

SCOTTISH METEOROLOGICAL SOCIETY.

Observations taken at Handa House, County of Aberdeen, in Lat. 57° 24', Long. 2° 14', Distance from Sea 12 miles.

Height of Cistern of the Barometer above Mean Sea-Level 120 feet, above Ground 3 feet.

During the MONTH of January 1900

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 days in which it fell. | Amount in inches. | 9 h. A.M. | | 9 h. P.M. | | Velocity (0-6) and Direction. | Amount (0-10), and Species. | Velocity (0-6) and Direction. | Amount (0-10), and Species. | SUNSHINE. Hours. | 9 h. A.M. | | | Temperature of WELL at depth of feet, No. | Temperature at 1 fathom, and Density. | | | | 0-10. | | | |
| | | Barometer. | Attached Thermometer | Barometer. | Attached Thermometer | Max. | Min. | Max. in Sun's rays | Min. on Grass. | Dry bulb. | Wet bulb. | Dry bulb. | Wet bulb. | | | Direction. | Force. | Direction. | Force. | | | | | | No. | No. | | | | | | | No. | No. | 9 A.M. | 9 P.M. |
| | | * No. | | No. | | No. | No. | No. | No. | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | inches. | ° | inches. | ° | | | | | ° | ° | ° | ° | | | | | | | | | | | | | | | | | | | | | | | |
| | 1 | 29.568 | 36 | 29.676 | 38 | 40 | 32 | 44 | 29 | 35 | 34 | 34 | 33 | | W | W | | | | | | | | | 34 | 35 | 36 | | | | 1 | | | | | |
| | 2 | 29.578 | 40 | 29.348 | 39 | 41 | 30 | 41 | 28 | 40 | 39 | 38 | 37 | + | E | E | | | | | | | | | 35 | 36 | 36 | | | | 2 | | | | | |
| | 3 | 29.232 | 38 | 29.416 | 38 | 40 | 35 | 39 | 34 | 35 | 35 | 37 | 36 | + | E | N.E. | | | | | | | | | 36 | 36 | 36 | | | | 3 | | | | | |
| | 4 | 29.538 | 38 | 29.694 | 38 | 38 | 35 | 38 | 34 | 37 | 38 | 37 | 36 | + | N.E. | N.W. | | | | | | | | | 36 | 36 | 36 | | | | 4 | | | | | |
| | 5 | 29.716 | 39 | 29.652 | 37 | 37 | 33 | 37 | 31 | 33 | 32 | 36 | 34 | | S.W. | S.E. | | | | | | | | | 35 | 36 | 36 | | | | 5 | | | | | |
| | 6 | 29.426 | 38 | 29.284 | 38 | 38 | 35 | 37 | 33 | 36 | 35 | 37 | 36 | + | S | S | | | | | | | | | 35 | 36 | 37 | | | | 6 | | | | | |
| | 7 | 29.322 | 37 | 29.588 | 38 | 38 | 29 | 39 | 24 | 36 | 35 | 29 | 31 | + | 164 | N.W. | W | | | | | | | | 35 | 36 | 37 | | | | 7 | | | | | |
| | 8 | 29.524 | 37 | 29.332 | 35 | 42 | 29 | 44 | 24 | 36 | 35 | 38 | 37 | | W | S.W. | | | | | | | | | 33 | 36 | 37 | | | | 8 | | | | | |
| | 9 | 29.362 | 37 | 29.416 | 35 | 46 | 33 | 40 | 30 | 34 | 32 | 34 | 33 | + | S.W. | N.W. | | | | | | | | | 33 | 35 | 36 | | | | 9 | | | | | |
| | 10 | 29.702 | 38 | 30.028 | 35 | 40 | 32 | 40 | 27 | 37 | 36 | 32 | 31 | + | N.W. | N.W. | | | | | | | | | 33 | 35 | 36 | | | | 10 | | | | | |
| | 11 | 30.032 | 33 | 29.977 | 33 | 37 | 26 | 36 | 23 | 30 | 30 | 32 | 32 | | S.W. | S.W. | | | | | | | | | 32 | 34 | 36 | | | | 11 | | | | | |
| | 12 | 29.912 | 39 | 29.844 | 37 | 41 | 32 | 41 | 28 | 39 | 39 | 37 | 36 | + | S.W. | W | | | | | | | | | 33 | 34 | 36 | | | | 12 | | | | | |
| | 13 | 29.742 | 42 | 29.560 | 41 | 42 | 35 | 41 | 31 | 40 | 40 | 42 | 41 | | S | S | | | | | | | | | 33 | 34 | 36 | | | | 13 | | | | | |
| | 14 | 29.488 | 42 | 29.020 | 41 | 42 | 40 | 41 | 38 | 41 | 40 | 41 | 40 | + | 21 | S | S | | | | | | | | 37 | 35 | 36 | | | | 14 | | | | | |
| | 15 | 28.844 | 41 | 28.848 | 34 | 44 | 29 | 47 | 24 | 41 | 40 | 30 | 29 | | S.W. | W | | | | | | | | | 37 | 36 | 36 | | | | 15 | | | | | |
| | 16 | 28.884 | 34 | 29.042 | 36 | 38 | 25 | 40 | 21 | 31 | 30 | 35 | 32 | | S.W. | W | | | | | | | | | 33 | 36 | 36 | | | | 16 | | | | | |
| | 17 | 29.104 | 29 | 28.932 | 35 | 37 | 24 | 38 | 20 | 24 | 24 | 34 | 33 | + | S.W. | S.W. | | | | | | | | | 32 | 35 | 36 | | | | 17 | | | | | |
| | 18 | 29.358 | 36 | 29.674 | 33 | 38 | 31 | 40 | 26 | 34 | 33 | 32 | 31 | + | N.W. | S.W. | | | | | | | | | 33 | 34 | 36 | | | | 18 | | | | | |
| | 19 | 29.324 | 41 | 29.240 | 35 | 46 | 31 | 46 | 26 | 41 | 40 | 34 | 33 | + | S | W | | | | | | | | | 33 | 34 | 36 | | | | 19 | | | | | |
| | 20 | 29.512 | 37 | 29.702 | 35 | 41 | 31 | 47 | 26 | 36 | 34 | 33 | 32 | | S.W. | S.W. | | | | | | | | | 33 | 34 | 36 | | | | 20 | | | | | |
| | 21 | 29.678 | 37 | 29.280 | 37 | 39 | 32 | 38 | 27 | 36 | 35 | 38 | 36 | + | 20 | S | S.W. | | | | | | | | 33 | 34 | 35 | | | | 21 | | | | | |
| | 22 | 29.094 | 39 | 29.100 | 46 | 52 | 35 | 52 | 29 | 39 | 37 | 49 | 46 | | S.W. | S.W. | | | | | | | | | 33 | 34 | 35 | | | | 22 | | | | | |
| | 23 | 29.312 | 47 | 29.512 | 42 | 50 | 39 | 52 | 34 | 46 | 43 | 41 | 39 | | W | W | | | | | | | | | 38 | 35 | 35 | | | | 23 | | | | | |
| | 24 | 29.212 | 42 | 29.172 | 41 | 45 | 39 | 46 | 33 | 41 | 40 | 39 | 37 | + | S | N.W. | | | | | | | | | 35 | 35 | 35 | | | | 24 | | | | | |
| | 25 | 29.588 | 40 | 29.622 | 42 | 46 | 35 | 50 | 32 | 37 | 36 | 43 | 41 | | N.W. | W | | | | | | | | | 34 | 35 | 35 | | | | 25 | | | | | |
| | 26 | 29.264 | 45 | 29.258 | 37 | 47 | 33 | 47 | 28 | 45 | 43 | 34 | 32 | + | S.W. | N.W. | | | | | | | | | 38 | 36 | 36 | | | | 26 | | | | | |
| | 27 | 29.024 | 44 | 28.986 | 32 | 38 | 27 | 44 | 22 | 30 | 29 | 27 | 26 | | S.W. | W | | | | | | | | | 33 | 36 | 36 | | | | 27 | | | | | |
| | 28 | 29.208 | 43 | 29.596 | 34 | 38 | 25 | 41 | 21 | 32 | 31 | 32 | 32 | + | 19 | N | N.W. | | | | | | | | 33 | 35 | 36 | | | | 28 | | | | | |
| | 29 | 29.704 | 35 | 29.802 | 36 | 38 | 31 | 40 | 26 | 33 | 32 | 34 | 33 | + | N.E. | E | | | | | | | | | 33 | 35 | 36 | | | | 29 | | | | | |
| | 30 | 29.746 | 36 | 29.776 | 35 | 36 | 32 | 36 | 31 | 34 | 34 | 33 | 32 | + | N | N.E. | | | | | | | | | 33 | 34 | 35 | | | | 30 | | | | | |
| | 31 | 29.786 | 35 | 29.572 | 34 | 35 | 32 | 34 | 31 | 33 | 32 | 33 | 32 | + | 29 | N.W. | N.W. | | | | | | | | 33 | 34 | 35 | | | | 31 | | | | | |
| Sums. | | 11134 | 16 | 15111 | 15 | 415 | 40 | 415 | 13 | 112 | 11 | 14 | 11 | | | | | | | | | | | | 1058 | 1094 | 1112 | | | | | | | | | |
| Means. | | 13 | 26 | 13 | 21 | 25 | 19 | 16 | 17 | 13 | | | | | | | | | | | | | | | 34.1 | 35.2 | 35.8 | | | | | | | | | |
| + Total Corrections for Instru- mental Errors. | | 439 | | 451 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| + Corrections for Diurnal Range. | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| "Cor- rected 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. | aurora. | m. | 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. | s. | snow. |
| h. | haze. | so. h. | solar halo. |
| h. d. | heavy dew. | sq. | squall. |
| h. | 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 = 29.523
 for Temp. (Col. 2), = 29.549 - 26
 "Corrected Mean" of Barometer at 9 P.M., minus the Correction \ddagger = 29.539
 for Temp. (Col. 4), = 29.561 - 22
 Mean at Station, corrected, and at 32° = 29.541
 Correction for height, feet above Mean Sea-level, = 20
 Mean, reduced to 32°, and Sea-level, = 29.743
 Highest Reading, corrected for Index error, on the 11th, = 30.032
 Lowest Do. Do., on the 13th, = 28.844
 Difference, or Monthly Range, = 1.188

S.-R. THERMOMETER, (in shade, etc.), Highest in Month, (corrected for Index Errors), on the 22th, = 52.0
 Lowest in Month, corrected for Index errors, on the 17th, = 24.0
 Difference, or Monthly Range, = 28.0
 "Corrected Mean" of all the Highest, (Col. 5), = 40.9
 "Corrected Mean" of all the Lowest, (Col. 6), = 33.2
 Difference, or Mean Daily Range, = 7.7
 ** Calculated Mean Temperature of Month, = 37.1
 S.-R. THERMOMETER, Black Bulb in Sun, Highest, (corrected for Index Errors), on the 24th, = 52.0
 "Corrected Mean," (Col. 7), of Black Bulb, Max. in Sun, = 41.8
 Lowest at Night, Black Bulb (corrected for Index errors), on the 18th, = 21.0
 "Corrected Mean," (Col. 8), of Black Bulb, Min. on grass, = 28.1
 Difference of above means or range ("exposed"), =

HYGROMETER, Mean (corrected) A.M. and P.M. Reading of Dry Bulb, (Cols. 9 and 11), = 35.9
 Mean (corrected) A.M. and P.M. Reading of Wet Bulb, (Cols. 10 and 12), = 34.9
 †† Computed Temperature of Dew-Point, = 33.5
 †† Do. Elastic Force of Vapour, = 19.4
 †† Do. Weight of Vapour in a Cubic Foot of Air, = 92
 †† Relative Humidity (Saturation = 100), = 92
 RAIN fell on 18 Days; Amount in Inches, = 2.53

| 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 | 2 | 2 | | 6 | 11 | 3 | 5 | | | |
| P.M. | 2 | 2 | 1 | 3 | 7 | 9 | 7 | | | | |
| Mean. | 1 | 2 | 2 | 1 | 4 | 9 | 6 | 6 | | | |

* Each instrument tested at the Office in Edinburgh bears the stamp "S.M.S."; and a number to be entered in the Heading; or the Number and Initials of the Maker may be here given.
 † Estimating corrections for both capillarity and Index Errors.
 †† The Diurnal Range for Scotland is as yet unknown.
 ††† These "Hygrometric Deductions" are calculated from Glaser's Hygrometric Tables, Second Edition only.
 * While the Diurnal Range is unknown, the Arithmetic Mean of Cols. 5 and 6 will be entered as the "Calculated Mean Temperature."
 Any observations not taken under the Conditions specified in the Directions on the other side, or noted at the Top of each column, must be marked as such by the observer, in each Schedule. See over.

Observations made and
 Return verified by

John Forrest

(Signed)

SCOTTISH METEOROLOGICAL SOCIETY.

Observations taken at Haddo House, County of Aberdeen, in Lat. 57° 24' Long. 2° 14', Distance from Sea 12 miles.

Height of Cistern of the Barometer above Mean Sea-Level 180 feet, above Ground 9 feet.

During the MONTH of February, 1900 189

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. | | | | | | | | | | |
| | | 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 (0-6) and Direction. | Amount (0-10), and Species. | | | | | | Velocity (0-6) and Direction. | Amount (0-10), and Species. | | |
| | | *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 | 29.682 | 33 | 29.512 | 34 | 35 | 29 | 40 | 28 | 31 | 30 | 32 | 31 | + | N.E. | 8 | | | | | | | | | | | | | | 1 | |
| | 2 | 29.612 | 39 | 29.622 | 33 | 33 | 26 | 37 | 24 | 26 | 26 | 32 | 21 | + | N.W. | N.W. | | | | | | | | | | | | | | 2 | |
| | 3 | 29.744 | 32 | 29.702 | 31 | 37 | 25 | 43 | 23 | 30 | 29 | 29 | 28 | + | E | N.W. | | | | | | | | | | | | | | 3 | |
| | 4 | 29.668 | 31 | 29.482 | 29 | 34 | 25 | 41 | 23 | 30 | 20 | 25 | 25 | + | N.W. | N.W. | | | | | | | | | | | | | | 4 | |
| | 5 | 29.448 | 28 | 29.462 | 31 | 34 | 20 | 39 | 18 | 27 | 26 | 30 | 30 | + | N.W. | N.W. | | | | | | | | | | | | | | 5 | |
| | 6 | 29.554 | 28 | 29.576 | 27 | 34 | 23 | 36 | 20 | 26 | 25 | 24 | 23 | + | N | N.W. | | | | | | | | | | | | | | 6 | |
| | 7 | 29.412 | 22 | 29.424 | 29 | 29 | 20 | 34 | 17 | 21 | 20 | 27 | 26 | + | N.W. | N.W. | | | | | | | | | | | | | | 7 | |
| | 8 | 29.516 | 26 | 29.580 | 26 | 34 | 19 | 44 | 15 | 26 | 25 | 23 | 22 | + | N.W. | N | | | | | | | | | | | | | | 8 | |
| | 9 | 29.584 | 17 | 29.514 | 19 | 29 | 10 | 36 | 8 | 12 | 12 | 17 | 17 | | N | N | | | | | | | | | | | | | | 9 | |
| | 10 | 29.378 | 17 | 29.198 | 18 | 31 | 10 | 42 | 8 | 16 | 15 | 16 | 16 | | N | N | | | | | | | | | | | | | | 10 | |
| | 11 | 29.028 | 22 | 28.848 | 28 | 29 | 10 | 28 | 8 | 24 | 24 | 28 | 28 | + | N.W. | N.W. | | | | | | | | | | | | | | | 11 |
| | 12 | 28.918 | 27 | 28.748 | 26 | 31 | 20 | 41 | 14 | 25 | 25 | 25 | 25 | | N | S.W. | | | | | | | | | | | | | | 12 | |
| | 13 | 29.052 | 25 | 29.132 | 27 | 36 | 19 | 45 | 12 | 25 | 25 | 24 | 24 | | S.E. | N | | | | | | | | | | | | | | 13 | |
| | 14 | 29.326 | 20 | 29.518 | 25 | 35 | 15 | 38 | 14 | 16 | 16 | 23 | 23 | | E | E | | | | | | | | | | | | | | 14 | |
| | 15 | 29.488 | 37 | 28.816 | 33 | 34 | 20 | 33 | 17 | 37 | 38 | 33 | 33 | + | S | S | | | | | | | | | | | | | | 15 | |
| | 16 | 28.324 | 37 | 28.548 | 36 | 36 | 33 | 37 | 30 | 35 | 35 | 36 | 35 | + | S.W. | S.W. | | | | | | | | | | | | | | 16 | |
| | 17 | 28.486 | 36 | 28.642 | 31 | 41 | 27 | 47 | 23 | 36 | 35 | 28 | 27 | + | S.W. | S.W. | | | | | | | | | | | | | | 17 | |
| | 18 | 28.704 | 30 | 28.724 | 33 | 37 | 21 | 37 | 18 | 29 | 29 | 31 | 31 | + | S | S | | | | | | | | | | | | | | 18 | |
| | 19 | 28.498 | 36 | 28.338 | 32 | 35 | 28 | 35 | 25 | 35 | 35 | 32 | 32 | + | E | E | | | | | | | | | | | | | | 19 | |
| | 20 | 28.332 | 34 | 28.652 | 32 | 37 | 29 | 38 | 26 | 33 | 32 | 32 | 31 | + | N | N | | | | | | | | | | | | | | 20 | |
| | 21 | 28.898 | 32 | 29.048 | 27 | 38 | 22 | 42 | 19 | 32 | 31 | 22 | 21 | + | N.W. | N | | | | | | | | | | | | | | 21 | |
| | 22 | 29.044 | 22 | 29.198 | 35 | 39 | 13 | 44 | 10 | 18 | 18 | 36 | 34 | | S.W. | S | | | | | | | | | | | | | | 22 | |
| | 23 | 29.136 | 36 | 29.026 | 40 | 40 | 36 | 40 | 34 | 36 | 35 | 41 | 40 | + | S.E. | S | | | | | | | | | | | | | | 23 | |
| | 24 | 29.184 | 39 | 29.328 | 39 | 50 | 36 | 69 | 31 | 39 | 38 | 39 | 38 | | S.W. | S.W. | | | | | | | | | | | | | | 24 | |
| | 25 | 29.444 | 36 | 29.636 | 37 | 49 | 31 | 57 | 27 | 35 | 35 | 35 | 34 | 3.04 | S.W. | N | | | | | | | | | | | | | | 25 | |
| | 26 | 29.684 | 36 | 29.632 | 39 | 41 | 29 | 43 | 25 | 36 | 36 | 39 | 38 | + | E | E | | | | | | | | | | | | | | 26 | |
| | 27 | 29.648 | 39 | 29.776 | 39 | 40 | 36 | 48 | 33 | 37 | 37 | 38 | 37 | + | N.E. | N.E. | | | | | | | | | | | | | | 27 | |
| | 28 | 29.892 | 37 | 29.984 | 38 | 42 | 35 | 50 | 32 | 38 | 36 | 37 | 35 | + | N | N | | | | | | | | | | | | | | 28 | |
| | 29 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | 29 | |
| | 30 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | 30 | |
| | 31 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | 31 | |
| Sums. | | 13144 | 14 | 14133 | 15 | 13 | 4 | 12 | 13 | 13 | 13 | 13 | 11 | | | | | | | | | | | | | | | | | | |
| Means. | | 29.139 | 30.6 | 29.240 | 31.2 | 36.1 | 23.8 | 41.2 | 20.8 | 28.8 | 28.6 | 29.8 | 29.1 | 20.4 | | | | | | | | | | | | | | | | | |
| + Total Corrections for Instrumental Errors. | | +110 | | +110 | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| + 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. | | |
| ci. | " cirrus. | ms. | " meteors. | | |
| ci.-cu. | " cirro-cumulus. | n. | " nimbus. | | |
| cl.-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. | " snow. | | |
| h. | " haze. | so. ha. | " solar halo. | | |
| h. d. | " heavy dew. | sq. | " squall. | | |
| hl. | " hail. | sq.s. | " 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 |

