the sun's direct rays nor the heat of a fire, and must not be hung against a wall heated by a fire. The object being to secure that the whole instrument, including the brass fittings, the contained mercury, and the attached Thermometer, shall be, when read, at one uniform temperature, it is evident that the best position is that which is least liable to sudden changes of temperature. In taking an Observation, the Attached Thermometer is first noted; the tube must then be gently tapped, and the cistern-adjustment carefully made. The eyes, by raising and lowering it, must be brought into the plane of the back and front of the index—usually the lower edge of the vernier, which must be carefully adjusted so as to form exactly a tangent to the convex surface of the mercury in the tube. Observations must be taken quickly, so as to prevent heat from the observer's hands and person from affecting the mercury. The use of a lens will facilitate an accurate adjustment and reading of the Barometer. A mistake not unfrequently made by those beginning to observe, consisting in setting the edge of the vernier to the level of the clear surface of the mercury which is in direct contact with the glass tube, must be carefully avoided.

The errors most frequently made in reading the Barometer are errors of 1.000 inch, 0.500 inch, and 0.050 inch; that is to say, instead of 29.365 inches, either of the following is sometimes set down—viz. as 30.365 inches, 28.365 inches, 29.865 inches, or 29.815 inches. Experience having shown that even the very best Observers make these mistakes, particular attention is directed to the matter. When a Barometer having adjustable surfaces has to be removed from its fastenings, the ivory peg must first be screwed so as to form a tight plug to the cistern, thus preventing the escape of the mercury. Then screw up the ivory not quite to the top of the tube, but to within a quarter of an inch of it, and take down the instrument; it should then be carried with the cistern uppermost. Before suspending the Barometer for use, it must be ascertained whether the space above the mercury in the tube is a complete vacuum; this is the case if, on inclining the instrument, a sharp tap is produced when there is air in the tube, which must be got rid of.

As Barometers are liable to be deranged by the introduction of air into their tubes, on removal from place to place, or in being roughly handled, it may be useful to Observers to know how the air may be expelled. First close up the cistern by screwing the ivory peg tight, so as to prevent the escape of mercury; then screw up the mercury to about half an inch from the top of the tube; and having slowly inverted the instrument, place the top of it on a yielding substance, such as the foot, and gently tap on the cistern with the palm of the hand, so as to induce the air to ascend through the column to the cistern, whence it may escape. Since there is the weight of two atmospheres—the pressure of the mercury in the Barometer, and the air outside—pressing on any air that may be inside the tube, it is usually a tedious operation to get it wholly expelled. After repeated trials, however, it is generally accomplished; and the clear metallic sound of the mercury, when gently struck against the top of the glass tube, will show when the whole of the air has been expelled. On hanging up the Barometer, care must be taken to screw down the mercury in the tube before unscrewing the float of the cistern, for, if this be not attended to, the mercury will flow out, and the instrument be seriously damaged.

correct numbering of the scale of every instrument; the rejection of Thermometers the frameworks of which are not likely to stand exposure to the weather, as shown in the past by repeated and annoying breakages of Thermometers of similar construction; and as regards Maximum Thermometers, either Negretti and Zamboni's, or Phillips's, which they will act at the highest temperatures they may be required to register. By the laws of the Society, Members and Observers have a right to have their instruments compared by the Secretary, and to advise with him regarding the purchase of instruments.

Very great care should be bestowed on the Observations of the Wind. Wind, the accuracy of which, both as regards Direction and Force, is so essential towards the right discussion of many of the more important problems of the science, is a Wind-Vane ought to be elevated at least 12 feet above surrounding objects. When it oscillates incessantly, the mean direction should be taken. In all cases, but especially when the Vane is stationary, and when the wind is feeble, reference may be made to the direction of smoke, etc., in well-exposed situations. Careful observations are recommended to be made on the changes in the direction of the wind; and during storms, extra observations at every hour of Greenwich time. Such a system of simultaneous observation, pursued at different Stations, is likely to give highly valuable and important results, particularly in connection with the system of thickly-planted Stations over a limited district round Edinburgh called STORM STATIONS, in the course of being established by the Society for the systematic investigation of the relation of the force of the wind to BAROMETRIC GRADIENTS, and other points connected with storms.

The Council would recommend the Hemispherical Cup Anemometer, a self-registering instrument which shows the amount of Wind that passes it per day; from which also the mean Velocity of the Wind at the time of observation may be ascertained. For indicating the Force of the Wind at any particular hour of observation, the Pressure Anemometer recently brought under the notice of the Society by Mr. T. Stevenson, the Honorary Secretary, and Mr. R. Ballingall, the Society's Observer at Ballabus, are recommended as likely to secure uniformity in making observations on the Force of the Wind.

