

SCOTTISH METEOROLOGICAL SOCIETY.

OBSERVATIONS taken at Glenburn, Hydro, County of Bute, During the MONTH of January 1913.
 Lat. 56° 49' 50" N Long. 5° 45' 11" W Height of Cistern of the Barometer above Mean Sea Level 76 feet, above Ground 3 1/2 feet. Diameter of Rain Gauge 5 ins.
 Height of Gauge above Mean Sea Level 76 feet. Height of Rim of Gauge above Ground 12 ins.

| Date. | BAROMETER. | | | | * SELF-REGISTERING THERMOMETERS. | | | | HYGROMETER. | | | | + RAIN. | WIND. | | | | CLOUDS. | | | | SUNSHINE. Hours. | THERMOMETERS under Ground. | | | WEATHER. | | GENERAL REMARKS. Occurrence of Snow, Hail, Thunder, Lightning, Fog, Gales, Meteors, Auroras, Remarkable Depression or Elevation of Barometer, etc. Mention the hour at which Storms, including Thunder and Lightning, began and ended. | Date. | | | |
|----------------------|------------|--------------------------|------------|--------------------------|----------------------------------|-------------|--------------------------------|-----------------------|-------------|-----------|-----------|-----------|---------|------------------|------------|-----------------------|------------|-----------------------|------------------------|------------------------|----------------|---------------------|----------------------------|----------------|--------|----------|---|--|--|-----------|-----------|---------|
| | 9 A.M. | | 9 P.M. | | Screen. | | Black Bulb Max. in Sun. 9 P.M. | Min. on Grass. 9 A.M. | 9 A.M. | | 9 P.M. | | | Amount at 9 A.M. | 9 A.M. | | 9 P.M. | | Anc. monometer. 9 A.M. | 9 A.M. | | | 9 P.M. | | 9 A.M. | | | | | At 9 A.M. | At 9 P.M. | |
| | Barometer. | Attached Ther. monometer | Barometer. | Attached Ther. monometer | Max. 9 P.M. | Min. 9 P.M. | | | Dry bulb. | Wet bulb. | Dry bulb. | Wet bulb. | | | Direction. | Force. Scale of 0-12. | Direction. | Force. Scale of 0-12. | | Species and Direction. | Amount (0-10). | | Species and Direction. | Amount (0-10). | 3 ins. | 12 ins. | 48 ins. | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | inches. |
| 1 | 29.672 | 51 | 29.682 | 53 | 45 | 40 | | 7 | 41 | 39 | 41 | 40 | 105 | W. | 2 | W | 2 | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 9 a.m. | 9 P.M. | | | |
| 2 | 29.672 | 50 | 29.492 | 50 | 48 | 39 | | | 43 | 42 | 46 | 44 | 37 | S. | 3 | S.W. | 5 | | 8 | 10 | 44 | | | | | | fine | - | showery | 1 | | |
| 3 | 29.560 | 50 | 29.354 | 53 | 47 | 41 | | | 42 | 42 | 44 | 43 | 29 | - | - | S. | 4 | | 2 | 10 | 43.8 | | | | | | damp | - | damp & raw | 2 | | |
| 4 | 29.462 | 51 | 29.650 | 51 | 49 | 41 | | | 45 | 41 | 41 | 39 | - | W. | 4 | S. | 1 | | 8 | 0 | 43.8 | | | | | | " raw | - | very wet | 3 | | |
| 5 | 29.726 | 49 | 29.786 | 49 | 43 | 36 | | | 37 | 36 | 39 | 37 | - | - | - | W. | 2 | | 0 | 0 | 43.8 | | | | | | " | - | fine | 4 | | |
| 6 | 29.768 | 47 | 29.650 | 53 | 46 | 35 | | | 39 | 38 | 45 | 45 | 18 | S.W. | 1 | S. | 1 | | 10 | 10 | 43.8 | | | | | | " | - | " | 5 | | |
| 7 | 29.838 | 53 | 29.700 | 56 | 50 | 45 | | | 49 | 49 | 49 | 48 | 21 | S.W. | 3 | S.E. | 2 | | 10 | 10 | 43.8 | | | | | | frosty | - | dull & damp | 6 | | |
| 8 | 29.700 | 51 | 29.712 | 54 | 51 | 44 | | | 45 | 44 | 46 | 44 | 106 | S.E. | 2 | S.E. | 3 | | 4.0 | 10 | 43.5 | | | | | | wet | - | dripping rain. | 7 | | |
| 9 | 29.656 | 53 | 29.740 | 55 | 51 | 44 | | | 46 | 44 | 44 | 42 | - | S. | 4 | S. | 2 | | 10 | 0 | 43.5 | | | | | | fine | - | very wet | 8 | | |
| 10 | 29.842 | 51 | 29.728 | 50 | 46 | 40 | | | 45 | 43 | 41 | 38 | 28 | S.E. | 4 | S.E. | 4 | | 10 | 10 | 43.5 | | | | | | " | - | fine | 9 | | |
| 11 | 29.496 | 47 | 29.486 | 49 | 42 | 33 | | | 33 | 34 | 34 | 33 | 1.04 | S.E. | 4 | S.E. | 2 | | 10 | 10 | 43.5 | | | | | | " milder | - | " hazy | 10 | | |
| 12 | 29.596 | 46 | 29.676 | 51 | 38 | 34 | | | 34 | 33 | 34 | 33 | 0.4 | E.S.E. | 1 | S.E. | 1 | | 10 | 10 | 43.5 | | | | | | Bl. from early morning (in shadow) to 11 a.m. (in shadow) then S.W. 2 in. in 1 hour, then S.W. 1 in. in 1 hour. | - | hazy | 11 | | |
| 13 | 29.732 | 45 | 29.724 | 44 | 38 | 30 | | | 33 | 32 | 30 | 29 | - | E | 2 | E. | 3 | | 5 | 0 | 43.5 | | | | | | thaw. S.W. 2 in. in 1 hour, then S.W. 1 in. in 1 hour. | - | hazy, thawing (foggy) | 12 | | |
| 14 | 29.620 | 42 | 29.404 | 46 | 37 | 29 | | | 31 | 30 | 36 | 34 | 1.01 | E. | 4 | E.S.E. | 2 | | 8 | 1 | 43.5 | | | | | | dull frosty | - | freezing | 13 | | |
| 15 | 29.110 | 45 | 29.178 | 51 | 41 | 34 | | | 39 | 37 | 38 | 34 | 1.20 | E. | 5 | E. | 2 | | 10 | 10 | 43 | | | | | | foggy | - | " hazy | 14 | | |
| 16 | 29.266 | 46 | 29.314 | 47 | 41 | 37 | | | 38 | 36 | 39 | 37 | 1.3 | S. | 3 | S.E. | 1 | | 10 | 10 | 43 | | | | | | thawing, dull stormy | - | S.W. nearly gone | 15 | | |
| 17 | 29.350 | 46 | 29.380 | 49 | 40 | 37 | | | 38 | 36 | 39 | 36 | 1.35 | E. | 3 | E. | 2 | | 10 | 10 | 43 | | | | | | dull showery | - | raw S.W. gone | 16 | | |
| 18 | 29.376 | 46 | 29.552 | 52 | 41 | 36 | | | 37 | 36 | 40 | 39 | 1.40 | E. | 3 | W. | 2 | | 10 | 10 | 42.5 | | | | | | " foggy | - | hazy, fine. | 17 | | |
| 19 | 29.542 | 52 | 29.224 | 49 | 41 | 33 | | | 37 | 36 | 38 | 36 | 1.08 | S.E. | 2 | E. | 4 | | 8 | 10 | 42.5 | | | | | | Wet & " | - | wet all day | 18 | | |
| 20 | 29.134 | 47 | 29.256 | 50 | 41 | 38 | | | 38 | 36 | 40 | 38 | - | E | 5 | N.N.E. | 4 | | 6 | 5 | 42.5 | | | | | | dull frosty | - | " slight fog. | 19 | | |
| 21 | 29.506 | 48 | 29.836 | 47 | 41 | 34 | | | 39 | 37 | 34 | 33 | - | E. | 4 | N.E. | 1 | | 4 | 10 | 42 | | | | | | foggy & stormy | - | fine but cold | 20 | | |
| 22 | 29.742 | 43 | 29.600 | 47 | 36 | 30 | | | 33 | 32 | 35 | 32 | 1.46 | E. | 2 | S.E. | 3 | | 6 | 10 | 42 | | | | | | dry dull | - | " " " | 21 | | |
| 23 | 29.568 | 43 | 29.602 | 44 | 40 | 34 | | | 38 | 35 | 37 | 36 | 1.51 | - | - | S.E. | 1 | | 10 | 10 | 42 | | | | | | hazy & frosty | - | Rainy S.W. from 4 to 8 P.M. 2 in. | 22 | | |
| 24 | 29.776 | 46 | 29.526 | 50 | 39 | 36 | | | 36 | 35 | 38 | 37 | 1.08 | E. | 4 | W. | 1 | | 10 | 10 | 42 | | | | | | damp & foggy | - | wet S.W. nearly gone | 23 | | |
| 25 | 29.810 | 43 | 30.132 | 45 | 39 | 30 | | | 32 | 31 | 29 | 28 | - | - | - | N | 1 | | 5 | 0 | 41.8 | | | | | | dull & wet | - | wet all day (fair) | 24 | | |
| 26 | 30.202 | 42 | 30.116 | 46 | 40 | 28 | | | 30 | 29 | 37 | 37 | 1.01 | - | - | - | - | | 4 | 8 | 41.5 | | | | | | frosty | - | clear freezing | 25 | | |
| 27 | 29.950 | 46 | 29.826 | 50 | 41 | 39 | | | 39 | 37 | 39 | 36 | - | S.S.E. | 1 | E. | 1 | | 8 | 10 | 41 | | | | | | " clear | - | dull foggy | 26 | | |
| 28 | 29.756 | 46 | 29.744 | 47 | 40 | 37 | | | 37 | 35 | 39 | 37 | 1.16 | E. | 4 | S.E. | 2 | | 8 | 10 | 41 | | | | | | dull foggy | - | " " | 27 | | |
| 29 | 29.720 | 47 | 29.678 | 49 | 46 | 38 | | | 42 | 42 | 45 | 44 | 1.07 | S. | 3 | W. | 3 | | 10 | 10 | 41 | | | | | | " | - | wet from noon S.W. | 28 | | |
| 30 | 29.392 | 49 | 28.744 | 51 | 48 | 40 | | | 43 | 42 | 40 | 39 | 1.14 | S.S.W. | 4 | W. | 5 | | 10 | 10 | 41 | | | | | | " & damp | - | " from 4 P. | 29 | | |
| 31 | 28.982 | 44 | 29.172 | 44 | 40 | 33 | | | 35 | 33 | 36 | 33 | 1.69 | W. | 4 | W. | 6 | | 10 | 1 | 41 | | | | | | " | - | Stormy & wet all day | 30 | | |
| Sums. | 1803.2 | 225 | 1766.4 | 294 | 80 | 195 | | | 263 | 232 | 285 | 234 | 6.81 | | | | | | 81 | 73 | 240 | 225 | 843 | | | | | | ha. Rn. S.W. Showers (S.W. 1 in. in 1 hour, then S.W. 1 in. in 1 hour) | 31 | | |
| Means. | 29.588 | 47.3 | 29.576 | 49.5 | 42.6 | 36.3 | | | 38.5 | 37.5 | 39.2 | 37.3 | | | | | | | 2.61 | 2.35 | 7.7 | 7.3 | 42.7 | | | | | | | | | |
| Instrumental Errors. | 29.582 | | 29.570 | | | | | | | | | | | | | | | | 2.6 | 2.4 | | | | | | | | | | | | |
| Corrected Means. | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

| WEATHER NOTATION. | | |
|---|---|--|
| a. denotes aurora. | m. denotes mist. | |
| b. blue sky, cloudless. | p. passing showers. | |
| bc. blue sky with detached clouds. | q. squally. | |
| c. sky mainly cloudy, but with openings between the clouds. | r. continuous rain. | |
| d. completely overcast. | s. snow. | |
| e. drizzling rain. | so. la. solar halo. | |
| f. wet air, without rain falling. | t. s. thunder. | |
| g. fog. | th. storm. | |
| h. wet fog. | u. ugly, threatening appearance. | |
| i. gloomy. | v. unusual visibility of distant objects. | |
| j. hail. | w. dew. | |
| l. lightning. | x. hour frost. | |
| lu. co. lunar corona. | y. dust haze. | |
| lu. ha. lunar halo. | | |

| BEAUFORT SCALE FOR ESTIMATING FORCE OF WIND—(0-12). | | |
|---|------------------|----|
| Force. | 0 | 1 |
| 0 | Calm. | 1 |
| 1 | Light Air. | 2 |
| 2 | Slight Breeze. | 3 |
| 3 | Gentle Breeze. | 4 |
| 4 | Moderate Breeze. | |
| 5 | Fresh Breeze. | 6 |
| 6 | Strong Breeze. | 7 |
| 7 | High Wind. | 8 |
| 8 | Gale. | 9 |
| 9 | Strong Gale. | 10 |
| 10 | Whole Gale. | 11 |
| 11 | Storm. | 12 |
| 12 | Hurricane. | |

BAROMETER.

Corrected Mean at 9 A.M., minus Correction for Temp. 29.532
 Corrected Mean at 9 P.M., minus Correction for Temp. 29.518
 Mean at Station, corrected, and at 32°, 29.523
 Correction for height, feet above Mean Sea Level, + 86
 Mean, reduced to 32°, and Sea Level, 30.202
 Highest Reading, corrected for Index error, on 26 th, 30.202
 Lowest Do. Do., on 30 th, 28.744
 Difference, or Monthly Range, 1.458

SELF-REGISTERING THERMOMETERS.

Highest in Month, on 8 th, 51.0
 Lowest in Month, on 26 th, 28.0
 Difference, or Monthly Range, 23.0
 Mean of all the Highest, 42.6
 Mean of all the Lowest, 36.3
 Difference, or Mean Daily Range, 6.3
 Mean Temperature of Month, $\frac{1}{2}$ (Mean Max. + Mean Min.), 39.5
 Min. on Grass, Lowest in Month, 28.0
 " " Mean, 31.0
 Black Bulb, Max. in Sun, Highest in Month, 51.0

ADDITIONAL REMARKS.

HYGROMETER.

Dry Bulb, Mean of A.M. and P.M. Readings, 38.0
 Wet Bulb, Mean of A.M. and P.M. Readings, 37.0
 Computed Temperature of Dew-Point, 20.0
 Do. Elastic Force of Vapour, 200
 Do. Relative Humidity (Saturation = 100), 85
 RAIN fell on 23 Days; Amount in Inches, 6.81

| WIND. | | SUMMARY. | | | | | | | | | | | |
|------------|--|----------|----|----|----|----|----|----|----|-------------------|------------------|--|--|
| Direction. | | N | NE | E | SE | S | SW | W | NW | Calm or Variable. | Mean Force 0-12. | | |
| A.M. | | 00 | 11 | 4 | 6 | 2 | 3 | 0 | 5 | | | | |
| P.M. | | 2 | 1 | 6 | 9 | 4 | 1 | 7 | 0 | 1 | | | |
| Sum. | | 2 | 1 | 17 | 13 | 10 | 3 | 10 | 0 | 6 | | | |

* If Observations are taken at 9 A.M. only, the reading of the Maximum thermometer must be entered to the previous day.

† Rain to be measured at 9 A.M. and the amount entered to the previous day.

WEATHER SUMMARY.

Number of Days of Precipitation, ...
 Snow, ...
 Hail, ...
 Thunder, ...
 Clear Sky, ...
 Overcast, ...
 Fog, ...
 Ground Frost, ...
 Gale, ...

INSTRUMENTS IN USE.

Barometer, No. ...
 Dry Bulb, No. ...
 Wet Bulb, No. ...
 Maximum, No. ...
 Minimum, No. ...
 Solar Radiation, No. ...
 Grass Min., No. ...
 Sun Recorder, No. ...
 1-foot Therm., No. ...
 4-foot Therm., No. ...

Observations made and Return verified by

(Signed)

31 at

Thunder & Lightning at 8 a.m.

do do at 5 P.M. and onwards in the distance.

R = 20

JP.

Roller
January 1913
BOOK POST

THE SECRETARY

SCOTTISH METEOROLOGICAL SOCIETY

122 GEORGE STREET

EDINBURGH



SCOTTISH METEOROLOGICAL SOCIETY

SCOTTISH METEOROLOGICAL SOCIETY.

OBSERVATIONS taken at Glenburn Hydro, County of Bute, During the MONTH of February 1913.
 Lat. 55° 49' 30" N Long. 5° 25' 20" W Height of Cistern of the Barometer above Mean Sea Level 76 feet, above Ground 3 1/2 feet. Diameter of Rain Gauge 5 ins.
 Height of Gauge above Mean Sea Level 86 feet. Height of Rim of Gauge above Ground 12 ins.

| Date. | BAROMETER. | | | | *SELF-REGISTERING THERMOMETERS. | | | | HYGROMETER. | | | | +RAIN. | WIND. | | | | CLOUDS. | | | | SUNSHINE. | THERMOMETERS under Ground. | | | WEATHER. | | GENERAL REMARKS. Occurrence of Snow, Hail, Thunder, Lightning, Fog, Gales, Meteors, Auroras, Remarkable Depression or Elevation of Barometer, etc. Mention the hour at which Storms, including Thunder and Lightning, began and ended. | Date. | | |
|------------------|------------|---------------------------|------------|---------------------------|---------------------------------|-------------|--------------------------------|-----------------------|-------------|-----------|-----------|-----------|--------|------------------|------------|-----------------------|------------|-----------------------|--------------------|------------------------|----------------|-----------|----------------------------|----------------|--------|----------|---------|--|--|-----------|-----------|
| | 9 A.M. | | 9 P.M. | | Screen. | | Black Bulb Max. in Sun. 9 P.M. | Min. on Grass. 9 A.M. | 9 A.M. | | 9 P.M. | | | Amount at 9 A.M. | 9 A.M. | | 9 P.M. | | Anemometer. 9 A.M. | 9 A.M. | | | 9 P.M. | | 3 ins. | 12 ins. | 48 ins. | | | At 9 A.M. | At 9 P.M. |
| | Barometer. | Attached Ther- mometer | Barometer. | Attached Ther- mometer | Max. 9 P.M. | Min. 9 P.M. | | | Dry bulb. | Wet bulb. | Dry bulb. | Wet bulb. | | | Direction. | Force. Scale of 0-12. | Direction. | Force. Scale of 0-12. | | Species and Direction. | Amount (0-10). | | Species and Direction. | Amount (0-10). | | | | | | | |
| | inches. | ° | inches. | ° | ° | ° | ° | ° | ° | ° | inches. | ° | | ° | ° | ° | ° | ° | ° | ° | ° | | ° | ° | ° | ° | ° | | | ° | ° |
| 1 | 29.290 | 43 | 29.302 | 47 | 39 | 38 | 38 | 33 | 37 | 36 | 107 | N. | 4 | N.W. | 4 | 7 | 10 | 5 | 7 | 7 | 40.5 | | | | | | | | dull Snow 1 inch - Showers P.M. S.S. 1/2 inch | 1 | |
| 2 | 29.402 | 43 | 29.436 | 49 | 43 | 36 | 39 | 37 | 43 | 42 | 146 | N.W. | 4 | N. | 3 | 7 | 10 | 10 | 7 | 7 | 40.5 | | | | | | | | Showery. In gone - wet all day S.S. 2-30 P. | 2 | |
| 3 | 29.502 | 50 | 29.624 | 52 | 50 | 43 | 47 | 47 | 47 | 45 | 130 | N. | 4 | N. | 3 | 7 | 10 | 10 | 7 | 7 | 41 | | | | | | | | dull & wet - drizzle all day milder | 3 | |
| 4 | 29.810 | 50 | 29.932 | 50 | 49 | 41 | 43 | 42 | 43 | 40 | 119 | N. | 3 | E. | 2 | 7 | 10 | 10 | 7 | 7 | 41 | | | | | | | | " damp - fine | 4 | |
| 5 | 29.574 | 52 | 29.692 | 48 | 47 | 34 | 45 | 44 | 34 | 33 | 121 | S.S.W. | 4 | E. | 1 | 7 | 10 | 0 | 7 | 7 | 41 | | | | | | | | " dry - frosty | 5 | |
| 6 | 29.450 | 47 | 29.420 | 48 | 48 | 34 | 42 | 40 | 44 | 38 | 125 | S. | 4 | N.W. | 5 | 7 | 10 | 0 | 7 | 7 | 41.5 | | | | | | | | " Showery - very wet & stormy P.M. S.S. 1/2 inch | 6 | |
| 7 | 29.332 | 48 | 28.882 | 50 | 49 | 41 | 43 | 40 | 44 | 43 | 181 | N.W. | 4 | N.W. | 4 | 7 | 10 | 10 | 7 | 7 | 41.8 | | | | | | | | " hazy - " from moon | 7 | |
| 8 | 29.970 | 48 | 29.894 | 49 | 48 | 40 | 40 | 38 | 47 | 42 | 12 | N. | 3 | N.W. | 5 | 7 | 10 | 0 | 7 | 7 | 41.8 | | | | | | | | severe Gale from 11 P till 4 am - Stormy fine | 8 | |
| 9 | 29.980 | 49 | 30.276 | 50 | 49 | 36 | 43 | 42 | 34 | 33 | 105 | N. | 4 | E. | 1 | 7 | 10 | 0 | 7 | 7 | 42 | | | | | | | | dull Showery - hazy & frosty | 9 | |
| 10 | 30.224 | 46 | 30.294 | 50 | 42 | 33 | 39 | 38 | 40 | 39 | 130 | E. | 3 | E. | 4 | 7 | 10 | 0 | 7 | 7 | 42 | | | | | | | | foggy & wet - " some R | 10 | |
| 11 | 30.402 | 49 | 30.546 | 52 | 48 | 40 | 45 | 45 | 44 | 44 | 144 | S.S.W. | 3 | N. | 1 | 7 | 10 | 10 | 7 | 7 | 42 | | | | | | | | " damp - damp & foggy | 11 | |
| 12 | 30.590 | 51 | 30.492 | 53 | 48 | 41 | 45 | 44 | 43 | 41 | 144 | N.W. | 2 | - | - | 7 | 10 | 10 | 7 | 7 | 42 | | | | | | | | " " " " hazy | 12 | |
| 13 | 30.490 | 52 | 30.458 | 51 | 45 | 39 | 41 | 40 | 41 | 40 | - | - | - | - | - | 7 | 10 | 0 | 7 | 7 | 42 | | | | | | | | " " " " fine | 13 | |
| 14 | 30.414 | 57 | 30.344 | 51 | 45 | 40 | 41 | 40 | 41 | 41 | 104 | S.W. | 2 | - | - | 7 | 10 | 4 | 7 | 7 | 42 | | | | | | | | damp - " R. & calm | 14 | |
| 15 | 30.264 | 47 | 30.210 | 49 | 44 | 33 | 38 | 37 | 39 | 38 | - | - | - | S.E. | 1 | 7 | 10 | 8 | 7 | 7 | 42 | | | | | | | | dull fine - " foggy | 15 | |
| 16 | 30.272 | 49 | 30.352 | 50 | 44 | 38 | 40 | 39 | 41 | 39 | - | E. | 2 | S.E. | 1 | 7 | 10 | 10 | 7 | 7 | 42.5 | | | | | | | | " foggy - " hazy | 16 | |
| 17 | 30.366 | 45 | 30.330 | 46 | 42 | 34 | 34 | 33 | 38 | 36 | - | E. | 4 | E. | 1 | 7 | 10 | 10 | 7 | 7 | 42.5 | | | | | | | | " " " " dry cold | 17 | |
| 18 | 30.410 | 46 | 30.392 | 46 | 41 | 36 | 37 | 35 | 37 | 33 | - | E. | 3 | E. | 2 | 7 | 10 | 10 | 7 | 7 | 42.8 | | | | | | | | " " " " hazy | 18 | |
| 19 | 30.356 | 45 | 30.296 | 48 | 41 | 35 | 36 | 35 | 36 | 32 | - | E. | 4 | E. | 1 | 7 | 10 | 10 | 7 | 7 | 42.8 | | | | | | | | " " " " " " | 19 | |
| 20 | 30.264 | 45 | 30.288 | 46 | 42 | 30 | 36 | 33 | 29 | 31 | - | E. | 2 | - | - | 7 | 10 | 0 | 7 | 7 | 42.8 | | | | | | | | " foggy dry - clear frosty | 20 | |
| 21 | 30.362 | 42 | 30.418 | 46 | 44 | 28 | 34 | 32 | 37 | 36 | - | - | - | E. | 2 | 7 | 10 | 6 | 7 | 7 | 42 | | | | | | | | " frosty - " dull hazy cold | 21 | |
| 22 | 30.382 | 46 | 30.272 | 50 | 43 | 37 | 38 | 35 | 37 | 35 | - | S.S.E. | 2 | S. | 1 | 7 | 10 | 10 | 7 | 7 | 42 | | | | | | | | " foggy - " fine dry | 22 | |
| 23 | 30.100 | 46 | 29.886 | 47 | 45 | 36 | 36 | 34 | 41 | 37 | - | S.S.E. | 2 | S.E. | 1 | 7 | 10 | 10 | 7 | 7 | 41.8 | | | | | | | | " " " " " " | 23 | |
| 24 | 29.718 | 46 | 29.628 | 50 | 49 | 38 | 39 | 35 | 42 | 39 | 104 | E.S.E. | 1 | S.E. | 1 | 7 | 10 | 10 | 7 | 7 | 41.8 | | | | | | | | " " " " hazy light rain | 24 | |
| 25 | 29.588 | 49 | 29.564 | 56 | 48 | 42 | 44 | 43 | 45 | 47 | 109 | - | - | S. | 3 | 7 | 10 | 10 | 7 | 7 | 41.5 | | | | | | | | foggy & wet - damp some R | 25 | |
| 26 | 29.682 | 52 | 29.574 | 52 | 48 | 43 | 45 | 44 | 45 | 44 | 118 | N.W. | 2 | N.W. | 3 | 7 | 10 | 10 | 7 | 7 | 41.5 | | | | | | | | dull & damp - wet most of day | 26 | |
| 27 | 29.776 | 50 | 30.090 | 50 | 52 | 41 | 44 | 42 | 41 | 32 | - | N. | 2 | E. | 1 | 7 | 10 | 2 | 7 | 7 | 41.5 | | | | | | | | bright clear - fine | 27 | |
| 28 | 30.184 | 48 | 30.130 | 48 | 45 | 36 | 39 | 36 | 40 | 37 | 116 | E. | 2 | S.E. | 2 | 7 | 10 | 5 | 7 | 7 | 41 | | | | | | | | dull. hazy - " dry. | 28 | |
| 29 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | 29 |
| 30 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | 30 |
| 31 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | 31 |
| Sums. | 13147 | 13 | 131610 | 11 | 14 | 10 | 13 | 11 | 12 | 12 | 327 | | | | | | | | | | | | | | | | | | | | |
| Means. | 840.254 | 21.5 | 840.022 | 26.4 | 15.8 | 19.7 | 128 | 24.3 | 10239 | 10239 | 70 | | | | | | | | | | | | | | | | | | | | |
| Instrum. Errors. | 30.009 | 47.7 | 30.009 | 49.4 | 45.6 | 37.0 | 403 | 387 | 404 | 385 | 2.5 | | | | | | | | | | | | | | | | | | | | |
| Corr. Means. | | | | | | | 217/88 | | 213/85 | | | | | | | | | | | | | | | | | | | | | | |