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. | 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 $\frac{1}{10}$ for Temp. (Col. 2), = 29.344
 "Corrected Mean" of Barometer at 9 P.M., minus the Correction $\frac{1}{10}$ for Temp. (Col. 4), = 29.343
 Mean at Station, corrected, and at 32° = 29.344
 Correction for height, feet above Mean Sea-level, = 20.1
 Mean, reduced to 32°, and Sea-level, = 29.545
 Highest Reading, corrected for Index error, on the 28th, = 29.984
 Lowest Do. Do., on the 20th, = 28.332
 Difference, or Monthly Range, = 1.652

S.-R. THERMOMETER, (in shade, etc.), Highest in Month, (corrected for Index Errors), on the 24th, = 50.0
 Lowest in Month, corrected for Index errors, on the 9th, = 12.0
 Difference, or Monthly Range, = 38.0
 "Corrected Mean" of all the Highest, (Col. 5), = 36.4
 "Corrected Mean" of all the Lowest, (Col. 6), = 25.8
 Difference, or Mean Daily Range, = 10.6
 ** Calculated Mean Temperature of Month, = 31.1
 S.-R. THERMOMETER, Black Bulb in Sun, Highest, (corrected for Index Errors), on the 24th, = 69.0
 "Corrected Mean," (Col. 7), of Black Bulb, Max. in Sun, = 41.2
 Lowest at Night, Black Bulb (corrected for Index errors), on the 11th, = 8.0
 "Corrected Mean," (Col. 8), of Black Bulb, Min. on grass, = 20.8
 Difference of above means or range ("exposed"), =

HYGROMETER, Mean (corrected) A.M. and P.M. Reading of Dry Bulb, (Cols. 9 and 11), = 29.3
 Mean (corrected) A.M. and P.M. Reading of Wet Bulb, (Cols. 10 and 12), = 28.8
 Computed Temperature of Dew-Point, = 27.2
 Do. Elastic Force of Vapour, = 148
 Do. Weight of Vapour in a Cubic Foot of Air, = 91
 Relative Humidity (Saturation = 100), = 91
 RAIN fell on 20 Days; Amount in Inches, = 4.76

| WIND. | | SUMMARY. | | | | | | | | | |
|------------|--|----------|----|---|----|---|----|---|----|-------------------|-------------|
| Direction. | | N | NE | E | SE | S | SW | W | NW | Calm or Variable. | Mean Force. |
| A.M. | | 3 | 2 | 4 | 2 | 2 | 5 | 3 | 7 | | |
| P.M. | | 3 | 1 | 4 | 4 | 4 | 5 | 7 | | | |
| Mean. | | 3 | 2 | 4 | 1 | 3 | 4 | 4 | 7 | 0 | |

Observations made and
Return verified by

John Forrest

(Signed)

SCOTTISH METEOROLOGICAL SOCIETY.

Observations taken at Haddo House, County of Aberdeen, in Lat. 57° 24', Long. 2° 14', Distance from Sea 12 miles.Height of Cistern of the Barometer above Mean Sea-Level 120 feet, above Ground 3 feet.During the MONTH of March 1891

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. <i>Mention the hour at which Storms, including Thunder and Lightning, begin and ended.</i> | 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. | | | | | | | | | |
| | | 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. | 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. | No. | No. |
| | | * No. | | No. | | No. | No. | No. | No. | | | | | | | No. | | | | | | 9 h. A.M. | | | | | | | | | | 3 inches. | 12 inches. |
| | | inches. | ° | inches. | ° | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | 1 | 30.136 | 38 | 29.952 | 37 | 41 | 35 | 45 | 32 | 37 | 35 | 36 | 35 | + | N.E. | N | N | N | | | | | | | 33 | 33 | 34 | | | | 1 | | |
| | 2 | 30.084 | 40 | 29.938 | 39 | 42 | 35 | 47 | 32 | 37 | 38 | 36 | 35 | + | N.W. | N.W. | N.W. | N | | | | | | | 33 | 33 | 34 | | | | 2 | | |
| | 3 | 29.936 | 37 | 29.992 | 38 | 43 | 31 | 54 | 27 | 37 | 26 | 35 | 34 | + | N.W. | N.W. | N.W. | N | | | | | | | 33 | 33 | 34 | | | | 3 | | |
| | 4 | 29.978 | 38 | 29.952 | 39 | 40 | 32 | 41 | 28 | 37 | 36 | 38 | 38 | + | N | N | N | N | | | | | | | 33 | 33 | 34 | | | | 4 | | |
| | 5 | 29.989 | 39 | 30.030 | 38 | 40 | 35 | 45 | 33 | 38 | 37 | 36 | 35 | + | N | N | N | N | | | | | | | 33 | 33 | 34 | | | | 5 | | |
| | 6 | 29.998 | 37 | 29.980 | 39 | 41 | 33 | 43 | 33 | 35 | 34 | 38 | 37 | + | N.W. | N.W. | N.W. | N | | | | | | | 34 | 34 | 34 | | | | 6 | | |
| | 7 | 29.958 | 39 | 29.952 | 38 | 44 | 34 | 54 | 31 | 39 | 38 | 37 | 36 | | N.W. | N.W. | N.W. | N | | | | | | | 35 | 35 | 35 | | | | 7 | | |
| | 8 | 29.958 | 39 | 29.946 | 40 | 46 | 33 | 55 | 31 | 40 | 39 | 39 | 38 | | N.W. | N.W. | N.W. | N | | | | | | | 36 | 36 | 35 | | | | 8 | | |
| | 9 | 29.926 | 46 | 29.952 | 39 | 45 | 34 | 59 | 31 | 38 | 36 | 37 | 35 | | S.W. | N | N | N | | | | | | | 36 | 36 | 35 | | | | 9 | | |
| | 10 | 29.994 | 34 | 30.002 | 36 | 45 | 27 | 53 | 23 | 33 | 31 | 37 | 36 | | S.W. | S.W. | S.W. | N | | | | | | | 34 | 36 | 36 | | | | 10 | | |
| | 11 | 29.928 | 34 | 29.944 | 37 | 53 | 26 | 79 | 23 | 34 | 31 | 34 | 33 | 0.09 | N | N.W. | N.W. | N | | | | | | | 33 | 36 | 36 | | | | 11 | | |
| | 12 | 30.022 | 43 | 29.864 | 44 | 51 | 35 | 58 | 29 | 43 | 41 | 43 | 41 | + | N | N.W. | N.W. | N | | | | | | | 36 | 36 | 36 | | | | 12 | | |
| | 13 | 30.174 | 47 | 30.274 | 38 | 43 | 34 | 42 | 32 | 36 | 32 | 37 | 36 | + | N.W. | N.W. | N.W. | N | | | | | | | 36 | 37 | 36 | | | | 13 | | |
| | 14 | 30.120 | 43 | 29.982 | 44 | 50 | 36 | 56 | 35 | 44 | 43 | 44 | 42 | + | N.W. | N.W. | N.W. | N | | | | | | | 40 | 37 | 36 | | | | 14 | | |
| | 15 | 29.976 | 48 | 29.102 | 35 | 47 | 32 | 56 | 29 | 47 | 44 | 32 | 30 | + | N.W. | N.W. | N.W. | N | | | | | | | 40 | 38 | 37 | | | | 15 | | |
| | 16 | 29.062 | 34 | 29.110 | 32 | 35 | 29 | 41 | 27 | 32 | 31 | 31 | 30 | + | N | N | N | N | | | | | | | 38 | 38 | 37 | | | | 16 | | |
| | 17 | 29.132 | 31 | 29.174 | 20 | 36 | 12 | 42 | 9 | 29 | 28 | 12 | 12 | + | N.W. | N.W. | N.W. | N | | | | | | | 37 | 38 | 37 | | | | 17 | | |
| | 18 | 29.182 | 20 | 29.104 | 29 | 36 | 3 | 40 | 0 | 17 | 17 | 26 | 26 | + | N | S.E. | S.E. | N | | | | | | | 33 | 35 | 37 | | | | 18 | | |
| | 19 | 29.064 | 33 | 29.168 | 24 | 33 | 12 | 45 | 9 | 33 | 31 | 34 | 34 | + | E | E | E | N | | | | | | | 33 | 35 | 37 | | | | 19 | | |
| | 20 | 29.536 | 37 | 29.714 | 26 | 38 | 32 | 37 | 28 | 37 | 36 | 35 | 35 | 1.81 | E | E | E | N | | | | | | | 34 | 35 | 37 | | | | 20 | | |
| | 21 | 29.760 | 35 | 29.744 | 37 | 37 | 34 | 37 | 33 | 34 | 34 | 36 | 36 | + | E | E | E | N | | | | | | | 34 | 35 | 37 | | | | 21 | | |
| | 22 | 29.802 | 37 | 29.866 | 37 | 37 | 35 | 36 | 33 | 36 | 36 | 36 | 36 | + | E | E | E | N | | | | | | | 35 | 36 | 36 | | | | 22 | | |
| | 23 | 29.938 | 40 | 29.948 | 37 | 41 | 34 | 45 | 30 | 40 | 38 | 36 | 35 | + | E | N.E. | N.E. | N | | | | | | | 36 | 36 | 36 | | | | 23 | | |
| | 24 | 29.940 | 38 | 29.942 | 34 | 44 | 30 | 54 | 25 | 37 | 35 | 32 | 31 | | S.E. | N.E. | N.E. | N | | | | | | | 36 | 36 | 36 | | | | 24 | | |
| | 25 | 29.652 | 38 | 29.584 | 35 | 41 | 30 | 46 | 25 | 38 | 36 | 33 | 32 | 0.73 | N.W. | N.W. | N.W. | N | | | | | | | 36 | 36 | 36 | | | | 25 | | |
| | 26 | 29.502 | 33 | 29.518 | 34 | 39 | 29 | 70 | 27 | 32 | 31 | 31 | 30 | + | N | N | N | N | | | | | | | 35 | 36 | 36 | | | | 26 | | |
| | 27 | 29.374 | 36 | 29.258 | 34 | 42 | 26 | 64 | 21 | 36 | 32 | 31 | 30 | + | N | S.W. | S.W. | N | | | | | | | 34 | 36 | 36 | | | | 27 | | |
| | 28 | 29.422 | 36 | 29.566 | 35 | 43 | 26 | 60 | 20 | 36 | 32 | 32 | 32 | + | N.W. | N.W. | N.W. | N | | | | | | | 34 | 36 | 36 | | | | 28 | | |
| | 29 | 29.552 | 39 | 29.594 | 35 | 44 | 26 | 63 | 22 | 35 | 32 | 32 | 31 | | S.W. | S.W. | S.W. | N | | | | | | | 33 | 36 | 36 | | | | 29 | | |
| | 30 | 29.728 | 39 | 29.948 | 38 | 47 | 26 | 61 | 22 | 40 | 32 | 36 | 36 | + | N.W. | N.E. | N.E. | N | | | | | | | 33 | 36 | 36 | | | | 30 | | |
| | 31 | 30.046 | 40 | 30.006 | 37 | 45 | 31 | 53 | 28 | 39 | 38 | 33 | 32 | 0.65 | S.E. | S.W. | S.W. | N | | | | | | | 35 | 36 | 36 | | | | 31 | | |
| Sums. | | 17153 | | 18154 | | 11 | | 12 | | 10 | 14 | 14 | 11 | | | | | | | | | | | | 13 | 17 | 17 | | | | | | |
| Means. | | 29.851 | | 29.853 | | 42.2 | | 42.2 | | 36.4 | 34.5 | 34.4 | 33.5 | | | | | | | | | | | | 1081 | 1102 | 1108 | | | | | | |
| + Total Corrections for Instrumental Errors. | | X 120 | | X 120 | | X 20 | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| + Corrections for Diurnal Range. | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| "Corrected Means." | | 29.874 | | 29.873 | | 42.2 | | 31.3 | | | | | | | | | | | | | | | | | | | | | | | | | |
| 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. | ms. | denotes meteor. | | |
| ci. | " cirrus. | ms. | " meteors. | | |
| ci-cu. | " cirro-cumulus. | n. | " nimbus. | | |
| cu. | " 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. h. | " solar halo. | | |
| h. d. | " heavy dew. | sq. | " squall. | | |
| hl. | " hail. | sq. | " squall. | | |
| l. | " lightning. | t. | " thunder. | | |
| l. 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 for Temp. (Col. 2), 29.851

"Corrected Mean" of Barometer at 9 P.M., minus the Correction \ddagger for Temp. (Col. 4), 29.853

Mean at Station, corrected, and at 32°, 29.852

Correction for height, feet above Mean Sea-level, 202

Mean, reduced to 32°, and Sea-level, 30.054

Highest Reading, corrected for Index error, on the 13th, 30.394

Lowest Do. Do., on the 16th, 29.184

Difference, or Monthly Range, 1.210

S.R. THERMOMETER, (in shade, etc.), Highest in Month, (corrected for Index Errors), on the 11th, 53.0

Lowest in Month, corrected for Index errors, on the 18th, 3.0

Difference, or Monthly Range, 50.0

"Corrected Mean" of all the Highest, (Col. 5), 42.2

"Corrected Mean" of all the Lowest, (Col. 6), 31.3

Difference, or Mean Daily Range, 10.9

** Calculated Mean Temperature of Month, 36.7

S.R. THERMOMETER, Black Bulb in Sun, Highest, (corrected for Index Errors), on the 11th, 79.0

"Corrected Mean," (Col. 7), of Black Bulb, Max. in Sun, 50.6

Lowest at Night, Black Bulb (corrected for Index errors), on the 11th, 0.0

"Corrected Mean," (Col. 8), of Black Bulb, Min. on grass, 26.1

Difference of above means or range ("exposed"), 76.7

HYGROMETER, Mean (corrected) A.M. and P.M. Reading of Dry Bulb, (Cols. 9 and 11), 35.4

Mean (corrected) A.M. and P.M. Reading of Wet Bulb, (Cols. 10 and 12), 34.0

Computed Temperature of Dew-Point, 31.8

Do. Elastic Force of Vapour, 1.180

Do. Weight of Vapour in a Cubic Foot of Air, 7.80

Relative Humidity (Saturation = 100), 87

RAIN fell on 23 Days; Amount in Inches, 3.48

| WIND. | | | | | | | | | | | | SUMMARY. | | | |
|------------|---|----|---|----|---|----|---|----|-------------------|-------------|--------------------------------|----------|--|--|--|
| Direction. | N | NE | E | SE | S | SW | W | NW | Calm or Variable. | Mean Force. | Mean Velocity in miles per day | | | | |
| A.M. | 5 | 1 | 5 | 2 | - | 3 | 3 | 12 | - | | | | | | |
| P.M. | 5 | 3 | 4 | 1 | - | 4 | 1 | 13 | - | | | | | | |
| Mean. | 5 | 2 | 4 | 2 | 0 | 4 | 2 | 12 | 0 | - | | | | | |

Observations made and
Return verified byJohn Forrest

(Signed)

SCOTTISH METEOROLOGICAL SOCIETY.