Many causes conspire to produce anomalies in Rain Returns, arising partly from the difficulty of obtaining a perfectly unobstructed station for observation, and partly from the defective nature of the instruments used. The Rain Gauge should not be placed on a slope or terrace, but on a level piece of ground, in an open situation as the Observer can secure for it. As it is often difficult to obtain a position as free and unobstructed by surrounding objects as is desirable, care should be taken to place it at some distance from shrubs, trees, buildings, or other obstructions, at least as many feet from their base as they are in height. The more important directions, towards which it is most desirable to have a free exposure, are, in the order of their importance, S.W., N.E., S.E., S., and W. The rim of the gauge must be perfectly level, and fixed so that it will remain level in all weathers, and be at a height of one foot above ground, over grass. In such gauges as Flemings, which are furnished with a measuring-rod attached to a float, the rod ought to be fixed down, and the float rise to its height only at the time the instrument is read, it being found that a stem projecting above the rim of the gauge seriously interferes with the proper measurement of the Rain-fall. When a measuring-glass is used, care should be taken to hold it quite perpendicular. The Rain Gauge ought to be read daily at 9 A.M., and the reading entered in the Returns of the previous day.

If the Gauge is read once a month, the reading is to be made on the first of the month, and the amount entered for the previous month. Snow-falls may, for convenience, be registered in the rain columns, under the following conditions:—When a Snow-shower occurs, it should be noted in the 'Remarks,' and the letter S annexed to the depth of water received in Gauge. The depth of the snow must be measured in some open place where no drift is observed, and registered in addition to, and as a check upon, the indications of the Rain Gauge. For wind, rain, and snow, as indicated in every column, the Observer cannot be too careful to register observations only; and nothing that partakes of the nature of deduction or inference.

Convenient abbreviations for the nomenclature of Clouds will be found on the other side. The amount of Cloud ought to be estimated from the greater or less obscuration of the sky overhead (i.e. within 20° or 30° of the zenith). The strata of Clouds that appear near the horizon are viewed obliquely; and thus, being unable to judge of their amount, we ought not to take them into account in the Clouds column, though their appearance and changes may be noted among the Remarks. The amount of Cloud is expressed on a scale of 0 to 10; thus, when the sky overhead is free from Clouds it is entered 0, when half-covered by Clouds, 5, wholly covered, 10, and so on. Observations of the Clouds are made at 9 A.M. and at sunset, as illustrating the condition and currents of the upper and lower regions of the atmosphere. The entries in the schedule are to be made in the following manner:—Thus, in the column Velocity and Direction, 9, S.W. will indicate that the upper strata of Clouds travel with a velocity from S.W., and those in the lower regions from W., with one-third the speed of the former. Again, in the second Cloud column, an entry of 2, east, will indicate that the higher regions are covered to the amount of 4-tenths with stratus Clouds; and at the sky is further obscured to the extent of 2-tenths by lower Clouds of the cumulo stratus kind.

Remarks on peculiar Clouds, accompanied with drawings, will assist materially in the development of a more exact nomenclature of Clouds, as well as throw light on the electrical, and other of the more obscure phenomena of Meteorology. The approximate number of hours in which objects in the sun's rays cast shadows, should be entered in the proper column. As the germination and growth of crops and plants generally depend greatly on the temperature of the soil, the underground temperature and consistency—the Council recommend that Thermometers be placed in the ground, at intervals of 12 inches, at 9 A.M., by Thermometers in this manner fixed in the ground, bulbs being sunk to depths of 3, 12, and 24 inches, and the stems in collars, to prevent rain-water being conveyed to the bulbs by the stems of roots of trees. A knowledge of the Temperature of the Sea is not only in itself, of but in its relation to that of our island, a most important branch of Meteorology. The Council therefore carefully taken by the Society constructed apparatus, from boats, or if this be impracticable, from the sides of ships and rocks round the coast, where it is not influenced by that of river water, and as little influenced as possible by currents sweeping along the coast, and thus acquiring the temperature of the land, after greatly heated by the sun or cooled by nocturnal radiation. At or near the time of high

water, in cases where the observations cannot be taken daily, the observation may be made on the 5th, 15th, and 25th of each month. When convenient, extra Sea Observations might be taken for Hour of Observation. It is also very desirable that observations on the daily Maxima and Minima by Thermometers continuously immersed, be instituted at points along the coast, by the method proposed by Mr. T. Stevenson, and already commenced at Peterhead and Liverpool. The Temperature of the water at the bottom of Wells ought, temperature well and of the water being noted. Mention what Test-Papers are used, Schönbein's or Moffat's, etc. The Paper is affixed by a pin to a board in the Thermometer Box, and the indications registered at 9 A.M. and 9 P.M. It is desired that these indications be registered in connection with the force and direction of the wind at the time of observation, in the following manner:—thus 35.w., as an Ozone entry in the schedule will indicate that the Ozone paper is tinted as 3 on the scale, that the wind is from the N.W., and that its force on the scale 0—5 is 4, or blowing fresh.