| WEATHER NOTATION. | | | | | | | | | | | |
|-------------------|--|---------|--|--|--|--|--|--|--|--|--|
| a. | denotes aurora. | m. | denotes mist. | | | | | | | | |
| b. | " blue sky, cloudless. | p. | " passing showers. | | | | | | | | |
| bc. | " blue sky with detached clouds. | q. | " squally. | | | | | | | | |
| c. | " sky mainly cloudy, but with openings between the clouds. | r. | " continuous rain. | | | | | | | | |
| d. | " completely overcast. | s. | " snow. | | | | | | | | |
| e. | " drizzling rain. | so. ha. | " solar halo. | | | | | | | | |
| f. | " wet air, without rain falling. | t. | " thunder. | | | | | | | | |
| fe. | " fog. | t. s. | " thunder-storm. | | | | | | | | |
| g. | " wet fog. | u. | " ugly, threatening appearance. | | | | | | | | |
| h. | " gloomy. | v. | " unusual visibility of distant objects. | | | | | | | | |
| i. | " hail. | w. | " dew. | | | | | | | | |
| l. | " lightning. | x. | " hoar frost. | | | | | | | | |
| lu. co. | " lunar corona. | z. | " dust haze. | | | | | | | | |
| lu. ha. | " lunar halo. | | | | | | | | | | |

| BEAUFORT SCALE FOR ESTIMATING FORCE OF WIND—(0-12). | | | | | | | | | | | | | |
|---|-------|------------|----------------|----------------|------------------|---------------|----------------|------------|-------|--------------|-------------|--------|------------|
| FORCE. | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 |
| | Calm. | Light Air. | Slight Breeze. | Gentle Breeze. | Moderate Breeze. | Fresh Breeze. | Strong Breeze. | High Wind. | Gale. | Strong Gale. | Whole Gale. | Storm. | Hurricane. |

| WEATHER NOTATION. | | |
|--------------------------------------|---|---|
| a. denotes aurora. | b. blue sky, cloudless. | m. denotes mist. |
| bc. " blue sky with detached clouds. | c. " sky mainly cloudy, but with openings between the clouds. | p. " passing showers. |
| d. " completely overcast. | e. " drizzling rain. | q. " equally. |
| f. " fog, without rain falling. | g. " wet fog. | r. " continuous rain. |
| fe. " wet fog. | h. " gloomy. | s. " snow. |
| h. " hail. | i. " lightning. | so. ha. " solar halo. |
| lu. co. " lunar corona. | lu. ha. " lunar halo. | t. s. " thunder-storm. |
| | | u. " ugly, threatening appearance. |
| | | v. " unusual visibility of distant objects. |
| | | w. " dew. |
| | | x. " hoar frost. |
| | | z. " dust haze. |

| BEAUFORT SCALE FOR ESTIMATING FORCE OF WIND—(0-12). | | |
|---|------------------|-----------------|
| 0 Calm. | 5 Fresh Breeze. | 10 Strong Gale. |
| 1 Light Air. | 6 Strong Breeze. | 11 Whole Gale. |
| 2 Slight Breeze. | 7 High Wind. | 12 Storm. |
| 3 Gentle Breeze. | 8 Gale. | |
| 4 Moderate Breeze. | | |

BAROMETER.

Corrected Mean at 9 A.M., minus Correction for Temp. 30.000 29.987
 Corrected Mean at 9 P.M., minus Correction for Temp. 30.000 29.943
 Mean at Station, corrected, and at 32°, 29.950
 Correction for height, feet above Mean Sea Level, 86
 Mean, reduced to 32°, and Sea Level, 30.036
 Highest Reading, corrected for Index error, on 12 th., 30.590
 Lowest Do. Do., on 7 th., 28.882
 Difference, or Monthly Range, 1.708

SELF-REGISTERING THERMOMETERS.

Highest in Month, on 27 th., 52.0
 Lowest in Month, on 21 th., 28.0
 Difference, or Monthly Range, 24.0
 Mean of all the Highest, 45.6
 Mean of all the Lowest, 37.0
 Difference, or Mean Daily Range, 8.6
 Mean Temperature of Month, 1/2 (Mean Max. + Mean Min.), 41.3
 Min. on Grass, Lowest in Month, 28.8
 " " Mean, 37.0
 Black Bulb, Max. in Sun, Highest in Month, 52.0

ADDITIONAL REMARKS.

HYGROMETER.

Dry Bulb, Mean of A.M. and P.M. Readings, 40.4
 Wet Bulb, Mean of A.M. and P.M. Readings, 38.6
 Computed Temperature of Dew-Point, 27.4
 Do. Elastic Force of Vapour, 2.14
 Do. Relative Humidity (Saturation = 100), 86
 RAIN fell on 15 Days; Amount in Inches, 3.27

| WIND. | | SUMMARY. | | | | | | | | | |
|------------|--|----------|----|----|----|----|----|----|----|-------------------|------------------|
| Direction. | | N | NE | E | SE | S | SW | W | NW | Calm or Variable. | Mean Force 0-12. |
| A.M. | | 1 | 0 | 8 | 0 | 5 | 1 | 9 | 0 | 4 | |
| P.M. | | 0 | 0 | 6 | 5 | 5 | 0 | 6 | 2 | 4 | |
| Sun. | | 1 | 0 | 14 | 5 | 10 | 1 | 15 | 2 | 8 | |

* If Observations are taken at 9 A.M. only, the reading of the Maximum thermometer must be entered to the previous day.
 † Rain to be measured at 9 A.M. and the amount entered to the previous day.

R = 13

WEATHER SUMMARY.

Number of Days of Precipitation, 1
 Snow, 1
 Hail, 0
 Thunder, 1
 Clear Sky, 0
 Overcast, 16
 Fog, 14
 Ground Frost, 2
 Gale, 2

INSTRUMENTS IN USE.

Barometer, No. 14
 Dry Bulb, No. 14
 Wet Bulb, No. 14
 Maximum, No. 14
 Minimum, No. 14
 Solar Radiation, No. 14
 Grass Min., No. 14
 Sun Recorder, No. 14
 1-foot Therm., No. 14
 4-foot Therm., No. 14

Observations made and Return verified by

(Signed)

Rotterbury
February 1913

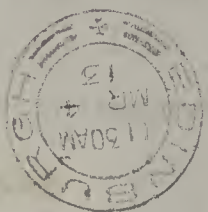
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Rothney
March 1913

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SCOTTISH METEOROLOGICAL SOCIETY.

OBSERVATIONS taken at Glenburn Hydro, County of Bute, During the MONTH of April 1913.
 Lat. 55°49'50"N Long. 5°45'W Height of Cistern of the Barometer above Mean Sea Level 76 feet, above Ground 3 1/2 feet. Diameter of Rain Gauge 5 ins.
 Height of Gauge above Mean Sea Level 76 feet. Height of Rim of Gauge above Ground 12 ins. 9 am. 2 pm.

| Date. | BAROMETER. | | | | *SELF-REGISTERING THERMOMETERS. | | | | HYGROMETER. | | | | +RAIN. | WIND. | | | | CLOUDS. | | | | SUNSHINE. Hours. | THERMOMETERS under Ground. | | | WEATHER. | | GENERAL REMARKS. Occurrence of Snow, Hail, Thunder, Lightning, Fog, Gales, Meteors, Auroras, Remarkable Depression or Elevation of Barometer, etc. Mention the hour at which Storms, including Thunder and Lightning, began and ended. | Date. | | |
|----------------------|------------|-----------------------|------------|-----------------------|---------------------------------|-------------|--------------------------------|-----------------------|-------------|-----------|-----------|-----------|--------|------------------|------------|-----------------------|------------|-----------------------|--------------------|------------------------|----------------|---------------------|----------------------------|----------------|--------|----------|--|--|-------|-----------|-----------|
| | 9 A.M. | | 9 P.M. | | Screen. | | Black Bulb Max. in Sun. 9 P.M. | Min. on Grass. 9 A.M. | 9 A.M. | | 9 P.M. | | | Amount at 9 A.M. | 9 A.M. | | 9 P.M. | | Anemometer. 9 A.M. | 9 A.M. | | | 9 P.M. | | 9 A.M. | | | | | At 9 A.M. | At 9 P.M. |
| | Barometer. | Attached Thermometer. | Barometer. | Attached Thermometer. | Max. 9 P.M. | Min. 9 P.M. | | | Dry bulb. | Wet bulb. | Dry bulb. | Wet bulb. | | | Direction. | Force, Scale of 0-12. | Direction. | Force, Scale of 0-12. | | Species and Direction. | Amount (0-10). | | Species and Direction. | Amount (0-10). | 3 ins. | 12 ins. | 48 ins. | | | | |
| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1 | 29.700 | 46 | 29.774 | 48 | 52 | 31 | 7 | 7 | 42 | 40 | 34 | 33 | - | - | - | S. | 1 | + | - | 2 | + | 0 | + | 7 | 4.3 | | | Bright frosty - fine | 1 | | |
| 2 | 29.772 | 45 | 29.882 | 52 | 51 | 31 | | | 41 | 39 | 44 | 43 | 10.6 | E | 3 | - | - | | 10 | | 10 | | 7 | 4.3 | | | dull hazy - damp some Rn | 2 | | | |
| 3 | 30.144 | 52 | 30.322 | 53 | 59 | 41 | | | 46 | 44 | 47 | 45 | - | E. | 2 | E. | 3 | | 6 | | 0 | | | 4.3 | | | damp foggy - fine | 3 | | | |
| 4 | 30.428 | 50 | 30.408 | 53 | 57 | 40 | | | 49 | 44 | 45 | 39 | - | E. | 2 | E. | 4 | | 0 | | 0 | | | 4.3 | | | dry bright - " clear | 4 | | | |
| 5 | 30.308 | 49 | 30.208 | 51 | 56 | 39 | | | 45 | 37 | 46 | 41 | - | E. | 3 | E. | 4 | | 0 | | 10 | | | 4.3.5 | | | " hazy - dry hazy | 5 | | | |
| 6 | 30.072 | 49 | 30.034 | 50 | 60 | 34 | | | 47 | 42 | 42 | 40 | - | - | - | - | - | | 0 | | 0 | | | 4.3.5 | | | " bright - clear fine | 6 | | | |
| 7 | 30.096 | 47 | 30.166 | 54 | 58 | 30 | | | 45 | 41 | 48 | 43 | - | - | - | N.E. | 1 | | 0 | | 0 | | | 4.3.8 | | | hazy & frosty - " " | 7 | | | |
| 8 | 30.168 | 51 | 30.150 | 54 | 63 | 37 | | | 51 | 47 | 47 | 44 | - | N. | 3 | N. | 4 | | 2 | | 0 | | | 4.4 | | | clear bright - dry fine | 8 | | | |
| 9 | 30.172 | 51 | 30.100 | 52 | 57 | 41 | | | 46 | 41 | 46 | 45 | 11 | N.W. | 3 | N.W. | 4 | | 5 | | 10 | | | 4.4 | | | " dry - drizzly | 9 | | | |
| 10 | 29.964 | 52 | 30.066 | 52 | 54 | 36 | | | 49 | 48 | 40 | 40 | 17 | N.W. | 3 | - | - | | 8 | | 10 | | | 4.4 | | | dull & damp - " all day | 10 | | | |
| 11 | 29.822 | 46 | 29.714 | 47 | 43 | 33 | | | 33 | 32 | 36 | 34 | 33 | E. | 3 | N.E. | 2 | | 10 | | 0 | | | 4.4 | | | In storm 8 a till 1 P.M. very wet all day (fine now) | 11 | | | |
| 12 | 29.972 | 45 | 30.028 | 47 | 43 | 36 | | | 37 | 35 | 37 | 35 | - | E. | 2 | E. | 1 | | 10 | | 10 | | | 4.4 | | | 1/2 in later foggy - raw hazy | 12 | | | |
| 13 | 29.962 | 46 | 29.850 | 49 | 50 | 34 | | | 40 | 38 | 45 | 43 | - | S. | 2 | S. | 1 | | 10 | | 10 | | | 4.4.5 | | | " & damp - fine | 13 | | | |
| 14 | 29.712 | 49 | 29.656 | 49 | 49 | 42 | | | 47 | 45 | 43 | 42 | 32 | S.W. | 2 | S.W. | 3 | | 8 | | 9 | | | 4.4.5 | | | " dry - wet from noon | 14 | | | |
| 15 | 29.636 | 49 | 29.064 | 49 | 51 | 40 | | | 47 | 42 | 45 | 44 | 39 | W | 2 | S.W. | 5 | | 8 | | 10 | | | 4.4.5 | | | " hazy - very wet from 2 P.M. stormy | 15 | | | |
| 16 | 29.030 | 49 | 29.174 | 50 | 47 | 37 | | | 44 | 40 | 43 | 40 | 14 | W | 4 | W. | 4 | | 6 | | 9 | | | 4.4.5 | | | " breezy - stormy Rn. H. at intervals | 16 | | | |
| 17 | 29.322 | 48 | 29.386 | 50 | 49 | 39 | | | 44 | 41 | 39 | 37 | 103 | W | 4 | S. | 1 | | 5 | | 9 | | | 4.4.5 | | | bright - fine | 17 | | | |
| 18 | 29.330 | 49 | 29.114 | 49 | 52 | 39 | | | 44 | 41 | 41 | 40 | 71 | W. | 2 | W. | 1 | | 8 | | 10 | | | 4.4.5 | | | dull & damp - wet from 4-30 P. | 18 | | | |
| 19 | 29.174 | 47 | 29.476 | 50 | 49 | 36 | | | 42 | 41 | 40 | 39 | 14 | W. | 4 | N.W. | 5 | | 5 | | 8 | | | 4.4.5 | | | showery breezy - stormy & showery all day | 19 | | | |
| 20 | 29.764 | 48 | 29.800 | 51 | 56 | 39 | | | 48 | 43 | 39 | 38 | 11 | N.W. | 3 | S. | 1 | | 4 | | 0 | | | 4.4.5 | | | fine | 20 | | | |
| 21 | 29.744 | 48 | 29.944 | 53 | 53 | 39 | | | 44 | 43 | 47 | 44 | 102 | E. | 1 | - | - | | 10 | | 10 | | | 4.4.8 | | | wet & foggy - drizzly forenoon | 21 | | | |
| 22 | 30.110 | 53 | 30.140 | 54 | 59 | 46 | | | 50 | 49 | 49 | 46 | - | - | - | N.W. | 2 | | 10 | | 2 | | | 4.5 | | | dull & foggy - fine | 22 | | | |
| 23 | 30.068 | 52 | 29.830 | 58 | 60 | 44 | | | 52 | 46 | 45 | 43 | - | - | - | S. | 1 | | 2 | | 0 | | | 4.5 | | | dry bright - " " | 23 | | | |
| 24 | 29.566 | 53 | 29.324 | 54 | 57 | 44 | | | 52 | 50 | 47 | 47 | 22 | S. | 2 | S.W. | 2 | | 10 | | 10 | | | 4.5 | | | dull foggy - wet from 1 P. | 24 | | | |
| 25 | 29.290 | 52 | 29.072 | 53 | 54 | 43 | X | | 47 | 45 | 46 | 45 | 108 | W | 2 | E. | 3 | | 7 | | 10 | | | 4.5.3 | | | " showery - fine | 25 | | | |
| 26 | 29.106 | 49 | 28.959 | 49 | 48 | 38 | | | 44 | 40 | 44 | 41 | 57 | N.W. | 4 | W. | 5 | | 4 | | 10 | | | 4.6 | | | breezy - stormy & wet from noon | 26 | | | |
| 27 | 29.118 | 49 | 29.222 | 51 | 51 | 38 | | | 45 | 43 | 45 | 43 | 22 | S. | 1 | S.S.W. | 2 | | 7 | | 10 | | | 4.6 | | | fine - wet from noon, fine & present | 27 | | | |
| 28 | 29.304 | 51 | 29.584 | 53 | 55 | 43 | | | 49 | 45 | 46 | 44 | 106 | S.S.W. | 3 | S. | 4 | | 8 | | 10 | | | 4.6 | | | showery breezy - showery Li. | 28 | | | |
| 29 | 29.896 | 52 | 29.842 | 53 | 59 | 44 | | | 52 | 48 | 46 | 45 | 72 | S.S.W. | 3 | S.E. | 3 | | 7 | | 10 | | | 4.6 | | | " - wet | 29 | | | |
| 30 | 29.534 | 54 | 29.744 | 53 | 58 | 44 | | | 51 | 50 | 45 | 45 | 105 | S. | 2 | W. | 2 | | 10 | | 3 | | | 4.6 | | | " dull - some rain | 30 | | | |
| 31 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | 31 | |
| Sums. | 1313.12 | 16 | 1213.11 | 12 | 14 | 13 | | | 13 | 10 | 15 | 12 | 7 | | | | | | 181 | | 190 | | | 13.7 | | | | | | | |
| Means. | 29.750 | 49.4 | 29.731 | 50.4 | 53.4 | 43.8 | | | 45.9 | 42.5 | 43.6 | 41.7 | | | | | | | 60 | | 6.3 | | | 4.4.5 | | | | | | | |
| Instrumental Errors. | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Corrected Means. | | | | | | | | | 45.9 | 42.0 | 43.6 | 41.2 | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | 39 | | 2.4 | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | 226. | | 232. | | | | | | | | | | | | | | | | | | | | |

WEATHER NOTATION.

| | |
|---|---|
| a. denotes aurora. | m. denotes mist. |
| b. blue sky, cloudless. | p. passing showers. |
| bc. blue sky with detached clouds. | q. equally. |
| c. sky mainly cloudy, but with openings between the clouds. | r. continuous rain. |
| d. completely overcast. | s. snow. |
| e. drizzling rain. | so. la. solar halo. |
| f. wet air, without rain falling. | t. thunder. |
| g. fog. | t.s. thunder-storm. |
| h. wet fog. | u. ugly, threatening appearance. |
| i. gloomy. | v. unusual visibility of distant objects. |
| l. hall. | w. dew. |
| lu. co. lunar corona. | x. hoar frost. |
| lu. ha. lunar halo. | z. dust haze. |

BEAUFORT SCALE FOR ESTIMATING FORCE OF WIND—(0-12).

| Force. | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 |
|--------|-------|------------|----------------|----------------|------------------|---------------|----------------|------------|-------|--------------|-------------|--------|------------|
| | Calm. | Light Air. | Slight Breeze. | Gentle Breeze. | Moderate Breeze. | Fresh Breeze. | Strong Breeze. | High Wind. | Gale. | Strong Gale. | Whole Gale. | Storm. | Hurricane. |

BAROMETER.

