

OCCASIONAL PAPERS ON METEOROLOGICAL HISTORY No.11

**THE RIPON METEOROLOGICAL DATA SET
FOR 1892 TO 1895
AS RECORDED BY
CHARLES PIAZZI SMYTH**

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Published by
The Royal Meteorological Society's
History of Meteorology and Physical Oceanography
Special Interest Group

JULY 2012

ISBN: 978-0-948090-35-6

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1-15 June 1894	52
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1-16 July 1894	54
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1-15 October 1894	60
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INTRODUCTION

Born in Naples in 1819, Charles Piazzi Smyth became one of the most colourful and respected 19th century personalities of British science. He was an astronomer (he was indeed Astronomer Royal for Scotland), surveyor and metrologist, meteorologist, pioneer, artist, traveller and, last but not least, photographer.

Smyth is most noted for his work in practical astronomical and spectroscopic studies, including in Tenerife, Sicily, Bavaria, and Portugal, and also for his highly accurate survey of the Great Pyramid. More details of his life and career can be found in Brück, 1988. It is his far less known meteorological and photographic work that is the subject of this publication.

Smyth was a keen early amateur photographer and, being based in the area, became a leading member of the Edinburgh Photographic Society. The camera that he designed and constructed in the 1870s produced cloud images on small glass plates. At the 1876 exhibition he won a silver medal for apparatus, sharing the distinction with Henry Fox Talbot. All his life he had enjoyed looking at skiescapes, sunsets and storms etc with their endless variety of colours and combinations of shapes. He believed that photographs of different cloud formations were greatly superior to merely verbal descriptions and that the study of systematic of them “could not fail to provide a scientific basis for weather forecasting”. He correctly maintained that no two clouds were ever exactly the same because exactly the same exact weather circumstances can never recur and suggested the use of photography as a serious tool for meteorological research.

THE 1890s CLOUD PHOTOGRAPH ALBUMS

Towards the end of his life Smyth found more time to take up cloud photography more seriously. He moved with his ailing wife, who had been a weather observer herself in the past, to the clear air of Ripon and it was here that he carried out his extensive photographic and meteorological work.

Smyth constructed his cloud camera using a lens of 1.7” diameter and 14” focal length (which had been given to him 30 years before for copying Egyptian photographs he had recently made). With the help of his assistant, Mr Close, he obtained over 500 photographs of cloud formations on 3” square glass plates associated with all possible kinds of weather conditions covering the period 1892-94.

Each image was accompanied by a comprehensive form which recorded precise details of the photograph as well as the weather details and any other observations of interest at the time. In addition, over a similar period he maintained a meticulous daily log of meteorological observations made at his house. Towards the end of his life he presented massive albums containing the documented images to the Royal Society in London. He presented another set, including the negatives, to The Royal Society in Edinburgh which are still held by Edinburgh Royal Observatory.

With the much appreciated support of Joanna Corden, librarian and archivist at the Royal Society in London, I found that the three albums were still in existence and was allowed to examine them and make digital photographs by using natural light from a window of the library. The paper enlargements in the albums are mounted on thin card and some have warped or faded, but it was still possible to obtain a useful record of the contents. Also bound in the albums was a continuous meteorological record covering a similar period, with the exception of three weeks when Smyth had to be away for “a health-seeking visit to Harrogate”, which is described later.

The reproductions show an album header page, notes on cloud photography, and a range of examples of the cloud images. Sadly, they never led to a scheme to improve weather forecasting using details of cloud types as he had originally hoped.