Observations taken at Hadde House, County of Meriden, in Lat. 57° 24', Long. 2° 14', Distance from Sea 12 miles.Height of Cistern of the Barometer above Mean Sea-Level 180 feet, above Ground 3 feet.During the MONTH of April 1900 189.

The Hours of Observation are of Greenwich Time.

| ELECTRICITY. | Days of Month. | BAROMETER. | | | | SELF-REGISTERING THERMOMETERS. | | | | HYGROMETER. | | | | Rain. | WIND. | | | | CLOUDS. | | | | THERMOMETERS under Ground. | | | | SEA. | OZONE. | GENERAL REMARKS. | 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 h. A.M. | | 9 h. P.M. | | 9 h. A.M. | | 9 h. P.M. | | | | | | |
| | | Barometer. | Attached Thermometer. | Barometer. | Attached Thermometer. | Max. No. | Min. No. | Max. No. | Min. No. | Dry bulb. | Wet bulb. | Dry bulb. | Wet bulb. | | Direction. | Force. | Direction. | Force. | Direction. | Force. | Direction. | Force. | Direction. | Force. | Direction. | Force. | | | | | |
| | | * 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 | 29.898 | 39 | 29.818 | 37 | 51 | 30 | 56 | 25 | 39 | 37 | 34 | 33 | | 5 | 5.6 | | | | | | | | | | | 1 | | | | |
| | 2 | 29.746 | 40 | 29.678 | 40 | 50 | 26 | 70 | 22 | 40 | 32 | 38 | 37 | | 5 | 5.6 | | | | | | | | | | | 2 | | | | |
| | 3 | 29.416 | 37 | 29.128 | 37 | 38 | 34 | 38 | 32 | 35 | 34 | 35 | 35 | | 5.2 | 5.2 | | | | | | | | | | | 3 | | | | |
| | 4 | 28.932 | 39 | 28.988 | 39 | 40 | 33 | 43 | 32 | 39 | 38 | 37 | 37 | | 5.2 | 5.2 | | | | | | | | | | | 4 | | | | |
| | 5 | 29.158 | 41 | 29.446 | 40 | 49 | 35 | 61 | 32 | 39 | 39 | 39 | 38 | | 5.4 | 5.4 | | | | | | | | | | | 5 | | | | |
| | 6 | 29.448 | 41 | 29.572 | 40 | 50 | 34 | 75 | 31 | 39 | 38 | 38 | 37 | | 5.4 | 5.4 | | | | | | | | | | | 6 | | | | |
| | 7 | 29.568 | 42 | 29.706 | 41 | 49 | 32 | 63 | 28 | 42 | 41 | 39 | 38 | | 5 | 5.2 | | | | | | | | | | | 7 | | | | |
| | 8 | 29.700 | 41 | 29.856 | 39 | 45 | 31 | 53 | 27 | 40 | 39 | 37 | 36 | | 5.2 | 5.6 | | | | | | | | | | | 8 | | | | |
| | 9 | 29.302 | 41 | 29.184 | 40 | 52 | 36 | 65 | 31 | 40 | 39 | 37 | 35 | | 5 | 5.4 | | | | | | | | | | | 9 | | | | |
| | 10 | 29.032 | 46 | 29.126 | 40 | 48 | 22 | 60 | 25 | 44 | 41 | 37 | 36 | | 5.4 | 5.4 | | | | | | | | | | | 10 | | | | |
| | 11 | 28.842 | 43 | 28.936 | 43 | 55 | 35 | 69 | 32 | 43 | 42 | 41 | 40 | | 5 | 5.4 | | | | | | | | | | | 11 | | | | |
| | 12 | 29.084 | 50 | 28.784 | 48 | 53 | 38 | 64 | 33 | 51 | 48 | 44 | 42 | | 5 | 5.4 | | | | | | | | | | | 12 | | | | |
| | 13 | 29.832 | 48 | 29.468 | 43 | 52 | 32 | 61 | 28 | 47 | 44 | 40 | 38 | | 5.4 | 5.4 | | | | | | | | | | | 13 | | | | |
| | 14 | 29.276 | 45 | 29.406 | 47 | 56 | 35 | 71 | 29 | 43 | 42 | 45 | 41 | | 5 | 5.4 | | | | | | | | | | | 14 | | | | |
| | 15 | 29.172 | 49 | 29.054 | 41 | 56 | 37 | 83 | 31 | 48 | 46 | 37 | 35 | | 5.4 | 5.4 | | | | | | | | | | | 15 | | | | |
| | 16 | 29.088 | 41 | 29.662 | 41 | 48 | 32 | 57 | 28 | 38 | 36 | 39 | 38 | | 5.4 | 5.4 | | | | | | | | | | | 16 | | | | |
| | 17 | 29.646 | 47 | 29.846 | 46 | 46 | 34 | 71 | 30 | 46 | 43 | 46 | 44 | | 5 | 5 | | | | | | | | | | | 17 | | | | |
| | 18 | 29.926 | 47 | 30.082 | 50 | 58 | 38 | 61 | 32 | 46 | 45 | 50 | 48 | | 5.4 | 5.4 | | | | | | | | | | | 18 | | | | |
| | 19 | 30.148 | 55 | 30.142 | 51 | 70 | 39 | 86 | 35 | 59 | 53 | 48 | 47 | | 5 | 5.2 | | | | | | | | | | | 19 | | | | |
| | 20 | 30.154 | 59 | 30.064 | 55 | 73 | 40 | 91 | 36 | 62 | 54 | 52 | 49 | | 5.2 | 5.4 | | | | | | | | | | | 20 | | | | |
| | 21 | 30.052 | 57 | 30.068 | 48 | 56 | 41 | 75 | 36 | 56 | 52 | 43 | 42 | | 5.2 | 5.2 | | | | | | | | | | | 21 | | | | |
| | 22 | 29.964 | 46 | 29.938 | 44 | 48 | 41 | 48 | 39 | 43 | 42 | 42 | 41 | | 5.2 | 5.2 | | | | | | | | | | | 22 | | | | |
| | 23 | 29.880 | 37 | 29.832 | 46 | 50 | 41 | 55 | 41 | 44 | 44 | 44 | 44 | | 5.2 | 5.2 | | | | | | | | | | | 23 | | | | |
| | 24 | 29.792 | 50 | 29.732 | 42 | 50 | 38 | 55 | 37 | 50 | 48 | 39 | 37 | | 5.4 | 5.4 | | | | | | | | | | | 24 | | | | |
| | 25 | 29.864 | 38 | 29.898 | 39 | 43 | 32 | 55 | 29 | 37 | 35 | 35 | 33 | | 5 | 5 | | | | | | | | | | | 25 | | | | |
| | 26 | 29.682 | 42 | 29.598 | 43 | 50 | 29 | 58 | 24 | 41 | 39 | 42 | 40 | | 5 | 5.4 | | | | | | | | | | | 26 | | | | |
| | 27 | 29.796 | 47 | 29.796 | 41 | 50 | 36 | 65 | 29 | 45 | 42 | 36 | 35 | | 5.4 | 5.4 | | | | | | | | | | | 27 | | | | |
| | 28 | 29.682 | 52 | 29.398 | 50 | 57 | 34 | 75 | 28 | 53 | 48 | 42 | 45 | | 5 | 5 | | | | | | | | | | | 28 | | | | |
| | 29 | 29.208 | 47 | 29.482 | 42 | 50 | 37 | 59 | 31 | 44 | 43 | 37 | 36 | | 5.4 | 5.4 | | | | | | | | | | | 29 | | | | |
| | 30 | 29.522 | 45 | 29.324 | 43 | 43 | 34 | 46 | 29 | 40 | 39 | 41 | 40 | | 5.4 | 5.4 | | | | | | | | | | | 30 | | | | |
| | 31 | | | | | | | | | | | | | | | | | | | | | | | | | | 31 | | | | |
| Sums. | | 15163 | | 15163 | | 11 | 12 | | | 13 | 13 | 16 | 14 | | | | | | | | | | | | | | | | | | |
| Means. | | 88.871 | 1362 | 88.675 | 1293 | 1533 | 1044 | 1889 | 922 | 1333 | 1263 | 1221 | 1197 | | | | | | | | | | | | | | | | | | |
| + Total Corrections for Instrumental Errors. | | 29.362 | 45.4 | 29.358 | 43.1 | 1.1 | 3.48 | 630 | 30.7 | 44.4 | 42.1 | 40.7 | 39.2 | 19 | | | | | | | | | | | | | | | | | |
| + 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.
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. sn. snow.
h. haze. so. lu. solar halo.
h. d. heavy dew. sq. squall.
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.

| 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 $\frac{1}{10}$ for Temp. (Col. 2), = 29.638
"Corrected Mean" of Barometer at 9 P.M., minus the Correction $\frac{1}{10}$ for Temp. (Col. 4), = 29.640
Mean at Station, corrected, and at 32° = 29.629
Correction for height, feet above Mean Sea-level, = 200
Mean, reduced to 32°, and Sea-level, = 29.827
Highest Reading, corrected for Index error, on the 20th, = 30.154
Lowest Do. Do., on the 12th, = 28.784
Difference, or Monthly Range, = 1.370

S-R. THERMOMETER, (in shade, etc.), Highest in Month, (corrected for Index Errors), on the 20th, = 73.0
Lowest in Month, corrected for Index errors, on the 2th, = 26.0
Difference, or Monthly Range, = 47.0
"Corrected Mean" of all the Highest, (Col. 5), = 51.1
"Corrected Mean" of all the Lowest, (Col. 6), = 36.8
Difference, or Mean Daily Range, = 14.3
** Calculated Mean Temperature of Month, = 44.0
S-R. THERMOMETER, Black Bulb in Sun, Highest, (corrected for Index Errors), on the 20th, = 91.0
"Corrected Mean" (Col. 7), of Black Bulb, Max. in Sun, = 63.0
Lowest at Night, Black Bulb (corrected for Index errors), on the 12th, = 22.0
"Corrected Mean" (Col. 8), of Black Bulb, Min. on grass, = 34.8
Difference of above means or range ("exposed"), = 68.8

HYGROMETER, Mean (corrected) A.M. and P.M. Reading of Dry Bulb, (Cols. 9 and 11), = 42.6
Mean (corrected) A.M. and P.M. Reading of Wet Bulb, (Cols. 10 and 12), = 40.6
Computed Temperature of Dew-Point, = 38.2
Do. Elastic Force of Vapour, = .231
Do. Weight of Vapour in a Cubic Foot of Air, = 85
Relative Humidity (Saturation = 100), = 85
RAIN fell on 19 Days; Amount in Inches, = 2.19

| WIND. | SUMMARY. | | | | | | | | | |
|-------|------------|---|----|----|----|---|----|---|----|-------------------|
| | Direction. | N | NE | E | SE | S | SW | W | NW | Calm or Variable. |
| A.M. | 2 | 1 | 6 | 8 | 5 | 2 | 6 | | | |
| P.M. | 1 | 1 | 10 | 10 | 2 | 5 | | | | |
| Mean. | 2 | 1 | 8 | 4 | 7 | 2 | 5 | 0 | | |

Observations made and Return verified by

John Forrest

(Signed)

SCOTTISH METEOROLOGICAL SOCIETY.

Observations taken at Gaddo House, County of Aberdeen, in Lat. 57°24', Long. 2°14', Distance from Sea 12 miles.

Height of Cistern of the Barometer above Mean Sea-Level 180 feet, above Ground 3 feet.

During the MONTH of May 1900 189.

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. <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. | | 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. | | 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. | | | 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. | inches. | No. | inches. | No. | No. | No. | No. | No. | No. | No. | No. | | | No. | No. | No. | No. | No. | No. | No. | No. | No. | No. | No. | | | | | |
| | | 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 | | | | | |
| | | 29.502 | 46 | 29.612 | 44 | 57 | 37 | 64 | 33 | 45 | 34 | 42 | 40 | | | N.W. | 8.5 | | | | | | | 47 | 47 | 45 | | | | | 1 |
| | 2 | 29.266 | 52 | 29.338 | 53 | 64 | 42 | 78 | 38 | 52 | 45 | 51 | 48 | | | S.W. | 8 | | | | | | | 43 | 46 | 45 | | | | | 2 |
| | 3 | 29.048 | 50 | 28.862 | 42 | 53 | 40 | 58 | 35 | 48 | 46 | 40 | 39 | + | | S.E. | 8.5 | | | | | | | 44 | 46 | 45 | | | | | 3 |
| | 4 | 29.258 | 45 | 29.342 | 42 | 56 | 37 | 62 | 31 | 43 | 42 | 52 | 48 | + | | S | 8.5 | | | | | | | 47 | 46 | 45 | | | | | 4 |
| | 5 | 29.332 | 54 | 29.512 | 45 | 56 | 45 | 72 | 35 | 54 | 50 | 45 | 42 | | | S | 8.5 | | | | | | | 49 | 47 | 46 | | | | | 5 |
| | 6 | 29.538 | 56 | 29.408 | 51 | 56 | 40 | 84 | 32 | 55 | 49 | 48 | 45 | + | 26 | S.E. | 8.5 | | | | | | | 45 | 47 | 46 | | | | | 6 |
| | 7 | 29.192 | 52 | 29.346 | 49 | 54 | 45 | 70 | 38 | 50 | 48 | 46 | 45 | + | | S.E. | 8.5 | | | | | | | 49 | 47 | 46 | | | | | 7 |
| | 8 | 29.486 | 54 | 29.526 | 47 | 57 | 44 | 72 | 39 | 54 | 52 | 45 | 44 | | | N | N.W. | | | | | | | 48 | 48 | 46 | | | | | 8 |
| | 9 | 29.624 | 46 | 29.834 | 45 | 47 | 41 | 52 | 40 | 45 | 41 | 42 | 41 | | | N | N.E. | | | | | | | 51 | 44 | 47 | | | | | 9 |
| | 10 | 29.872 | 44 | 29.884 | 42 | 45 | 38 | 51 | 38 | 42 | 38 | 39 | 37 | | | N.E. | N.E. | | | | | | | 51 | 50 | 47 | | | | | 10 |
| | 11 | 29.843 | 43 | 29.724 | 41 | 45 | 36 | 54 | 32 | 42 | 39 | 37 | 35 | | | N.E. | N.E. | | | | | | | 49 | 50 | 47 | | | | | 11 |
| | 12 | 29.828 | 44 | 29.816 | 41 | 46 | 35 | 54 | 31 | 42 | 39 | 37 | 35 | | | N.W. | N | | | | | | | 48 | 49 | 47 | | | | | 12 |
| | 13 | 29.452 | 45 | 30.006 | 42 | 46 | 32 | 53 | 27 | 44 | 40 | 40 | 38 | 19 | | N | N | | | | | | | 47 | 48 | 47 | | | | | 13 |
| | 14 | 29.966 | 46 | 29.956 | 45 | 50 | 37 | 68 | 36 | 45 | 42 | 44 | 41 | | | N.W. | N.W. | | | | | | | 46 | 47 | 47 | | | | | 14 |
| | 15 | 29.924 | 56 | 29.918 | 49 | 57 | 37 | 74 | 42 | 57 | 49 | 47 | 44 | | | N.W. | N.W. | | | | | | | 45 | 47 | 47 | | | | | 15 |
| | 16 | 29.962 | 52 | 29.920 | 50 | 57 | 41 | 72 | 36 | 50 | 45 | 47 | 45 | | | N.W. | S.E. | | | | | | | 46 | 47 | 47 | | | | | 16 |
| | 17 | 29.912 | 53 | 29.794 | 48 | 56 | 45 | 65 | 38 | 52 | 48 | 45 | 42 | | | N.W. | N.W. | | | | | | | 51 | 48 | 47 | | | | | 17 |
| | 18 | 29.788 | 44 | 29.788 | 41 | 47 | 36 | 65 | 35 | 45 | 43 | 37 | 35 | + | | N.W. | W | | | | | | | 49 | 49 | 47 | | | | | 18 |
| | 19 | 29.746 | 42 | 29.742 | 42 | 50 | 36 | 59 | 34 | 40 | 36 | 41 | 39 | + | | N.W. | S | | | | | | | 52 | 50 | 48 | | | | | 19 |
| | 20 | 29.614 | 49 | 29.610 | 46 | 55 | 40 | 63 | 38 | 49 | 45 | 42 | 41 | 20 | | N.W. | S.E. | | | | | | | 48 | 50 | 48 | | | | | 20 |
| | 21 | 29.542 | 45 | 29.228 | 48 | 49 | 41 | 54 | 41 | 43 | 42 | 47 | 46 | + | | S.E. | S.E. | | | | | | | 45 | 48 | 48 | | | | | 21 |
| | 22 | 29.056 | 54 | 29.002 | 52 | 57 | 46 | 80 | 40 | 56 | 53 | 48 | 46 | + | | S | S | | | | | | | 49 | 49 | 48 | | | | | 22 |
| | 23 | 28.976 | 53 | 29.152 | 53 | 58 | 43 | 99 | 37 | 55 | 49 | 50 | 47 | | | S.W. | S.W. | | | | | | | 48 | 49 | 48 | | | | | 23 |
| | 24 | 29.328 | 58 | 29.482 | 53 | 57 | 44 | 81 | 39 | 58 | 50 | 50 | 48 | + | | W | W | | | | | | | 51 | 49 | 48 | | | | | 24 |
| | 25 | 29.682 | 51 | 29.824 | 46 | 52 | 40 | 69 | 35 | 49 | 46 | 40 | 39 | + | | N.W. | N.W. | | | | | | | 52 | 50 | 48 | | | | | 25 |
| | 26 | 29.844 | 51 | 29.892 | 50 | 57 | 36 | 78 | 31 | 55 | 50 | 45 | 44 | | | S | S.E. | | | | | | | 54 | 51 | 49 | | | | | 26 |
| | 27 | 29.786 | 58 | 29.682 | 55 | 58 | 43 | 75 | 37 | 58 | 52 | 54 | 52 | + | 32 | S | S | | | | | | | 53 | 52 | 49 | | | | | 27 |
| | 28 | 29.608 | 60 | 29.786 | 55 | 58 | 51 | 77 | 47 | 58 | 52 | 53 | 48 | | | S | N.W. | | | | | | | 52 | 52 | 50 | | | | | 28 |
| | 29 | 29.972 | 52 | 30.008 | 50 | 57 | 46 | 76 | 40 | 50 | 47 | 45 | 44 | | | N | N | | | | | | | 55 | 53 | 51 | | | | | 29 |
| | 30 | 30.104 | 50 | 30.128 | 47 | 53 | 39 | 57 | 33 | 48 | 45 | 45 | 43 | | | N.W. | N.E. | | | | | | | 51 | 53 | 52 | | | | | 30 |
| | 31 | 30.124 | 48 | 30.174 | 48 | 51 | 43 | 52 | 43 | 47 | 45 | 45 | 44 | + | 03 | N.E. | S.E. | | | | | | | 53 | 53 | 52 | | | | | 31 |
| | Sums. | 18.14 | 17 | 17.13 | 16 | 16 | 12 | 20.93 | 11.51 | 14.14 | 14 | 15 | 15 | | | | | | | | | | | 15.19 | 15.17 | 14.52 | | | | | |
| | Means. | 19 | 0 | 20 | 22 | 10 | 1 | 67.5 | 57.1 | 49.4 | 57 | 14 | 8 | | | | | | | | | | | 27 | 27 | 23 | | | | | |
| | + Total Corrections for Instrumental Errors. | X.120 | | X.120 | | | X.20 | | | | | | | | | | | | | | | | | 49.0 | 48.4 | 47.5 | | | | | |
| | + 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. | | |
| ci. | cirrus. | ms. | meteors. | | |
| ci-cu. | cirro-cumulus. | n. | nimbus. | | |
| cl-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. hu. | 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 |