Corrected Mean at 9 A.M., minus Correction for Temp. 29.695
 Corrected Mean at 9 P.M., minus Correction for Temp. 670
 Mean at Station, corrected, and at 32°, 29.683
 Correction for height, feet above Mean Sea Level, 85
 Mean, reduced to 32°, and Sea Level, 29.768
 Highest Reading, corrected for Index error, on th.,
 Lowest Do. Do. on th.,
 Difference, or Monthly Range,

SELF-REGISTERING THERMOMETERS.

Highest in Month, on 8 th., 63
 Lowest in Month, on 7 th., 30
 Difference, or Monthly Range, 33
 Mean of all the Highest, 53.4
 Mean of all the Lowest, 38.6
 Difference, or Mean Daily Range, 14.8
 Mean Temperature of Month, $\frac{1}{2}$ (Mean Max. + Mean Min.), 46.0
 Min. on Grass, Lowest in Month,
 " " Mean,
 Black Bulb, Max. in Sun, Highest in Month,

ADDITIONAL REMARKS.

Observations made and Return verified by {
 (Signed)

HYGROMETER.

Dry Bulb, Mean of A.M. and P.M. Readings, 44.8
 Wet Bulb, Mean of A.M. and P.M. Readings, 41.6
 Computed Temperature of Dew-Point,
 Do. Elastic Force of Vapour, 228
 Do. Relative Humidity (Saturation = 100), 77%
 RAIN fell on 19 Days; Amount in Inches, 4.45

| WIND. | | SUMMARY. | | | | | | | | | |
|------------|--|----------|----|----|----|----|----|----|----|-------------------|------------------|
| Direction. | | N | NE | E | SE | S | SW | W | NW | Calm or Variable. | Mean Force 0-12. |
| A.M. | | 1 | 0 | 6 | 0 | 5 | 3 | 7 | 3 | 5 | |
| P.M. | | 1 | 2 | 5 | 2 | 6 | 3 | 4 | 3 | 4 | |
| Sum. | | 2 | 2 | 11 | 2 | 11 | 6 | 11 | 6 | 9 | ✓ |

* If Observations are taken at 9 A.M. only, the reading of the Maximum thermometer must be entered to the previous day.
 † Rain to be measured at 9 A.M. and the amount entered to the previous day.

WEATHER SUMMARY.

Number of Days of Precipitation, ...
 Snow,
 Hail,
 Thunder,
 Clear Sky,
 Overcast,
 Fog,
 Ground Frost,
 Gale,

INSTRUMENTS IN USE.

Barometer, No.
 Dry Bulb, No.
 Wet Bulb, No.
 Maximum, No.
 Minimum, No.
 Solar Radiation, No.
 Grass Min., No.
 Sun Recorder, No.
 1-foot Therm., No.
 4-foot Therm., No.

R = 17

43/11,12
 46/22

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SCOTTISH METEOROLOGICAL SOCIETY

SCOTTISH METEOROLOGICAL SOCIETY.

OBSERVATIONS taken at Glenburn Hydro, County of Bute, During the MONTH of May 1913.
 Lat. 55°49'30"N Long. 5°43'30"W Height of Cistern of the Barometer above Mean Sea Level 76 feet, above Ground 3 1/2 feet. Diameter of Rain Gauge 5 ins.
 Height of Gauge above Mean Sea Level 86 feet. Height of Rim of Gauge above Ground 12 ins.

| Date. | BAROMETER. | | | | * SELF-REGISTERING THERMOMETERS. | | | | HYGROMETER. | | | | +RAIN. | WIND. | | | | CLOUDS. | | | | SUNSHINE. Hours. | THERMOMETERS under Ground. | | | WEATHER. | | GENERAL REMARKS. Occurrence of Snow, Hail, Thunder, Lightning, Fog, Gales, Meteors, Auroras, Remarkable Depression or Elevation of Barometer, etc. Mention the hour at which Storms, including Thunder and Lightning, began and ended. | Date. | | |
|----------------------|------------|-----------------------|------------|-----------------------|----------------------------------|-------------|--------------------------------|-----------------------|-------------|-----------|-----------|-----------|--------|------------------|------------|-----------------------|------------|-----------------------|--------------------|------------------------|----------------|---------------------|----------------------------|----------------|--------|----------|---|--|-------|-----------|-----------|
| | 9 A.M. | | 9 P.M. | | Screen. | | Black Bulb Max. in Sun. 9 P.M. | Min. on Grass. 9 A.M. | 9 A.M. | | 9 P.M. | | | Amount at 9 A.M. | 9 A.M. | | 9 P.M. | | Anemometer. 9 A.M. | 9 A.M. | | | 9 P.M. | | 9 A.M. | | | | | At 9 A.M. | At 9 P.M. |
| | Barometer. | Attached Thermometer. | Barometer. | Attached Thermometer. | Max. 9 P.M. | Min. 9 P.M. | | | Dry bulb. | Wet bulb. | Dry bulb. | Wet bulb. | | | Direction. | Force. Scale of 0-12. | Direction. | Force. Scale of 0-12. | | Species and Direction. | Amount (0-10). | | Species and Direction. | Amount (0-10). | 3 ins. | 12 ins. | 48 ins. | | | | |
| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1 | 29.808 | 53 | 29.826 | 54 | 56 | 42 | 7 | 7 | 50 | 47 | 42 | 41 | - | SE | 2 | W | 1 | 7 | 7 | 7 | 0 | 7 | 7 | 46 | | | dull & damp - fine | 1 | | | |
| 2 | 29.844 | 53 | 29.664 | 53 | 59 | 39 | | | 47 | 45 | 46 | 43 | 14 | W | 2 | SE | 2 | | 7 | 1 | | | | 46.5 | | | " foggy - " | 2 | | | |
| 3 | 29.466 | 52 | 29.472 | 50 | 49 | 45 | | | 46 | 45 | 45 | 43 | 15 | S | 3 | NNW | 3 | | 10 | 8 | | | | 46.8 | | | " fair - wet weather fine, | 3 | | | |
| 4 | 29.580 | 53 | 29.708 | 52 | 54 | 44 | | | 47 | 44 | 45 | 44 | 10 | N | 3 | SE | 2 | | 9 | 10 | | | | 46.8 | | | " damp - fine | 4 | | | |
| 5 | 29.700 | 52 | 29.532 | 56 | 61 | 44 | | | 47 | 48 | 51 | 48 | 63 | E | 2 | SE | 2 | | 10 | 10 | | | | 47 | | | " foggy - hazy " | 5 | | | |
| 6 | 29.472 | 53 | 29.494 | 54 | 53 | 43 | | | 45 | 44 | 44 | 43 | 42 | SE | 2 | SE | 2 | | 10 | 10 | | | | 47 | | | " wet - stormy, h. m. all day | | | | |
| 7 | 29.524 | 52 | 29.538 | 54 | 58 | 41 | | | 47 | 44 | 44 | 42 | 10 | ESE | 2 | E | 6 | | 4 | 10 | | | | 47 | | | " fine - but from 8 till 7 pm stormy | | | | |
| 8 | 29.486 | 53 | 29.474 | 52 | 55 | 44 | x | | 47 | 46 | 47 | 45 | 17 | E | 3 | NW | 3 | | 10 | 9 | | | | 47 | | | " foggy - dull & damp wet till 7 pm | | | | |
| 9 | 29.572 | 52 | 29.558 | 53 | 54 | 42 | | | 49 | 47 | 45 | 44 | 10 | E | 4 | - | - | | 10 | 10 | | | | 47 | | | " foggy - dull foggy | | | | |
| 10 | 29.628 | 52 | 29.700 | 57 | 61 | 41 | | | 48 | 45 | 47 | 45 | 10 | E | 3 | - | - | | 10 | 0 | | | | 47 | | | " foggy - " foggy in Day | 10 | | | |
| 11 | 29.810 | 57 | 29.892 | 59 | 56 | 45 | | | 47 | 47 | 47 | 45 | - | E | 3 | E | 4 | | 10 | 10 | | | | 47 | | | " " - cold hazy | 11 | | | |
| 12 | 29.988 | 52 | 30.106 | 49 | 58 | 44 | | | 47 | 45 | 46 | 49 | - | E | 4 | E | 5 | | 10 | 0 | | | | 47.5 | | | " " - dull milder | 12 | | | |
| 13 | 30.235 | 57 | 30.220 | 61 | 64 | 43 | | | 50 | 47 | 50 | 47 | - | E | 3 | W | 1 | | 5 | 10 | | | | 47.5 | | | " " - foggy | 13 | | | |
| 14 | 30.296 | 61 | 30.368 | 61 | 58 | 46 | | | 49 | 48 | 47 | 44 | - | E | 3 | E | 4 | | 10 | 10 | | | | 47.5 | | | " " - foggy | 14 | | | |
| 15 | 30.316 | 62 | 30.214 | 62 | 62 | 44 | | | 51 | 46 | 47 | 45 | - | W | - | - | - | | 4 | 0 | | | | 47.8 | | | " " - fine | 15 | | | |
| 16 | 30.078 | 59 | 29.870 | 59 | 64 | 40 | | | 52 | 49 | 53 | 51 | 10 | NNW | 2 | - | - | | 9 | 10 | | | | 48 | | | " " - showery breezy - stormy & heavy showery | | | | |
| 17 | 29.702 | 56 | 29.654 | 57 | 54 | 43 | | | 49 | 45 | 43 | 42 | 24 | NW | 4 | NW | 5 | | 8 | 10 | | | | 48 | | | " " - " all day | 17 | | | |
| 18 | 29.692 | 55 | 29.778 | 51 | 49 | 41 | | | 47 | 43 | 41 | 38 | 11 | NNW | 5 | NW | 4 | | 5 | 2 | | | | 48 | | | " " - " all day | 18 | | | |
| 19 | 29.524 | 48 | 29.806 | 61 | 50 | 38 | | | 44 | 40 | 39 | 37 | 34 | NW | 3 | NW | 1 | | 8 | 0 | | | | 48 | | | " " - " all day | 19 | | | |
| 20 | 29.782 | 50 | 29.768 | 54 | 52 | 38 | | | 45 | 45 | 49 | 48 | 29 | - | - | SE | 1 | | 10 | 10 | | | | 48 | | | " " - " all day | 20 | | | |
| 21 | 29.634 | 54 | 29.690 | 55 | 60 | 46 | x | | 53 | 51 | 46 | 45 | 31 | SE | 3 | W | 2 | | 4 | 10 | | | | 48.5 | | | " " - very wet all day | 21 | | | |
| 22 | 29.818 | 58 | 29.862 | 56 | 59 | 44 | | | 51 | 49 | 48 | 48 | 34 | W | 3 | - | - | | 8 | 10 | | | | 48.5 | | | " " - heavy showers etc. | 22 | | | |
| 23 | 29.924 | 56 | 30.040 | 57 | 59 | 47 | | | 50 | 50 | 48 | 46 | 10 | W | 3 | W | 1 | | 10 | 8 | | | | 48.5 | | | " " - very wet from 5 P | 23 | | | |
| 24 | 30.120 | 56 | 30.134 | 59 | 59 | 47 | | | 51 | 50 | 53 | 53 | 11 | - | - | - | - | | 10 | 10 | | | | 48.8 | | | " " - fine | 24 | | | |
| 25 | 30.132 | 57 | 30.184 | 57 | 61 | 48 | x | | 54 | 53 | 49 | 46 | 10 | SE | 1 | - | - | | 10 | 0 | | | | 48.8 | | | " " - damp & foggy - wet from noon | 25 | | | |
| 26 | 30.240 | 56 | 30.194 | 58 | 61 | 44 | | | 53 | 49 | 49 | 46 | - | W | 3 | N | 2 | | 7 | 10 | | | | 49.5 | | | " " - fine | 26 | | | |
| 27 | 30.042 | 57 | 30.012 | 59 | 63 | 41 | | | 54 | 49 | 48 | 45 | - | NE | 2 | - | - | | 0 | 1 | | | | 49.5 | | | " " - dry - dull | 27 | | | |
| 28 | 29.858 | 58 | 29.730 | 58 | 58 | 43 | | | 52 | 49 | 52 | 51 | 10 | E | 2 | SE | 1 | | 8 | 10 | | | | 49.8 | | | " " - hazy | 28 | | | |
| 29 | 29.808 | 58 | 29.716 | 60 | 60 | 48 | | | 54 | 42 | 53 | 51 | 29 | W | 2 | E | 1 | | 8 | 10 | | | | 49.8 | | | " " - dull & damp | 29 | | | |
| 30 | 29.550 | 62 | 29.522 | 57 | 68 | 53 | | | 59 | 59 | 53 | 49 | 13 | E | 2 | S | 5 | | 8 | 1 | | | | 50 | | | " " - dry - fine | 30 | | | |
| 31 | 29.594 | 58 | 29.788 | 59 | 60 | 47 | | | 50 | 48 | 49 | 48 | 10 | SE | 3 | W | 1 | | 7 | 10 | | | | 50 | | | " " - foggy - breezy | 31 | | | |
| | | | | | | | | | | | | | | | | | | | | | | | | | | | | " " - damp - stormy | | | |
| Sums. | 17412 | 13 | 181512 | 13 | 14 | 13 | | | 14 | 16 | 16 | 15 | 9 | | | | | | | | | | | | 220 | | | | | | |
| Means. | 25.526 | 159 | 25.514 | 184 | 245 | 115 | | | 29.721 | 9 | 226 | 172 | 402 | | | | | | | | | | | | 267.1 | | | | | | |
| Instrumental Errors. | 29.823 | 55.1 | 29.823 | 55.9 | 57.9 | 43.7 | | | 49.6 | 47.0 | 47.3 | 45.5 | | | | | | | | | | | | | 44.7 | | | | | | |
| Corrected Means. | | | | | | | | | 49.6 | 46.5 | 47.3 | 45.0 | | | | | | | | | | | | | 48.0 | | | | | | |

WEATHER NOTATION.

a. denotes aurora.

b. blue sky, cloudless.

c. blue sky with detached clouds.

d. sky mainly cloudy, but with openings between the clouds.

e. completely overcast.

f. drizzling rain.

g. wet air without rain falling.

h. fog.

i. wet fog.

j. gloomy.

k. hail.

l. lightning.

m. co. lunar corona.

n. ha. lunar halo.

m. denotes mist.

p. passing showers.

q. squally.

r. continuous rain.

s. snow.

so. ha. solar halo.

t. thunder.

th. storm.

u. ugly, threatening appearance.

v. unusual visibility of distant objects.

w. dew.

x. hoar frost.

z. dust haze.

BEAUFORT SCALE FOR ESTIMATING FORCE OF WIND.—(0—12).

FORCE.

0 Calm.

1 Light Air.

2 Slight Breeze.

3 Gentle Breeze.

4 Moderate Breeze.

5 Fresh Breeze.

6 Strong Breeze.

7 High Wind.

8 Gale.

9 Strong Gale.

10 Whole Gale.

11 Storm.

12 Hurricane.

| WEATHER NOTATION. | | | |
|-------------------------|-------------------------|-----------------------------------|---|
| a. denotes aurora. | b. blue sky, cloudless. | c. blue sky with detached clouds. | d. sky mainly cloudy, but with openings between the clouds. |
| e. completely overcast. | f. drizzling rain. | g. wet air, without rain falling. | h. fog. |
| i. wet fog. | j. gloomy. | k. hail. | l. lightning. |
| lu. co. lunar corona. | lu. ha. lunar halo. | m. denotes mist. | n. passing showers. |
| o. equally. | p. continuous rain. | q. snow. | r. solar halo. |
| s. thunder. | t. s. thunder-storm. | u. ugly, threatening appearance. | v. unusual visibility of distant objects. |
| w. dew. | x. hoar frost. | y. dust haze. | |

| BEAUFORT SCALE FOR ESTIMATING FORCE OF WIND—(0-12). | | | |
|---|--------------------|----------------|----------------|
| 0 Calm. | 3 Fresh Breeze. | 6 Strong Gale. | 9 Strong Gale. |
| 1 Light Air. | 4 Moderate Breeze. | 7 High Wind. | 10 Whole Gale. |
| 2 Slight Breeze. | 5 Gentle Breeze. | 8 Gale. | 11 Storm. |
| 3 Gentle Breeze. | 6 Strong Breeze. | 9 Gale. | 12 Hurricane. |

| BAROMETER. | |
|--|---------------|
| Corrected Mean at 9 A.M., minus Correction for Temp. <u>29.823</u> | <u>29.751</u> |
| Corrected Mean at 9 P.M., minus Correction for Temp. <u>29.823</u> | <u>29.749</u> |
| Mean at Station, corrected, and at 32°, | <u>29.750</u> |
| Correction for height, feet above Mean Sea Level, | <u>84</u> |
| Mean, reduced to 32°, and Sea Level, | <u>29.834</u> |
| Highest Reading, corrected for Index error, on <u>14</u> th, | <u>30.368</u> |
| Lowest Do. Do., on <u>3</u> th, | <u>29.466</u> |
| Difference, or Monthly Range, | <u>.902</u> |

| SELF-REGISTERING THERMOMETERS. | |
|---|-------------|
| Highest in Month, on <u>30</u> th, | <u>68.4</u> |
| Lowest in Month, on <u>19</u> th, | <u>38.2</u> |
| Difference, or Monthly Range, | <u>30.0</u> |
| Mean of all the Highest, | <u>57.9</u> |
| Mean of all the Lowest, | <u>43.7</u> |
| Difference, or Mean Daily Range, | <u>14.2</u> |
| Mean Temperature of Month, $\frac{1}{2}$ (Mean Max. + Mean Min.), | <u>50.8</u> |
| Min. on Grass, Lowest in Month, | <u>50.8</u> |
| " " Mean, | |
| Black Bulb, Max. in Sun, Highest in Month, | |

| HYGROMETER. | |
|--|-------------|
| Dry Bulb, Mean of A.M. and P.M. Readings, | <u>48.5</u> |
| Wet Bulb, Mean of A.M. and P.M. Readings, | <u>45.8</u> |
| Computed Temperature of Dew-Point, | |
| Do. Elastic Force of Vapour, | <u>.277</u> |
| Do. Relative Humidity (Saturation = 100), | <u>82</u> |
| RAIN fell on <u>23</u> Days; Amount in Inches, | <u>.402</u> |

| WEATHER SUMMARY. | |
|--------------------------------------|-----------|
| Number of Days of Precipitation, ... | |
| Snow, | <u>0</u> |
| Hail, | <u>0</u> |
| Thunder, | <u>2</u> |
| Clear Sky, | <u>1</u> |
| Overcast, | <u>18</u> |
| Fog, | <u>10</u> |
| Ground Frost, | <u>2</u> |
| Gale, | <u>2</u> |

| WIND. | |
|-------------------|----------|
| Direction. | Summary. |
| N | 3 |
| NE | 1 |
| E | 11 |
| SE | 1 |
| S | 2 |
| SW | 2 |
| W | 5 |
| NW | 2 |
| Calm or Variable. | 3 |
| A.M. | 3 |
| P.M. | 2 |
| Sum. | 5 |

| INSTRUMENTS IN USE. | |
|---------------------------|--|
| Barometer, No. | |
| Dry Bulb, No. | |
| Wet Bulb, No. | |
| Maximum, No. | |
| Minimum, No. | |
| Solar Radiation, No. | |
| Grass Min., No. | |
| Sun Recorder, No. | |
| 1-foot Therm., No. | |
| 4-foot Therm., No. | |

Observations made and Return verified by {
 (Signed) _____

* If Observations are taken at 9 A.M. only, the reading of the Maximum thermometer must be entered to the previous day.
 † Rain to be measured at 9 A.M. and the amount entered to the previous day.

49/3.18
 53/30

R = 18

THE SECRETARY

SCOTTISH METEOROLOGICAL SOCIETY

122 GEORGE STREET

EDINBURGH

BOOK POST

Rothery
May 1913

SCOTTISH METEOROLOGICAL SOCIETY.