DETAILS OF THE CLOUD PHOTOGRAPHS

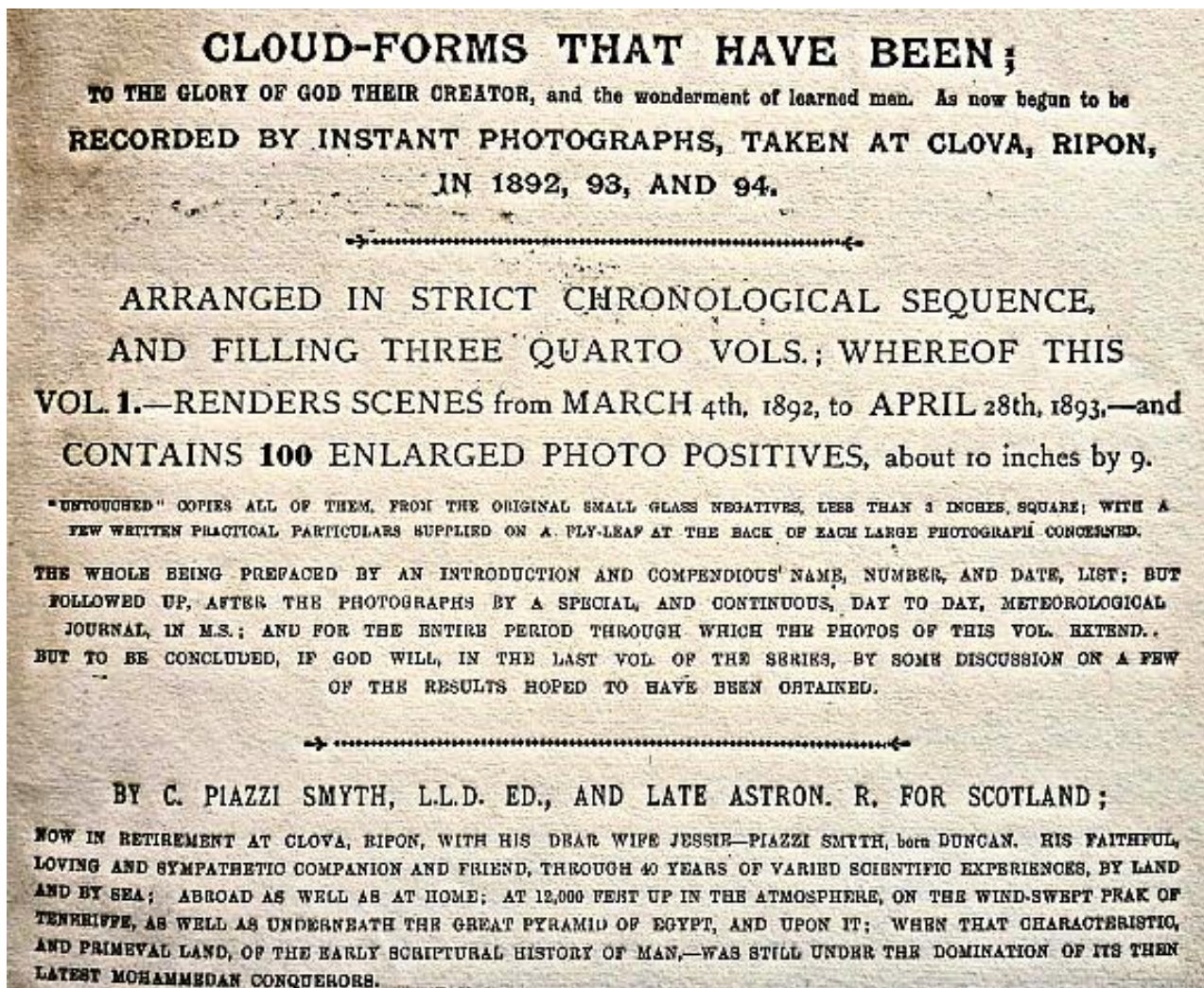


Figure 1:
Cover page from one of the albums

Elements for expecting good, solid, well-defined clouds, worth photographing.

① Low Barometer,

② Low Temperature,

③ Heavy Spectrum Rain-band,

④ N. West ^{N. West} and West wind-directions - versus N. East, East.

⑤ Still more necessary is abundance of Atmospheric Electricity: varying to lightning & ^{thunder,} cloud-vents

There should also be an absence of the thin, hazy, ^{cloud-vents} of the upper regions of the atmosphere; as well as of the foggy mists rolling over the earth's actual surface, & dulling the vigour of light and shade of the clouds proper on those at a medium level in the atmosphere, even when not shutting them out from view altogether.

⑥ Strong winds are also favourable; wherefore, per contra, days of continued calm are eminently unfavourable, very noticeable in September & November.

Figure 2:

Smyth's notes on the weather most suitable for cloud photography

CLOUD-FORMS THAT HAVE BEEN AT CLOVA, RIPON, IN 1892, 3, & 4;=

155 Station = East of the. Alt. = 1000 ft. Exp. lens 2 1/2 in. f. 1/2 in. 1893



Continuous
 Number of
 the small glass
 Negative
 here Copied &
 Enlarged
 = **155** ①
 1893
 Date =
 June 5th 8.28
 A.M.
 "a still finer
 example of the
 solid looking
 Electric
 Cumulus or
 cumulo-
 stratus"
 Outlook =
 S. East
 Apert. = 8
 of Solar foc.
 or 1.3 inch
 diam.
 Bar. = 30.10
 Out t. = 59.5
 Spectrum,
 Rain & H. band = 3
 Low & C. band 2
 Wind = 2
 from North
 Clouds = 3
 of 10. 10
155 ①

= This being Volume 2, of the above named labour of Love and Meteorologic Research, in days of old age and falling faculties.

Figure 3:
5 June 1893, 08:28

CLOUD-FORMS THAT HAVE BEEN AT CLOVA, RIPON, IN 1892, 3, & 41

893
July
20.



July
20.
1893

Continuous
Number of
the small glass
Negative
here Copied &
Enlarged
= 171 (1)
1893.

Date =
20 July 20E
9.3 A.M.

"From
East Altic
to show
clouds
gathering"

Outlook =
SE.
Apert = $\frac{1}{8}$
of Solar foc.
or 1.3 inch
diam.

Bar. = 29.38
Out t. = 61.4
Spectrum,
Eals & H band 4
Low - A C band 2
Wind = 9
fr. SW.
Clouds = $\frac{8}{10}$
of 24. Rem.

No 171 (1)

This being Volume 2, of the above named labour of Love and Meteorologic Research, in days of old age and failing faculties.