NOTATION USED IN GENERAL REMARKS.

| | | | |
|---------|-------------------|----------|-------------------------|
| a. | denotes aurora. | m. | denotes meteor. |
| ci. | " cirrus. | ms. | " meteors. |
| ci-cu. | " cirro-cumulus. | n. | " nimbus. |
| cu. | " cumulus. | r. | " rain. |
| cu-s. | " cumulo-stratus. | h. r. | " heavy rain. |
| d. | " dew. | c. h. r. | " continued heavy rain. |
| f. | " fog. | s. | " stratus. |
| fr. | " frost. | sc. | " squall. |
| h. fr. | " hoar-frost. | s. | " sleet. |
| h. l. | " haze. | so. ha. | " solar halo. |
| h. d. | " heavy dew. | sq. | " squall. |
| 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 | 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), = 29.697
 "Corrected Mean" of Barometer at 9 P.M., minus the Correction $\frac{1}{100}$ for Temp. (Col. 4), = 29.726
 Mean at Station, corrected, and at 32°, = 29.712
 Correction for height, feet above Mean Sea-Level, = 199
 Mean, reduced to 32°, and Sea-Level, = 29.911
 Highest Reading, corrected for Index error, on the 31st th., = 30.174
 Lowest Do. Do., on the 3rd th., = 28.862
 Difference, or Monthly Range, = 1.312

S.R. THERMOMETER, (in shade, etc.), Highest in Month, (corrected for Index Errors), on the 2nd th., = 64.0
 Lowest in Month, corrected for Index errors, on the 1st th., = 32.0
 Difference, or Monthly Range, = 32.0
 "Corrected Mean" of all the Highest, (Col. 5), = 55.4
 "Corrected Mean" of all the Lowest, (Col. 6), = 42.5
 Difference, or Mean Daily Range, = 10.9
 ** Calculated Mean Temperature of Month, = 48.0
 S.R. THERMOMETER, Black Bulb in Sun, Highest, (corrected for Index Errors), on the 23rd th., = 99.0
 "Corrected Mean," (Col. 7), of Black Bulb, Max. in Sun, = 67.5
 Lowest at Night, Black Bulb (corrected for Index errors), on the 13th, = 27.0
 "Corrected Mean," (Col. 8), of Black Bulb, Min. on grass, = 37.1
 Difference of above means or range ("exposed"), =

HYGROMETER, Mean (corrected) A.M. and P.M. Reading of Dry Bulb, (Cols. 9 and 11), = 47.1
 Mean (corrected) A.M. and P.M. Reading of Wet Bulb, (Cols. 10 and 12), = 44.1
 ** Computed Temperature of Dew-Point, = 40.7
 ** Do. Elastic Force of Vapour, = 0.254
 ** Do. Weight of Vapour in a Cubic Foot of Air, =
 ** Relative Humidity (Saturation = 100), = 79
 RAIN fell on 13 Days; Amount in Inches, = 1.00

| WIND. | | SUMMARY. | | | | |
|------------|--|----------|----|---|----|---|
| Direction. | | N | NE | E | SE | S |
| A.M. | | 4 | 3 | - | 4 | 6 |
| P.M. | | 3 | 4 | - | 10 | 4 |
| Mean. | | 3 | 4 | 0 | 7 | 5 |

Observations made and Return verified by

John Torrick

(Signed)

SCOTTISH METEOROLOGICAL SOCIETY.

Observations taken at Haddo House, County of Aberdeen, in Lat. 57° 24', Long. 2° 14', Distance from Sea 12 miles.Height of Cistern of the Barometer above Mean Sea-Level 120 feet, above Ground 3 feet.During the MONTH of June 1900 -189.

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. <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. | | 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. | 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. | | | | | No. | No. | |
| | | * No. | | No. | | No. | No. | No. | No. | | | | | | | | | | | | | | | | | | | | | No. 3 inches. | No. 12 inches. | No. 22 inches. |
| | | inches. | ° | inches. | ° | ° | ° | ° | ° | ° | ° | ° | ° | | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | | | | | ° | ° | ° |
| | 1 | 30.188 | 47 | 30.132 | 47 | 50 | 43 | 51 | 43 | 46 | 44 | 45 | 43 | | | N.E. | | N.E. | | | | | | 51 | 52 | 52 | | | | 1 | | |
| | 2 | 30.088 | 49 | 30.004 | 47 | 51 | 43 | 74 | 43 | 50 | 48 | 43 | 43 | | | E. | | S.E. | | | | | | 52 | 52 | 52 | | | | 2 | | |
| | 3 | 29.998 | 56 | 29.932 | 49 | 65 | 36 | 84 | 35 | 55 | 52 | 45 | 44 | | | S.E. | | S.E. | | | | | | 54 | 53 | 52 | | | | 3 | | |
| | 4 | 29.902 | 49 | 29.868 | 50 | 54 | 40 | 70 | 39 | 46 | 45 | 47 | 45 | | | N. | | S. | | | | | | 54 | 54 | 52 | | | | 4 | | |
| | 5 | 29.878 | 49 | 29.788 | 49 | 57 | 40 | 76 | 39 | 48 | 47 | 44 | 43 | | | S.E. | | S.E. | | | | | | 55 | 55 | 53 | | | | 5 | | |
| | 6 | 29.698 | 50 | 29.624 | 50 | 56 | 43 | 70 | 41 | 48 | 46 | 47 | 45 | | | E. | | S.E. | | | | | | 55 | 55 | 53 | | | | 6 | | |
| | 7 | 29.526 | 48 | 29.478 | 48 | 51 | 43 | 48 | 43 | 48 | 47 | 45 | 43 | + | | S.E. | | S.E. | | | | | | 55 | 55 | 53 | | | | 7 | | |
| | 8 | 29.462 | 49 | 29.492 | 49 | 52 | 43 | 66 | 43 | 48 | 46 | 46 | 43 | | | N. | | N. | | | | | | 55 | 55 | 53 | | | | 8 | | |
| | 9 | 29.538 | 50 | 29.512 | 52 | 52 | 44 | 58 | 40 | 49 | 48 | 52 | 52 | + | | N.E. | | S. | | | | | | 55 | 55 | 53 | | | | 9 | | |
| | 10 | 29.552 | 60 | 29.588 | 58 | 66 | 52 | 88 | 50 | 61 | 56 | 55 | 52 | 106 | | S. | | S. | | | | | | 57 | 55 | 53 | | | | 10 | | |
| | 11 | 29.626 | 59 | 29.662 | 57 | 70 | 50 | 87 | 47 | 60 | 57 | 52 | 51 | + | | S.E. | | S.E. | | | | | | 58 | 56 | 53 | | | | 11 | | |
| | 12 | 29.686 | 54 | 29.702 | 55 | 57 | 51 | 73 | 48 | 54 | 53 | 52 | 51 | + | | S.E. | | S.E. | | | | | | 58 | 57 | 54 | | | | 12 | | |
| | 13 | 29.704 | 63 | 29.624 | 56 | 63 | 49 | 77 | 48 | 58 | 56 | 53 | 52 | | | S.E. | | S.E. | | | | | | 58 | 58 | 54 | | | | 13 | | |
| | 14 | 29.708 | 63 | 29.756 | 58 | 72 | 51 | 85 | 49 | 65 | 59 | 53 | 52 | | | S.W. | | S.E. | | | | | | 61 | 59 | 55 | | | | 14 | | |
| | 15 | 29.692 | 63 | 29.594 | 53 | 67 | 44 | 81 | 42 | 63 | 58 | 47 | 46 | | | S.E. | | S.E. | | | | | | 61 | 59 | 56 | | | | 15 | | |
| | 16 | 29.636 | 53 | 29.666 | 52 | 55 | 45 | 64 | 46 | 51 | 50 | 48 | 48 | | | N.E. | | S.E. | | | | | | 58 | 59 | 56 | | | | 16 | | |
| | 17 | 29.634 | 53 | 29.644 | 55 | 59 | 48 | 71 | 50 | 51 | 51 | 54 | 53 | 139 | | S.E. | | N.W. | | | | | | 57 | 58 | 56 | | | | 17 | | |
| | 18 | 29.780 | 58 | 29.784 | 54 | 66 | 45 | 93 | 40 | 63 | 57 | 49 | 48 | | | N.W. | | S.E. | | | | | | 58 | 58 | 56 | | | | 18 | | |
| | 19 | 29.618 | 55 | 29.508 | 55 | 57 | 48 | 61 | 46 | 52 | 52 | 52 | 51 | + | | S.E. | | S.E. | | | | | | 58 | 58 | 56 | | | | 19 | | |
| | 20 | 29.376 | 56 | 29.305 | 55 | 64 | 47 | 78 | 47 | 55 | 54 | 52 | 51 | + | | S.E. | | S.E. | | | | | | 58 | 58 | 56 | | | | 20 | | |
| | 21 | 29.372 | 58 | 29.384 | 52 | 59 | 49 | 85 | 47 | 58 | 55 | 52 | 52 | 2.08 | | W. | | N. | | | | | | 60 | 59 | 56 | | | | 21 | | |
| | 22 | 29.432 | 58 | 29.448 | 54 | 57 | 47 | 83 | 43 | 58 | 55 | 51 | 50 | + | | N.W. | | S. | | | | | | 59 | 59 | 56 | | | | 22 | | |
| | 23 | 29.512 | 57 | 29.624 | 54 | 57 | 49 | 77 | 44 | 54 | 52 | 51 | 50 | + | | N.W. | | S. | | | | | | 58 | 58 | 56 | | | | 23 | | |
| | 24 | 29.622 | 61 | 29.554 | 53 | 64 | 40 | 79 | 36 | 61 | 57 | 50 | 48 | 21 | | S.E. | | E. | | | | | | 58 | 58 | 57 | | | | 24 | | |
| | 25 | 29.534 | 56 | 29.496 | 52 | 58 | 49 | 67 | 48 | 58 | 57 | 56 | 49 | + | | N.E. | | N.E. | | | | | | 58 | 58 | 57 | | | | 25 | | |
| | 26 | 29.468 | 55 | 29.486 | 51 | 57 | 46 | 74 | 47 | 56 | 52 | 52 | 51 | | | N.W. | | N.W. | | | | | | 57 | 58 | 57 | | | | 26 | | |
| | 27 | 29.524 | 56 | 29.566 | 51 | 58 | 50 | 70 | 46 | 53 | 51 | 53 | 52 | | | N.W. | | N.W. | | | | | | 57 | 57 | 57 | | | | 27 | | |
| | 28 | 29.754 | 57 | 29.738 | 55 | 57 | 47 | 71 | 44 | 56 | 54 | 54 | 53 | + | | S. | | S.E. | | | | | | 58 | 58 | 57 | | | | 28 | | |
| | 29 | 29.576 | 56 | 29.372 | 57 | 58 | 50 | 73 | 45 | 54 | 53 | 54 | 52 | + | | S. | | S. | | | | | | 58 | 58 | 57 | | | | 29 | | |
| | 30 | 29.434 | 62 | 29.188 | 56 | 66 | 52 | 84 | 51 | 62 | 56 | 53 | 52 | 55 | | S. | | W. | | | | | | 60 | 58 | 51 | | | | 30 | | |
| | 31 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | 31 | |
| Sums. | | 1711 | 1660 | 1614 | 1585 | 177 | 138 | 177 | 138 | 1641 | 1560 | 1501 | 1466 | 329 | | | | | | | | | | 211 | 202 | 139 | | | | | | |
| Means. | | 29.655 | 55.3 | 29.633 | 52.8 | 62.5 | 45.4 | 73.9 | 44.3 | 57.8 | 52.3 | 52.0 | 48.9 | 1.3 | 3.29 | | | | | | | | | 57.0 | 56.7 | 54.6 | | | | | | |
| + Total Corrections for Instrumental Errors. | | x 120 | | x 120 | | 59.2 | 46.1 | | | | | | | | | | | | | | | | | 567 | 567 | 548 | | | | | | |
| + Corrections for Diurnal Range. | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| "Corrected Means." | | 29.775 | | 29.753 | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 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. | " mist. |
| ci-cu. | " cirro-cumulus. | n. | " nimbus. |
| cl-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. h. | " solar halo. |
| h. d. | " heavy dew. | sq. | " squall. |
| h. | " hail. | sq. | " squall. |
| l. | " lightning. | t. s. | " thunder. |
| h. cl. | " light clouds. | w. | " wind. |
| h. sh. | " light showers. | s. | " gale of wind. |
| h. co. | " lunar corona. | | |
| h. 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 $\frac{1}{2}$ for Temp. (Col. 2), 29.775 = 29.703"Corrected Mean" of Barometer at 9 P.M., minus the Correction $\frac{1}{2}$ for Temp. (Col. 4), 29.753 = 29.687Mean at Station, corrected, and at 32°, = 29.695Correction for height, feet above Mean Sea-level, = 194Mean, reduced to 32°, and Sea-level, = 29.889Highest Reading, corrected for Index error, on the 1 th, = 30.188Lowest Do. Do., on the 30 th, = 29.188Difference, or Monthly Range, = 1.000S.-R. THERMOMETER, (in shade, etc.), Highest in Month, (corrected for Index Errors), on the 11 th, = 40.0Lowest in Month, corrected for Index errors, on the 3 th, = 36.0Difference, or Monthly Range, = 4.0"Corrected Mean" of all the Highest, (Col. 5), = 39.2"Corrected Mean" of all the Lowest, (Col. 6), = 48.1Difference, or Mean Daily Range, = 11.1** Calculated Mean Temperature of Month, = 33.6S.-R. THERMOMETER, Black Bulb in Sun, Highest, (corrected for Index Errors), on the 15 th, = 93.0"Corrected Mean," (Col. 7), of Black Bulb, Max. in Sun, = 73.9Lowest at Night, Black Bulb (corrected for Index errors), on the 3 th, = 35.0"Corrected Mean," (Col. 8), of Black Bulb, Min. on grass, = 44.3Difference of above means or range ("exposed"), = HYGROMETER, Mean (corrected) A.M. and P.M. Reading of Dry Bulb, (Cols. 9 and 11), = 52.4Mean (corrected) A.M. and P.M. Reading of Wet Bulb, (Cols. 10 and 12), = 50.6** Computed Temperature of Dew-Point, = 48.6** Do. Elastic Force of Vapour, = 2.46** Do. Weight of Vapour in a Cubic Foot of Air, = ** Relative Humidity (Saturation = 100), = 88RAIN fell on 13 Days; Amount in Inches, = 3.29

| WIND. | SUMMARY. | | | | | | | | | |
|-------|------------|---|----|---|----|---|----|---|----|-------------------|
| | Direction. | N | NE | E | SE | S | SW | W | NW | Calm or Variable. |
| A.M. | | 2 | 4 | 2 | 1 | 4 | 1 | 1 | 5 | - |
| P.M. | | 2 | 2 | 1 | 1 | 5 | 6 | 1 | 3 | - |
| Mean. | | 2 | 3 | 1 | 1 | 3 | 5 | 1 | 4 | 0 |

Observations made and
Return verified by

John Forrest

(Signed)

SCOTTISH METEOROLOGICAL SOCIETY.