OBSERVATIONS taken at Glennburn Hydro, County of Bute, During the MONTH of June 1913.
 Lat. 58°45'50"N Long. 5°45'21"W Height of Cistern of the Barometer above Mean Sea Level 76 feet, above Ground 3 1/4 feet. Diameter of Rain Gauge 3 ins.
 Height of Gauge above Mean Sea Level 86 feet. Height of Rim of Gauge above Ground 12 ins.

| Date. | BAROMETER. | | | | * SELF-REGISTERING THERMOMETERS. | | | | HYGROMETER. | | | | † RAIN. | WIND. | | | | CLOUDS. | | | | SUNSHINE. Hours. | THERMOMETERS under Ground. | | | WEATHER. | | GENERAL REMARKS. Occurrence of Snow, Hail, Thunder, Lightning, Fog, Gales, Meteors, Auroras, Remarkable Depression or Elevation of Barometer, etc. Mention the hour at which Storms, including Thunder and Lightning, began and ended. | Date. | | | | | | | | | | | | | |
|---|------------------|-----------------------|------------|-----------------------|----------------------------------|-------------|--------------------------------|-----------------------|-------------|-----------|-----------|-----------|------------------|------------|-----------------------|------------|-----------------------|---------------|------------------------|----------------|------------------------|---------------------|----------------------------|------------------------|----------------|---|-----------|--|-----------------|----------------|--------------|------------------|----------------|------------------|--------------|-----------|------------------|---------|---------------|--------------------|---------|---|
| | 9 A.M. | | 9 P.M. | | Screen. | | Black Ball Max. in Sun. 9 P.M. | Min. on Grass. 9 A.M. | 9 A.M. | | 9 P.M. | | Amount at 9 A.M. | 9 A.M. | | 9 P.M. | | Amount 9 A.M. | 9 A.M. | | 9 P.M. | | 9 A.M. | | | At 9 A.M. | At 9 P.M. | | | | | | | | | | | | | | | |
| | Barometer. | Attached Thermometer. | Barometer. | Attached Thermometer. | Max. 9 P.M. | Min. 9 P.M. | | | Dry bulb. | Wet bulb. | Dry bulb. | Wet bulb. | | Direction. | Force. Scale of 0-12. | Direction. | Force. Scale of 0-12. | | Species and Direction. | Amount (0-10). | Species and Direction. | | Amount (0-10). | Species and Direction. | Amount (0-10). | | | | | 3 ins. | 12 ins. | 48 ins. | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | inches. | ° | inches. | ° | ° | ° | ° | ° | inches. | ° |
| 1 | 29.934 | 57 | 29.972 | 59 | 60 | 46 | 7 | 54 | 50 | 51 | 48 | - | N | 3 | SM | 1 | 7 | 6 | ✓ | 10 | ✓ | ✓ | 50 | | | dull & damp - fine | 1 | | | | | | | | | | | | | | | |
| 2 | 29.868 | 58 | 29.714 | 59 | 60 | 47 | | 58 | 51 | 49 | 49 | 66 | S | 3 | SM | 2 | | 7 | ✓ | 10 | | | 50.5 | | | " dry - very wet from 3P | 2 | | | | | | | | | | | | | | | |
| 3 | 29.894 | 56 | 30.012 | 58 | 59 | 46 | | 52 | 50 | 47 | 46 | - | N | 3 | SM | 1 | | 8 | | 0 | | | 51 | | | " damp - fine | 3 | | | | | | | | | | | | | | | |
| 4 | 29.970 | 59 | 29.790 | 63 | 41 | 44 | | 58 | 52 | 58 | 56 | 15 | E | 2 | E | 2 | | 6 | | 10 | | | 51 | | | bright dry - " foggy | 4 | | | | | | | | | | | | | | | |
| 5 | 29.720 | 62 | 29.632 | 62 | 65 | 54 | | 59 | 53 | 56 | 54 | 51 | SM | 3 | - | - | | 4 | | 10 | | | 50.8 | | | " breezy - " hazy | 5 | | | | | | | | | | | | | | | |
| 6 | 29.716 | 61 | 29.614 | 59 | 58 | 49 | | 53 | 54 | 51 | 48 | 28 | N | 2 | NM | 2 | | 10 | | 10 | | | 51 | | | dull & damp - fine | 6 | | | | | | | | | | | | | | | |
| 7 | 29.506 | 59 | 29.672 | 58 | 58 | 48 | | 51 | 47 | 49 | 47 | 105 | N | 5 | N | 6 | | 8 | | 10 | | | 51 | | | Stormy Showery - Stormy all day from 12 | 7 | | | | | | | | | | | | | | | |
| 8 | 29.672 | 57 | 29.706 | 56 | 53 | 46 | | 52 | 49 | 48 | 46 | 53 | N | 5 | NM | 6 | | 4 | | 10 | | | 51 | | | " " - " wet all day | 8 | | | | | | | | | | | | | | | |
| 9 | 29.764 | 55 | 29.324 | 51 | 52 | 46 | | 49 | 48 | 49 | 48 | 63 | N | 5 | SM | 5 | | 10 | | 10 | | | 51.5 | | | dull & wet - " " " | 9 | | | | | | | | | | | | | | | |
| 10 | 29.440 | 53 | 29.716 | 56 | 56 | 46 | | 48 | 45 | 48 | 47 | 103 | N | 5 | NM | 4 | | 10 | | 10 | | | 51 | | | Stormy & Showery - fine but cold | 10 | | | | | | | | | | | | | | | |
| 11 | 29.858 | 55 | 29.864 | 54 | 54 | 45 | | 52 | 47 | 47 | 45 | 12 | N | 3 | NM | 5 | | 8 | | 10 | | | 51 | | | dull & damp - Showery & breezy | 11 | | | | | | | | | | | | | | | |
| 12 | 29.996 | 54 | 30.036 | 53 | 58 | 43 | | 52 | 47 | 45 | 44 | 103 | NM | 3 | - | - | | 5 | | 10 | | | 51.5 | | | Showery - dull & wet | 12 | | | | | | | | | | | | | | | |
| 13 | 30.138 | 54 | 30.224 | 58 | 60 | 43 | | 54 | 50 | 53 | 50 | 101 | E | 3 | - | - | | 2 | | 10 | | | 51.5 | | | hazy & dry - hazy fine | 13 | | | | | | | | | | | | | | | |
| 14 | 30.240 | 58 | 30.270 | 62 | 67 | 50 | | 53 | 53 | 57 | 55 | - | E | 2 | N | 1 | | 10 | | 10 | | | 51 | | | damp & foggy - fine | 14 | | | | | | | | | | | | | | | |
| 15 | 30.232 | 60 | 30.126 | 65 | 41 | 48 | | 60 | 55 | 56 | 54 | - | S | 2 | - | - | | 9 | | 3 | | | 51 | | | fine | 15 | | | | | | | | | | | | | | | |
| 16 | 30.140 | 62 | 30.064 | 67 | 76 | 44 | | 65 | 59 | 60 | 59 | - | - | - | - | - | | 4 | | 0 | | | 51.5 | | | dry hazy - " hazy | 16 | | | | | | | | | | | | | | | |
| 17 | 30.000 | 65 | 29.972 | 66 | 74 | 54 | | 61 | 56 | 58 | 57 | - | E | 4 | E | 1 | | 7 | | 10 | | | 51.5 | | | breezy foggy - " " distant | 17 | | | | | | | | | | | | | | | |
| 18 | 29.960 | 64 | 29.982 | 63 | 65 | 52 | | 58 | 56 | 53 | 52 | 101 | - | - | SE | 1 | | 10 | | 10 | | | 51.8 | | | dull & foggy in day - clear fine | 18 | | | | | | | | | | | | | | | |
| 19 | 29.868 | 62 | 29.916 | 62 | 66 | 50 | | 56 | 54 | 53 | 54 | 28 | NM | 2 | - | - | | 10 | | 10 | | | 51.8 | | | " dry - heavy Rn 2 till 5P | 19 | | | | | | | | | | | | | | | |
| 20 | 30.018 | 63 | 30.044 | 62 | 69 | 48 | | 62 | 58 | 57 | 55 | 104 | - | - | - | - | | 0 | | 0 | | | 52 | | | fine hazy - fine hazy | 20 | | | | | | | | | | | | | | | |
| 21 | 30.046 | 62 | 30.046 | 62 | 64 | 51 | | 55 | 52 | 56 | 54 | 105 | SM | 1 | 8 | 2 | | 10 | | 10 | | | 52 | | | dull " - " dull | 21 | | | | | | | | | | | | | | | |
| 22 | 30.046 | 62 | 30.028 | 62 | 56 | 49 | | 54 | 53 | 53 | 54 | 105 | NM | 2 | N | 1 | | 10 | | 10 | | | 52.8 | | | " damp - " | 22 | | | | | | | | | | | | | | | |
| 23 | 29.878 | 62 | 29.768 | 62 | 60 | 47 | | 55 | 53 | 52 | 52 | 115 | SE | 2 | E | 2 | | 10 | | 10 | | | 53 | | | " " - wet all day | 23 | | | | | | | | | | | | | | | |
| 24 | 29.860 | 61 | 29.972 | 61 | 63 | 52 | | 60 | 56 | 53 | 51 | - | N | 3 | NM | 5 | | 7 | | 10 | | | 53 | | | " " - breezy colder | 24 | | | | | | | | | | | | | | | |
| 25 | 30.084 | 59 | 30.130 | 59 | 64 | 52 | | 59 | 55 | 54 | 53 | - | NM | 3 | NM | 2 | | 9 | | 10 | | | 53.5 | | | " dry - dry cold | 25 | | | | | | | | | | | | | | | |
| 26 | 30.112 | 57 | 30.114 | 59 | 64 | 50 | | 57 | 53 | 52 | 49 | - | N | 2 | N | 5 | | 7 | | 10 | | | 53.8 | | | " " - cold strong wind | 26 | | | | | | | | | | | | | | | |
| 27 | 30.210 | 57 | 30.276 | 59 | 60 | 51 | | 55 | 50 | 51 | 50 | 22 | NM | 4 | - | - | | 7 | | 10 | | | 53.8 | | | " breezy - calm but | 27 | | | | | | | | | | | | | | | |
| 28 | 30.282 | 59 | 30.298 | 59 | 61 | 52 | | 54 | 54 | 52 | 51 | 107 | N | 4 | NM | 5 | | 10 | | 10 | | | 54 | | | wet " - Stormy & Showery all | 28 | | | | | | | | | | | | | | | |
| 29 | 30.302 | 59 | 30.368 | 60 | 64 | 51 | | 57 | 53 | 53 | 52 | - | NM | 4 | NM | 2 | | 6 | | 6 | | | 54 | | | dull " - fine but cold | 29 | | | | | | | | | | | | | | | |
| 30 | 30.342 | 60 | 30.344 | 64 | 43 | 51 | | 60 | 57 | 54 | 53 | - | NM | 1 | NM | 1 | | 3 | | 0 | | | 54 | | | bright dry - fine | 30 | | | | | | | | | | | | | | | |
| 31 | | | | | | | | | | | | | | | | | | | | | | | | | | | ✓ | 31 | | | | | | | | | | | | | | |
| Sums. | 29.046 | 276 | 28.994 | 00 | 83 | 254 | | 172 | 74 | 79 | 32 | 337 | | | | | | 217 | | 246 | | | 55 | | | | | | | | | | | | | | | | | | | |
| Means. | 29.968 | 59.2 | 29.966 | 60.0 | 62.8 | 48.5 | | 55.7 | 52.5 | 52.6 | 51.1 | | | | | | | 7.2 | | 8.2 | | | 51.9 | | | | | | | | | | | | | | | | | | | |
| Instrumental Errors. | - | - | - | - | - | - | | -5 | -5 | -5 | -5 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Corrected Means. | | | | | | | | 55.7 | 52.0 | 52.6 | 50.6 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | 3.7 | 2.0 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | 3.12 | 3.43 | 2.6 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| <div>WEATHER NOTATION.</div> <div><div>a. denotes aurora. b. " blue sky, cloudless. c. " blue sky with detached clouds. d. " sky mainly cloudy, but with openings between the clouds. e. " completely overcast. f. " drizzling rain. g. " wet air, without rain falling. h. " fog. i. " wet fog. j. " gloomy. k. " hail. l. " lightning. m. " lunar corona. n. ha. " lunar halo.</div><div>m. denotes mist. p. " passing showers. q. " squally. r. " continuous rain. s. " snow. so. ha. " solar halo. t. " thunder. ts. " thunder-storm. u. " ugly, threatening appearance. v. " unusual visibility of distant objects. w. " dew. x. " hoar frost. z. " dust haze.</div></div> <div>BEAUFORT SCALE FOR ESTIMATING FORCE OF WIND—(0-12).</div> <table><tr><td>0 Calm.</td><td>5 Fresh Breeze.</td><td>9 Strong Gale.</td></tr><tr><td>1 Light Air.</td><td>6 Strong Breeze.</td><td>10 Whole Gale.</td></tr><tr><td>2 Slight Breeze.</td><td>7 High Wind.</td><td>11 Storm.</td></tr><tr><td>3 Gentle Breeze.</td><td>8 Gale.</td><td>12 Hurricane.</td></tr><tr><td>4 Moderate Breeze.</td><td></td><td></td></tr></table> | | | | | | | | | | | | | | | | | | | | | | | | | | | | 0 Calm. | 5 Fresh Breeze. | 9 Strong Gale. | 1 Light Air. | 6 Strong Breeze. | 10 Whole Gale. | 2 Slight Breeze. | 7 High Wind. | 11 Storm. | 3 Gentle Breeze. | 8 Gale. | 12 Hurricane. | 4 Moderate Breeze. | | |
| 0 Calm. | 5 Fresh Breeze. | 9 Strong Gale. | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1 Light Air. | 6 Strong Breeze. | 10 Whole Gale. | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 2 Slight Breeze. | 7 High Wind. | 11 Storm. | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 3 Gentle Breeze. | 8 Gale. | 12 Hurricane. | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 4 Moderate Breeze. | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

| | |
|--|------------------------------|
| <p align="center">BAROMETER.</p> | |
| <p>Corrected Mean at 9 A.M., <i>minus</i> Correction for Temp.....</p> | <p align="center">- 8.3</p> |
| <p>Corrected Mean at 9 P.M., <i>minus</i> Correction for Temp.....</p> | <p align="center">- 8.5</p> |
| <p>Mean at Station, corrected, and at 32',</p> | <p align="center">88.3</p> |
| <p>Correction for height, feet above Mean Sea Level...</p> | <p align="center">+</p> |
| <p>Mean, reduced to 32", and Sea Level,</p> | <p align="center">29.966</p> |
| <p>Highest Reading, corrected for Index error, on th.....</p> | |
| <p>Lowest Do. Do., on th.....</p> | |
| <p>Difference, or Monthly Range,</p> | |

17 SELF-REGISTERING THERMOMETERS.

Highest in Month, on 16th, 76

Lowest in Month, on 12th, 13th 43

Difference, or **Monthly Range**, 33

Mean of all the Highest, 62.8

Mean of all the Lowest, 48.5

Difference, or **Mean Daily Range**, 14.3

Mean Temperature of Month, $\frac{1}{2}$ (Mean Max. + Mean Min.), ... 55.7 ✓

Min. on Grass, Lowest in Month,

” ” Mean,

Black Bulb, Max. in Sun, Highest in Month,

ADDITIONAL REMARKS.

$$\begin{array}{l} 52/9 \\ 54/5, 17 \end{array}$$

HYGROMETER.

| | |
|---|------|
| Dry Bulb, Mean of A.M. and P.M. Readings, | 54.1 |
| Wet Bulb, Mean of A.M. and P.M. Readings, | 51.2 |
| Computed Temperature of Dew-Point, | |
| Do. Elastic Force of Vapour, | .338 |
| Do. Relative Humidity (Saturation = 100),... | 80 |

RAIN fell on 19 Days; Amount in Inches, 3.37 ✓

| WIND. | | SUMMARY. | | | | | | | | |
|------------|---|----------|---|----|---|----|----|----|-------------------|------------------|
| Direction. | N | NE | E | SE | S | SW | W | NW | Calm or Variable. | Mean Force 0-12. |
| A.M. | 1 | | 4 | 1 | 2 | 3 | 10 | 6 | 3 | |
| P.M. | 1 | | 3 | 1 | 1 | 4 | 3 | 9 | 8 | |
| Sum. | 2 | 0 | 7 | 2 | 3 | 7 | 13 | 15 | 11 | |

* If Observations are taken at 9 A.M. only, the reading of the Maximum thermometer must be entered to the *previous day*.

† **Rain** to be measured at 9 A.M. and the amount entered to the *previous day*.

$$R = 14$$

WEATHER SUMMARY.

| Number of Days of Precipitation, ... | |
|---|----|
| Snow, | 0 |
| Hail, | 0 |
| Thunder, | 1 |
| Clear Sky, | 2 |
| Overcast, | 17 |
| Fog, | 3 |
| Ground Frost, | |
| Gale, | 3 |

INSTRUMENTS
IN USE.

Barometer, No. _____
 Dry Bulb, No. _____
 Wet Bulb, No. _____
 Maximum, No. _____
 Minimum, No. _____
 Solar Radiation, No. _____
 Grass Min., No. _____
 Sun Recorder, No. _____
 1-foot Therm., No. _____
 4-foot Therm., No. _____

Observations made and
Return verified by

(Signed)

THE SECRETARY

SCOTTISH METEOROLOGICAL SOCIETY

122 GEORGE STREET

EDINBURGH

BOOK POST



SCOTTISH METEOROLOGICAL SOCIETY

SCOTTISH METEOROLOGICAL SOCIETY.

OBSERVATIONS taken at Glenburn Hydro, County of Bute, During the MONTH of July 1913.
 Lat. 55°49'50"N Long. 5°45'W. Height of Cistern of the Barometer above Mean Sea Level 46 feet, above Ground 3 1/2 feet. Diameter of Rain Gauge 5 ins.
 Height of Gauge above Mean Sea Level 86 feet. Height of Rim of Gauge above Ground 12 ins.

| Date. | BAROMETER. | | | | *SELF-REGISTERING THERMOMETERS. | | | | HYGROMETER. | | | | +RAIN. | WIND. | | | | CLOUDS. | | | | SUNSHINE. | THERMOMETERS under Ground. | | | WEATHER. | | GENERAL REMARKS. Occurrence of Snow, Hail, Thunder, Lightning, Fog, Gales, Meteors, Auroras, Remarkable Depression or Elevation of Barometer, etc. Mention the hour at which Storms, including Thunder and Lightning, began and ended. | Date. | | |
|----------------------|------------|--------------------------|------------|--------------------------|---------------------------------|-------------|--------------------------------|-----------------------|-------------|-----------|-----------|-----------|--------|------------------|------------|-----------------------|------------|-----------------------|------------------------|------------------------|----------------|-----------|----------------------------|----------------|--------|----------|---------|--|-----------------------|-----------|-----------|
| | 9 A.M. | | 9 P.M. | | Screen. | | Black Bulb Max. in Sun. 9 P.M. | Min. on Grass. 9 A.M. | 9 A.M. | | 9 P.M. | | | Amount at 9 A.M. | 9 A.M. | | 9 P.M. | | Ane. monometer. 9 A.M. | 9 A.M. | | | 9 P.M. | | 9 A.M. | | | | | At 9 A.M. | At 9 P.M. |
| | Barometer. | Attached Ther. monometer | Barometer. | Attached Ther. monometer | Max. 9 P.M. | Min. 9 P.M. | | | Dry bulb. | Wet bulb. | Dry bulb. | Wet bulb. | | | Direction. | Force. Scale of 0-12. | Direction. | Force. Scale of 0-12. | | Species and Direction. | Amount (0-10). | | Species and Direction. | Amount (0-10). | 3 ins. | 12 ins. | 48 ins. | | | | |
| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1 | 30.384 | 62 | 30.364 | 62 | 69 | 51 | 7 | 7 | 62 | 58 | 57 | 54 | | N.W. | 1 | N.W. | 3 | | 5 | | 1 | | | | | | 9 a.m. | 9 P.m. | dry fine - dry fine | 1 | |
| 2 | 30.388 | 62 | 30.300 | 64 | 70 | 54 | | | 63 | 59 | 58 | 57 | | N.W. | 1 | N.W. | 3 | | 0 | | 0 | | | | | | | | " " - " breezy. | 3 | |
| 3 | 30.184 | 61 | 30.082 | 63 | 71 | 54 | | | 64 | 59 | 67 | 55 | | N.W. | 1 | N.W. | 5 | | 0 | | 8 | | | | | | | | " " - " cold | 4 | |
| 4 | 30.044 | 59 | 30.044 | 60 | 67 | 49 | | | 59 | 53 | 52 | 49 | | N | 3 | N. | 4 | | 0 | | 9 | | | | | | | | " " - " heavy showers | 5 | |
| 5 | 29.924 | 58 | 29.820 | 60 | 60 | 50 | | | 56 | 52 | 52 | 50 | 0.4 | N | 3 | N.W. | 5 | | 8 | | 6 | | | | | | | | " " - " heavy showers | 6 | |
| 6 | 29.800 | 62 | 29.830 | 59 | 63 | 43 | | | 59 | 54 | 51 | 50 | 0.2 | N | 1 | N.E. | 1 | | 6 | | 10 | | | | | | | | " " - " heavy showers | 7 | |
| 7 | 30.022 | 58 | 30.030 | 62 | 64 | 42 | | | 55 | 49 | 52 | 49 | 0.2 | N | 3 | N.E. | 1 | | 5 | | 10 | | | | | | | | " " - " heavy showers | 8 | |
| 8 | 30.080 | 61 | 30.000 | 61 | 64 | 50 | | | 59 | 52 | 50 | 48 | 0.2 | | | | | | 0 | | 10 | | | | | | | | " " - " heavy showers | 9 | |
| 9 | 29.942 | 62 | 29.924 | 62 | 58 | 50 | | | 54 | 53 | 53 | 52 | 0.7 | S. | 1 | | | | 10 | | 10 | | | | | | | | " " - " heavy showers | 10 | |
| 10 | 29.822 | 60 | 29.835 | 59 | 58 | 51 | | | 54 | 52 | 54 | 52 | 0.1 | N. | 1 | N.W. | 2 | | 10 | | 10 | | | | | | | | " " - " heavy showers | 11 | |
| 11 | 29.920 | 60 | 29.944 | 62 | 67 | 54 | | | 57 | 50 | 56 | 55 | | N. | 3 | | | | 5 | | 10 | | | | | | | | " " - " heavy showers | 12 | |
| 12 | 29.932 | 61 | 29.896 | 62 | 66 | 55 | | | 58 | 56 | 55 | 54 | | | | | | | 10 | | 10 | | | | | | | | " " - " heavy showers | 13 | |
| 13 | 29.896 | 62 | 29.884 | 64 | 65 | 54 | | | 58 | 57 | 58 | 57 | 0.2 | | | | | | 10 | | 10 | | | | | | | | " " - " heavy showers | 14 | |
| 14 | 29.854 | 62 | 29.920 | 62 | 64 | 51 | | | 59 | 57 | 55 | 54 | | N. | 1 | N.W. | 2 | | 8 | | 0 | | | | | | | | " " - " heavy showers | 15 | |
| 15 | 29.978 | 63 | 29.983 | 63 | 73 | 51 | | | 62 | 59 | 56 | 53 | | | | | | | 5 | | 6 | | | | | | | | " " - " heavy showers | 16 | |
| 16 | 29.930 | 61 | 29.825 | 62 | 63 | 54 | | | 55 | 53 | 56 | 55 | 0.5 | | | | | | 10 | | 10 | | | | | | | | " " - " heavy showers | 17 | |
| 17 | 29.854 | 60 | 29.862 | 60 | 59 | 53 | | | 53 | 54 | 54 | 54 | 0.2 | N. | 2 | N. | 2 | | 10 | | 10 | | | | | | | | " " - " heavy showers | 18 | |
| 18 | 29.982 | 60 | 30.084 | 59 | 61 | 52 | | | 57 | 54 | 52 | 50 | 0.1 | N.W. | 3 | N.W. | 1 | | 7 | | 10 | | | | | | | | " " - " heavy showers | 19 | |
| 19 | 30.058 | 60 | 30.124 | 58 | 64 | 51 | | | 56 | 53 | 51 | 48 | | N. | 1 | N. | 2 | | 8 | | 7 | | | | | | | | " " - " heavy showers | 20 | |
| 20 | 30.138 | 59 | 30.132 | 58 | 62 | 51 | | | 58 | 52 | 52 | 50 | 0.7 | N.W. | 5 | N.W. | 1 | | 9 | | 9 | | | | | | | | " " - " heavy showers | 21 | |
| 21 | 30.050 | 61 | 30.050 | 59 | 55 | 46 | | | 53 | 52 | 53 | 52 | 0.1 | | | | | | 10 | | 10 | | | | | | | | " " - " heavy showers | 22 | |
| 22 | 30.201 | 60 | 30.254 | 63 | 71 | 49 | | | 58 | 53 | 51 | 50 | | | | | | | 5 | | 10 | | | | | | | | " " - " heavy showers | 23 | |
| 23 | 30.206 | 67 | 30.206 | 64 | 78 | 49 | | | 61 | 55 | 55 | 51 | | N. | 1 | E. | 2 | | 0 | | 0 | | | | | | | | " " - " heavy showers | 24 | |
| 24 | 30.204 | 64 | 30.266 | 63 | 68 | 54 | | | 58 | 54 | 56 | 54 | | E. | 2 | E. | 2 | | 0 | | 10 | | | | | | | | " " - " heavy showers | 25 | |
| 25 | 30.274 | 63 | 30.252 | 66 | 71 | 51 | | | 57 | 54 | 57 | 52 | | E. | 3 | E. | 1 | | 10 | | 0 | | | | | | | | " " - " heavy showers | 26 | |
| 26 | 30.264 | 64 | 30.254 | 68 | 76 | 50 | | | 63 | 56 | 58 | 56 | | E. | 2 | E. | 1 | | 0 | | 0 | | | | | | | | " " - " heavy showers | 27 | |
| 27 | 30.284 | 66 | 30.252 | 62 | 73 | 50 | | | 60 | 57 | 56 | 54 | | E. | 3 | N.W. | 2 | | 0 | | 3 | | | | | | | | " " - " heavy showers | 28 | |
| 28 | 30.256 | 64 | 30.170 | 62 | 70 | 51 | | | 59 | 53 | 56 | 54 | | | | N.W. | 3 | | 0 | | 0 | | | | | | | | " " - " heavy showers | 29 | |
| 29 | 30.164 | 64 | 30.060 | 69 | 73 | 54 | | | 60 | 57 | 60 | 57 | | | | N.E. | 2 | | 8 | | 0 | | | | | | | | " " - " heavy showers | 30 | |
| 30 | 30.058 | 64 | 30.072 | 67 | 73 | 53 | | | 63 | 59 | 59 | 57 | | E. | 3 | N.W. | 2 | | 4 | | 1 | | | | | | | | " " - " heavy showers | 31 | |
| 31 | 30.152 | 66 | 30.222 | 64 | 64 | 56 | | | 59 | 57 | 57 | 55 | | E. | 3 | | | | 10 | | 10 | | | | | | | | " " - " heavy showers | 32 | |
| Sums. | 14512 | 9 | 1229 | 13 | 13 | 9 | | | 17 | 15 | 13 | 12 | | | | | | | | | | | | | | | | | | | |
| Means. | 2.282 | 5.6 | 1.751 | 7.1 | 20.2 | 3.3 | | | 26.0 | 14.5 | 14.9 | 8.8 | 1.71 | | | | | | 1.93 | | 1.99 | | | | | | | | | | |
| Instrumental Errors. | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Corrected Means. | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