Figure 4:
4 July 1893, 09:03

CLOUD-FORMS THAT HAVE BEEN AT CLOVA, RIPON, IN 1892, 3, & 41

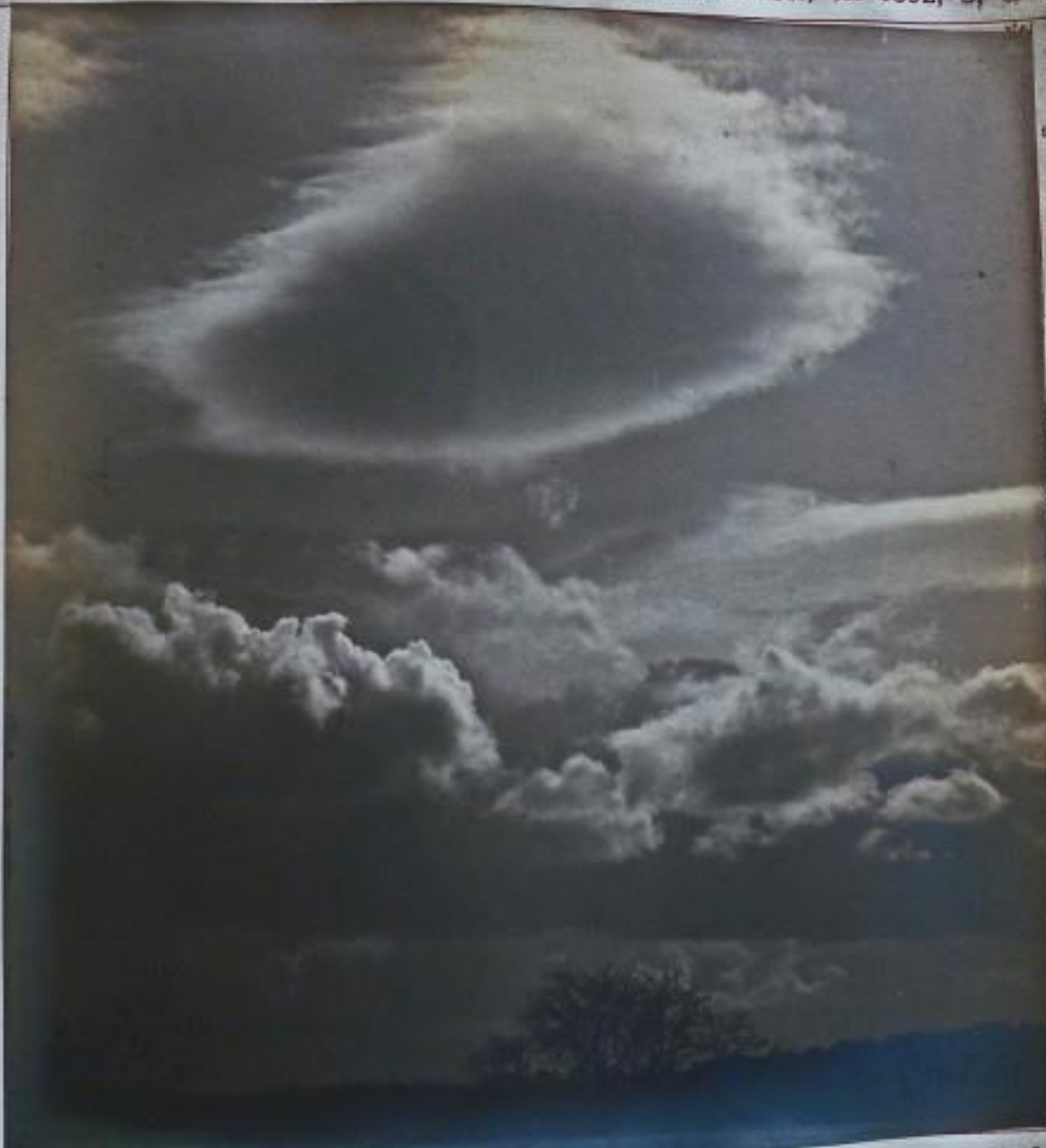


Continuous
 Number of
 the small glass
 Negative
 here Copied &
 Enlarged
 = 1854
 1893.
 Date =
 July 30 (3)
 at 9:55 AM.
 "Summer
 cumulus
 clouds of
 various
 "innocent"
 kinds."
 Outlook =
 S.E. 1
 Apert. = 8
 of Solar foc.
 or 1.3 inch
 diam.
 Bar. = 29.78
 Out t. = 50.0
 Spectrum,
 Rain & H. lead = 3
 Low & C. lead = 2
 Wind = 4.
 fr. N. W.
 4 to 10
 Clouds = 10
 of 2nd. Plan.
 No. 185 (4)

This being Volume 2, of the above named labour of Love and Meteorologic Research, in days of old age and failing faculties,

Figure 5:
 30 July 1893, 0955

CLOUD-FORMS THAT HAVE BEEN AT CLOVA, RIPON, IN 1892, 3, & 4-



Continuous
Number of
the small glass
Negative
here Copied &
Enlarged
= 285 (1)
1894-

Date =
2. March 4 (1)
at 2.36 PM.

2. 3. 4. 5. 6. 7. 8. 9. 10. 11. 12. 13. 14. 15. 16. 17. 18. 19. 20. 21. 22. 23. 24. 25. 26. 27. 28. 29. 30. 31.

preparing for
night rain
and at com.

Outlook =
SW.
Apert. = 1/2
of Solar fon.
or 1.3 inch
diam.
Bar. = 29.32
Out t. = 44.2
Spectrum,
Rain & H. tent = 2
Low O & C. lead = 3
Wind = 25.10
Ex. 7. 26.
Clouds = 8
of red. Flamm.
C. 1. 2. 3. 4. 5. 6. 7. 8. 9. 10. 11. 12. 13. 14. 15. 16. 17. 18. 19. 20. 21. 22. 23. 24. 25. 26. 27. 28. 29. 30. 31.
28-5.
SECOND EDITION

= This being Volume 2, of the above named labour of Love and Meteorologic Research, in days of old age and failing faculties.