Observations taken at Haddo House, County of Aberdeen, in Lat. 57° 24', Long. 2° 14', Distance from Sea 12 miles.Height of Cistern of the Barometer above Mean Sea-Level 120 feet, above Ground 3 feet.During the MONTH of July 1891/1900.

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. <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. | | 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 rays. | Min. on Grass. | Dry bulb. | Wet bulb. | Dry bulb. | Wet bulb. | | Dry bulb. | Wet bulb. | Dry bulb. | Wet bulb. | Velocity (0-6) and Direction. | Amount (0-10), and Species. | Velocity (0-6) and Direction. | Amount (0-10), and Species. | No. 1 inches. | No. 2 inches. | No. 3 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. | |
| | | inches. | ° | inches. | ° | ° | ° | ° | ° | ° | ° | ° | ° | | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | | | | | | ° | |
| | 1 | 29.194 | 65 | 29.198 | 56 | 66 | 43 | 94 | 39 | 62 | 56 | 52 | 52 | + | N.W. | S.E. | | | | | | | 59 | 58 | 57 | | | | | | 1 | |
| | 2 | 29.278 | 62 | 29.362 | 55 | 59 | 47 | 78 | 44 | 61 | 57 | 52 | 51 | + | N.W. | S.E. | | | | | | | 60 | 59 | 57 | | | | | | 2 | |
| | 3 | 29.492 | 58 | 29.732 | 53 | 57 | 49 | 75 | 43 | 57 | 57 | 49 | 47 | + | N.E. | N.W. | | | | | | | 59 | 59 | 57 | | | | | | 3 | |
| | 4 | 29.794 | 57 | 29.728 | 53 | 57 | 41 | 76 | 36 | 54 | 49 | 49 | 48 | + | N.W. | S | | | | | | | 57 | 59 | 57 | | | | | | 4 | |
| | 5 | 29.528 | 62 | 29.500 | 57 | 67 | 42 | 83 | 45 | 52 | 47 | 54 | 57 | + | W. | W | | | | | | | 58 | 59 | 57 | | | | | | 5 | |
| | 6 | 29.456 | 54 | 29.758 | 52 | 60 | 42 | 61 | 41 | 51 | 49 | 49 | 47 | + | W | N.W. | | | | | | | 57 | 58 | 57 | | | | | | 6 | |
| | 7 | 29.864 | 51 | 29.946 | 50 | 55 | 45 | 67 | 39 | 48 | 45 | 45 | 43 | + | N | N.W. | | | | | | | 55 | 57 | 57 | | | | | | 7 | |
| | 8 | 29.938 | 56 | 29.852 | 55 | 60 | 41 | 69 | 36 | 55 | 52 | 54 | 53 | + | 58 N.W. | W | | | | | | | 56 | 57 | 57 | | | | | | 8 | |
| | 9 | 29.778 | 58 | 29.718 | 57 | 61 | 54 | 62 | 53 | 59 | 59 | 56 | 56 | + | S.W. | S.W. | | | | | | | 58 | 57 | 56 | | | | | | 9 | |
| | 10 | 29.668 | 60 | 29.608 | 61 | 71 | 57 | 88 | 51 | 60 | 59 | 59 | 55 | | S.W. | S.E. | | | | | | | 59 | 57 | 56 | | | | | | 10 | |
| | 11 | 29.594 | 64 | 29.622 | 62 | 72 | 52 | 87 | 47 | 67 | 61 | 57 | 57 | | S | S.E. | | | | | | | 61 | 59 | 57 | | | | | | 11 | |
| | 12 | 29.538 | 64 | 29.528 | 59 | 69 | 54 | 86 | 57 | 62 | 60 | 56 | 55 | + | S.E. | S.E. | | | | | | | 63 | 61 | 58 | | | | | Thunder | 12 | |
| | 13 | 29.526 | 61 | 29.556 | 61 | 64 | 54 | 87 | 55 | 59 | 57 | 56 | 55 | + | N.W. | S.E. | | | | | | | 63 | 61 | 58 | | | | | | 13 | |
| | 14 | 29.518 | 67 | 29.586 | 62 | 71 | 54 | 88 | 53 | 67 | 62 | 59 | 58 | + | S | S.W. | | | | | | | 66 | 62 | 59 | | | | | Thunder | 14 | |
| | 15 | 29.758 | 60 | 29.894 | 59 | 64 | 56 | 85 | 55 | 58 | 57 | 56 | 55 | + | 1.52 N.W. | S.E. | | | | | | | 63 | 62 | 59 | | | | | | 15 | |
| | 16 | 29.814 | 59 | 29.684 | 61 | 67 | 55 | 73 | 54 | 56 | 56 | 54 | 57 | + | S.E. | W | | | | | | | 62 | 61 | 59 | | | | | | 16 | |
| | 17 | 29.812 | 61 | 29.836 | 64 | 73 | 54 | 89 | 49 | 65 | 60 | 61 | 59 | | W | S.W. | | | | | | | 63 | 62 | 60 | | | | | | 17 | |
| | 18 | 29.762 | 71 | 29.744 | 66 | 77 | 57 | 95 | 53 | 74 | 68 | 64 | 60 | | S.W. | W | | | | | | | 64 | 62 | 60 | | | | | | 18 | |
| | 19 | 29.752 | 67 | 29.862 | 57 | 70 | 55 | 85 | 54 | 68 | 62 | 55 | 53 | + | S.E. | N.E. | | | | | | | 65 | 63 | 60 | | | | | | 19 | |
| | 20 | 29.988 | 59 | 30.024 | 57 | 57 | 49 | 61 | 46 | 57 | 55 | 53 | 52 | + | S.E. | S.E. | | | | | | | 62 | 63 | 60 | | | | | | 20 | |
| | 21 | 30.006 | 56 | 29.924 | 57 | 58 | 53 | 71 | 42 | 55 | 53 | 54 | 52 | + | S | S.E. | | | | | | | 60 | 62 | 60 | | | | | | 21 | |
| | 22 | 29.860 | 60 | 29.838 | 59 | 67 | 52 | 83 | 48 | 60 | 56 | 55 | 54 | + | 63 W | S.E. | | | | | | | 61 | 61 | 60 | | | | | | 22 | |
| | 23 | 29.802 | 62 | 29.628 | 62 | 64 | 53 | 75 | 57 | 63 | 60 | 62 | 61 | + | N.W. | S | | | | | | | 63 | 62 | 60 | | | | | | 23 | |
| | 24 | 29.624 | 61 | 29.682 | 58 | 63 | 53 | 78 | 57 | 61 | 59 | 54 | 54 | + | S | S.E. | | | | | | | 63 | 62 | 60 | | | | | | 24 | |
| | 25 | 29.612 | 58 | 29.638 | 58 | 58 | 52 | 60 | 50 | 57 | 56 | 55 | 55 | + | N.E. | S | | | | | | | 61 | 62 | 60 | | | | | | 25 | |
| | 26 | 29.678 | 59 | 29.796 | 59 | 66 | 53 | 81 | 52 | 58 | 56 | 56 | 55 | + | W | N.W. | | | | | | | 61 | 62 | 60 | | | | | | 26 | |
| | 27 | 29.832 | 60 | 29.834 | 59 | 66 | 52 | 77 | 52 | 60 | 56 | 56 | 55 | + | N.W. | S.E. | | | | | | | 61 | 62 | 60 | | | | | | 27 | |
| | 28 | 29.742 | 57 | 29.536 | 56 | 66 | 52 | 63 | 52 | 55 | 54 | 53 | 52 | + | S | S | | | | | | | 60 | 61 | 60 | | | | | | 28 | |
| | 29 | 29.400 | 61 | 29.368 | 59 | 59 | 53 | 80 | 53 | 68 | 61 | 58 | 57 | + | 1.28 S.E. | S.E. | | | | | | | 61 | 61 | 60 | | | | | | 29 | |
| | 30 | 29.334 | 62 | 29.574 | 56 | 56 | 52 | 74 | 57 | 57 | 55 | 52 | 57 | + | N.W. | N.W. | | | | | | | 60 | 61 | 60 | | | | | | 30 | |
| | 31 | 29.674 | 61 | 29.486 | 58 | 58 | 47 | 78 | 48 | 60 | 55 | 53 | 55 | + | 47 S.E. | N.W. | | | | | | | 60 | 60 | 60 | | | | | | 31 | |
| Sums. | | 19154 | | 191416 | | 15 | 11 | 14 | 12 | 14 | 13 | 16 | 13 | | | | | | | | | | 1879 | 1872 | 1818 | | | | | | | |
| Means. | | 29.616 | 1877 | 29.638 | 1800 | 199 | 1569 | 2409 | 1804 | 1853 | 1756 | 1707 | 1665 | 1.48 | | | | | | | | | | | | | | | | | | |
| + Total Corrections for Instrumental Errors. | | 29.661 | 60.5 | 29.677 | 58.1 | 63.5 | 50.6 | 77.8 | 48.2 | 59.9 | 56.3 | 55.1 | 53.7 | 26.4 | 48 | | | | | | | | 60.6 | 60.3 | 58.6 | | | | | | | |
| + Corrections for Diurnal Range. | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| "Corrected Means." | | 29.785 | | 29.797 | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 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 | |

BAROMETER, "corrected Mean" at 9 A.M., minus the Correction $\frac{1}{10}$ for Temp. (Col. 2), = 29.699
"Corrected Mean" of Barometer at 9 P.M., minus the Correction $\frac{1}{10}$ for Temp. (Col. 4), = 29.718
Mean at Station, corrected, and at 32°, = 29.708
Correction for height, feet above Mean Sea-level, = 196
Mean, reduced to 32°, and Sea-level, = 29.904
Highest Reading, corrected for Index error, on the 10th, = 30.024
Lowest Do. Do., on the 1st, = 29.194
Difference, or Monthly Range, = 0.830

S.R. THERMOMETER, (in shade, etc.), Highest in Month, (corrected for Index Errors), on the 18th, = 77.0
Lowest in Month, corrected for Index errors, on the 23rd, = 41.0
Difference, or Monthly Range, = 36.0
"Corrected Mean" of all the Highest, (Col. 5), = 63.5
"Corrected Mean" of all the Lowest, (Col. 6), = 50.6
Difference, or Mean Daily Range, = 12.9
** Calculated Mean Temperature of Month, = 57.1
S.R. THERMOMETER, Black Bulb in Sun, Highest, (corrected for Index Errors), on the 18th, = 95.0
"Corrected Mean," (Col. 7), of Black Bulb, Max. in Sun, = 77.8
Lowest at Night, Black Bulb (corrected for Index errors), on the 4th, = 36.0
"Corrected Mean," (Col. 8), of Black Bulb, Min. on grass, = 48.2
Difference of above means or range ("exposed"), =

HYGROMETER, Mean (corrected) A.M. and P.M. Reading of Dry Bulb, (Cols. 9 and 11), = 57.4
Mean (corrected) A.M. and P.M. Reading of Wet Bulb, (Cols. 10 and 12), = 55.0
†† Computed Temperature of Dew-Point, = 52.8
†† Do. Elastic Force of Vapour, = 4.100
†† Do. Weight of Vapour in a Cubic Foot of Air, = 85
†† Relative Humidity (Saturation = 100), = 85
RAIN fell on 26 Days; Amount in Inches, = 4.48

| WIND. | | SUMMARY. | | | | | | | | | |
|------------|--|----------|----|---|----|---|----|---|----|-------------------|-------------|
| Direction. | | N | NE | E | SE | S | SW | W | NW | Calm or Variable. | Mean Force. |
| A.M. | | 1 | 2 | 3 | 6 | 2 | 3 | 5 | 9 | | |
| P.M. | | 1 | 2 | 2 | 13 | 2 | 3 | 4 | 5 | | |
| Mean. | | 1 | 2 | 3 | 9 | 2 | 3 | 4 | 7 | | |

Observations made and
Return verified by

John Forrest

(Signed)

X
para

Para

Height of Cistern of the Barometer above Mean Sea-Level 180 feet, above Ground 2 feet.

During the MONTH of August 189

The Hours of Observation are of Greenwich Time.

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

| TABLE FOR ESTIMATING FORCE OF WIND. | | | | | |
|-------------------------------------|---------------------|--------------------------|---------------------|--------------------------|---------------------|
| Estimated Force, 0—3. | Common Designation. | Estimated Force, 0—3. | Common Designation. | Estimated Force, 0—3. | 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 $\frac{+1}{2}$ | = | 29.744 |
| | for Temp. (Col. 2), = | | |
| | "Corrected Mean" of Barometer at 9 P.M., minus the Correction $\frac{+1}{2}$ | = | 29.753 |
| | for Temp. (Col. 4), = | | |
| Mean at Station, corrected, and at 32", | | = | 29.748 |
| Correction for height, | feet above Mean Sea-level, | = | 1.76 |
| Mean, reduced to 32", and Sea-level, | | = | 29.944 |
| Highest Reading, corrected for Index error, on the | 24 th , | = | 30.162 |
| Lowest Do. | Do., on the | = | 29.062 |
| Difference, or Monthly Range, | | = | 1.102 |

| | | |
|--|---|------|
| S.-R. THERMOMETER, (in shade, etc.), Highest in Month, (corrected for Index Errors), on the 12 th | = | 72.0 |
| Lowest in Month, corrected for Index errors, on the 9 th , | = | 39.0 |
| Difference, or Monthly Range, | = | 33.0 |
| "Corrected Mean " of all the Highest, (Col. 5), | = | 60.8 |
| "Corrected Mean " of all the Lowest, (Col. 6),..... | = | 47.3 |
| Difference, or Mean Daily Range, | = | 13.5 |
| ** Calculated Mean Temperature of Month, | = | 54.0 |
| S.-R. THERMOMETER, Black Bulb in Sun, Highest, (corrected for Index Errors), on the 12 th | = | 95.0 |
| "Corrected Mean, " (Col. 7), of Black Bulb, Max. in Sun, | = | 73.2 |
| Lowest at Night, Black Bulb (corrected for Index errors), on the 9 th , | = | 39.0 |
| "Corrected Mean, " (Col. 8), of Black Bulb, Min. on grass,..... | = | 47.3 |
| Difference of above means or range ("exposed"), | = | |

| | | |
|--|---|------|
| HYGROMETER, Mean (corrected) A.M. and P.M. Reading of Dry Bulb , (Cols. 9 and 11), | = | 54.4 |
| Mean (corrected) A.M. and P.M. Reading of Wet Bulb , (Cols. 10 and 12), | = | 52.5 |
| ‡‡ Computed Temperature of Dew-Point , | = | 50.6 |
| ‡‡ Do. Elastic Force of Vapour , | = | 370 |
| ‡‡ Do. Weight of Vapour in a Cubic Foot of Air , | = | |
| ‡‡ Relative Humidity (Saturation = 100), | = | 88 |
| RAIN fell on 14 Days; Amount in Inches, | = | 3.09 |

| WIND. | | SUMMARY. | | | | | | | | | |
|------------|---|----------|---|----|---|----|---|----|-------------------|-------------|--------------------------------|
| Direction. | N | NE | E | SE | S | SW | W | NW | Calm or Variable. | Mean Force. | Mean Velocity in miles per day |
| A.M. | 5 | 2 | 2 | 6 | 2 | 5 | - | 7 | - | | |
| P.M. | 5 | 5 | - | 9 | 4 | 2 | 3 | 3 | - | | |
| Mean. | 5 | 4 | 1 | 7 | 3 | 3 | 2 | 6 | 0 | - | |

Observations made and
Return verified by

(Signed)

SCOTTISH METEOROLOGICAL SOCIETY.