| WEATHER NOTATION. | | | | | | | | | | | |
|--------------------|-------------------------|------------------------------------|---|-------------------------|--------------------|-----------------------------------|----------------------------------|---|------------|----------------|-----------------------|
| a. denotes aurora. | b. blue sky, cloudless. | bc. blue sky with detached clouds. | c. sky mainly cloudy, but with openings between the clouds. | d. completely overcast. | e. drizzling rain. | f. wet air, without rain falling. | g. fog. | h. wet fog. | i. gloomy. | l. hail. | lu. co. lunar corona. |
| m. denotes mist. | p. passing showers. | q. squally. | r. continuous rain. | so. ha. solar halo. | t. thunder. | t. s. thunder-storm. | u. ugly, threatening appearance. | v. unusual visibility of distant objects. | w. dew. | x. hoar frost. | z. dust haze. |

| BEAUFORT SCALE FOR ESTIMATING FORCE OF WIND—(0-12). | | | | | | | | | | | |
|---|--------------|------------------|------------------|--------------------|-----------------|------------------|--------------|----------------|---------------|-----------|---------------|
| 0 Calm. | 1 Light Air. | 2 Slight Breeze. | 3 Gentle Breeze. | 4 Moderate Breeze. | 5 Fresh Breeze. | 6 Strong Breeze. | 7 High Wind. | 8 Strong Gale. | 9 Whole Gale. | 10 Storm. | 11 Hurricane. |

BAROMETER.

Corrected Mean at 9 A.M., minus Correction for Temp. 30.074 29.984
 Corrected Mean at 9 P.M., minus Correction for Temp. 30.056 29.964
 Mean at Station, corrected, and at 32°, 29.974
 Correction for height, feet above Mean Sea Level, + 82
 Mean, reduced to 32°, and Sea Level, 30.056
 Highest Reading, corrected for Index error, on 2nd day, 30.388
 Lowest Do. Do., on 6th day, 29.800
 Difference, or Monthly Range, 0.588

SELF-REGISTERING THERMOMETERS.

Highest in Month, on 23rd day, 78.0
 Lowest in Month, on 7th day, 42.0
 Difference, or Monthly Range, 36.0
 Mean of all the Highest, 66.5
 Mean of all the Lowest, 51.0
 Difference, or Mean Daily Range, 15.5
 Mean Temperature of Month, $\frac{1}{2}$ (Mean Max. + Mean Min.), 58.8
 Min. on Grass, Lowest in Month, +1.4
 " " Mean, 55.2
 Black Bulb, Max. in Sun, Highest in Month, 58.8

ADDITIONAL REMARKS.

55/21
 56/31

HYGROMETER.

Dry Bulb, Mean of A.M. and P.M. Readings, 56.6
 Wet Bulb, Mean of A.M. and P.M. Readings, 53.2
 Computed Temperature of Dew-Point, 50.0
 Do. Elastic Force of Vapour, 362
 Do. Relative Humidity (Saturation = 100), 78
 RAIN fell on 12 Days; Amount in Inches, 1.71

| WIND. SUMMARY. | | | | | | | | | | | |
|----------------|---|----|----|----|---|----|---|----|-------------------|------------------|--|
| Direction. | N | NE | E | SE | S | SW | W | NW | Calm or Variable. | Mean Force 0-12. | |
| A.M. | 4 | 0 | 6 | 0 | 1 | 0 | 6 | 5 | 9 | | |
| P.M. | 3 | 3 | 5 | 0 | 0 | 0 | 3 | 9 | 8 | | |
| Sum. | 7 | 3 | 11 | 0 | 1 | 0 | 9 | 14 | 17 | | |

* If Observations are taken at 9 A.M. only, the reading of the Maximum thermometer must be entered to the previous day.
 † Rain to be measured at 9 A.M. and the amount entered to the previous day.

R = 8

WEATHER SUMMARY.

Number of Days of Precipitation, ...
 Snow, 0
 Hail, 0
 Thunder, 0
 Clear Sky, 5
 Overcast, 10
 Fog, 0
 Ground Frost, 0
 Gale, 0

INSTRUMENTS IN USE.

Barometer, No.
 Dry Bulb, No.
 Wet Bulb, No.
 Maximum, No.
 Minimum, No.
 Solar Radiation, No.
 Grass Min., No.
 Sun Recorder, No.
 1-foot Therm., No.
 4-foot Therm., No.

(Signed)

Rotbury
July 1913

THE SECRETARY

SCOTTISH METEOROLOGICAL SOCIETY

122 GEORGE STREET

EDINBURGH

BOOK POST



SCOTTISH METEOROLOGICAL SOCIETY

SCOTTISH METEOROLOGICAL SOCIETY.

OBSERVATIONS taken at Glenburn Hydro, County of But, During the MONTH of Aug 1913.
Lat. 55° 49' 30" N Long. 5° 43' 11" W Height of Cistern of the Barometer above Mean Sea Level 76 feet, above Ground 3 1/2 feet. Diameter of Rain Gauge 5 ins.
Height of Gauge above Mean Sea Level 86 feet. Height of Rim of Gauge above Ground 12 ins.

| Date. | BAROMETER. | | | | *SELF-REGISTERING THERMOMETERS. | | | | HYGROMETER. | | | | +RAIN. | WIND. | | | | CLOUDS. | | | | SUNSHINE. Hours. | THERMOMETERS under Ground. | | | WEATHER. | | GENERAL REMARKS. Occurrence of Snow, Hail, Thunder, Lightning, Fog, Gales, Meteors, Auroras, Remarkable Depression or Elevation of Barometer, etc. Mention the hour at which Storms, including Thunder and Lightning, began and ended. | Date. | | |
|--|------------|-----------------------|------------|-----------------------|---------------------------------|-------------|--------------------------------|-----------------------|-------------|-----------|-----------|------------------|--------|------------|-----------------------|------------|-----------------------|----------------|------------------------|----------------|------------------------|---------------------|----------------------------|----------------|---------|-----------|-----------|--|--------------------------------------|---------|--|
| | 9 A.M. | | 9 P.M. | | Screen. | | Black Bulb Max. in Sun. 9 P.M. | Min. on Grass. 9 A.M. | 9 A.M. | | 9 P.M. | | | 9 A.M. | | 9 P.M. | | 9 A.M. | | 9 P.M. | | | 9 A.M. | | | At 9 A.M. | At 9 P.M. | | | | |
| | Barometer. | Attached Thermometer. | Barometer. | Attached Thermometer. | Max. 9 P.M. | Min. 9 P.M. | | | Dry bulb. | Wet bulb. | Dry bulb. | Wet bulb. | | Direction. | Force, Scale of 0-12. | Direction. | Force, Scale of 0-12. | Amount (0-10). | Species and Direction. | Amount (0-10). | Species and Direction. | | Amount (0-10). | 3 ins. | 12 ins. | | | | | 48 ins. | |
| | inches. | ° | inches. | ° | ° | ° | ° | ° | ° | ° | ° | ° | | ° | inches. | ° | ° | ° | ° | ° | ° | | ° | ° | ° | ° | ° | | | | |
| 1 | 30.272 | 65 | 30.280 | 64 | 67 | 48 | 7 | | 57 | 55 | 59 | 58 | - | - | - | SE | 1 | + | + | 10 | + | 0 | + | 7 | 7 | 53.8 | | | dull foggy - dry fine | 1 | |
| 2 | 30.250 | 62 | 30.280 | 65 | 74 | 57 | X | | 58 | 56 | 61 | 60 | - | - | - | - | - | - | - | 5 | - | 10 | - | 7 | 7 | 56 | | | " " - dull like R. misty | 2 | |
| 3 | 30.296 | 62 | 30.204 | 63 | 71 | 47 | | | 61 | 59 | 56 | 52 | - | NE | 3 | N. | 4 | - | - | 5 | - | 0 | - | 7 | 7 | 56 | | | dry breezy - dry colder | 3 | |
| 4 | 30.250 | 63 | 30.162 | 60 | 64 | 49 | | | 58 | 52 | 53 | 49 | - | NE | 3 | - | - | - | - | 6 | - | 2 | - | 7 | 7 | 56 | | | " hazy - " clear | 4 | |
| 5 | 30.066 | 60 | 30.026 | 60 | 61 | 46 | | | 55 | 51 | 53 | 52 | 01 | N. | 1 | N. | 1 | - | - | 9 | - | 4 | - | 7 | 7 | 56 | | | " dull - " " | 5 | |
| 6 | 30.078 | 61 | 30.080 | 58 | 65 | 45 | | | 57 | 51 | 51 | 48 | - | - | - | N.W. | 3 | - | - | 2 | - | 0 | - | 7 | 7 | 56 | | | " bright - " cold | 6 | |
| 7 | 30.034 | 60 | 30.005 | 60 | 67 | 49 | | | 59 | 52 | 53 | 50 | - | - | - | N.W. | 2 | - | - | 0 | - | 0 | - | 7 | 7 | 56 | | | " " - " clear | 7 | |
| 8 | 29.916 | 59 | 29.800 | 59 | 65 | 52 | | | 57 | 53 | 53 | 51 | 102 | N. | 3 | N.W. | 2 | - | - | 8 | - | 9 | - | 7 | 7 | 56 | | | " dull - " dull | 8 | |
| 9 | 29.748 | 59 | 29.784 | 59 | 67 | 46 | | | 57 | 54 | 53 | 50 | - | N. | 1 | N.W. | 1 | - | - | 6 | - | 1 | - | 7 | 7 | 56 | | | " bright - " clear | 9 | |
| 10 | 29.824 | 60 | 29.824 | 64 | 63 | 45 | | | 55 | 52 | 47 | 45 | - | - | - | - | - | - | - | 10 | - | 0 | - | 7 | 7 | 56 | | | " dull - " " | 10 | |
| 11 | 29.884 | 60 | 30.004 | 62 | 69 | 52 | | | 58 | 52 | 54 | 51 | - | - | - | N.W. | 1 | - | - | 2 | - | 1 | - | 7 | 7 | 55.8 | | | " bright - " " | 11 | |
| 12 | 30.142 | 63 | 30.158 | 61 | 68 | 54 | | | 60 | 54 | 54 | 52 | 107 | - | - | - | - | - | - | 2 | - | 10 | - | 7 | 7 | 55.8 | | | " hazy - " dull | 12 | |
| 13 | 29.958 | 63 | 30.036 | 61 | 62 | 52 | | | 58 | 58 | 55 | 52 | - | SE | 3 | N.W. | 4 | - | - | 10 | - | 10 | - | 7 | 7 | 56 | | | dull foggy - dull foggy some R. | 13 | |
| 14 | 30.036 | 63 | 30.056 | 62 | 62 | 56 | | | 57 | 55 | 56 | 56 | 103 | - | - | - | - | - | - | 10 | - | 10 | - | 7 | 7 | 56 | | | " damp - " fine | 14 | |
| 15 | 30.082 | 62 | 30.064 | 62 | 64 | 53 | X | | 58 | 58 | 61 | 61 | 104 | - | - | - | - | - | - | 10 | - | 10 | - | 7 | 7 | 56 | | | damp & foggy - slight showers | 15 | |
| 16 | 30.082 | 67 | 30.168 | 62 | 62 | 48 | | | 62 | 62 | 53 | 51 | - | - | - | - | - | - | - | 10 | - | 0 | - | 7 | 7 | 56 | | | " " - dry fine | 16 | |
| 17 | 30.294 | 63 | 30.354 | 66 | 69 | 48 | | | 57 | 56 | 57 | 54 | - | NE | 1 | SE | 2 | - | - | 10 | - | 10 | - | 7 | 7 | 56 | | | dry dull - " " | 17 | |
| 18 | 30.354 | 63 | 30.274 | 63 | 68 | 46 | | | 59 | 54 | 53 | 51 | - | E. | 1 | E. | 1 | - | - | 2 | - | 0 | - | 7 | 7 | 56 | | | very dry - " " | 18 | |
| 19 | 30.196 | 62 | 30.138 | 62 | 67 | 45 | | | 61 | 55 | 53 | 50 | - | - | - | - | - | - | - | 0 | - | 10 | - | 7 | 7 | 56 | | | " " - " " | 19 | |
| 20 | 30.120 | 62 | 30.108 | 64 | 72 | 58 | | | 59 | 55 | 56 | 53 | 134 | - | - | W. | 1 | - | - | 0 | - | 8 | - | 7 | 7 | 56 | | | " " - " " | 20 | |
| 21 | 29.926 | 60 | 29.728 | 67 | 64 | 56 | | | 59 | 59 | 62 | 62 | 161 | SE | 2 | SE | 3 | - | - | 10 | - | 10 | - | 7 | 7 | 56 | | | Wet from early morning - wet all day | 21 | |
| 22 | 29.694 | 62 | 29.664 | 60 | 63 | 53 | | | 60 | 56 | 53 | 51 | 115 | W. | 4 | W. | 3 | - | - | 4 | - | 10 | - | 7 | 7 | 56 | | | breezy showery - some R. & hail | 22 | |
| 23 | 29.644 | 61 | 29.584 | 58 | 63 | 52 | | | 56 | 55 | 52 | 52 | 126 | W. | 3 | W. | 4 | - | - | 5 | - | 10 | - | 7 | 7 | 56 | | | " " - " " | 23 | |
| 24 | 29.824 | 60 | 30.006 | 61 | 64 | 52 | | | 57 | 56 | 58 | 54 | 101 | W. | 2 | W. | 2 | - | - | 7 | - | 10 | - | 7 | 7 | 56 | | | dry fine - fine cold | 24 | |
| 25 | 30.062 | 61 | 30.182 | 62 | 62 | 56 | X | | 59 | 56 | 58 | 58 | 145 | W. | 2 | - | - | - | - | 10 | - | 10 | - | 7 | 7 | 56 | | | " dull - Wet from 11 A.M. | 25 | |
| 26 | 30.278 | 63 | 30.304 | 62 | 68 | 54 | | | 63 | 62 | 52 | 52 | 103 | W. | 2 | S. | 2 | - | - | 3 | - | 0 | - | 7 | 7 | 56 | | | damp - fine | 26 | |
| 27 | 30.812 | 63 | 30.214 | 63 | 68 | 46 | | | 58 | 56 | 57 | 56 | - | N | 1 | - | - | - | - | 9 | - | 0 | - | 7 | 7 | 56 | | | " dull - " " | 27 | |
| 28 | 30.046 | 62 | 30.000 | 63 | 68 | 50 | | | 59 | 57 | 55 | 54 | - | W. | 1 | - | - | - | - | 0 | - | 1 | - | 7 | 7 | 56 | | | dry hazy - " " | 28 | |
| 29 | 29.890 | 62 | 29.806 | 66 | 70 | 48 | X | | 60 | 56 | 58 | 57 | 108 | E. | 3 | E. | 5 | - | - | 7 | - | 0 | - | 7 | 7 | 56 | | | " " - hazy dry | 29 | |
| 30 | 29.816 | 64 | 29.874 | 63 | 66 | 54 | | | 59 | 58 | 56 | 55 | 104 | - | - | - | - | - | - | 10 | - | 0 | - | 7 | 7 | 56 | | | foggy & wet - fine | 30 | |
| 31 | 30.016 | 63 | 30.064 | 63 | 61 | 55 | | | 57 | 57 | 57 | 56 | - | - | - | - | - | - | - | 10 | - | 10 | - | 7 | 7 | 56 | | | " " - dull misty | 31 | |
| Sums. | 1217.13 | 8 | 913.13 | 10 | 14 | 15 | | | 19 | 15 | 13 | 10 | 5 | | | | | | | | | | | | | | | | | | |
| Means. | 30.046 | 62.0 | 30.039 | 62.1 | 65.9 | 50.5 | | | 55.2 | 55.3 | 55.1 | 53.3 | | | | | | | | 1.92 | | 1.56 | | | | | | | | | |
| Instrumental Errors. | | | | | | | | | 58.4 | -5 | -5 | -5 | | | | | | | | | | | | | | | | | | | |
| Corrected Means. | | | | | | | | | 58.4 | 55.0 | 55.1 | 52.8 | | | | | | | | | | | | | | | | | | | |
| BEAUFORT SCALE FOR ESTIMATING FORCE OF WIND--(0-12). | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| FORCE. | | | | | | | | | | | | FORCE. | | | | | | | | | | | | FORCE. | | | | | | | |
| 0 Calm. | | | | | | | | | | | | 5 Fresh Breeze. | | | | | | | | | | | | 9 Strong Gale. | | | | | | | |
| 1 Light Air. | | | | | | | | | | | | 6 Strong Breeze. | | | | | | | | | | | | 10 Whole Gale. | | | | | | | |
| 2 Slight Breeze. | | | | | | | | | | | | 7 High Wind. | | | | | | | | | | | | 11 Storm. | | | | | | | |
| 3 Gentle Breeze. | | | | | | | | | | | | 8 Gale. | | | | | | | | | | | | 12 Hurricane. | | | | | | | |

BAROMETER.

Corrected Mean at 9 A.M., minus Correction for Temp. 30.046 9.1 9.55
Corrected Mean at 9 P.M., minus Correction for Temp. 30.039 9.1 9.48
Mean at Station, corrected, and at 32°, 9.52
Correction for height, feet above Mean Sea Level, 82
Mean, reduced to 32°, and Sea Level, 30.034
Highest Reading, corrected for Index error, on 7th, 30.354
Lowest Do. Do. on 23rd, 29.584
Difference, or Monthly Range, 0.770

SELF-REGISTERING THERMOMETERS.

Highest in Month, on 2nd, 74.0
Lowest in Month, on 6th, 45.0
Difference, or Monthly Range, 29.0
Mean of all the Highest, 65.9
Mean of all the Lowest, 50.5
Difference, or Mean Daily Range, 15.4
Mean Temperature of Month, $\frac{1}{2}$ (Mean Max. + Mean Min.), 58.2
Min. on Grass, Lowest in Month, +1.5
" " Mean, 57.2
Black Bulb, Max. in Sun, Highest in Month, 61.5

ADDITIONAL REMARKS.