Figure 6:
4 March 1894, 14:36

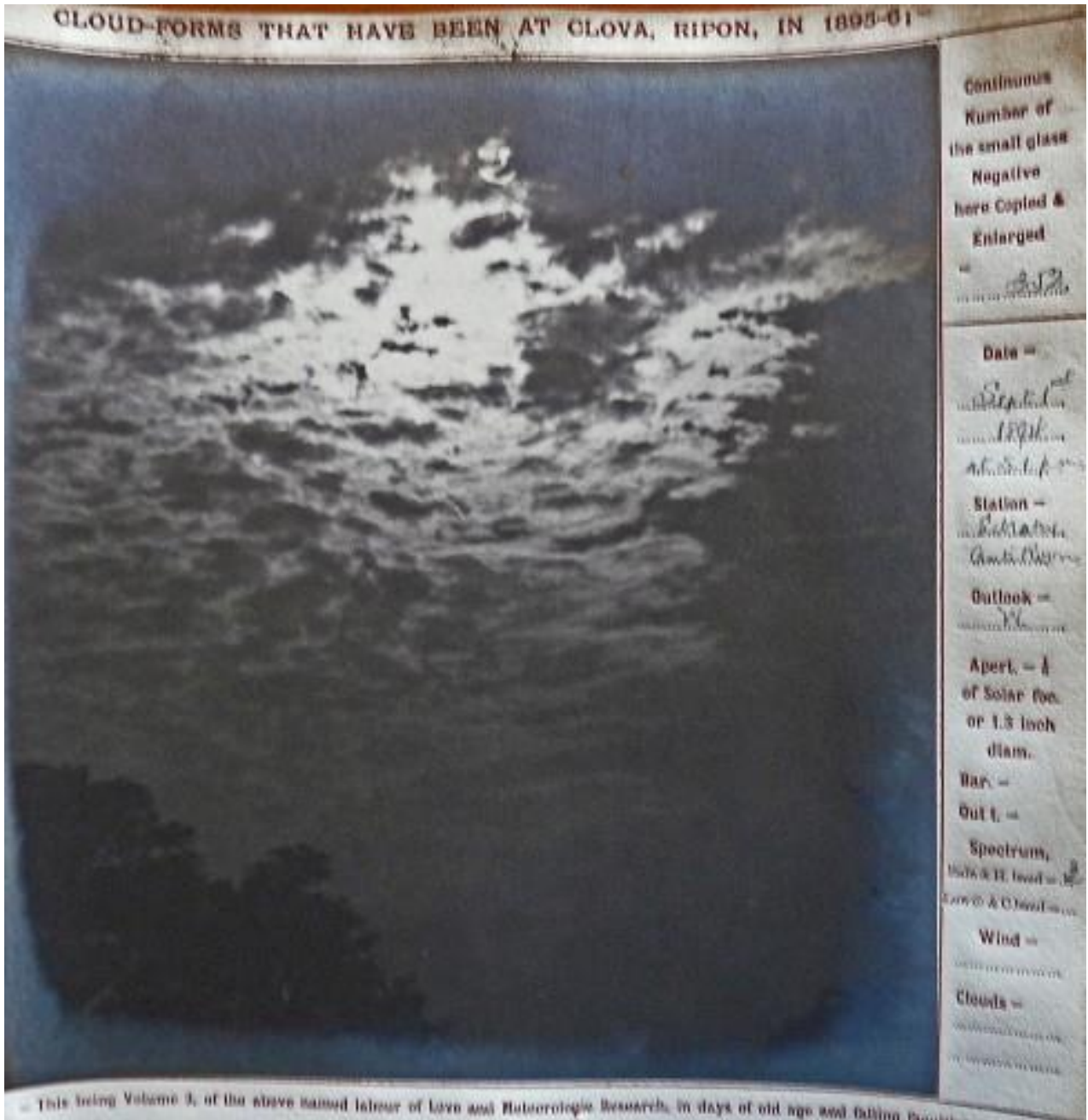


Figure 7:
1 September 1894, 17:01



Figure 8:
 13 October 1894, 16:15

CLOUD-FORMS THAT HAVE BEEN AT CLOVA, RIPON, IN 1895-6



Continuous
Number of
the small glass
Negative
here Copied &
Enlarged
= 1126

Date =
June 22nd
1895
at 7.16 p.m.

Station =
Ripon
Ct. Ripon

Outlook =
N.W.

Apert. = 1/2
of Solar foc.
or 1.3 inch
diam.

Bar. =

Out L. =

Spectrum,
Rain & H. bar. =

Low & C. bar. =

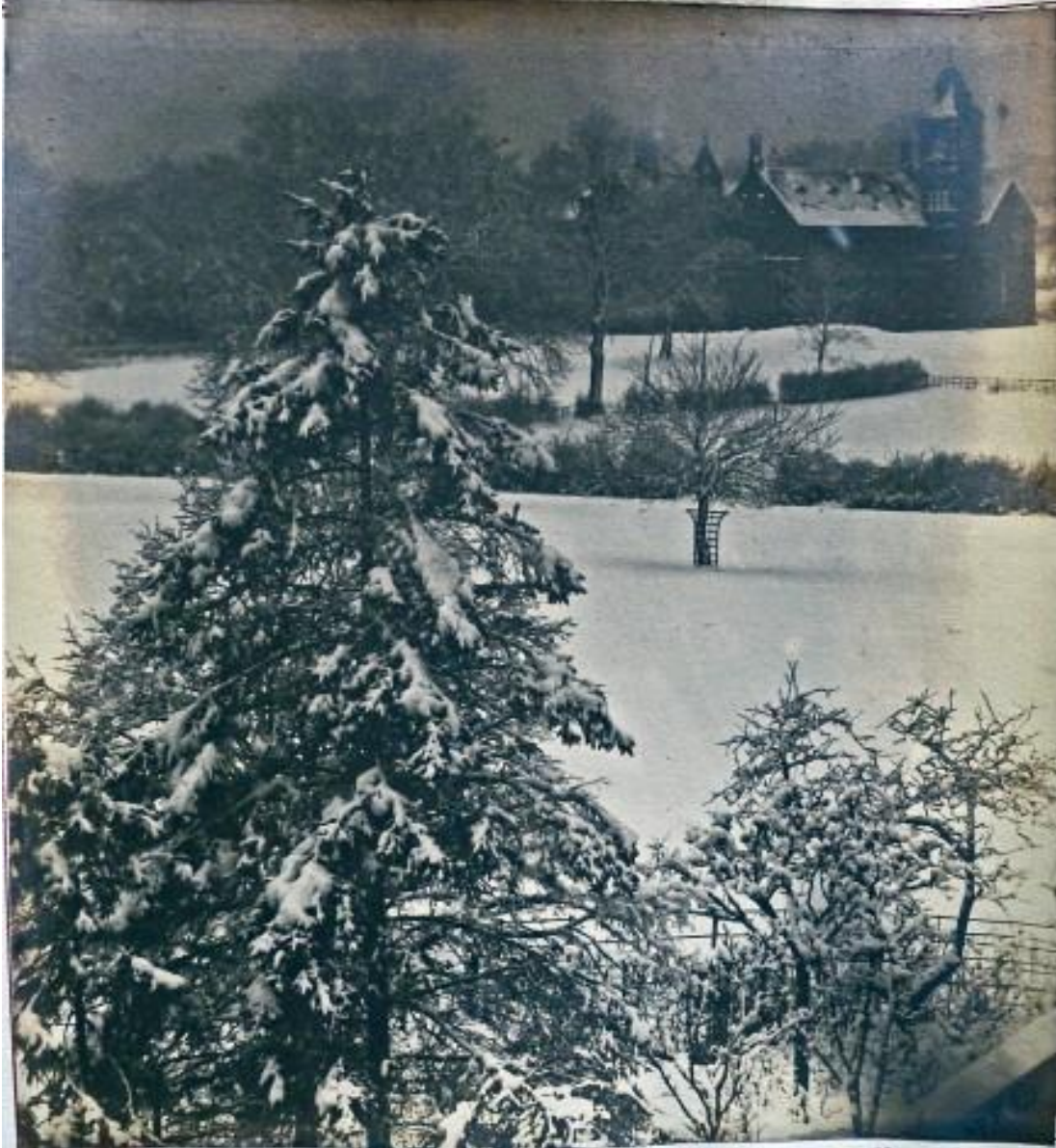
Wind =

Clouds =

- This being Volume 3, of the above named labour of Love and Meteorologic Research, in days of old age and falling faculties.

Figure 9:
22 June 1895, 19:16

CLOUD-FORMS THAT HAVE BEEN AT CLOVA, RIPON, IN 1892, 3, & 4;



Continuous
Number of
the small glass
Negative
here Copied &
Enlarged
= 275^①
1894

Date =
① Febr. 18⁽⁴⁾
at 10-7 AM.
M. J. Pent. Pl.
Dun. Is. for trees
the N. West.
Ripon Gram-
mar school
in the vic-
tance.
Outlook =
W.
Apert. = $\frac{1}{8}$
of Solar fee.
or 1.3 inch
diam.
Bar. = 30.33
Out t. = 32.5
Spectrum,
Rain & H. band = 1.
Low O & C. band = 2.
Wind = 0
fr. SW.
Clouds = $\frac{10}{10}$
of obs. H.
① since
275.
SECOND EDITION.