Observations taken at Haddo House, County of Aberdeen, in Lat. 57° 24', Long. 2° 14', Distance from Sea 12 miles.

Height of Cistern of the Barometer above Mean Sea-Level 180 feet, above Ground 3 feet.

During the MONTH of September 1900 189.

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. | | 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. | | | | | 0-10. | | | As to occurrence of Thunder, Lightning, Storms, Hail, Meteors, Remarkable Depression or Elevation of Barometer, Prevalent Diseases, etc. | | | | | | | |
| | | 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. | Temperature of WELL at depth of feet. No. | Temperature at 1 fathom, and Density. | 9 A.M. | 9 P.M. | Mention the hour at which Storms, including Thunder and Lightning, began and ended. | | |
| | | * No. | | No. | | No. | No. | No. | No. | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | inches. | ° | inches. | ° | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | 1 | 29.492 | 59 | 29.672 | 53 | 66 | 46 | 83 | 42 | 61 | 56 | 61 | 49 | + | SW | NW | | | | | | | | | 56 | 57 | 57 | | | | | | 1 | | | | | | |
| | 2 | 29.768 | 54 | 30.046 | 52 | 53 | 47 | 60 | 44 | 52 | 50 | 49 | 46 | + | NW | NW | | | | | | | | | 54 | 57 | 57 | | | | | | 2 | | | | | | |
| | 3 | 30.092 | 52 | 30.064 | 51 | 56 | 35 | 71 | 31 | 50 | 47 | 50 | 48 | | SW | SW | | | | | | | | | 51 | 56 | 57 | | | | | | 3 | | | | | | |
| | 4 | 30.012 | 55 | 29.926 | 54 | 61 | 46 | 79 | 41 | 56 | 53 | 54 | 51 | | W | SW | | | | | | | | | 55 | 56 | 56 | | | | | | 4 | | | | | | |
| | 5 | 29.840 | 55 | 29.718 | 56 | 58 | 51 | 58 | 49 | 54 | 53 | 57 | 56 | + | W | SW | | | | | | | | | 55 | 56 | 56 | | | | | | 5 | | | | | | |
| | 6 | 29.752 | 58 | 29.766 | 54 | 58 | 52 | 75 | 48 | 60 | 55 | 52 | 52 | + | NW | SW | | | | | | | | | 57 | 57 | 56 | | | | | | 6 | | | | | | |
| | 7 | 29.748 | 55 | 29.704 | 55 | 57 | 51 | 66 | 49 | 54 | 54 | 53 | 52 | + | SE | SW | | | | | | | | | 56 | 57 | 56 | | | | | | 7 | | | | | | |
| | 8 | 29.738 | 58 | 29.682 | 56 | 63 | 51 | 81 | 49 | 60 | 56 | 54 | 53 | | SE | SW | | | | | | | | | 57 | 57 | 56 | | | | | | 8 | | | | | | |
| | 9 | 29.708 | 58 | 29.706 | 54 | 63 | 50 | 78 | 47 | 58 | 54 | 52 | 51 | + | 40 NW | W | | | | | | | | | 56 | 57 | 56 | | | | | | 9 | | | | | | |
| | 10 | 29.664 | 57 | 29.918 | 52 | 57 | 50 | 73 | 44 | 57 | 54 | 50 | 48 | + | NW | NW | | | | | | | | | 57 | 57 | 57 | | | | | | 10 | | | | | | |
| | 11 | 30.128 | 56 | 30.156 | 52 | 65 | 48 | 78 | 43 | 57 | 54 | 48 | 47 | | W | W | | | | | | | | | 56 | 57 | 57 | | | | | | 11 | | | | | | |
| | 12 | 30.200 | 56 | 30.228 | 54 | 65 | 42 | 90 | 38 | 60 | 55 | 53 | 52 | | NW | SW | | | | | | | | | 54 | 57 | 57 | | | | | | 12 | | | | | | |
| | 13 | 30.216 | 58 | 30.162 | 52 | 64 | 40 | 78 | 35 | 59 | 56 | 50 | 50 | | SE | SE | | | | | | | | | 54 | 57 | 57 | | | | | | 13 | | | | | | |
| | 14 | 30.082 | 54 | 30.032 | 50 | 69 | 36 | 84 | 32 | 58 | 56 | 49 | 47 | | SW | SW | | | | | | | | | 53 | 56 | 56 | | | | | | 14 | | | | | | |
| | 15 | 29.926 | 52 | 29.842 | 52 | 61 | 37 | 75 | 33 | 58 | 57 | 52 | 51 | | S | SE | | | | | | | | | 54 | 56 | 56 | | | | | | 15 | | | | | | |
| | 16 | 29.784 | 50 | 29.792 | 54 | 69 | 47 | 72 | 44 | 59 | 57 | 53 | 52 | | 19 SE | SE | | | | | | | | | 55 | 56 | 56 | | | | | | 16 | | | | | | |
| | 17 | 29.828 | 52 | 29.684 | 54 | 55 | 44 | 58 | 41 | 54 | 54 | 53 | 53 | | SE | SE | | | | | | | | | 55 | 57 | 56 | | | | | | 17 | | | | | | |
| | 18 | 29.766 | 58 | 29.562 | 52 | 63 | 50 | 75 | 46 | 60 | 57 | 50 | 49 | + | S | W | | | | | | | | | 56 | 56 | 56 | | | | | | 18 | | | | | | |
| | 19 | 29.696 | 51 | 29.874 | 52 | 57 | 39 | 77 | 36 | 55 | 52 | 50 | 48 | | SW | SW | | | | | | | | | 53 | 55 | 56 | | | | | | 19 | | | | | | |
| | 20 | 29.788 | 53 | 29.752 | 54 | 59 | 38 | 71 | 35 | 52 | 50 | 53 | 52 | | S | W | | | | | | | | | 52 | 55 | 56 | | | | | | 20 | | | | | | |
| | 21 | 29.874 | 51 | 29.734 | 52 | 57 | 41 | 73 | 36 | 56 | 52 | 51 | 49 | + | SW | W | | | | | | | | | 52 | 55 | 56 | | | | | | 21 | | | | | | |
| | 22 | 29.784 | 55 | 29.812 | 50 | 57 | 47 | 77 | 42 | 65 | 57 | 47 | 45 | | W | W | | | | | | | | | 53 | 55 | 56 | | | | | | 22 | | | | | | |
| | 23 | 29.682 | 54 | 29.294 | 56 | 59 | 41 | 66 | 36 | 55 | 57 | 58 | 52 | | 04 S | SW | | | | | | | | | 52 | 55 | 55 | | | | | | 23 | | | | | | |
| | 24 | 29.136 | 54 | 29.348 | 44 | 57 | 39 | 70 | 34 | 53 | 51 | 39 | 38 | + | W | NW | | | | | | | | | 55 | 55 | 55 | | | | | | 24 | | | | | | |
| | 25 | 29.436 | 49 | 29.244 | 46 | 54 | 35 | 67 | 31 | 50 | 46 | 53 | 52 | + | W | NW | | | | | | | | | 48 | 54 | 55 | | | | | | 25 | | | | | | |
| | 26 | 29.596 | 46 | 29.258 | 48 | 57 | 37 | 65 | 33 | 46 | 44 | 47 | 47 | + | NW | SE | | | | | | | | | 47 | 52 | 54 | | | | | | 26 | | | | | | |
| | 27 | 29.886 | 52 | 29.172 | 50 | 57 | 45 | 76 | 42 | 56 | 54 | 49 | 48 | + | S | NW | | | | | | | | | 49 | 52 | 53 | | | | | | 27 | | | | | | |
| | 28 | 29.386 | 49 | 29.438 | 48 | 51 | 45 | 60 | 43 | 48 | 45 | 45 | 44 | + | S | SE | | | | | | | | | 51 | 53 | 53 | | | | | | 28 | | | | | | |
| | 29 | 29.344 | 51 | 29.168 | 53 | 55 | 45 | 57 | 41 | 50 | 48 | 55 | 53 | + | S | S | | | | | | | | | 51 | 53 | 53 | | | | | | 29 | | | | | | |
| | 30 | 29.056 | 57 | 29.208 | 45 | 56 | 41 | 57 | 36 | 50 | 50 | 41 | 40 | | 138 NW | SW | | | | | | | | | 52 | 53 | 53 | | | | | | 30 | | | | | | |
| | 31 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | 31 | | | |
| Sums. | | 16714 | | 14114 | | 11 | 12 | 14 | 13 | 12 | 12 | 11 | 13 | | | | | | | | | | | | 1526 | 1666 | 1668 | | | | | | | | | | | | |
| Means. | | 29.710 | | 29.689 | | 51.6 | | 71.8 | 41.3 | 55.1 | 52.4 | 50.6 | 49.2 | 15 | | | | | | | | | | | 53.5 | 55.5 | 55.8 | | | | | | | | | | | | |
| + Total Corrections for Instrumental Errors. | | + 1.0 | | + 1.0 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| + Corrections for Diurnal Range. | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| "Corrected Means." | | 29.820 | | 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. | | continued heavy rain. | | |
| d. | dew. | s. | stratus. | | |
| f. | fog. | sc. | scud. | | |
| fr. | frost. | s. | sleet. | | |
| h.-fr. | hoar-frost. | s. | snow. | | |
| h. | haze. | so. lis. | 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 = 29.762
 for Temp. (Col. 2), = 29.830 - 6.8 = 29.762
 "Corrected Mean" of Barometer at 9 P.M., minus the Correction \ddagger = 29.746
 for Temp. (Col. 4), = 29.809 - 6.3 = 29.746
 Mean at Station, corrected, and at 32, = 29.754
 Correction for height, feet above Mean Sea-level, = 19.8
 Mean, reduced to 32°, and Sea-level, = 29.952
 Highest Reading, corrected for Index error, on the 12 th, = 30.228
 Lowest Do. Do., on the 27 th, = 28.886
 Difference, or Monthly Range, = 1.342

S.R. THERMOMETER, (in shade, etc.), Highest in Month, (corrected for Index Errors), on the 14 th, = 68.0
 Lowest in Month, corrected for Index errors, on the 3 th, = 35.0
 Difference, or Monthly Range, = 34.0
 "Corrected Mean" of all the Highest, (Col. 5), = 59.3
 "Corrected Mean" of all the Lowest, (Col. 6), = 43.9
 Difference, or Mean Daily Range, = 15.4
 ** Calculated Mean Temperature of Month, = 51.6
 S.R. THERMOMETER, Black Bulb in Sun, Highest, (corrected for Index Errors), on the 14 th, = 90.0
 "Corrected Mean," (Col. 7), of Black Bulb, Max. in Sun, = 71.9
 Lowest at Night, Black Bulb (corrected for Index errors), on the 3 th, = 31.0
 "Corrected Mean," (Col. 8), of Black Bulb, Min. on grass, = 41.4
 Difference of above means or range ("exposed"), = 30.5

HYGROMETER, Mean (corrected) A.M. and P.M. Reading of Dry Bulb, (Cols. 9 and 11), = 52.8
 Mean (corrected) A.M. and P.M. Reading of Wet Bulb, (Cols. 10 and 12), = 50.8
 ** Computed Temperature of Dew-Point, = 46.8
 ** Do. Elastic Force of Vapour, = 3.46
 ** Do. Weight of Vapour in a Cubic Foot of Air, = 87
 ** Relative Humidity (Saturation = 100), = 87
 RAIN fell on 15 Days; Amount in Inches, = 2.01

| WIND. | | SUMMARY. | | | | | |
|------------|--|----------|----|---|----|----|----|
| Direction. | | N | NE | E | SE | S | SW |
| A.M. | | | 1 | | 5 | 7 | 5 |
| P.M. | | | | | 6 | 11 | 6 |
| Mean. | | 0 | 1 | 0 | 5 | 4 | 8 |

* Each instrument tested at the Office in Edinburgh bears the stamp "S.M.S." and a number to be entered in the Heading; or the Number and Initials of the Maker may be here given.
 \ddagger Enhancing corrections for both capillarity and Index Errors.
 \ddagger The Diurnal Range for Scotland is as yet unknown.
 \ddagger Practically, though not absolutely a mean correction.
 \ddagger These "Hygrometrical Distinctions" are calculated from Glaisher's Hygrometrical Tables, Second Edition only.
 \ddagger While the Diurnal Range is unknown, the Arithmetical Mean of Cols. 5 and 6 will be entered as the "Calculated Mean Temperature."
 Any observations not taken under the Conditions specified in the Directions on the other side, or noted at the Top of each column, must be marked as such by the observer, in each Schedule. See cover.

Observations made and Return verified by John Forrest

(Signed)

OBSERVATIONS,

correct numbering of the scale of every instrument; this 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 catastrophes of similar construction; and as regards maximum Thermometers, either Negretti and Zambra's, or Phillips's, whichever they will act at the highest temperatures they may be recommended to regulate. By the laws of the Society, Members and Observers have a right to have their instruments compared by the Secretaries, and to advise with him respecting the purchase of instruments. Very great care should be bestowed on the Observations of the Wind, the accuracy of which, both as regards Direction and Force, is of essential towards the right interpretation of the phenomena of the season.

A Wind-Yane ought to be elevated at least 10 feet above the surrounding objects. When it oscillates sensibly the mean direction should be taken. In all cases, but especially when the Yane 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, exact observations at every hour of Greenwich time. Such

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 united district round Edinburgh, called *STORM STATIONS*, in the use of being established by the Society for the systematic investigation of the relation of the force of the wind to *BAROMETRIC PRESSURES*, 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 they also the mean *Velocity of the Wind* at the time of observation may be ascertained. For indicating the

Velocity and Pressure.

phenomena of the Wind at any particular hour of observation, the Pressure of the atmosphere, the direction of the Wind, the Force of the Wind, &c. &c. Mr. T. Stevenson, the Honorary Secretary, and Mr. R. Ballingall, the Honorary Observer at Ellabruis, 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, and the want of uniformity in the difficulty of obtaining a correct estimate of the quantity of rain, is a defect which is not to be remedied, partly from the defective nature of the instruments used, and partly from the nature of the rain itself. It is not possible to place a Rain Gauge should not be placed on a slope or terrace, but on a level piece of ground in as open a situation as the Observer can secure for it. As it is often difficult to obtain a position free and unobstructed by surrounding objects as is desirable, the gauges must be taken to place 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, and the more frequent observations, should be made towards the wind, in the order of their importance, S.W., N.E., S.E., S., and W. The use 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 Fleming's, which furnished

and a measuring rod according to the height of the water, the rod ought to be fixed down, and the flow rise to its height only at the time the instrument is used. It is not necessary to use a measuring rod, but the height of the water may be read, if being found that a stem projecting above the rim of the gauge seriously interferes with the proper measurement of the Ram-gauge.

11. When a measuring glass is used, care should be taken to hold it quite perpendicular. The Ram-gauge ought to be read daily at 8 A.M., and the reading entered in the Returns of the previous day. The gauge is read once a month, the reading is to be made on the last of the month, and the amount entered for the previous month, snow-falls may, for convenience, be registered in the column.

snow falls, under the following conditions: — "When a Snowstorm occurs, it should be noted in the 'Remarks' and the letter S annexed to the depth of water received in Gauge. The amount of snow which has fallen upon the ice should also be observed and signified in addition to the above check mark." In every column of the Rain Gauge, wind, rain, and snow, as indicated in various columns, 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 given in each observation, and the kind of clouds.

to be estimated from the greater or less obliquity of the strata over the sky overhead (*i.e.* within 20° or 30° of the zenith). The strata & Clouds that appear near the horizon are viewed obliquely; and those which appear at the zenith are viewed vertically. By means of the latter, being unable to judge of their amount, we ought not to take them into account in the Clouds' column, though their appearance often changes may be noted among the Remarks. The amount of Clouds is entered from 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, S. W. — will indicate that the upper strata of Clouds travel with S. W. — 2. W. —, and those in the lower regions from extreme velocity from S.W., with one-third the speed of the former. Again, in the second column, 4, st. — will indicate that the lower clouds are stationary

cloud column, an entry of $\frac{2}{2}$, cloud-4, 4-tenths with stratus clouds; and that the sky is further observed to the extent of 2-tenths by over 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 of the Sun-dial.


As the germination and growth of crops and plants generally depend greatly on the temperature of the soil—the **Underground Thermometers**—the Council recommend that observations be made by the Engineering department by means of 9 A.T.s., by *Thermometers* permanently fixed in the soil there, at depths of 3, 12, and 22 inches, and the stems above ground protected from the sun's rays, and fitted with a sloping collar, to prevent rain-water being conveyed to the bulbs by the stems or wood-stems.

A knowledge of the Temperature of the Sea is not only in itself, but in its relations to that of our island, a most important branch of Meteorology. The Council therefore recommend that the Temperature of the Sea be carefully taken by a properly constructed apparatus, from boats or from the shore, at least twice a day, at the following places:—at the coast, where it is not influenced by that of river water and as little as possible by currents sweeping along the coast, and as little as possible by the temperature of the land, either greatly heated by the sun or cooled by nocturnal radiation. At or near the extreme of high

BOOK POST.