HYGROMETER.

Dry Bulb, Mean of A.M. and P.M. Readings, 55.1 56.8
Wet Bulb, Mean of A.M. and P.M. Readings, 53.9 53.9
Computed Temperature of Dew-Point, 37.7
Do. Elastic Force of Vapour, 81
Do. Relative Humidity (Saturation = 100), 81
RAIN fell on 14 Days; Amount in Inches, 2.14

| WIND. | | SUMMARY. | | | | | | | | | |
|------------|---|----------|---|----|---|----|----|----|-------------------|------------------|--|
| Direction. | N | NE | E | SE | S | SW | W | NW | Calm or Variable. | Mean Force 0-12. | |
| A.M. | 4 | 3 | 2 | 0 | 0 | 1 | 7 | 0 | 14 | | |
| P.M. | 3 | 0 | 2 | 1 | 1 | 2 | 4 | 5 | 13 | | |
| Sum. | 7 | 3 | 4 | 1 | 1 | 3 | 11 | 5 | 27 | | |

* If Observations are taken at 9 A.M. only, the reading of the Maximum thermometer must be entered to the previous day.
† Rain to be measured at 9 A.M. and the amount entered to the previous day.

WEATHER SUMMARY.

Number of Days of Precipitation, 0
Snow, 0
Hail, 0
Thunder, 0
Clear Sky, 5
Overcast, 9
Fog, 3
Ground Frost, 0
Gale, 0

INSTRUMENTS IN USE.

Barometer, No. 5
Dry Bulb, No. 5
Wet Bulb, No. 5
Maximum, No. 5
Minimum, No. 5
Solar Radiation, No. 5
Grass Min., No. 5
Sun Recorder, No. 5
1-foot Therm., No. 5
4-foot Therm., No. 5

Observations made and Return verified by

(Signed)

Rotary
August 1913

THE SECRETARY

SCOTTISH METEOROLOGICAL SOCIETY

122 GEORGE STREET

EDINBURGH

BOOK POST



SCOTTISH METEOROLOGICAL SOCIETY

SCOTTISH METEOROLOGICAL SOCIETY.

OBSERVATIONS taken at Glenbura Appleton, County of Bute, During the MONTH of September 1913.
 Lat. 55° 49' 50" N Long. 5° 23' 17" W Height of Cistern of the Barometer above Mean Sea Level 76 feet, above Ground 34 feet. Diameter of Rain Gauge 5 ins.
 Height of Gauge above Mean Sea Level 86 feet. Height of Rim of Gauge above Ground 12 ins.

| Date. | BAROMETER. | | | | *SELF-REGISTERING THERMOMETERS. | | | | HYGROMETER. | | | | †RAIN. | WIND. | | | | CLOUDS. | | | | SUNSHINE. | THERMOMETERS under Ground. | | | WEATHER. | | GENERAL REMARKS. Occurrence of Snow, Hail, Thunder, Lightning, Fog, Gales, Meteors, Auroras, Remarkable Depression or Elevation of Barometer, etc. Mention the hour at which Storms, including Thunder and Lightning, began and ended. | Date. | | |
|----------------------|------------|----------------------|------------|----------------------|---------------------------------|-------------|--------------------------------|-----------------------|-------------|-----------|-----------|-----------|--------|------------------|------------|-----------------------|------------|-----------------------|------------------------|------------------------|----------------|-----------|----------------------------|----------------|---------------------|----------|---------|--|-------|-----------|-----------|
| | 9 A.M. | | 9 P.M. | | Screen. | | Black Bulb Max. in Sun. 9 P.M. | Min. on Grass. 9 A.M. | 9 A.M. | | 9 P.M. | | | Amount at 9 A.M. | 9 A.M. | | 9 P.M. | | Ane. monometer. 9 A.M. | 9 A.M. | | | 9 P.M. | | 9 A.M. | | | | | At 9 A.M. | At 9 P.M. |
| | Barometer. | Attached Ther. meter | Barometer. | Attached Ther. meter | Max. 9 P.M. | Min. 9 P.M. | | | Dry bulb. | Wet bulb. | Dry bulb. | Wet bulb. | | | Direction. | Force. Scale of 0-12. | Direction. | Force. Scale of 0-12. | | Species and Direction. | Amount (0-10). | | Species and Direction. | Amount (0-10). | 3 ins. | 12 ins. | 48 ins. | | | | |
| | inches. | ° | inches. | ° | ° | ° | ° | ° | ° | ° | ° | ° | | inches. | ° | ° | ° | ° | ° | ° | ° | | ° | ° | ° | ° | ° | | | ° | ° |
| 1 | 30.120 | 61 | 30.136 | 60 | 60 | 50 | 49 | 53 | 50 | 53 | 50 | - | NE | 2 | E | 2 | 7 | 8 | 10 | 7 | 8 | 57 | 54 | dry, dull. | hazy fine. | 1 | | | | | |
| 2 | 30.196 | 58 | 30.210 | 62 | 63 | 47 | 45 | 51 | 47 | 52 | 47 | - | ENE | 3 | E | 4 | | 8 | 10 | | 8 | 58 | 66 | breezy | " | 2 | | | | | |
| 3 | 30.264 | 59 | 30.238 | 60 | 63 | 47 | 45 | 52 | 48 | 56 | 54 | - | ENE | 3 | E | 4 | | 8 | 8 | | 8 | 54 | 56 | " | " | 3 | | | | | |
| 4 | 30.256 | 60 | 30.250 | 55 | 60 | 51 | 49 | 55 | 52 | 58 | 52 | - | E | 4 | ENE | 5 | | 3 | 9 | | 7 | 53.8 | 57 | dry | " | 4 | | | | | |
| 5 | 30.282 | 60 | 30.360 | 60 | 63 | 51 | 49 | 56 | 51 | 52 | 50 | - | E | 4 | NE | 3 | | 3 | 0 | | 7 | 53.8 | 57 | bright | " | 5 | | | | | |
| 6 | 30.440 | 60 | 30.500 | 63 | 61 | 47 | 42 | 53 | 52 | 47 | 45 | - | E | 3 | - | - | | 5 | 0 | | 56 | 53.8 | 56 | dry hazy | " | 6 | | | | | |
| 7 | 30.468 | 60 | 30.284 | 61 | 62 | 45 | 39 | 53 | 49 | 49 | 48 | 107 | E | 2 | S. | 1 | | 0 | 0 | | 65 | 55.8 | 55 | " bright | " | 7 | | | | | |
| 8 | 30.284 | 61 | 30.250 | 64 | 60 | 46 | 44 | 54 | 54 | 52 | 51 | 115 | - | - | - | - | | 10 | 10 | | 55 | 55 | 55 | dull & wet | Wet A.M. fine after | 8 | | | | | |
| 9 | 30.208 | 60 | 30.278 | 63 | 63 | 46 | 45 | 54 | 51 | 51 | 48 | - | - | N. | 5 | | 0 | 0 | | 55 | 55 | 55 | fine & bright | dry breezy | 9 | | | | | | |
| 10 | 30.324 | 59 | 30.176 | 65 | 61 | 45 | 41 | 55 | 51 | 55 | 55 | 04 | NNW | 2 | W. | 2 | | 5 | 10 | | 55 | 55 | 55 | " | " | 10 | | | | | |
| 11 | 30.024 | 62 | 29.776 | 68 | 59 | 52 | 48 | 56 | 54 | 56 | 54 | 25 | W. | 3 | - | - | | 1 | 10 | | 56 | 55 | 55 | " | " | 11 | | | | | |
| 12 | 29.508 | 62 | 29.544 | 62 | 60 | 45 | 42 | 53 | 52 | 46 | 45 | 11 | WSW | 2 | - | - | | 10 | 2 | | 56 | 55 | 55 | dull & damp | R. at A.M. fine | 12 | | | | | |
| 13 | 29.622 | 60 | 29.450 | 58 | 51 | 44 | 41 | 49 | 47 | 46 | 45 | 53 | E | 2 | NE | 3 | | 10 | 10 | | 65 | 55 | 55 | " & wet | " | 13 | | | | | |
| 14 | 29.204 | 59 | 29.280 | 65 | 60 | 45 | 45 | 53 | 51 | 52 | 48 | 109 | E | 2 | E | 3 | | 10 | 8 | | 53 | 54.8 | 54.8 | " foggy | Very wet from 2 P. | 14 | | | | | |
| 15 | 29.490 | 58 | 29.650 | 62 | 58 | 47 | 42 | 53 | 49 | 52 | 50 | - | E | 4 | E | 5 | | 5 | 10 | | 54 | 54.8 | 54.8 | " | " | 15 | | | | | |
| 16 | 29.680 | 57 | 29.692 | 66 | 53 | 44 | 44 | 50 | 49 | 44 | 44 | 42 | - | - | E | 2 | | 10 | 1 | | 54 | 54.8 | 54.8 | breezy | " | 16 | | | | | |
| 17 | 29.718 | 57 | 29.820 | 66 | 61 | 42 | 37 | 49 | 48 | 47 | 46 | - | E | 2 | - | - | | 10 | 0 | | 53 | 54 | 54 | dull hazy | Wet all day | 17 | | | | | |
| 18 | 29.874 | 58 | 29.712 | 68 | 58 | 47 | 37 | 51 | 50 | 51 | 50 | - | E | 2 | - | - | | 10 | 8 | | 52 | 54 | 54 | damp | damp clear | 18 | | | | | |
| 19 | 29.880 | 58 | 29.870 | 61 | 58 | 46 | 41 | 50 | 49 | 54 | 52 | 105 | E | 3 | E | 3 | | 6 | 10 | | 53 | 53.8 | 53.8 | dull foggy | fine | 19 | | | | | |
| 20 | 29.924 | 58 | 30.020 | 59 | 56 | 51 | 49 | 53 | 50 | 52 | 51 | - | E | 3 | - | - | | 10 | 10 | | 53 | 53.8 | 53.8 | " | " | 20 | | | | | |
| 21 | 30.116 | 58 | 30.204 | 61 | 58 | 45 | 42 | 52 | 52 | 53 | 52 | - | - | S. | 1 | | | 6 | 0 | | 53 | 53.8 | 53.8 | " & damp | fine | 21 | | | | | |
| 22 | 30.080 | 57 | 29.944 | 59 | 59 | 42 | 38 | 51 | 50 | 53 | 51 | 116 | - | - | - | - | | 3 | 10 | | 53 | 53.8 | 53.8 | " hazy | " | 22 | | | | | |
| 23 | 29.809 | 58 | 29.750 | 61 | 56 | 52 | 49 | 54 | 52 | 58 | 55 | 35 | E | 1 | - | - | | 10 | 10 | | 53 | 53 | 53 | fine foggy | dull & damp | 23 | | | | | |
| 24 | 29.688 | 62 | 29.714 | 66 | 65 | 55 | 52 | 58 | 55 | 60 | 57 | 104 | ESE | 1 | SE | 2 | | 10 | 10 | | 54 | 53 | 53 | Wet & " | Wet all day | 24 | | | | | |
| 25 | 29.738 | 66 | 29.804 | 66 | 61 | 54 | 53 | 58 | 54 | 58 | 56 | 109 | S. | 3 | W. | 3 | | 10 | 10 | | 53 | 53 | 53 | hazy & damp | fine very mild | 25 | | | | | |
| 26 | 29.938 | 63 | 29.722 | 68 | 63 | 52 | 48 | 57 | 57 | 53 | 54 | - | S. | 1 | SE | 1 | | 8 | 0 | | 55 | 53 | 53 | dull showery | showery | 26 | | | | | |
| 27 | 29.902 | 65 | 29.906 | 67 | 61 | 50 | 48 | 58 | 56 | 60 | 59 | 24 | ESE | 1 | SE | 1 | | 10 | 10 | | 55 | 53 | 53 | " & damp | fine | 27 | | | | | |
| 28 | 29.764 | 64 | 30.054 | 69 | 64 | 55 | 54 | 59 | 58 | 60 | 59 | - | E | 2 | - | - | | 10 | 10 | | 55 | 53 | 53 | " & foggy | Wet from 11 A. | 28 | | | | | |
| 29 | 30.138 | 62 | 30.138 | 64 | 61 | 53 | 48 | 54 | 53 | 53 | 51 | - | E | 4 | E | 5 | | 10 | 0 | | 56 | 53.5 | 53.5 | " | " | 29 | | | | | |
| 30 | 30.150 | 62 | 30.154 | 60 | 60 | 50 | 44 | 55 | 52 | 53 | 51 | - | E | 4 | ENE | 5 | | 3 | 0 | | 55 | 53.5 | 53.5 | dry hazy | " | 30 | | | | | |
| 31 | | | | | | | | | | | | | | | | | | | | | | | | | | | 31 | | | | |
| Sums. | 14 13 12 | 13 | 14 13 8 | 13 | 9 | 41 | | 16 | 13 | 12 | 11 | 4 | 6 | | | | | 102 | | | | 14 | 13 9 | | | | | | | | |
| Means. | 29.773 | 60.2 | 29.977 | 63.0 | 59.9 | 48.2 | | 45.3 | 53.8 | 51.5 | 52.7 | 50.9 | | 2.1 | | 2.00 | | 32 | | 62 | | 54.9 | 54.4 | | | | | | | | |
| Instrumental Errors. | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Corrected Means. | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

a. denotes aurora.

b. " blue sky, cloudless.

bc. " blue sky with detached clouds.

c. " sky mainly cloudy, but with openings between the clouds.

d. " completely overcast.

e. " drizzling rain.

f. " wet air, without rain falling.

fc. " fog.

g. " wet fog.

h. " gloomy.

i. " hail.

l. " lightning.

lu. co. " lunar corona.

lu. ha. " lunar halo.

m. denotes mist.

p. " passing showers.

q. " squally.

r. " continuous rain.

s. " snow.

so. ha. " solar halo.

t. " thunder.

ts. " thunder-storm.

u. " ugly, threatening appearance.

v. " unusual visibility of distant objects.

w. " dew.

x. " hoar frost.

z. " dust haze.

BEAUFORT SCALE FOR ESTIMATING FORCE OF WIND—(0-12).

FORCE.

0 Calm.

1 Light Air.

2 Slight Breeze.

3 Gentle Breeze.

4 Moderate Breeze.

5 Fresh Breeze.

6 Strong Breeze.

7 High Wind.

8 Gale.

9 Strong Gale.

10 Whole Gale.

11 Storm.

12 Hurricane.

BAROMETER.

| | |
|--|--------|
| Corrected Mean at 9 A.M., minus Correction for Temp. <u>29.773</u> | 29.887 |
| Corrected Mean at 9 P.M., minus Correction for Temp. <u>29.977</u> | 29.885 |
| Mean at Station, corrected, and at 32', | 29.886 |
| Correction for height, feet above Mean Sea Level, + <u>83</u> | |
| Mean, reduced to 32', and Sea Level, | 29.969 |
| Highest Reading, corrected for Index error, on 6 th., | 30.500 |
| Lowest Do. Do., on 14 th., | 29.204 |
| Difference, or Monthly Range, | 1.296 |

SELF-REGISTERING THERMOMETERS.

| | |
|---|------|
| Highest in Month, on 24 th., | 65.0 |
| Lowest in Month, on 17 th., <u>22.2</u> | 42.0 |
| Difference, or Monthly Range, | 23.0 |
| Mean of all the Highest, | 59.9 |
| Mean of all the Lowest, | 48.2 |
| Difference, or Mean Daily Range, | 11.7 |
| Mean Temperature of Month, $\frac{1}{2}$ (Mean Max. + Mean Min.), | 54.6 |
| Min. on Grass, Lowest in Month, <u>17.4</u> | 37.0 |
| " " Mean, | 45.3 |
| Black Bulb, Max. in Sun, Highest in Month, | |

ADDITIONAL REMARKS.

51/13
57/25

HYGROMETER.

| | |
|--|------|
| Dry Bulb, Mean of A.M. and P.M. Readings, | 53.8 |
| Wet Bulb, Mean of A.M. and P.M. Readings, | 51.2 |
| Computed Temperature of Dew-Point, | |
| Do. Elastic Force of Vapour, | 348 |
| Do. Relative Humidity (Saturation = 100), | 85 |
| RAIN fell on <u>14</u> Days; Amount in Inches, | 2.59 |

| WIND. | | SUMMARY. | | | | | | | | | |
|------------|--|----------|----|----|----|---|----|---|----|-------------------|------------------|
| Direction. | | N | NE | E | SE | S | SW | W | NW | Calm or Variable. | Mean Force 0-12. |
| A.M. | | 0 | 1 | 19 | 0 | 2 | 0 | 3 | 0 | 5 | |
| P.M. | | 1 | 2 | 10 | 3 | 2 | 0 | 2 | 0 | 10 | |
| Sum. | | 1 | 3 | 29 | 3 | 4 | 0 | 5 | 0 | 15 | |

* If Observations are taken at 9 A.M. only, the reading of the Maximum thermometer must be entered to the previous day.

† Rain to be measured at 9 A.M. and the amount entered to the previous day.

R = 14

WEATHER SUMMARY.

| | |
|--------------------------------------|----|
| Number of Days of Precipitation, ... | |
| Snow, ... | 0 |
| Hail, ... | 0 |
| Thunder, ... | 1 |
| Clear Sky, ... | 5 |
| Overcast, ... | 12 |
| Fog, ... | 4 |
| Ground Frost, ... | 0 |
| Gale, ... | 0 |

INSTRUMENTS IN USE.

| | |
|----------------------|--|
| Barometer, No. | |
| Dry Bulb, No. | |
| Wet Bulb, No. | |
| Maximum, No. | |
| Minimum, No. | |
| Solar Radiation, No. | |
| Grass Min., No. | |
| Sun Recorder, No. | |
| 1-foot Therm., No. | |
| 4-foot Therm., No. | |

Observations made and Return verified by {
 (Signed)



THE SECRETARY

SCOTTISH METEOROLOGICAL SOCIETY

122 GEORGE STREET

EDINBURGH

BOOK POST

*Received
Sep. 1913*

SCOTTISH METEOROLOGICAL SOCIETY.

OBSERVATIONS taken at Glenburn Hydro, County of Bute, During the MONTH of October 1913.
 Lat. 55°48'N Long. 5°25'W Height of Cistern of the Barometer above Mean Sea Level 76 feet, above Ground 3 1/2 feet. Diameter of Rain Gauge 5 ins.
 Height of Gauge above Mean Sea Level 86 feet. Height of Rim of Gauge above Ground 12 ins.