= This being Volume 2, of the above named labour of Love and Meteorologic Research, in days of old age and falling faculties.

Figure 10:
Snow image – 18 February, 1894

THE METEOROLOGICAL DATA SET

Soon after setting up home at Ripon (in a house named “Clova”), Smyth established the instrumentation and protocol for regular recording of meteorological data to accompany his cloud photography studies. The readings were generally made each morning between 08:10 and 08:30 and run from January 1892 to June 1895.

The data sheets cover one month, or later in the series half a month, each. In some earlier cases extra weather footnote details are also included. The columns show:

- 1) **Day of the month** (some are not always easily read due to the fact that the pages could not be properly flattened out, but they are repeated on the right hand side).
- 2) **Barometric Pressure** (in inches and read to two decimal places).
- 3) **Air Temperature** (in degrees Fahrenheit, outdoors, presumably measured on a North wall Also, as was common for the period, an indoor value was included).
- 4) **Spectroscope Rainband** (coded 1 to 10, described in detail at the end of this list).
- 5) **Wind Speed and Direction** (estimated in miles per hour and by compass points).
- 6) **Ground State** (dry, wet, snow, frost).
- 7) **State of the Air** (clear, hazy, mist, fog).
- 8) **Cloud Cover** (in tenths) The cloud notation page is also reproduced in **Fig. 11** – see page 13).
- 9) **Diurnal Cloud Cover and Sunshine variation** (hatching and open circles)
- 10) **Diurnal variation of Rainfall** (heavier rain shown by increasing darkness of hatching, the hatching record continuing into the night period some of the time).
Regrettably, Smyth did not record actual rainfall totals.

NOTE ON SKY SPECTROSCOPY AND THE RAINBAND

While visiting Paris with his wife in 1875, Smyth was surprised to be encountering an unusually rainy spell despite a forecast for fine weather, based on high barometric pressures over England, that had been issued by the Paris Meteorological Department. Wet weather continued on their return to London despite continuing high pressure.

He examined the sky in all directions using his pocket spectroscope and found that for all directions there was a dominant broad dark band on the red side of the sodium line. He continued to observe this band on his rail journey back to Scotland, and even the next day in a clear blue sky, which was followed in the evening by rain which continued for several days.

He reported his findings to *Nature* and continued observing the spectrum. He soon discovered that the band was identifiable with “warm rain in an easterly wind and under a high barometer”. He saw the potential for these observations as a useful supplement to the barometer and hygrometer for weather forecasting. The spectroscope effectively analysed moisture through many layers of the atmosphere thus giving a more direct picture of the average degree of moisture and could presage rain before it reached the local atmosphere.

The Smyths subsequently added “rainband intensities” on a scale of 1 to 10 to their meteorological observations. Similar independent observations had been recorded in the USA in 1866 but these were focussed on solar rather than meteorological research.

After further supportive studies, using data from many parts of Scotland, Smyth published his detailed findings in the *Edinburgh Astronomical Observations* for 1878. His main contention was that although the barometer is effective in foretelling rain in winter which tends to come from the south-west; it is less so in the case of spring and summer rains that come from the east or south-east. The spectroscope was able to show moisture at high levels sooner than a local ground-level hygrometer. Spectroscopes for general use were developed, including by Casella, but were difficult to use and not generally adopted, never becoming more than a research tool.