Too much importance cannot be attached to the electric condition of the atmosphere in connection with terrestrial magnetism, barometrical, thermometrical, and meteorological phenomena generally. A proper Electrometer is, in truth, necessary to every complete meteorological observatory. The Remarks column is unavoidably too narrow. Some of the most valuable Observations that can be taken are those for which no rules can be given nor hours assigned. The use of contractions ought, therefore, to be taken every advantage of, and a list of such as are in general use is given at the foot of the column. Besides special and extraordinary Observations, great prominence ought to be given in this column to prevalent Diseases, differences in character, colour, velocity, and direction between the Lower and Upper Strata of clouds, the Colour of the Sky, etc. Remarks ought to be made on the occurrence of Meteors, Auroral Boreas, remarkable depressions, elevations, and fluctuations of the Barometer, Thunder-Storms, and remarkable falls of Snow, Hail, or Rain, the Hour of Storms of Wind commencing, attaining their maximum, and ending as well as such Notes on Storms as have been hinted at above. When lofty hills are in the vicinity of a Station, the Height of Clouds and of the Snow-line in winter should be recorded. By the use of observations, the state of the weather at 9 A.M. and 9 P.M. should be registered, either in two columns, otherwise unoccupied, or ruled off for the purpose, from the column of 'Remarks.' Observations in connection with the Periodic Return of the Seasons, possess not only great scientific value, but connection with are of considerable importance in connection with the Periodic Return of the Seasons, Agriculture, Horticulture, and Natural History. The Council would direct the special attention of Observers to the registration of such phenomena, so that the published Summaries may fairly represent the whole of Scotland. Observations ought to be confined to individual trees and shrubs; to particular species of birds, and, in the case of crops, to specified sorts reared from year to year on a selected piece of ground or farm. The Annual Table, published yearly in the Society's Journal, will indicate the species of plants and animals to which special attention is more particularly directed.

The Council recommend Observers, before purchasing new instruments, and in replacing old ones, to communicate with the Meteorological Secretary, in order that every instrument may be examined and improved before being used; and they consider it necessary that he should have full power to reject any instrument which, on being presented for comparison, does not afford him satisfaction.

(By Order)

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EDINBURGH.

BOOK POST.

122 George Street,
Scottish Meteorological Society,
To the SECRETARY,

122 George Street,

EDINBURGH.

| FOREST TREES. | | In Flower. | | In Leaf. | | Divested of Leaves. | | CROPS. | | Sowing or Planting. | | Above Ground. | | In Ear. | | First Cut or Harvested. | |
|------------------------|--|------------|--|----------|--|---------------------|--|----------------|--|---------------------|--|---------------|--|---------|--|-------------------------|--|
| Alder. | | | | | | | | Barley. | | | | | | | | | |
| Ash. | | | | | | | | Bare or Bigg. | | | | | | | | | |
| Beech. | | | | | | | | Wheat. | | | | | | | | | |
| Birch. | | | | | | | | Peas. | | | | | | | | | |
| Larch. | | | | | | | | Potatoes. | | | | | | | | | |
| Lime. | | | | | | | | Rye Grass. | | | | | | | | | |
| Oak. | | | | | | | | | | | | | | | | | |
| Sycamore or Plane. | | | | | | | | | | | | | | | | | |
| SHRUBS, ETC. | | In Flower. | | In Leaf. | | Divested of Leaves. | | CROPS. | | Sowing or Planting. | | Above Ground. | | In Ear. | | First Cut or Harvested. | |
| Barberry. | | | | | | | | Apple. | | | | | | | | | |
| Bourtree or Elder. | | | | | | | | Black Currant. | | | | | | | | | |
| Broom. | | | | | | | | Cherry. | | | | | | | | | |
| Hawthorn. | | | | | | | | Gooseberry. | | | | | | | | | |
| Holly. | | | | | | | | Peach. | | | | | | | | | |
| Laburnum. | | | | | | | | Pear. | | | | | | | | | |
| Myrtle. | | | | | | | | Plum. | | | | | | | | | |
| Mountain Ash or Rowan. | | | | | | | | Strawberry. | | | | | | | | | |
| Rhododendron Ponticum. | | | | | | | | | | | | | | | | | |
| Whin. | | | | | | | | | | | | | | | | | |

Have the goodness also to state any information you may be able to collect relative to the Epidemic disease prevalent among cattle; and the Agricultural condition of the district generally. Turnips, Prunus, etc., in perfection; whether any have suffered from blight, disease, etc. Hay, Wheat, etc.