| Date. | BAROMETER. | | | | * SELF-REGISTERING THERMOMETERS. | | | | HYGROMETER. | | | | +RAIN. | WIND. | | | | CLOUDS. | | | | SUNSHINE Hours. | THERMOMETERS under Ground. | | | WEATHER. | | GENERAL REMARKS. Occurrence of Snow, Hail, Thunder, Lightning, Fog, Gales, Meteors, Auroras, Remarkable Depression or Elevation of Barometer, etc. Mention the hour at which Storms, including Thunder and Lightning, began and ended. | Date. | | |
|----------------------|------------|-----------------------|------------|-----------------------|----------------------------------|-------------|--------------------------------------|--------------------------|-------------|-----------|-----------|-----------|--------|------------------|------------|-----------------------|------------|-----------------------|-----------------------|------------------------|----------------|--------------------|----------------------------|----------------|--------|----------|-------------------------------------|--|--|---|---|
| | 9 A.M. | | 9 P.M. | | Screen. | | Black Bulb Max. in Sun. 9 P.M. | Min. on Grass. 9 A.M. | 9 A.M. | | 9 P.M. | | | Amount at 9 A.M. | 9 A.M. | | 9 P.M. | | Anemometer. 9 A.M. | 9 A.M. | | | 9 P.M. | | 9 A.M. | | | | | At 9 A.M. | At 9 P.M. |
| | Barometer. | Attached Thermometer. | Barometer. | Attached Thermometer. | Max. 9 P.M. | Min. 9 P.M. | | | Dry bulb. | Wet bulb. | Dry bulb. | Wet bulb. | | | Direction. | Force. Scale of 0-12. | Direction. | Force. Scale of 0-12. | | Species and Direction. | Amount (0-10). | | Species and Direction. | Amount (0-10). | 3 ins. | 12 ins. | 48 ins. | | | | |
| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1 | 30.168 | 59 | 30.120 | 61 | 57 | 51 | + | 46 | 58 | 51 | 62 | 49 | - | E | 3 | E | 5 | + | 3 | + | 0 | + | 54 | 53.8 | | | Dull foggy - fine but dull | 1 | | | |
| 2 | 30.044 | 57 | 30.003 | 58 | 58 | 47 | | 43 | 52 | 50 | 52 | 50 | - | E | 3 | E | 3 | | 0 | | 5 | | 54 | 53.8 | | | dry breezy - dull foggy | 2 | | | |
| 3 | 30.005 | 58 | 29.946 | 59 | 59 | 50 | | 42 | 54 | 51 | 52 | 50 | 22 | E | 4 | E | 2 | | 9 | | 4 | | 53 | 53.8 | | | " " - dry | 3 | | | |
| 4 | 29.805 | 56 | 29.902 | 58 | 58 | 49 | | 43 | 50 | 49 | 51 | 50 | 08 | E | 4 | E | 4 | | 10 | | 8 | | 53 | 53.5 | | | wet " - dull stormy | 4 | | | |
| 5 | 30.022 | 56 | 30.035 | 56 | 58 | 47 | | 44 | 48 | 46 | 48 | 43 | - | E | 5 | E | 4 | | 10 | | 4 | | 53 | 53.5 | | | dull stormy - strong wind | 5 | | | |
| 6 | 30.045 | 54 | 30.045 | 54 | 53 | 44 | | 38 | 48 | 45 | 45 | 43 | - | E | 4 | E | 4 | | 2 | | 0 | | 53 | 53 | | | bright breezy - dry foggy | 6 | | | |
| 7 | 29.714 | 52 | 29.674 | 53 | 52 | 41 | | 35 | 45 | 42 | 47 | 43 | - | E | 4 | E | 4 | | 2 | | 0 | | 50 | 53 | | | hazy dry - " breezy | 7 | | | |
| 8 | 29.414 | 52 | 29.614 | 54 | 53 | 45 | | 38 | 47 | 47 | 49 | 46 | 103 | E | 5 | ENE | 4 | | 9 | | 2 | | 50 | 53 | | | strong light showers - clear breezy | 8 | | | |
| 9 | 29.888 | 52 | 29.976 | 52 | 53 | 35 | | 31 | 45 | 43 | 45 | 44 | - | - | - | S | 1 | | 8 | | 9 | | 49 | 52.8 | | | frosty - fine | 9 | | | |
| 10 | 29.982 | 53 | 29.902 | 52 | 55 | 42 | | 33 | 47 | 44 | 50 | 46 | 108 | E | 3 | E | 5 | | 6 | | 10 | | 49 | 52 | | | dry foggy - " " | 10 | | | |
| 11 | 29.870 | 53 | 29.972 | 53 | 51 | 47 | | 38 | 48 | 46 | 50 | 49 | 105 | E | 3 | - | - | | 10 | | 10 | | 48 | 52 | | | dull damp - drizzly | 11 | | | |
| 12 | 30.080 | 55 | 30.172 | 58 | 56 | 47 | | 42 | 53 | 52 | 55 | 54 | 114 | ESE | 2 | SE | 2 | | 10 | | 10 | | 49 | 52 | | | " 9 wet - wet all day | 12 | | | |
| 13 | 30.160 | 59 | 30.062 | 60 | 58 | 54 | | 48 | 55 | 56 | 56 | 55 | 1107 | S | 3 | S | 6 | | 10 | | 10 | | 50 | 51.8 | | | " 9 damp - wet stormy | 13 | | | |
| 14 | 29.970 | 60 | 29.944 | 58 | 57 | 50 | | 50 | 54 | 54 | 52 | 49 | 104 | SE | 3 | SE | 4 | | 10 | | 10 | | 51 | 51.5 | | | " 9 wet - fine | 14 | | | |
| 15 | 30.182 | 56 | 30.214 | 52 | 57 | 46 | | 44 | 51 | 49 | 48 | 47 | - | NNE | 4 | NNE | 2 | | 8 | | 10 | | 52 | 51 | | | " breezy - drizzly | 15 | | | |
| 16 | 30.184 | 55 | 30.042 | 58 | 53 | 44 | | 36 | 49 | 46 | 54 | 53 | 03 | N | 1 | SE | 4 | | 4 | | 9 | | 51 | 51.5 | | | dry calm - fine | 16 | | | |
| 17 | 29.970 | 59 | 29.920 | 59 | 57 | 53 | | 41 | 56 | 55 | 53 | 51 | - | S | 3 | SE | 3 | | 10 | | 2 | | 51 | 51.8 | | | dull damp - " " | 17 | | | |
| 18 | 29.876 | 58 | 29.808 | 60 | 56 | 49 | | 40 | 54 | 51 | 55 | 55 | 106 | S | 1 | S | 2 | | 10 | | 10 | | 52 | 51.8 | | | " dry - showery | 18 | | | |
| 19 | 29.628 | 59 | 29.366 | 60 | 58 | 53 | | 51 | 55 | 53 | 54 | 53 | 39 | S | 3 | SE | 2 | | 10 | | 10 | | 52 | 51.5 | | | " 9 damp - very wet rain ST | 19 | | | |
| 20 | 29.420 | 57 | 29.486 | 56 | 54 | 43 | | 42 | 49 | 45 | 46 | 44 | 113 | SE | 3 | SE | 2 | | 2 | | 4 | | 52 | 51.8 | | | bright breezy - fine | 20 | | | |
| 21 | 29.302 | 54 | 29.350 | 53 | 50 | 42 | | 34 | 46 | 43 | 43 | 39 | - | NSE | 3 | S | 1 | | 6 | | 0 | | 51 | 51.8 | | | dull damp - " " | 21 | | | |
| 22 | 29.642 | 52 | 29.942 | 56 | 50 | 38 | | 31 | 45 | 43 | 45 | 42 | 104 | SE | 3 | SE | 1 | | 2 | | 0 | | 50 | 51.8 | | | bright dry - " " | 22 | | | |
| 23 | 30.206 | 50 | 30.224 | 58 | 45 | 34 | | 34 | 41 | 39 | 34 | 32 | - | N | 3 | N | 1 | | 8 | | 0 | | 48 | 51.8 | | | dry dull - fine frosty air | 23 | | | |
| 24 | 30.004 | 52 | 29.988 | 58 | 49 | 34 | | 28 | 44 | 40 | 48 | 46 | 114 | N | 4 | N | 5 | | 10 | | 10 | | 47 | 51.5 | | | damp breezy - afternoon fair | 24 | | | |
| 25 | 29.980 | 55 | 29.820 | 55 | 52 | 40 | | 41 | 49 | 48 | 41 | 41 | 105 | - | - | SE | 1 | | 10 | | 0 | | 47 | 51 | | | mostly 9 wet - fine | 25 | | | |
| 26 | 29.540 | 54 | 29.344 | 57 | 53 | 40 | | 33 | 47 | 45 | 52 | 51 | 26 | NE | 4 | S | 2 | | 10 | | 4 | | 47 | 51 | | | " " - damp | 26 | | | |
| 27 | 29.382 | 56 | 29.300 | 58 | 55 | 51 | | 45 | 53 | 52 | 53 | 51 | 22 | S | 2 | SE | 2 | | 10 | | 10 | | 47 | 50.5 | | | dull 9 wet - afternoon showery | 27 | | | |
| 28 | 29.245 | 59 | 29.174 | 65 | 56 | 51 | | 44 | 53 | 50 | 53 | 51 | 115 | N | 2 | E | 3 | | 3 | | 10 | | 48 | 50.5 | | | " 9 damp - damp milder | 28 | | | |
| 29 | 29.118 | 59 | 28.934 | 64 | 55 | 47 | | 37 | 50 | 48 | 53 | 51 | 113 | E | 3 | SE | 4 | | 3 | | 9 | | 49 | 50 | | | hazy - some showers | 29 | | | |
| 30 | 29.050 | 59 | 29.306 | 62 | 53 | 47 | | 42 | 51 | 50 | 48 | 46 | 104 | SE | 3 | S | 2 | | 10 | | 8 | | 49 | 50 | | | dull 9 wet - fine | 30 | | | |
| 31 | 29.532 | 56 | 29.639 | 57 | 51 | 45 | | 38 | 47 | 44 | 47 | 43 | 102 | N | 3 | NNE | 2 | | 2 | | 7 | | 49 | 50 | | | bright breezy - " " | 31 | | | |
| Sums. | 1314 10 | 16 | 16 11 | 15 | 15 | 13 | | 12 | 15 | 12 | 13 | 11 | 9 | | | | | | | | | | 14 | 5 12 | | | | | WEATHER NOTATION. | | |
| Means. | 29.789 | 55.7 | 29.776 | 57.3 | 54.2 | 45.5 | | 39.8 | 49.8 | 47.6 | 49.4 | 47.3 | | 2.9 | 2.8 | | | | 7.1 | 6.1 | | | 50.3 | 51.9 | | | | | a. denotes aurora. b. " blue sky, cloudless. c. " blue sky with detached clouds. d. " sky mainly cloudy, but with openings between the clouds. e. " completely overcast. f. " drizzling rain. g. " wet air, without rain falling. h. " fog. i. " wet fog. j. " gloomy. k. " hail. l. " lightning. m. " lunar corona. n. " lunar halo. | | |
| Instrumental Errors. | | | | | | | | | | | | | | | | | | | | | | | | | | | | | m. denotes mist. p. " passing showers. q. " squally. r. " continuous rain. s. " snow. so. " solar halo. t. " thunder. u. " thunder-storm. v. " ugly, threatening appearance. w. " unusual visibility of distant objects. x. " dew. y. " hoar frost. z. " dust haze. | | |
| Corrected Means. | 29.789 | | 29.776 | | | | | | 302/85 | 300/86 | | | | | | | | | | | | | | | | | | | | BEAUFORT SCALE FOR ESTIMATING FORCE OF WIND—(0-12). | |
| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | FORCE. 0 Calm. 1 Light Air. 2 Slight Breeze. 3 Gentle Breeze. 4 Moderate Breeze. |
| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | FORCE. 5 Fresh Breeze. 6 Strong Breeze. 7 High Wind. 8 Gale. |
| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | FORCE. 9 Strong Gale. 10 Whole Gale. 11 Storm. 12 Hurricane. |

| BAROMETER. | | | |
|--|---|-----------|---------------|
| Corrected Mean at 9 A.M., minus Correction for Temp. <u>29.789</u> <u>0.73</u> | | | <u>29.716</u> |
| Corrected Mean at 9 P.M., minus Correction for Temp. <u>29.776</u> <u>0.77</u> | | | <u>29.699</u> |
| Mean at Station, corrected, and at 32°, | | | <u>29.708</u> |
| Correction for height, feet above Mean Sea Level, ... | + | <u>84</u> | |
| Mean, reduced to 32°, and Sea Level, | | | <u>29.702</u> |
| Highest Reading, corrected for Index error, on 23 rd , | | | <u>30.224</u> |
| Lowest Do. Do., on 29 th , | | | <u>28.934</u> |
| Difference, or Monthly Range, | | | <u>1.290</u> |

| SELF-REGISTERING THERMOMETERS. | | | |
|---|--|--|-------------|
| Highest in Month, on 3 rd , | | | <u>59.0</u> |
| Lowest in Month, on 23 rd , 24 th , | | | <u>34.0</u> |
| Difference, or Monthly Range, | | | <u>25.0</u> |
| Mean of all the Highest, | | | <u>54.2</u> |
| Mean of all the Lowest, | | | <u>45.5</u> |
| Difference, or Mean Daily Range, | | | <u>8.7</u> |
| Mean Temperature of Month, 1/2 (Mean Max. + Mean Min.), | | | <u>49.8</u> |
| Min. on Grass, Lowest in Month, | | | <u>28.0</u> |
| " " Mean, | | | <u>39.8</u> |
| Black Bulb, Max. in Sun, Highest in Month, | | | |

ADDITIONAL REMARKS.

45/23
54/13

| HYGROMETER. | | | |
|--|--|--|-------------|
| Dry Bulb, Mean of A.M. and P.M. Readings, | | | <u>49.6</u> |
| Wet Bulb, Mean of A.M. and P.M. Readings, | | | <u>47.5</u> |
| Computed Temperature of Dew-Point, | | | |
| Do. Elastic Force of Vapour, | | | <u>.303</u> |
| Do. Relative Humidity (Saturation = 100), | | | <u>86%</u> |
| RAIN fell on 2 1/2 Days; Amount in Inches, | | | <u>3.36</u> |

| WIND. | | SUMMARY. | | | | | | | | | |
|------------|--|----------|----|----|----|----|----|---|----|-------------------|------------------|
| Direction. | | N | NE | E | SE | S | SW | W | NW | Calm or Variable. | Mean Force 0-12. |
| A.M. | | 1 | 1 | 12 | 1 | 5 | 1 | 8 | 0 | 2 | |
| P.M. | | 1 | 0 | 10 | 5 | 9 | 2 | 1 | 2 | 1 | |
| Sum. | | 2 | 1 | 22 | 6 | 14 | 3 | 9 | 2 | 3 | |

* If Observations are taken at 9 A.M. only, the reading of the Maximum thermometer must be entered to the previous day.
 † Rain to be measured at 9 A.M. and the amount entered to the previous day.

R=18

| WEATHER SUMMARY. | |
|--------------------------------------|----|
| Number of Days of Precipitation, ... | |
| Snow, | 0 |
| Hail, | 0 |
| Thunder, | 0 |
| Clear Sky, | 4 |
| Overcast, | 13 |
| Fog, | 3 |
| Ground Frost, | 1 |
| Gale, | 1 |
| INSTRUMENTS IN USE. | |
| Barometer, No. | |
| Dry Bulb, No. | |
| Wet Bulb, No. | |
| Maximum, No. | |
| Minimum, No. | |
| Solar Radiation, No. | |
| Grass Min., No. | |
| Sun Recorder, No. | |
| 1-foot Therm., No. | |
| 4-foot Therm., No. | |

Observations made and Return verified by {
 (Signed) _____

*Received
October 1913*



THE SECRETARY

SCOTTISH METEOROLOGICAL SOCIETY

122 GEORGE STREET

EDINBURGH

BOOK POST

SCOTTISH METEOROLOGICAL SOCIETY

SCOTTISH METEOROLOGICAL SOCIETY.

OBSERVATIONS taken at Glenburn Hydro, County of Bute, During the MONTH of November 1913.
 Lat. 55° 49' 00" N Long. 5° 43' 00" W Height of Cistern of the Barometer above Mean Sea Level 76 feet, above Ground 3 1/2 feet. Diameter of Rain Gauge 5 ins.
 Height of Gauge above Mean Sea Level 86 feet. Height of Rim of Gauge above Ground 12 ins.

| Date. | BAROMETER. | | | | * SELF-REGISTERING THERMOMETERS. | | | | HYGROMETER. | | | | † RAIN. | WIND. | | | | CLOUDS. | | | | SUNSHINE. Hours. | THERMOMETERS under Ground. | | | WEATHER. | | GENERAL REMARKS. Occurrence of Snow, Hail, Thunder, Lightning, Fog, Gales, Meteors, Auroras, Remarkable Depression or Elevation of Barometer, etc. Mention the hour at which Storms, including Thunder and Lightning, began and ended. | Date. | | | |
|----------------------|------------|----------------------|------------|----------------------|----------------------------------|-------------|--------------------------------|-----------------------|-------------|-----------|-----------|-----------|---------|------------------|------------|-----------------------|------------|-----------------------|--------------------|------------------------|----------------|---------------------|----------------------------|----------------|--------|----------|---------|--|---|------------------|-----------|---|
| | 9 A.M. | | 9 P.M. | | Screen. | | Black Bulb Max. in Sun. 9 P.M. | Min. on Grass. 9 A.M. | 9 A.M. | | 9 P.M. | | | Amount at 9 A.M. | 9 A.M. | | 9 P.M. | | Anemometer. 9 A.M. | 9 A.M. | | | 9 P.M. | | 3 ins. | 12 ins. | 48 ins. | | | At 9 A.M. | At 9 P.M. | |
| | Barometer. | Attached Thermometer | Barometer. | Attached Thermometer | Max. 9 P.M. | Min. 9 P.M. | | | Dry bulb. | Wet bulb. | Dry bulb. | Wet bulb. | | | Direction. | Force. Scale of 0-12. | Direction. | Force. Scale of 0-12. | | Species and Direction. | Amount (0-10). | | Species and Direction. | Amount (0-10). | | | | | | | | |
| | inches. | ° | inches. | ° | ° | ° | ° | ° | ° | ° | ° | ° | | inches. | ° | ° | ° | ° | ° | ° | ° | | ° | ° | ° | ° | ° | | | ° | ° | ° |
| 1 | 29.669 | 54 | 29.400 | 58 | 52 | 39 | 7 | 31 | 44 | 44 | 47 | 46 | 12.2 | W | 1 | S. | 4 | 7 | 2 | 10 | 7 | 48 | 50 | | | | 9 am | 9 P.M. | bright frosty | 1 | | |
| 2 | 29.400 | 56 | 29.210 | 56 | 52 | 43 | | 40 | 49 | 46 | 44 | 43 | 16.0 | W | 4 | N.W. | 7 | | 3 | 10 | | 47 | 50 | | | | | | showery | 2 | | |
| 3 | 29.496 | 54 | 29.780 | 50 | 51 | 43 | | 40 | 49 | 46 | 48 | 47 | 12.2 | W | 5 | N.W. | 5 | | 10 | 10 | | 47 | 50 | | | | | | Stormy & wet | 3 | | |
| 4 | 29.864 | 55 | 29.566 | 55 | 50 | 45 | | 41 | 48 | 44 | 48 | 47 | 15.4 | W | 2 | S.W. | 5 | | 7 | 10 | | 48 | 50 | | | | | | " all day | 4 | | |
| 5 | 29.578 | 54 | 29.380 | 55 | 51 | 44 | 2x | 32 | 44 | 43 | 45 | 44 | 2.4 | S. | 2 | S. | 2 | | 4 | 0 | | 48 | 50 | | | | | | dull & damp - very wet from 5 P. | 5 | | |
| 6 | 29.340 | 53 | 29.568 | 52 | 46 | 36 | | 31 | 43 | 42 | 38 | 37 | 10.1 | E | 2 | N.E. | 1 | | 10 | 6 | | 49 | 49.8 | | | | | | " " - Raw | 6 | | |
| 7 | 29.384 | 49 | 29.594 | 51 | 49 | 33 | | 27 | 44 | 41 | 33 | 33 | - | N.W. | 2 | S. | 1 | | 1 | 0 | | 46 | 49.5 | | | | | | " & wet - fine | 7 | | |
| 8 | 29.514 | 48 | 29.608 | 49 | 44 | 32 | | 23 | 40 | 38 | 42 | 40 | - | E | 4 | E | 3 | | 10 | 10 | | 44 | 49.5 | | | | | | frosty bright - frosty | 8 | | |
| 9 | 29.666 | 49 | 29.672 | 56 | 46 | 40 | | 31 | 42 | 41 | 43 | 41 | 10.5 | E | 3 | E | 4 | | 8 | 0 | | 44 | 49 | | | | | | dull & hazy | 9 | | |
| 10 | 29.586 | 52 | 29.472 | 59 | 52 | 42 | | 34 | 46 | 45 | 49 | 49 | 14.6 | E | 3 | S. | 1 | | 10 | 5 | | 44 | 49 | | | | | | " " - hazy cold | 10 | | |
| 11 | 29.342 | 54 | 29.170 | 55 | 51 | 45 | | 33 | 49 | 48 | 48 | 49 | 13.4 | E.S.E. | 2 | S. | 1 | | 8 | 10 | | 45 | 48.5 | | | | | | foggy & wet - wet from 10 A. to 7 P. | 11 | | |
| 12 | 29.008 | 53 | 28.994 | 55 | 50 | 43 | | 40 | 48 | 47 | 45 | 45 | 10.4 | S.E. | 2 | - | - | | 10 | 9 | | 45 | 48.8 | | | | | | " fine - " 6 P.M. | 12 | | |
| 13 | 29.208 | 52 | 29.236 | 53 | 51 | 44 | | 35 | 49 | 46 | 45 | 44 | 12.5 | N.W. | 3 | - | - | | 8 | 10 | | 46 | 48.5 | | | | | | dull & damp - some showers | 13 | | |
| 14 | 29.804 | 51 | 29.140 | 49 | 47 | 41 | | 35 | 43 | 41 | 42 | 41 | 13.3 | W | 5 | N.W. | 1 | | 6 | 10 | | 46 | 48.5 | | | | | | " fine | 14 | | |
| 15 | 29.384 | 49 | 29.346 | 47 | 45 | 40 | | 33 | 42 | 40 | 43 | 40 | 17.6 | W | 4 | N.W. | 6 | | 10 | 10 | | 45 | 48 | | | | | | Stormy & showery th & drizzle - showery | 15 | | |
| 16 | 29.568 | 50 | 29.672 | 54 | 52 | 40 | | 34 | 48 | 46 | 52 | 52 | 14.8 | W | 5 | N.W. | 6 | | 10 | 10 | | 45 | 48 | | | | | | " " - Stormy wet th & drizzle | 16 | | |
| 17 | 29.564 | 55 | 29.826 | 52 | 55 | 45 | | 42 | 54 | 52 | 46 | 42 | 12.4 | W | 6 | W | 3 | | 10 | 2 | | 45 | 48 | | | | | | " " - all day | 17 | | |
| 18 | 29.496 | 52 | 29.788 | 49 | 49 | 40 | | 35 | 45 | 45 | 41 | 39 | 14.0 | S. | 2 | N.W. | 8 | | 10 | 10 | | 46 | 48 | | | | | | " " - fine | 18 | | |
| 19 | 30.012 | 49 | 29.736 | 52 | 49 | 41 | | 33 | 44 | 41 | 48 | 45 | 11.3 | W | 3 | W | 4 | | 5 | 10 | | 45 | 48 | | | | | | dull & wet - G. with R. from 3 P. to 11 | 19 | | |
| 20 | 29.584 | 53 | 29.580 | 54 | 52 | 46 | | 34 | 50 | 49 | 49 | 46 | 14.7 | W | 4 | W | 4 | | 10 | 10 | | 45 | 48 | | | | | | " & damp - Squally, showery. | 20 | | |
| 21 | 29.562 | 51 | 29.872 | 49 | 49 | 35 | | 39 | 43 | 42 | 40 | 38 | 10.8 | W | 3 | W | 2 | | 10 | 0 | | 45 | 48 | | | | | | " breezy - breezy & wet | 21 | | |
| 22 | 30.126 | 48 | 30.046 | 49 | 47 | 35 | | 28 | 38 | 36 | 47 | 43 | 10.2 | W | 1 | W | 4 | | 6 | 10 | | 44 | 48 | | | | | | " Showery - Raw | 22 | | |
| 23 | 29.824 | 51 | 29.780 | 53 | 50 | 46 | 2 | 40 | 50 | 46 | 48 | 45 | 10.1 | S. | 4 | N.W. | 4 | | 10 | 10 | | 44 | 48 | | | | | | hazy & frosty - fine | 23 | | |
| 24 | 29.780 | 50 | 29.700 | 53 | 49 | 42 | | 38 | 44 | 41 | 45 | 43 | 12.8 | W | 1 | S.W. | 4 | | 5 | 9 | | 45 | 47.8 | | | | | | dull breezy - " | 24 | | |
| 25 | 29.822 | 52 | 29.726 | 54 | 54 | 42 | | 32 | 49 | 46 | 48 | 47 | 11.1 | S.W. | 3 | N.W. | 6 | | 10 | 10 | | 44 | 47.5 | | | | | | " & damp - Raw some showers | 25 | | |
| 26 | 29.948 | 50 | 30.176 | 53 | 49 | 43 | | 36 | 46 | 42 | 48 | 44 | 13.7 | W | 6 | W | 4 | | 10 | 10 | | 45 | 47.5 | | | | | | " wet - Stormy & wet | 26 | | |
| 27 | 30.172 | 53 | 30.196 | 55 | 52 | 45 | | 38 | 48 | 48 | 51 | 50 | 11.7 | - | - | W | 5 | | 10 | 0 | | 45 | 47.5 | | | | | | Stormy Showers - showery | 27 | | |
| 28 | 30.222 | 56 | 30.158 | 57 | 52 | 50 | | 45 | 51 | 49 | 51 | 49 | 10.5 | W | 5 | N.W. | 5 | | 10 | 10 | | 46 | 47 | | | | | | foggy & wet - Stormy | 28 | | |
| 29 | 30.064 | 56 | 29.992 | 57 | 53 | 47 | | 47 | 51 | 49 | 48 | 46 | 11.9 | W | 4 | W | 3 | | 8 | 10 | | 46 | 47 | | | | | | " breezy - " | 29 | | |
| 30 | 30.044 | 50 | 29.858 | 51 | 48 | 42 | | 37 | 46 | 41 | 44 | 41 | 11.3 | W | 4 | W | 6 | | 5 | 10 | | 49 | 49 | | | | | | showery - wet all day | 30 | | |
| 31 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | " " - " & Stormy | 31 | |
| Sums. | 19.262 | 6.1 | 18.990 | 9.4 | 29.7 | 4.6 | | 16.1 | 18.5 | 12.3 | 16.6 | 11.4 | 7.19 | | 95 | 108 | | | 236 | 225 | 41.8 | 25.4 | 16 | 206 | | | | | | | | |
| Means. | 29.642 | 52.0 | 29.633 | 53.1 | 49.9 | 41.5 | | 35.3 | 46.2 | 44.1 | 45.5 | 43.8 | | | 3.1 | 3.6 | | | 7.0 | 7.5 | | 45.6 | 48.5 | | | | | | | | | |
| Instrumental Errors. | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Corrected Means. | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

| WEATHER NOTATION. | | |
|---|---|--|
| a. denotes aurora. | m. denotes mist. | |
| b. " blue sky, cloudless. | p. " passing showers. | |
| c. " blue sky with detached clouds. | q. " squally. | |
| d. " sky mainly cloudy, but with openings between the clouds. | r. " continuous rain. | |
| e. " completely overcast. | s. " snow. | |
| f. " drizzling rain. | so. la. " solar halo. | |
| g. " wet air, without rain falling. | t. " thunder. | |
| h. " fog. | th. s. " thunder-storm. | |
| i. " wet fog. | u. " ugly, threatening appearance. | |
| j. " gloomy. | v. " unusual visibility of distant objects. | |
| k. " hail. | w. " dew. | |
| l. " lightning. | x. " hoar frost. | |
| lu. co. " lunar corona. | y. " dust haze. | |
| lu. la. " lunar halo. | | |

| BEAUFORT SCALE FOR ESTIMATING FORCE OF WIND—(0-12). | | |
|---|------------------|----------------|
| 0 Calm. | 5 Fresh Breeze. | 9 Strong Gale. |
| 1 Light Air. | 6 Strong Breeze. | 10 Whole Gale. |
| 2 Slight Breeze. | 7 High Wind. | 11 Storm. |
| 3 Gentle Breeze. | 8 Gale. | 12 Hurricane. |