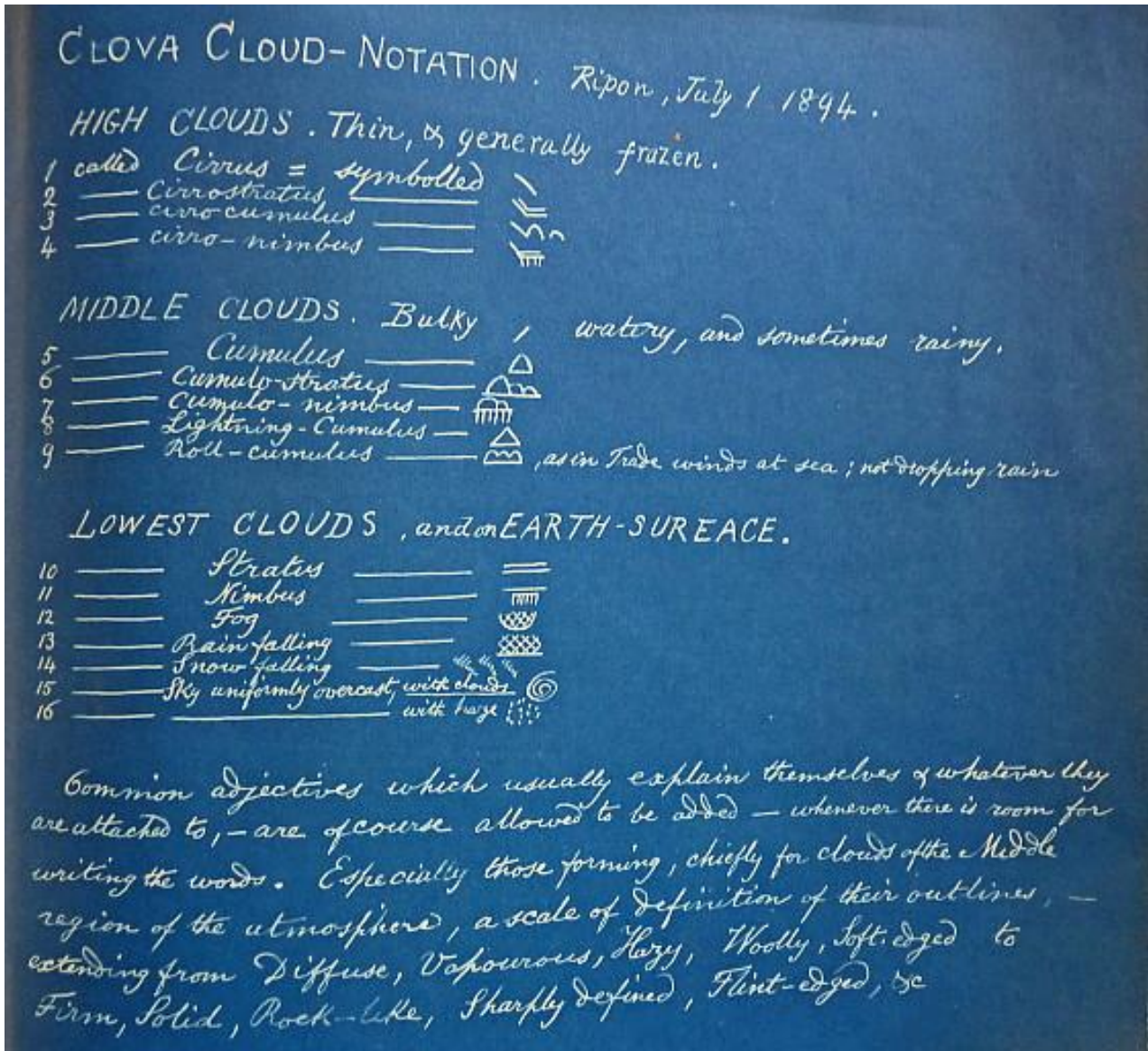


Figure 11:
Cloud notation page

January 1892. Instrumentals normally read between 8^{h.} m h. m. A.M. 10^{h.} 8^{h.} 30^{h.} each day.

| Date | BAROM. ^F
In. | THERMOM. ^F | | Spectrosc. ^C | | WIND | | EARTH. ^C
1. Dry
2. Wet
3. Snow
4. Frost | AIR. ^C
1. ch.
2. lg.
3. ma.
4. fog | CLOUD
to
10. of
flam. | Sun-shine | | RAIN. | | NIGHT
Cal. day
number. | Photos
taken
Cont. N. |
|------|----------------------------|-----------------------|------|-------------------------|-----------|---------------|---------|--|---|----------------------------------|-----------|------|-------|------|------------------------------|-----------------------------|
| | | In. | Out | Rain
32 | Low
62 | Vel.
m. h. | Direct. | | | | A.M. | P.M. | A.M. | P.M. | | |
| 1 | 29.64 | 59.0 | 37.3 | 1 | 7 | 8 | NW | Dry | chr. | 1 | 000000 | | | | 21 | |
| 2 | 29.95 | 58.0 | 40.0 | 2 | 5 | 3 | W | Dry | chr. | 9 | 000000 | | | | 22 | |
| 3 | 29.82 | 59.5 | 34.1 | 0 | 7 | 5 | NW | Dry | chr. | 0 | 000000 | | | | 23 | |
| 4 | 29.92 | 57.6 | 31.2 | 0 | 8 | 3 | NW | Dry | chr. | 5 | 000000 | | | | 24 | |
| 5 | 29.56 | 56.0 | 37.5 | 2 | 3 | 3 | SW | wt. | lg. | 10 | 000000 | | | | 25 | |
| 6 | 29.12 | 56.4 | 30.3 | 0 | 6 | 5 | N | frost | chr. | 3 | 000000 | | | | 26 | |
| 7 | 29.18 | 55.4 | 31.0 | 1 | 5 | 3 | NW | snur | lg. | 10 | 000000 | | | | 27 | |
| 8 | 29.19 | 55.0 | 31.0 | 0 | 7 | 1 | NW | snur | chr. | 9 | 000000 | | | | 28 | |
| 9 | 29.37 | 55.6 | 29.5 | 3 | 6 | 1 | N | snur | chr. | 7 | 000000 | | | | 29 | |
| 10 | 29.53 | 55.6 | 27.6 | 3 | 5 | 1 | NE | snur | chr. | 5 & 10 | 000000 | | | | 30 | |
| 11 | 29.85 | 54.0 | 32.3 | 2 | 6 | 2 | N | snur | chr. | 8 | 000000 | | | | 31 | |
| 12 | 29.70 | 54.8 | 37.0 | 3 | 6 | 0 | | snur | chr. | 10 | 000000 | | | | 32 | |
| 13 | 29.66 | 57.0 | 33.0 | 1 | 4 | 1 | NW | snur | lg. | 10 | 000000 | | | | 33 | |
| 14 | 29.37 | 54.5 | 31.0 | 2 | 4 | 3 | SW | snur | md. | 10 | 000000 | | | | 34 | |
| 15 | 29.38 | 55.2 | 29.5 | 2 | 5 | 0 | | snur | fog | 10 | 000000 | | | | 35 | |
| 16 | 29.37 | 52.3 | 21.5 | 1 | 4 | 0 | | snur | fog | 10 | 000000 | | | | 36 | |
| 17 | 29.54 | 52.8 | 31.5 | 2 | 4 | 1 | SW | snur | md. | 10 | 000000 | | | | 37 | |
| 18 | 29.68 | 54.5 | 35.0 | 2 | 5 | 2 | SW | snur | md. | 10 | 000000 | | | | 38 | |
| 19 | 29.78 | 55.2 | 35.0 | 2 | 4 | 1 | SE | snur | fog | 10 | 000000 | | | | 39 | |
| 20 | 29.77 | 54.4 | 33.3 | 2 | 4 | 1 | SE | snur | fog | 10 | 000000 | | | | 40 | |
| 21 | 29.82 | 56.4 | 24.5 | 0 | 3 | 1 | SE | snur | fog | 10 | 000000 | | | | 41 | |
| 22 | 29.63 | 56.5 | 36.8 | 1 | 3 | 1 | SW | snur | md. | 10 | 000000 | | | | 42 | |
| 23 | 29.78 | 57.2 | 35.2 | 2 | 5 | 0 | | snur | fg. | 10 | 000000 | | | | 43 | |
| 24 | 29.90 | 57.2 | 39.5 | 1 | 6 | 1 | NW | snur | chr. | 1 | 000000 | | | | 44 | |
| 25 | 30.25 | 59.0 | 35.5 | 0 | 7 | 2 | NW | frost | chr. | 1 | 000000 | | | | 45 | |
| 26 | 30.20 | 59.3 | 40.4 | 2 | 7 | 4 | W | frost | chr. | 8 | 000000 | | | | 46 | |
| 27 | 29.82 | 61.0 | 46.5 | 2 | 4 | 2 | SW | wt. | md. | 9 | 000000 | | | | 47 | |
| 28 | 29.98 | 57.5 | 39.4 | 2 | 7 | 5 | W | Dry | lg. | 8 | 000000 | | | | 48 | |
| 29 | 29.78 | 59.4 | 50.8 | 3 | 4 | 10 | W | wt. | chr. | 10 | 000000 | | | | 49 | |
| 30 | 29.82 | 60.0 | 47.0 | 2 | 5 | 7 | W | wt. | chr. | 5 | 000000 | | | | 50 | |
| 31 | 29.92 | 60.0 | 41.4 | 1 | 6 | 2 | NW | Dry | chr. | 3 | 000000 | | | | 51 | |

Jan. 1st, 3rd, & 6th. Described as days of most brilliant sunshine & perfect blue sky.
 From Jan. 7 to Jan. 23, a period of most unusual cloud, snow, darkness & fog.
 On Jan. 25 Sun appears again for a day, but is followed by hoar frost, rain & darkness again.
 Barom. below 30.00 on 29 days; above, only on 2.