122 *Geographical Science*

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| Plum, | | |
| Strawberry, | | |

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SHRUBS, etc.

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| erry, . . . | tree or Elder, | m, | l, | thorn, . . . | Y, . . . | rum, . . . | rean, . . . | tain Ash or Ro | flowering Curr | lodendron Pon | , . . . |
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Have the goodnews also to state any information you may be able to collect relative to the Crops of Grain, Hay, Potatoes, Turnips, Fruits, etc., whether plentiful or in perfection; whether any have suffered from blight, disease, etc. Whether zoonotic disease prevails among cattle, and the Agricultural condition of the district generally.

| | |
|-----------------------|--|
| SHRUBS, &C. | Barberry, Bourne or Elder, Broom, Hazel, Hawthorn, Holly, Laburnum, Lilac, Mezezon, Mountain Ash or Rowan, Red Flowering Currant, Rhododendron Ponticum, Whin, |
| First in Blossom. | |
| FRUITES. | Apple, Black Currant, Cherry, Gean, Gooseberry, Peach, Pear, Plum, Strawberry, |
| First in Blossom. | |
| FRUIT Ripe generally. | Cuckoo, Curlew, House-mallow, Lapping, Plover, Sand-Martin, Starling, Swan, Rail or Corn Crake, |
| MIGRATORY BIRDS. | |
| First Arrival. | |
| Departure. | |

EDINBURGH, December 1891.

(By Order) A. B.

[illegible]

SCOTTISH METEOROLOGICAL SOCIETY.

Observations taken at Haddo House, County of Aberdeen, in Lat. 57°24', Long. 2°14', Distance from Sea 12 miles.Height of Cistern of the Barometer above Mean Sea-Level 180 feet, above Ground 3 feet.During the MONTH of October 1900 1890.

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. <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. | | 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 A.M. | | P.M. | | 9 h. A.M. | | | | | | | |
| | | Barometer. * No. | Attached Thermometer. | Barometer. No. | Attached Thermometer. | Max. No. | Min. No. | Max. in Sunrays No. | Min. on Grass. No. | Dry bulb. | Wet bulb. | Dry bulb. | Wet bulb. | | | 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. |
| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| inches. | ° | inches. | ° | No. | No. | No. | No. | ° | ° | ° | ° | No. | No. | Direction. | Force | Direction. | Force | No. | No. | No. | No. | No. | No. | No. | No. | No. | | | | | | |
| 1 | 29.250 | 48 | 29.302 | 47 | 56 | 35 | 69 | 35 | 50 | 47 | 44 | 42 | + | S.W | S.W | | | | | | | 47 | 32 | 52 | | | | 1 | | | | |
| 2 | 29.354 | 46 | 29.323 | 46 | 55 | 37 | 68 | 35 | 46 | 44 | 43 | 43 | + | S.W | S.W | | | | | | | 47 | 31 | 52 | | | | 2 | | | | |
| 3 | 29.468 | 48 | 29.676 | 42 | 50 | 39 | 70 | 35 | 47 | 45 | 39 | 38 | + | N.W | N.W | | | | | | | 47 | 31 | 52 | | | | 3 | | | | |
| 4 | 29.606 | 46 | 29.038 | 49 | 51 | 30 | 53 | 28 | 47 | 45 | 48 | 48 | + | S | S.E | | | | | | | 45 | 30 | 52 | | | Gale and heavy rain | 4 | | | | |
| 5 | 29.036 | 50 | 29.208 | 44 | 55 | 40 | 69 | 36 | 49 | 47 | 40 | 39 | | S.W | W | | | | | | | 48 | 30 | 52 | | | | 5 | | | | |
| 6 | 29.312 | 45 | 29.374 | 42 | 55 | 36 | 68 | 32 | 49 | 45 | 41 | 40 | + | S.W | W | | | | | | | 45 | 30 | 52 | | | | 6 | | | | |
| 7 | 29.594 | 44 | 29.586 | 33 | 57 | 37 | 56 | 34 | 44 | 44 | 36 | 35 | + | 1.22 S.E | S.W | | | | | | | 46 | 30 | 52 | | | | 7 | | | | |
| 8 | 29.578 | 55 | 29.634 | 50 | 57 | 48 | 62 | 45 | 57 | 55 | 49 | 49 | + | S | N.W | | | | | | | 50 | 30 | 51 | | | Gale | 8 | | | | |
| 9 | 29.692 | 52 | 29.696 | 49 | 54 | 47 | 57 | 45 | 51 | 50 | 47 | 46 | | S.W | N.W | | | | | | | 50 | 31 | 51 | | | | 9 | | | | |
| 10 | 29.756 | 48 | 29.782 | 46 | 50 | 41 | 62 | 38 | 47 | 45 | 43 | 42 | | N.W | W | | | | | | | 48 | 31 | 51 | | | | 10 | | | | |
| 11 | 29.588 | 48 | 29.492 | 44 | 53 | 40 | 57 | 36 | 47 | 45 | 41 | 40 | + | S.W | W | | | | | | | 47 | 30 | 51 | | | | 11 | | | | |
| 12 | 29.522 | 44 | 29.378 | 45 | 50 | 36 | 53 | 31 | 41 | 40 | 43 | 41 | | S | W | | | | | | | 45 | 49 | 50 | | | | 12 | | | | |
| 13 | 28.942 | 45 | 28.944 | 40 | 52 | 35 | 62 | 32 | 44 | 43 | 36 | 35 | + | W | N.W | | | | | | | 45 | 48 | 50 | | | Gale | 13 | | | | |
| 14 | 29.092 | 38 | 29.042 | 40 | 43 | 33 | 57 | 31 | 36 | 35 | 39 | 38 | + | 1.37 N.W | N.W | | | | | | | 40 | 47 | 49 | | | Snow showers Gale | 14 | | | | |
| 15 | 29.284 | 44 | 29.434 | 41 | 43 | 35 | 55 | 32 | 43 | 42 | 39 | 38 | + | N.W | N.W | | | | | | | 43 | 46 | 48 | | | Gale and rain | 15 | | | | |
| 16 | 29.552 | 44 | 29.532 | 38 | 47 | 34 | 56 | 30 | 38 | 37 | 35 | 34 | | N.W | S | | | | | | | 42 | 46 | 48 | | | | 16 | | | | |
| 17 | 29.442 | 46 | 29.394 | 47 | 49 | 35 | 48 | 31 | 41 | 41 | 48 | 47 | + | S.E | N.E | | | | | | | 41 | 46 | 48 | | | thick fog | 17 | | | | |
| 18 | 29.648 | 47 | 29.888 | 47 | 50 | 33 | 50 | 39 | 47 | 47 | 47 | 47 | + | N.E | S.E | | | | | | | 47 | 47 | 48 | | | | 18 | | | | |
| 19 | 29.978 | 46 | 29.982 | 45 | 49 | 42 | 52 | 40 | 45 | 45 | 43 | 43 | + | N.E | N.E | | | | | | | 47 | 47 | 48 | | | | 19 | | | | |
| 20 | 29.992 | 45 | 30.002 | 42 | 45 | 37 | 46 | 33 | 42 | 41 | 39 | 38 | + | N | N.W | | | | | | | 45 | 47 | 48 | | | | 20 | | | | |
| 21 | 30.128 | 39 | 30.212 | 41 | 50 | 33 | 56 | 31 | 35 | 34 | 39 | 38 | | 2.12 N.W | N.W | | | | | | | 42 | 46 | 47 | | | | 21 | | | | |
| 22 | 30.154 | 44 | 29.998 | 49 | 53 | 39 | 65 | 36 | 45 | 43 | 51 | 50 | + | S | W | | | | | | | 42 | 45 | 47 | | | | 22 | | | | |
| 23 | 29.976 | 50 | 29.936 | 51 | 53 | 49 | 52 | 47 | 52 | 51 | 51 | 51 | + | N.W | N.W | | | | | | | 47 | 47 | 47 | | | | 23 | | | | |
| 24 | 29.798 | 50 | 29.616 | 48 | 53 | 45 | 57 | 43 | 50 | 50 | 46 | 45 | + | N | N.W | | | | | | | 48 | 47 | 47 | | | | 24 | | | | |
| 25 | 29.272 | 45 | 29.006 | 42 | 46 | 38 | 45 | 36 | 47 | 47 | 39 | 39 | + | N.W | N.W | | | | | | | 45 | 47 | 47 | | | | 25 | | | | |
| 26 | 28.954 | 36 | 28.938 | 39 | 39 | 27 | 39 | 25 | 31 | 31 | 36 | 35 | + | S.E | N | | | | | | | 39 | 46 | 47 | | | | 26 | | | | |
| 27 | 29.028 | 44 | 29.132 | 41 | 46 | 35 | 48 | 31 | 44 | 43 | 40 | 39 | + | N | N | | | | | | | 41 | 44 | 47 | | | Gale | 27 | | | | |
| 28 | 29.168 | 40 | 29.120 | 39 | 47 | 35 | 56 | 30 | 40 | 38 | 36 | 35 | | 4.2 N.W | S.W | | | | | | | 40 | 44 | 46 | | | | 28 | | | | |
| 29 | 29.042 | 42 | 29.152 | 42 | 47 | 31 | 55 | 27 | 42 | 40 | 40 | 40 | + | W | S.W | | | | | | | 38 | 43 | 45 | | | | 29 | | | | |
| 30 | 29.358 | 47 | 29.554 | 40 | 49 | 34 | 56 | 30 | 42 | 40 | 38 | 37 | | S.W | W | | | | | | | 37 | 42 | 45 | | | | 30 | | | | |
| 31 | 29.616 | 42 | 29.538 | 47 | 50 | 29 | 49 | 27 | 34 | 34 | 32 | 30 | + | 2.21 S.E | S.E | | | | | | | 37 | 42 | 45 | | | Fog | 31 | | | | |
| Sums. | 15.715 | 14 | 14.554 | 13 | 13 | 15 | 16 | 17 | 13 | 11 | 15 | 15 | | | | | | | | | | 15 | 12 | 14 | | | | | | | | |
| Means. | 15780 | 163 | 14924 | | | | 1376 | 1555 | 1175 | 1739 | 1376 | 1376 | | | | | | | | | | 1399 | 1472 | 1575 | | | | | | | | |
| + Total Corrections for Instrumental Errors. | 29.490 | 45.4 | 29.481 | 44.4 | 36.2 | 36.9 | 56.1 | 34.2 | 44.5 | 43.0 | 42.8 | 42.0 | 4.34 | | | | | | | | | 1311 | 1415 | 1489 | | | | | | | | |
| + Corrections for Diurnal Range. | x 120 | | x 120 | | | | | | | | | | | | | | | | | | | 44.2 | | | | | | | | | | |
| "Corrected Means." | 29.610 | | 29.601 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 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. ns. " meteors. | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| ci-cu. " cirro-cumulus. n. " nimbus. | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| ci-s. " cirro-stratus. p. " 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. | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| h. d. " heavy dew. sq. " squall. | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| hl. " hail. sqs. " squalls. | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| l. " lightning. t. " thunder. | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| ll. 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 | Calm | | 1.5 | Light breeze | 4 | Blowing hard | | | | | | | | | | | | | | | | | | | | | | | | | |
| 0.5 | 1 | Very light air | | 2 | Fresh breeze | 5 | Blowing a gale | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1 | | Light air | | 3 | Very fresh | 6 | Violent gale | | | | | | | | | | | | | | | | | | | | | | | | | |

SCOTTISH METEOROLOGICAL SOCIETY.

Observations taken at Haddo House, County of Aberdeen, in Lat. 57° 24', Long. 2° 14', Distance from Sea 12 miles.Height of Cistern of the Barometer above Mean Sea-Level 180 feet, above Ground 3 feet.During the MONTH of November 1900 189.

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. | | | | | 0—10. | | | | | | | | |
| | | 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 | 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. | | No. | No. | | | | 9 A.M. | 9 P.M. | | |
| | | * No. | | No. | | No. | No. | No. | No. | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | inches. | ° | inches. | ° | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | 1 | 29.408 | 49 | 29.736 | 47 | 57 | 45 | 58 | 38 | 50 | 50 | 46 | 46 | | S | S.E. | | | | | | | | | 45 | 44 | 45 | | | 1 | | | | | | |
| | 2 | 29.536 | 46 | 29.868 | 49 | 52 | 37 | 53 | 35 | 46 | 46 | 50 | 50 | | S.E. | S | | | | | | | | | 44 | 45 | 45 | | | 2 | | | | | | |
| | 3 | 29.784 | 51 | 29.766 | 50 | 54 | 49 | 56 | 45 | 51 | 49 | 57 | 51 | + | S | S.W. | | | | | | | | | 46 | 45 | 45 | | | 3 | | | | | | |
| | 4 | 29.674 | 48 | 29.596 | 48 | 51 | 47 | 50 | 47 | 48 | 48 | 48 | 48 | + | 1/1 | S | S | | | | | | | | | 47 | 46 | 45 | | | 4 | | | | | |
| | 5 | 29.534 | 47 | 29.412 | 46 | 50 | 43 | 48 | 39 | 45 | 45 | 44 | 44 | | S | S.W. | | | | | | | | | | 47 | 47 | 46 | | | 5 | | | | | |
| | 6 | 29.298 | 49 | 29.222 | 49 | 50 | 44 | 49 | 42 | 48 | 48 | 48 | 48 | + | S.E. | S.E. | | | | | | | | | | 47 | 47 | 46 | | | 6 | | | | | |
| | 7 | 29.124 | 50 | 29.896 | 46 | 50 | 42 | 50 | 43 | 49 | 49 | 44 | 43 | + | S.E. | N.W. | | | | | | | | | | 48 | 47 | 46 | | Tag | 7 | | | | | |
| | 8 | 29.164 | 41 | 28.896 | 43 | 48 | 32 | 49 | 29 | 39 | 37 | 41 | 40 | + | S | S.W. | | | | | | | | | | 42 | 47 | 46 | | | 8 | | | | | |
| | 9 | 28.944 | 39 | 28.948 | 38 | 42 | 33 | 46 | 29 | 36 | 35 | 33 | 33 | | W | S.W. | | | | | | | | | | 40 | 44 | 46 | | | 9 | | | | | |
| | 10 | 28.842 | 42 | 29.054 | 36 | 45 | 32 | 52 | 29 | 38 | 36 | 32 | 31 | + | S.W. | W | | | | | | | | | | 38 | 43 | 46 | | | 10 | | | | | |
| | 11 | 29.282 | 37 | 29.344 | 35 | 42 | 31 | 47 | 27 | 36 | 34 | 32 | 31 | 1/16 | S.W. | S.W. | | | | | | | | | | 37 | 42 | 44 | | | 11 | | | | | |
| | 12 | 29.346 | 32 | 29.100 | 42 | 44 | 26 | 43 | 23 | 32 | 32 | 44 | 44 | + | S | S.E. | | | | | | | | | | 35 | 41 | 43 | | | 12 | | | | | |
| | 13 | 28.964 | 42 | 28.976 | 40 | 47 | 37 | 52 | 32 | 40 | 39 | 37 | 37 | + | S | S.W. | | | | | | | | | | 36 | 41 | 43 | | | 13 | | | | | |
| | 14 | 29.244 | 38 | 29.308 | 37 | 48 | 31 | 48 | 28 | 35 | 35 | 33 | 33 | | W | W | | | | | | | | | | 37 | 40 | 42 | | | 14 | | | | | |
| | 15 | 28.994 | 44 | 28.856 | 45 | 47 | 32 | 47 | 29 | 42 | 41 | 44 | 44 | + | S.E. | S.E. | | | | | | | | | | 39 | 40 | 42 | | | 15 | | | | | |
| | 16 | 29.234 | 45 | 29.338 | 43 | 46 | 41 | 46 | 39 | 45 | 45 | 47 | 40 | + | S.E. | S | | | | | | | | | | 40 | 40 | 42 | | | 16 | | | | | |
| | 17 | 29.768 | 42 | 29.968 | 40 | 48 | 37 | 48 | 33 | 41 | 39 | 38 | 37 | + | N.E. | N.E. | | | | | | | | | | 40 | 41 | 42 | | | 17 | | | | | |
| | 18 | 30.134 | 46 | 30.166 | 35 | 43 | 29 | 47 | 25 | 38 | 37 | 30 | 62 | 132 | S.W. | N.W. | | | | | | | | | | 39 | 41 | 42 | | | 18 | | | | | |
| | 19 | 30.084 | 39 | 30.046 | 36 | 41 | 27 | 42 | 24 | 36 | 36 | 34 | 34 | | S | S | | | | | | | | | | 36 | 40 | 42 | | | 19 | | | | | |
| | 20 | 30.016 | 36 | 29.832 | 37 | 42 | 32 | 40 | 39 | 34 | 33 | 35 | 34 | + | S | S.E. | | | | | | | | | | 36 | 39 | 41 | | | 20 | | | | | |
| | 21 | 29.734 | 38 | 29.596 | 37 | 42 | 33 | 43 | 30 | 37 | 36 | 37 | 37 | + | S.E. | N.E. | | | | | | | | | | 35 | 39 | 41 | | | 21 | | | | | |
| | 22 | 29.554 | 42 | 29.408 | 44 | 45 | 40 | 42 | 38 | 41 | 41 | 43 | 43 | + | N.E. | N.E. | | | | | | | | | | 39 | 39 | 41 | | | 22 | | | | | |
| | 23 | 29.350 | 45 | 29.364 | 44 | 46 | 42 | 45 | 41 | 45 | 45 | 43 | 43 | + | N.E. | N.W. | | | | | | | | | | 42 | 40 | 41 | | Tag | 23 | | | | | |
| | 24 | 29.248 | 43 | 29.264 | 42 | 45 | 36 | 46 | 31 | 40 | 40 | 42 | 42 | | N.W. | S | | | | | | | | | | 42 | 41 | 41 | | Tag | 24 | | | | | |
| | 25 | 29.220 | 44 | 29.322 | 43 | 45 | 41 | 44 | 38 | 45 | 44 | 42 | 42 | 1/8 | N.E. | S.E. | | | | | | | | | | 42 | 41 | 41 | | Tag | 25 | | | | | |
| | 26 | 29.342 | 42 | 29.162 | 45 | 46 | 40 | 46 | 38 | 44 | 44 | 44 | 42 | + | S.E. | S | | | | | | | | | | 41 | 41 | 41 | | | 26 | | | | | |
| | 27 | 28.968 | 42 | 29.116 | 34 | 42 | 29 | 45 | 25 | 38 | 38 | 32 | 32 | + | W | W | | | | | | | | | | 40 | 41 | 41 | | | 27 | | | | | |
| | 28 | 29.162 | 31 | 29.224 | 35 | 33 | 24 | 33 | 21 | 27 | 27 | 33 | 32 | | S.W. | S.E. | | | | | | | | | | 35 | 41 | 41 | | | 28 | | | | | |
| | 29 | 29.402 | 42 | 29.522 | 42 | 44 | 32 | 45 | 30 | 42 | 41 | 42 | 41 | + | S | S | | | | | | | | | | 37 | 40 | 41 | | | 29 | | | | | |
| | 30 | 29.584 | 42 | 29.578 | 40 | 43 | 37 | 43 | 33 | 42 | 40 | 38 | 37 | 1/10 | S.E. | S.W. | | | | | | | | | | 39 | 40 | 41 | | | 30 | | | | | |
| | 31 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | 31 | | | | | |
| Sums. | | 14152 | | 14135 | | 11 | 12 | 14 | 16 | 14 | 15 | 14 | 15 | | | | | | | | | | | | | 127 | 126 | 128 | | | | | | | | |
| Means. | | 29.408 | 42.3 | 29.419 | 41.6 | 45.8 | 36.0 | 46.8 | 33.7 | 40.2 | 40.1 | 39.5 | 20 | 21 | | | | | | | | | | | | 40.5 | 42.1 | 43.0 | | | | | | | | |
| + Total Corrections for Instrumental Errors. | | +120 | | +120 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| + 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. |
| 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. | s. | snow. |
| h. | haze. | so. ha. | solar halo. |
| h. d. | heavy dew. | sq. | squall. |
| h. l. | hall. | sq.s. | 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 $\frac{1}{10}$ for Temp. (Col. 2), = 29.492
"Corrected Mean" of Barometer at 9 P.M., minus the Correction $\frac{1}{10}$ for Temp. (Col. 4), = 29.504
Mean at Station, corrected, and at 32°, = 29.498
Correction for height, feet above Mean Sea-level, = 199
Mean, reduced to 32°, and Sea-level, = 29.697
Highest Reading, corrected for Index error, on the 18th, = 30.166
Lowest Do. Do., on the 15th, = 28.856
Difference, or Monthly Range, = 1.310