BAROMETER.

| | |
|--|----------|
| Corrected Mean at 9 A.M., minus Correction for Temp. <u>29.642</u> | 29.580 |
| Corrected Mean at 9 P.M., minus Correction for Temp. <u>29.633</u> | 29.567 |
| Mean at Station, corrected, and at 32°, | 29.573 |
| Correction for height, feet above Mean Sea Level, ... + <u>85</u> | |
| Mean, reduced to 32°, and Sea Level, | 29.658 ✓ |
| Highest Reading, corrected for Index error, on 28 th, | 30.222 |
| Lowest Do. Do. on 12 th, | 28.994 |
| Difference, or Monthly Range, | 1.228 |

SELF-REGISTERING THERMOMETERS.

| | |
|---|--------|
| Highest in Month, on 17 th, | 55.8 |
| Lowest in Month, on 8 th, | 32.8 |
| Difference, or Monthly Range, | 23.0 |
| Mean of all the Highest, | 49.9 ✓ |
| Mean of all the Lowest, | 41.5 ✓ |
| Difference, or Mean Daily Range, | 8.4 |
| Mean Temperature of Month, 1/2 (Mean Max. + Mean Min.), | 45.7 ✓ |
| Min. on Grass, Lowest in Month, | 28.0 |
| " " Mean, | 35.3 |
| Black Bulb, Max. in Sun, Highest in Month, | |

ADDITIONAL REMARKS.

HYGROMETER.

| | |
|---|--------|
| Dry Bulb, Mean of A.M. and P.M. Readings, | 45.8 ✓ |
| Wet Bulb, Mean of A.M. and P.M. Readings, | 43.9 ✓ |
| Computed Temperature of Dew-Point, | |
| Do. Elastic Force of Vapour, | .266 |
| Do. Relative Humidity (Saturation = 100), | 86.7 |
| RAIN fell on 28 Days; Amount in Inches, | 7.19 ✓ |

| WIND. | | SUMMARY. | | | | | | | | | |
|------------|---|----------|----|---|----|---|----|----|----|-------------------|------------------|
| Direction. | | N | NE | E | SE | S | SW | W | NW | Calm or Variable. | Mean Force 0-12. |
| A.M. | 1 | 0 | 5 | 1 | 3 | 1 | 1 | 1 | 1 | | |
| P.M. | 0 | 1 | 2 | 0 | 5 | 2 | 9 | 9 | 2 | | |
| Sum. | 1 | 1 | 7 | 1 | 8 | 3 | 26 | 10 | 3 | | |

* If Observations are taken at 9 A.M. only, the reading of the Maximum thermometer must be entered to the previous day.
 † Rain to be measured at 9 A.M. and the amount entered to the previous day.

R = 25

WEATHER SUMMARY.

| | |
|--------------------------------------|----|
| Number of Days of Precipitation, ... | |
| Snow, | 0 |
| Hail, | 0 |
| Thunder, | 2 |
| Clear Sky, | 1 |
| Overcast, | 15 |
| Fog, | 4 |
| Ground Frost, | 3 |
| Gale, | 1 |

INSTRUMENTS IN USE.

| | |
|---------------------------|--|
| Barometer, No. | |
| Dry Bulb, No. | |
| Wet Bulb, No. | |
| Maximum, No. | |
| Minimum, No. | |
| Solar Radiation, No. | |
| Grass Min., No. | |
| Sun Recorder, No. | |
| 1-foot Therm., No. | |
| 4-foot Therm., No. | |

Observations made and Return verified by {
 (Signed) _____

44/8
 50/28

Date November 1913

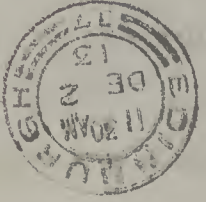
THE SECRETARY

SCOTTISH METEOROLOGICAL SOCIETY

122 GEORGE STREET

EDINBURGH

BOOK POST



SCOTTISH METEOROLOGICAL SOCIETY.

OBSERVATIONS taken at Glenburn Hyd., County of But., During the MONTH of December 1913.
Lat. 55° 29' 50" N Long. 5° 43' 30" W Height of Cistern of the Barometer above Mean Sea Level 76 feet, above Ground 3 1/2 feet. Diameter of Rain Gauge 5 ins.
Height of Gauge above Mean Sea Level 86 feet. Height of Rim of Gauge above Ground 12 ins.

| Date. | BAROMETER. | | | | * SELF-REGISTERING THERMOMETERS. | | | | HYGROMETER. | | | | +RAIN. | WIND. | | | | CLOUDS. | | | | SUNSHINE. | THERMOMETERS under Ground. | | | WEATHER. | | GENERAL REMARKS. Occurrence of Snow, Hail, Thunder, Lightning, Fog, Gales, Meteors, Auroras, Remarkable Depression or Elevation of Barometer, etc. Mention the hour at which Storms, including Thunder and Lightning, began and ended. | Date. | | |
|----------------------|------------|-----------------------|------------|-----------------------|----------------------------------|--------------------------------|-----------------------|-----------|-------------|-----------|-----------|------------------|--------|------------|-----------------------|------------|-----------------------|------------------|------------------------|----------------|------------------------|-----------|----------------------------|--------|--------|----------|---------|--|-------|-----------|-----------|
| | 9 A.M. | | 9 P.M. | | Screen. | Black Bulb Max. in Sun. 9 P.M. | Min. on Grass. 9 A.M. | 9 A.M. | | 9 P.M. | | Amount at 9 A.M. | | Direction. | Force. Scale of 0-12. | Direction. | Force. Scale of 0-12. | Amount at 9 A.M. | Species and Direction. | Amount (0-10). | Species and Direction. | | Amount (0-10). | Hours. | 3 ins. | 12 ins. | 48 ins. | | | At 9 A.M. | At 9 P.M. |
| | Barometer. | Attached Thermometer. | Barometer. | Attached Thermometer. | | | | Dry bulb. | Wet bulb. | Dry bulb. | Wet bulb. | | | | | | | | | | | | | | | | | | | | |
| 1 | 29.920 | 47 | 29.914 | 50 | 45 | 40 | 32 | 43 | 40 | 43 | 41 | 2.8 | N. | 3 | N.W. | 5 | + | 7 | 7 | 10 | + | + | 45 | 47.5 | | | | 9 A.M. 9 P.M. | | | |
| 2 | 29.726 | 49 | 29.576 | 53 | 51 | 42 | 35 | 44 | 42 | 48 | 47 | 5.9 | N.W. | 3 | N. | 3 | | 10 | 10 | 10 | | | 45 | 47.5 | | | | showy & dull - stormy frost | 1 | | |
| 3 | 29.140 | 53 | 28.854 | 54 | 52 | 40 | 40 | 51 | 49 | 41 | 39 | 2.9 | N.W. | 5 | N.W. | 6 | | 10 | 10 | 10 | | | 45 | 47.5 | | | | dull & damp - wet all day | 2 | | |
| 4 | 29.176 | 45 | 29.590 | 50 | 43 | 33 | 29 | 36 | 35 | 35 | 33 | 0.7 | N.W. | 4 | N.W. | 2 | | 3 | 0 | 0 | | | 45 | 47 | | | | " showy - stormy & wet | 3 | | |
| 5 | 29.632 | 45 | 29.714 | 45 | 39 | 30 | 26 | 35 | 33 | 31 | 30 | - | N. | 2 | N. | 1 | | 3 | 0 | 0 | | | 45 | 47 | | | | breazy cold - raw frosty | 4 | | |
| 6 | 29.656 | 43 | 29.776 | 44 | 34 | 31 | 26 | 32 | 32 | 34 | 32 | - | N. | 4 | E. | 3 | | 8 | 0 | 0 | | | 43 | 47 | | | | bright frosty - frosty dry | 5 | | |
| 7 | 29.920 | 44 | 29.990 | 47 | 39 | 34 | 28 | 36 | 34 | 39 | 38 | 1.4 | E. | 3 | E. | 1 | | 10 | 10 | 10 | | | 41 | 47 | | | | frosty foggy - dull & wet | 6 | | |
| 8 | 29.938 | 48 | 29.776 | 54 | 56 | 38 | 34 | 46 | 46 | 56 | 53 | 2.0 | - | - | N. | 5 | | 10 | 10 | 10 | | | 40 | 47 | | | | " - drizzly raw | 7 | | |
| 9 | 29.766 | 51 | 29.882 | 51 | 56 | 43 | 41 | 46 | 44 | 46 | 43 | 1.7 | N. | 4 | N.W. | 6 | | 8 | 7 | 7 | | | 42 | 46.5 | | | | dull & damp - wind fresh milder | 8 | | |
| 10 | 30.058 | 52 | 30.074 | 52 | 50 | 39 | 37 | 48 | 45 | 47 | 46 | 0.6 | N. | 4 | N. | 1 | | 10 | 10 | 10 | | | 43 | 46 | | | | Strong Wind Showy - stormy all day, showy | 9 | | |
| 11 | 30.006 | 53 | 29.786 | 53 | 49 | 45 | 40 | 48 | 46 | 48 | 47 | 2.0 | N. | 3 | N. | 2 | | 10 | 10 | 10 | | | 44 | 46 | | | | " - wet | 10 | | |
| 12 | 29.642 | 52 | 29.968 | 50 | 50 | 40 | 41 | 47 | 45 | 42 | 39 | 1.9 | N. | 5 | N. | 3 | | 8 | 0 | 0 | | | 44 | 46 | | | | dull - dull & damp | 11 | | |
| 13 | 30.050 | 50 | 30.062 | 50 | 47 | 40 | 34 | 44 | 41 | 47 | 44 | 0.5 | N. | 3 | N.W. | 6 | | 8 | 10 | 10 | | | 43 | 46 | | | | Stormy - showy | 12 | | |
| 14 | 30.114 | 51 | 30.072 | 55 | 51 | 44 | 36 | 46 | 43 | 50 | 49 | 1.1 | N. | 3 | N.W. | 4 | | 8 | 10 | 10 | | | 43 | 46 | | | | dull & damp - stormy showy | 13 | | |
| 15 | 30.000 | 55 | 29.718 | 57 | 51 | 49 | 41 | 50 | 48 | 49 | 47 | 2.4 | N.W. | 2 | N. | 5 | | 10 | 10 | 10 | | | 43 | 46 | | | | " showy - breazy | 14 | | |
| 16 | 29.814 | 52 | 30.278 | 52 | 50 | 43 | 39 | 48 | 45 | 45 | 41 | 0.9 | N.W. | 5 | N.W. | 5 | | 10 | 10 | 0 | | | 44 | 46 | | | | " & damp - stormy & wet | 15 | | |
| 17 | 30.472 | 50 | 30.566 | 52 | 46 | 37 | 31 | 39 | 38 | 43 | 43 | - | N.W. | 1 | - | - | | 6 | 10 | 10 | | | 44 | 46 | | | | Stormy showy - " to 4 P. | 16 | | |
| 18 | 30.568 | 52 | 30.568 | 51 | 44 | 42 | 36 | 43 | 42 | 42 | 40 | - | - | - | - | - | | 10 | 10 | 10 | | | 44 | 46 | | | | fine - foggy dry | 17 | | |
| 19 | 30.592 | 50 | 30.580 | 49 | 43 | 39 | 39 | 41 | 39 | 40 | 39 | - | - | - | - | - | | 10 | 10 | 10 | | | 44 | 46 | | | | dull & damp - fine haze | 18 | | |
| 20 | 30.542 | 50 | 30.582 | 49 | 45 | 39 | 38 | 43 | 39 | 45 | 42 | - | - | - | N. | 2 | | 10 | 10 | 10 | | | 44 | 46 | | | | " fine - " | 19 | | |
| 21 | 30.502 | 50 | 30.482 | 53 | 47 | 44 | 39 | 46 | 44 | 47 | 44 | - | N. | 2 | N. | 3 | | 10 | 10 | 10 | | | 43 | 46 | | | | " foggy - " | 20 | | |
| 22 | 30.212 | 52 | 29.938 | 52 | 47 | 41 | 41 | 45 | 44 | 43 | 40 | 0.8 | N. | 3 | N. | 4 | | 10 | 10 | 10 | | | 43 | 46 | | | | " fine - " | 21 | | |
| 23 | 29.728 | 49 | 29.602 | 47 | 45 | 36 | 32 | 39 | 38 | 37 | 36 | 2.5 | N. | 2 | N. | 3 | | 5 | 0 | 0 | | | 44 | 46 | | | | " foggy - fine | 22 | | |
| 24 | 29.768 | 45 | 29.978 | 46 | 41 | 29 | 30 | 38 | 35 | 31 | 31 | 1.8 | N. | 2 | S. | 1 | | 0 | 0 | 0 | | | 44 | 46 | | | | showy haze - wet all day | 23 | | |
| 25 | 29.816 | 47 | 29.620 | 52 | 49 | 30 | 28 | 46 | 45 | 48 | 47 | 2.6 | N. | 4 | N.W. | 4 | | 10 | 10 | 10 | | | 41 | 46 | | | | bright clear - clear freezing | 24 | | |
| 26 | 29.664 | 50 | 29.880 | 48 | 49 | 37 | 32 | 43 | 40 | 38 | 37 | 1.9 | N. | 3 | N. | 2 | | 10 | 10 | 10 | | | 42 | 46 | | | | dull & wet - wet all day | 25 | | |
| 27 | 29.322 | 45 | 29.390 | 49 | 39 | 33 | 31 | 39 | 37 | 35 | 34 | 0.3 | N. | 4 | N.W. | 1 | | 10 | 10 | 10 | | | 41 | 45.5 | | | | " day | 26 | | |
| 28 | 29.470 | 42 | 29.580 | 48 | 37 | 32 | 29 | 36 | 33 | 35 | 32 | 0.1 | N. | 3 | N.W. | 4 | | 4 | 0 | 0 | | | 39 | 45 | | | | " Top Hills Sn - blizzard from 12 to 4 P.M. | 27 | | |
| 29 | 29.824 | 42 | 30.022 | 45 | 38 | 30 | 24 | 36 | 32 | 37 | 33 | - | N. | 4 | N. | 4 | | 0 | 0 | 0 | | | 39 | 45 | | | | freezing - heavy snow in a.m. | 28 | | |
| 30 | 30.166 | 42 | 30.368 | 43 | 37 | 27 | 23 | 38 | 33 | 31 | 30 | - | - | - | S. | 1 | | 4 | 10 | 10 | | | 38 | 44.8 | | | | " - " snow in a.m. | 29 | | |
| 31 | 30.448 | 41 | 30.448 | 41 | 37 | 25 | 22 | 26 | 26 | 36 | 34 | - | - | - | N. | 1 | | 5 | 0 | 0 | | | 37 | 44.5 | | | | " - " freezing | 30 | | |
| Sums. | 15212 | 9 | 14812 | 12 | 15 | 12 | | 16 | 14 | 14 | 13 | 11 | | | | | | | | | | | 11 | 174 | | | | | | | |
| Means. | 28.652 | 25.7 | 29.014 | 30.4 | 46.7 | 22.2 | | 58 | 30.6 | 49 | 30.1 | | | | | | | 25.7 | 21.6 | | | | 77 | 190.6 | | | | | | | |
| Instrumental Errors. | | | | | | | | | | | | | | | | | | 7.6 | 7.0 | | | | 42.5 | 46.1 | | | | | | | |
| Corrected Means. | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

BAROMETER.

Corrected Mean at 9 A.M., minus Correction for Temp. 54 } 28.70
Corrected Mean at 9 P.M., minus Correction for Temp. 58 } 28.78
Mean at Station, corrected, and at 32°, 29.874
Correction for height, feet above Mean Sea Level, + 86
Mean, reduced to 32°, and Sea Level, 29.960
Highest Reading, corrected for Index error, on th, 29.960
Lowest Do. Do. on th, 29.816
Difference, or Monthly Range, 0.144

SELF-REGISTERING THERMOMETERS.

Highest in Month, on 8th, 9th 56
Lowest in Month, on 31st, 25
Difference, or Monthly Range, 31
Mean of all the Highest, 45.4
Mean of all the Lowest, 37.2
Difference, or Mean Daily Range, 8.2
Mean Temperature of Month, 1/2 (Mean Max. + Mean Min.), 41.3
Min. on Grass, Lowest in Month, 21.3
" " Mean, 22.4
Black Bulb, Max. in Sun, Highest in Month, 56

ADDITIONAL REMARKS.

34/6
49/15

HYGROMETER.

Dry Bulb, Mean of A.M. and P.M. Readings, 41.8
Wet Bulb, Mean of A.M. and P.M. Readings, 39.8
Computed Temperature of Dew-Point, 37.2
Do. Elastic Force of Vapour, 2.25
Do. Relative Humidity (Saturation = 100), 85.7
RAIN fell on 21 Days; Amount in Inches, 5.08

WIND.

SUMMARY.

| Direction. | N | NE | E | SE | S | SW | W | NW | Calm or Variable. | Mean Force 0-12. |
|------------|---|----|---|----|---|----|----|----|-------------------|------------------|
| A.M. | 1 | - | 2 | - | - | 2 | 1 | 2 | 6 | |
| P.M. | 2 | - | 2 | - | 2 | 13 | 9 | 3 | | |
| Sum. | 3 | 0 | 4 | 0 | 2 | 23 | 11 | 9 | | |

WEATHER SUMMARY.

Number of Days of Precipitation, 22
Snow, 2
Hail, 1
Thunder, 1
Clear Sky, 4
Overcast, 19
Fog, 7
Ground Frost, 10
Gale, 2

INSTRUMENTS IN USE.

Barometer, No. 1
Dry Bulb, No. 1
Wet Bulb, No. 1
Maximum, No. 1
Minimum, No. 1
Solar Radiation, No. 1
Grass Min., No. 1
Sun Recorder, No. 1
1-foot Therm., No. 1
4-foot Therm., No. 1

WEATHER NOTATION.

a. denotes aurora.
b. blue sky, cloudless.
bc. blue sky with detached clouds.
c. sky mainly cloudy, but with openings between the clouds.
o. completely overcast.
d. drizzling rain.
e. wet air, without rain falling.
f. fog.
fe. wet fog.
g. gloomy.
h. hail.
l. lightning.
lu. co. lunar corona.
lu. ha. lunar halo.
m. denotes mist.
p. passing showers.
q. equally.
r. continuous rain.
s. snow.
so. ha. solar halo.
t. thunder.
ts. thunder-storm.
u. ugly, threatening appearance.
v. unusual visibility of distant objects.
w. dew.
x. hoar frost.
z. dust haze.

BEAUFORT SCALE FOR ESTIMATING FORCE OF WIND—(0-12).

| Force. | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 |
|--------|-------|------------|----------------|----------------|------------------|---------------|----------------|------------|-------|--------------|-------------|--------|------------|
| Force. | Calm. | Light Air. | Slight Breeze. | Gentle Breeze. | Moderate Breeze. | Fresh Breeze. | Strong Breeze. | High Wind. | Gale. | Strong Gale. | Whole Gale. | Storm. | Hurricane. |

Observations made and Return verified by {
(Signed) _____

* If Observations are taken at 9 A.M. only, the reading of the Maximum thermometer must be entered to the previous day.
† Rain to be measured at 9 A.M. and the amount entered to the previous day.

R=20

Oct. 29.5 / 91.0 29.5
Nov. 1.0 41.0 17.5
Dec.

Rothsay
1913

THE SECRETARY

SCOTTISH METEOROLOGICAL SOCIETY

122 GEORGE STREET

EDINBURGH

BOOK POST



SCOTTISH METEOROLOGICAL SOCIETY