February, 1892. Instrumentals normally read, between 8.10 & 8.30, A.M. each day.

| Month | Day | BAROM. ⁱⁿ | | THERMOM. S | | Spectros. ^e | | WIND, | | EARTH | | AIR | | CLOUD. | | Sun | | Rain. | | NIGHT
Cat. day
numbr? | Photos
taken |
|-------|-------|----------------------|--------|---------------|---------------|------------------------|-------------|-------------------|---------|---|--|----------------------------|------|--------|------|------|--|-------|--|-----------------------------|-----------------|
| | | 29.4 < | 30.4 > | In.
o Fah. | Out
o Fah. | Rain
band | Low
band | Vel.
m.s
hr | Direct. | 1 = dry
2 = wet
3 = snow
4 = frost | 1 = cln
2 = hz
3 = m. fog
4 = fog | 1 to 10,
tenths
Hem. | A.M. | P.M. | A.M. | P.M. | | | | | |
| 1 | 29.15 | | | 59.6 | 46.5 | 2 | 4 | 25 | WSW | wet | hz | 1068 | | | | | | | | | |
| 2 | 28.92 | | | 58.0 | 31.5 | 1 | 5 | 10 | W | snow | cln | 5 | | | | | | | | 1 | |
| 3 | 29.07 | | | 55.0 | 37.0 | 2 | 6 | 9 | N | snow | cln | 7.2 | | | | | | | | 2 | |
| 4 | 29.56 | | | 55.0 | 29.8 | 1 | 6 | 1 | NW | fst | cln | 2.9 | | | | | | | | 3 | |
| 5 | 29.32 | | | 54.7 | 38.0 | 1 | 5 | 4 | WNW | wet | hz | 5 | | | | | | | | 4 | |
| 6 | 29.60 | | | 57.3 | 40.4 | 2 | 3 | 2 | NW | wet | hz | 9 | | | | | | | | 5 | |
| 7 | 29.70 | | | 58.6 | 44.2 | 3 | 5 | 1 | WSW | wet | hz | 10 | | | | | | | | 6 | |
| 8 | 29.50 | | | 60.4 | 43.6 | 2 | 4 | 1 | W | wet | ms | 10 | | | | | | | | 7 | |
| 9 | 30.14 | | | 59.2 | 41.0 | 1 | 3 | 2 | NW | dry | hz | 10 | | | | | | | | 8 | |
| 10 | 30.17 | | | 61.0 | 36.8 | 2 | 7 | 1 | NW | dry | hz | 1 | | | | | | | | 9 | |
| 11 | 30.31 | | | 60.5 | 34.5 | 1 | 6 | 0 | 0 | fst | hz | 1 | | | | | | | | 10 | |
| 12 | 30.38 | | | 60.0 | 37.6 | 1 | 5 | 3 | NW | fst | cln | 2 | | | | | | | | 11 | |
| 13 | 30.47 | | | 59.6 | 35.4 | 2 | 6 | 3 | NW | dry | cln | 40.9 | | | | | | | | 12 | |
| 14 | 30.03 | | | 58.8 | 36.0 | 2 | 3 | 1 | W | wet | fog | 10 | | | | | | | | 13 | |
| 15 | 29.48 | | | 58.0 | 36.2 | 2 | 4 | 5 | NE | wet | ms | 10 | | | | | | | | 14 | |
| 16 | 29.73 | | | 55.6 | 25.8 | 1 | 5 | 2 | NE | snow | cln | 8 | | | | | | | | 15 | |
| 17 | 29.25 | | | 54.0 | 26.5 | 1 | 3 | 1 | NE | snow | cln | 10 | | | | | | | | 16 | |
| 18 | 29.12 | | | 52.5 | 26.5 | 2 | 4 | 3 | N | snow | cln | 3 | | | | | | | | 17 | |
| 19 | 29.31 | | | 50.3 | 24.0 | 1 | 4 | 2 | N | snow | cln | 9 | | | | | | | | 18 | |
| 20 | 29.32 | | | 52.2 | 31.4 | 1 | 2 | 4 | NE | snow | haz. | 10 | | | | | | | | 19 | |
| 21 | 29.30 | | | 55.2 | 35.4 | 3 | 4 | 2 | NE | snow | haz. | 10 | | | | | | | | 20 | |
| 22 | 29.50 | | | 56.2 | 34.4 | 2 | 4 | 0 | 0 | snow | fog | 10 | | | | | | | | 21 | |
| 23 | 29.67 | | | 57.3 | 33.5 | 1 | 3 | 0 | 0 | fst | ms | 3 to 10 | | | | | | | | 22 | |
| 24 | 29.74 | | | 59.6 | 37.2 | 1 | 2 | 0 | 0 | wet | fog | 10 | | | | | | | | 23 | |
| 25 | 29.80 | | | 60.0 | 36.4 | 2 | 3 | 0 | 0 | wet | fog | 10 | | | | | | | | 24 | |
| 26 | 29.98 | | | 60.0 | 37.1 | 2 | 2 | 0 | 0 | wet | fog | 10 | | | | | | | | 25 | |
| 27 | 30.05 | | | 59.6 | 36.3 | 1 | 2 | 0 | 0 | wet | ms | 10 | | | | | | | | 26 | |
| 28 | 29.89 | | | 58.0 | 37.0 | 2 | 3 | 3 | N | wet | haz. | 8 | | | | | | | | 27 | |
| 29 | 29.84 | | | 56.0 | 36.7 | 1 | 2 | 3 | NE | wet | haz. | 10 | | | | | | | | 28 | |

Brightest Sunshine on Febr. 3, 11, 12 & 18.
 Snow on Febr. 2 & 3, but more particularly as a continuance from Febr. 16 to 23.
 Long period of dark cloudy ~~hazy~~ skies, & foggy air from Febr. 19 to Febr. 29.
 Lowest Bar. = Febr. 2, & lowest therm. on Febr. 19.
 Strongest wind on Febr. 1. Bar. below 29.99 on 22 days; above, on 7 days.