S.R. THERMOMETER, (in shade, etc.), Highest in Month, (corrected for Index Errors), on the 1th, = 57.0
Lowest in Month, corrected for Index errors, on the 28th, = 24.0
Difference, or Monthly Range, = 33.0
"Corrected Mean" of all the Highest, (Col. 5), = 45.8
"Corrected Mean" of all the Lowest, (Col. 6), = 36.0
Difference, or Mean Daily Range, = 9.8
** Calculated Mean Temperature of Month, = 40.9
S.R. THERMOMETER, Black Bulb in Sun, Highest, (corrected for Index Errors), on the 1th, = 58.0
"Corrected Mean," (Col. 7), of Black Bulb, Max. in Sun, = 46.8
Lowest at Night, Black Bulb (corrected for Index errors), on the 28th, = 21.0
"Corrected Mean," (Col. 8), of Black Bulb, Min. on grass, = 33.7
Difference of above means or range ("exposed"), = 25.8

HYGROMETER, Mean (corrected) A.M. and P.M. Reading of Dry Bulb, (Cols. 9 and 11), = 40.6
Mean (corrected) A.M. and P.M. Reading of Wet Bulb, (Cols. 10 and 12), = 39.8
Computed Temperature of Dew-Point, = 38.8
Do. Elastic Force of Vapour, = 2.33
Do. Weight of Vapour in a Cubic Foot of Air, = 93
Relative Humidity (Saturation = 100), = 93
RAIN fell on 20 Days; Amount in Inches, = 3.96

| WIND. | | SUMMARY. | | | | | | | | | |
|------------|--|----------|----|---|----|---|----|---|----|-------------------|-------------|
| Direction. | | N | NE | E | SE | S | SW | W | NW | Calm or Variable. | Mean Force. |
| A.M. | | 4 | 1 | 8 | 9 | 4 | 3 | 1 | | | |
| P.M. | | 3 | 3 | 7 | 4 | 7 | 3 | 3 | | | |
| Mean. | | 0 | 4 | 2 | 7 | 6 | 3 | 2 | 0 | | |

Observations made and
Return verified by

John Forrest

(Signed)

SCOTTISH METEOROLOGICAL SOCIETY.

Observations taken at Haddo House, County of Aberdeen, in Lat. 57° 24', Long. 2° 14', Distance from Sea 12 miles.Height of Cistern of the Barometer above Mean Sea-Level 180 feet, above Ground 3 feet.During the MONTH of December 189 1900

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. <i>Mention the hour at which Storms, including Thunder and Lightning, begin and ended.</i> | 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. | | | | | | | | | | |
| | | 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. | 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. | ° | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | 1 | 29.578 | 42 | 29.578 | 41 | 43 | 37 | 43 | 33 | 42 | 41 | 39 | 39 | + | S.E. | S | | | | | | | | 40 | 40 | 41 | | | | 1 | | | | |
| | 2 | 29.578 | 42 | 29.574 | 42 | 44 | 37 | 44 | 35 | 41 | 40 | 42 | 41 | + | S.E. | S.E. | | | | | | | | 40 | 40 | 41 | | | | 2 | | | | |
| | 3 | 29.394 | 40 | 29.110 | 36 | 42 | 31 | 43 | 28 | 37 | 36 | 32 | 32 | + | S.E. | S | | | | | | | | 40 | 40 | 41 | | | | 3 | | | | |
| | 4 | 29.042 | 39 | 29.136 | 33 | 40 | 27 | 42 | 24 | 37 | 36 | 28 | 28 | | W | S.W. | | | | | | | | 38 | 40 | 41 | | | | 4 | | | | |
| | 5 | 29.162 | 30 | 29.136 | 34 | 33 | 24 | 33 | 22 | 25 | 25 | 32 | 32 | | W | N.W. | | | | | | | | 34 | 38 | 40 | | | | 5 | | | | |
| | 6 | 29.198 | 38 | 29.232 | 38 | 38 | 32 | 38 | 30 | 37 | 37 | 37 | 37 | + | S.E. | N.E. | | | | | | | | 35 | 38 | 40 | | | | 6 | | | | |
| | 7 | 29.598 | 36 | 29.616 | 40 | 41 | 32 | 40 | 29 | 34 | 34 | 41 | 40 | + | N.W. | N.W. | | | | | | | | 36 | 38 | 39 | | | | 7 | | | | |
| | 8 | 29.334 | 51 | 29.178 | 52 | 65 | 40 | 54 | 38 | 51 | 49 | 53 | 53 | + | S.W. | S.W. | | | | | | | | 41 | 39 | 39 | | | | 8 | | | | |
| | 9 | 29.228 | 45 | 29.424 | 43 | 55 | 42 | 54 | 38 | 44 | 41 | 42 | 39 | 74 | S.W. | W. | | | | | | | | 41 | 41 | 40 | | | | 9 | | | | |
| | 10 | 29.682 | 42 | 29.504 | 43 | 45 | 37 | 44 | 33 | 40 | 38 | 44 | 42 | | W | W | | | | | | | | 41 | 40 | 40 | | | | 10 | | | | |
| | 11 | 29.276 | 42 | 29.200 | 48 | 50 | 40 | 50 | 35 | 39 | 38 | 50 | 49 | + | S.W. | S.E. | | | | | | | | 39 | 40 | 40 | | | | 11 | | | | |
| | 12 | 29.396 | 49 | 29.302 | 48 | 53 | 46 | 57 | 41 | 49 | 45 | 49 | 48 | + | S.W. | S.W. | | | | | | | | 42 | 41 | 40 | | | | 12 | | | | |
| | 13 | 29.268 | 45 | 29.276 | 43 | 57 | 40 | 52 | 37 | 44 | 41 | 21 | 39 | + | S.W. | N.W. | | | | | | | | 40 | 41 | 40 | | | | 13 | | | | |
| | 14 | 29.236 | 46 | 29.422 | 45 | 54 | 36 | 64 | 33 | 45 | 44 | 45 | 43 | | S.W. | S.W. | | | | | | | | 39 | 40 | 40 | | | | 14 | | | | |
| | 15 | 29.272 | 46 | 29.482 | 44 | 46 | 40 | 47 | 36 | 45 | 43 | 40 | 40 | + | S.W. | N.W. | | | | | | | | 39 | 40 | 40 | | | | 15 | | | | |
| | 16 | 29.774 | 45 | 29.736 | 46 | 49 | 40 | 47 | 35 | 43 | 41 | 46 | 45 | 11 | S | S | | | | | | | | 39 | 40 | 40 | | | | 16 | | | | |
| | 17 | 29.574 | 46 | 29.398 | 47 | 50 | 45 | 51 | 42 | 48 | 44 | 47 | 45 | | S.W. | S.W. | | | | | | | | 41 | 40 | 40 | | | | 17 | | | | |
| | 18 | 29.428 | 42 | 29.544 | 36 | 48 | 32 | 47 | 28 | 42 | 41 | 32 | 32 | + | W | N.W. | | | | | | | | 35 | 39 | 40 | | | | 18 | | | | |
| | 19 | 29.444 | 37 | 29.400 | 41 | 41 | 30 | 48 | 26 | 33 | 33 | 41 | 41 | | S.E. | S.E. | | | | | | | | 39 | 39 | 40 | | | | 19 | | | | |
| | 20 | 29.868 | 47 | 28.312 | 48 | 54 | 39 | 54 | 35 | 50 | 48 | 49 | 45 | + | S | S.W. | | | | | | | | 41 | 40 | 40 | | | | 20 | | | | |
| | 21 | 28.436 | 42 | 29.258 | 38 | 44 | 34 | 48 | 31 | 40 | 38 | 34 | 33 | + | N.W. | N.W. | | | | | | | | 35 | 38 | 40 | | | | 21 | | | | |
| | 22 | 29.442 | 39 | 29.416 | 36 | 38 | 33 | 38 | 29 | 36 | 35 | 34 | 34 | | S.W. | S.W. | | | | | | | | 34 | 38 | 40 | | | | 22 | | | | |
| | 23 | 29.486 | 34 | 29.380 | 40 | 40 | 30 | 39 | 27 | 31 | 30 | 40 | 39 | 20 | S.W. | S.E. | | | | | | | | 34 | 37 | 39 | | | | 23 | | | | |
| | 24 | 29.476 | 37 | 29.306 | 45 | 47 | 32 | 45 | 29 | 35 | 34 | 47 | 45 | + | S | S | | | | | | | | 42 | 38 | 39 | | | | 24 | | | | |
| | 25 | 29.212 | 51 | 29.056 | 50 | 54 | 46 | 56 | 43 | 52 | 50 | 51 | 50 | + | S.W. | S | | | | | | | | 39 | 40 | 40 | | | | 25 | | | | |
| | 26 | 29.482 | 44 | 29.280 | 37 | 57 | 31 | 57 | 27 | 40 | 39 | 32 | 31 | | S | W | | | | | | | | 35 | 38 | 39 | | | | 26 | | | | |
| | 27 | 29.224 | 36 | 28.838 | 42 | 43 | 30 | 43 | 26 | 33 | 32 | 42 | 42 | + | S.E. | S.E. | | | | | | | | 39 | 38 | 39 | | | | 27 | | | | |
| | 28 | 28.484 | 43 | 28.854 | 42 | 45 | 40 | 43 | 38 | 42 | 42 | 40 | 40 | + | E | N.W. | | | | | | | | 38 | 38 | 39 | | | | 28 | | | | |
| | 29 | 29.144 | 39 | 29.298 | 32 | 40 | 27 | 44 | 24 | 35 | 34 | 28 | 32 | | W | W | | | | | | | | 38 | 38 | 39 | | | | 29 | | | | |
| | 30 | 29.200 | 36 | 29.318 | 39 | 40 | 27 | 40 | 24 | 34 | 34 | 38 | 38 | + | S.E. | S.E. | | | | | | | | 36 | 38 | 39 | | | | 30 | | | | |
| | 31 | 29.608 | 40 | 29.592 | 38 | 38 | 35 | 38 | 32 | 38 | 38 | 36 | 36 | 1.64 | S.E. | S. | | | | | | | | 37 | 38 | 39 | | | | 31 | | | | |
| Sums. | | 127.15 | 14 | 144.13 | 12 | 10 | 13 | 15 | 12 | 12 | 13 | 14 | 13 | | | | | | | | | | | 1187 | 1213 | 1234 | | | | | | | | |
| Means. | | 94.64 | | 92.06 | | | | | | | | | | | | | | | | | | | | 38.2 | 39.1 | 39.8 | | | | | | | | |
| + Total Corrections for Instrumental Errors. | | 29.305 | | 29.290 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| + Corrections for Diurnal Range. | | 41.6 | | 41.5 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| "Corrected Means." | | 29.425 | | 29.417 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 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. | 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. h. | solar halo. |
| h. d. | heavy dew. | sq. | squall. |
| 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 | 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), = 29.390
"Corrected Mean" of Barometer at 9 P.M., minus the Correction $\frac{1}{100}$ for Temp. (Col. 4), = 29.382
Mean at Station, corrected, and at 32°, = 29.386
Correction for height, feet above Mean Sea-level, = 199
Mean, reduced to 32°, and Sea-level, = 29.585
Highest Reading, corrected for Index error, on the 21st, = 29.608 774
Lowest Do. Do., on the 20th, = 28.312
Difference, or Monthly Range, = 1.296 478

S-R. THERMOMETER, (in shade, etc.), Highest in Month, (corrected for Index Errors), on the 8th, = 55.0
Lowest in Month, corrected for Index errors, on the 29th, = 27.0
Difference, or Monthly Range, = 28.0
"Corrected Mean" of all the Highest, (Col. 5), = 45.5
"Corrected Mean" of all the Lowest, (Col. 6), = 35.2
Difference, or Mean Daily Range, = 10.3
** Calculated Mean Temperature of Month, = 40.4
S-R. THERMOMETER, Black Bulb in Sun, Highest, (corrected for Index Errors), on the 14th, = 64.0
"Corrected Mean," (Col. 7), of Black Bulb, Max. in Sun, = 46.3
Lowest at Night, Black Bulb (corrected for Index errors), on the 4th, = 24.0
"Corrected Mean," (Col. 8), of Black Bulb, Min. on grass, = 31.9
Difference of above means or range ("exposed"), = 14.4

HYGROMETER, Mean (corrected) A.M. and P.M. Reading of Dry Bulb, (Cols. 9 and 11), = 40.2Mean (corrected) A.M. and P.M. Reading of Wet Bulb, (Cols. 10 and 12), = 39.2Computed Temperature of Dew-Point, = 32.38.0Do. Elastic Force of Vapour, = .228

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

Relative Humidity (Saturation = 100), = 92RAIN fell on 20 Days; Amount in Inches, = 2.69

| WIND. | SUMMARY. | | | | | | | | | |
|-------|------------|---|----|---|----|---|----|---|----|-------------------|
| | Direction. | N | NE | E | SE | S | SW | W | NW | Calm or Variable. |
| A.M. | | 0 | 1 | 1 | 7 | 5 | 10 | 5 | 2 | 0 |
| P.M. | | 0 | 1 | 0 | 6 | 6 | 7 | 4 | 7 | 0 |
| Mean. | | 0 | 1 | 1 | 6 | 5 | 9 | 4 | 5 | 0 |

Observations made and
Return verified by

John Forrest

(Signed)