March, 1892. Instrumentals normally read, between 8.10 & 8.30 A.M. each day.

| Date | BAROM. R | | THERMOM. S | | Spectrose. ° | | WIND. | EARTH | AIR | CLOUD | Sun & Moon | | Rain | | NIGHT | Other |
|------|----------|-------|------------|------|--------------|-------|-------|-------|------|-------|------------|-------|------|------|-------|-------|
| | 29.99 | 30.00 | In. | Out. | Rain | Clear | | | | | Part. | Shine | A.M. | P.M. | | |
| 1 | 29.93 | | 56.5 | 35.0 | 1 | 2 | 2 | NE | wet | haz. | 9 | | | | | |
| 2 | 30.08 | | 56.7 | 32.0 | 2 | 3 | 4 | NE | drur | haz. | 10 | | | | | |
| 3 | 30.27 | | 55.2 | 29.4 | 1 | 2 | 2 | NE | drur | haz. | 10 | | | | | |
| 4 | 30.28 | | 55.0 | 31.0 | 2 | 3 | 1 | E | dry | haz. | 7 | | | | | 3.44 |
| 5 | 30.28 | | 55.4 | 33.2 | 1 | 3 | 2 | NNE | dry | haz. | 9 | | | | | |
| 6 | 30.17 | | 57.3 | 31.5 | 2 | 3 | 1 | N | drur | md. | 10 | | | | | |
| 7 | 29.98 | | 57.0 | 31.5 | 1 | 3 | 1 | NE | dry | cl. | 10 | | | | | |
| 8 | 29.86 | | 55.1 | 30.2 | 1 | 2 | 2 | NE | dry | haz. | 10 | | | | | |
| 9 | 29.38 | | 57.3 | 32.2 | 2 | 4 | 1 | NW | drur | cl. | 6 | | | | | 5.26 |
| 10 | 29.08 | | 57.0 | 28.4 | 2 | 2 | 5 | SE | drur | md. | 10 | | | | | |
| 11 | 29.47 | | 53.3 | 31.0 | 1 | 4 | 5 | E | drur | cl. | 9 | | | | | |
| 12 | 29.67 | | 54.8 | 29.0 | 2 | 3 | 4 | NW | drur | cl. | 3-8 | | | | | |
| 13 | 29.18 | | 55.3 | 32.5 | 2 | 2 | 3 | NE | drur | cl. | 7 | | | | | |
| 14 | 29.33 | | 56.5 | 27.3 | 1 | 3 | 1 | NW | drur | cl. | 9 | | | | | |
| 15 | 29.37 | | 57.5 | 32.3 | 2 | 1 | 1 | W | drur | md. | 10 | | | | | 7.28 |
| 16 | 29.70 | | 57.0 | 37.5 | 2 | 3 | 2 | NW | drur | cl. | 0-10 | | | | | |
| 17 | 29.88 | | 62.0 | 48.3 | 2 | 2 | 4 | SW. | wet | haz. | 10 | | | | | |
| 18 | 30.21 | | 62.3 | 46.5 | 2 | 3 | 1 | SW | wet | haz. | 5 | | | | | |
| 19 | 30.27 | | 63.2 | 36.2 | 1 | 3 | 3 | NE | drur | haz. | 2 | | | | | |
| 20 | 30.21 | | 63.0 | 39.2 | 1 | 2 | 2 | E | drur | haz. | 4 | | | | | |
| 21 | 30.27 | | 61.4 | 29.6 | 1 | 2 | 0 | NE | drur | fog. | 10 | | | | | |
| 22 | 30.46 | | 61.0 | 40.0 | 3 | 4 | 12 | NE | wet | cl. | 7 | | | | | |
| 23 | 30.47 | | 60.8 | 41.5 | 3 | 3 | 1 | NW | dry | md. | 9 | | | | | |
| 24 | 30.20 | | 62.2 | 44.0 | 2 | 2 | 1 | W | dry | md. | 8-2 | | | | | |
| 25 | 29.98 | | 64.7 | 39.6 | 1 | 2 | 0 | O | dry | md. | 9-4 | | | | | |
| 26 | 29.58 | | 62.3 | 41.4 | 1 | 2 | 1 | W | dry | haz. | 10 | | | | | |
| 27 | 29.71 | | 55.3 | 33.2 | 3 | 3 | 12 | NE | drur | md. | 10 | | | | | |
| 28 | 29.91 | | 54.2 | 31.2 | 1 | 4 | 2 | NW | drur | cl. | 0-7 | | | | | |
| 29 | 30.37 | | 54.0 | 32.9 | 1 | 3 | 3 | N | dry | cl. | 7 | | | | | |
| 30 | 30.54 | | 55.8 | 29.7 | 1 | 2 | 2 | NE | drur | md. | 4 | | | | | |
| 31 | 30.56 | | 59.0 | 35.7 | 1 | 2 | 1 | W | drur | md. | 2 | | | | | |

Barom. rays below 29.99 = 16; above 30.00 = 15.
 Snow period from March 8 to March 15.
 Snow squalls with very low Barom. on March 10.
 Very brilliant sunshine only on March 28, 30 & 31.
 Lowest Thermom. on March 10; but that not very low.
 On March 15 noted, brilliant starlight last night; thickly snowing this morning.

April, 1892. Instrumentals (copy!) normally read, between 8.10, 8.30 A.M. each day.

| Month
Year
Day | BAROM. ¹⁰⁰ | | THERMOM. ² | | Spectros. ^c | | WIND. | | EARTH | | CLOUD
1 to 10,
Fath's
Hem. ^o | Sun ^o Shine | | Rain. | | NIGHT
Cal. day
number. | Photos
taken. |
|----------------------|-----------------------|----------------|-----------------------|---------------|------------------------|--------------|--|------|---|---|--|------------------------|-------|-------|-------|------------------------------|------------------|
| | 29.90
29.92 | 30.00
30.02 | In
° Fah. | Out
° Fah. | RAIN
band. | LOW
band. | Vel.
m. ^o
h. ^o | Dir. | 1 = dry
2 = wet
3 = mist
4 = fog | 1 = cl.
2 = haz
3 = mist
4 = fog | | A. M. | P. M. | A. M. | P. M. | | |
| 21 | | 30.37 | 62.5 | 46.0 | 1 | 3 | 0 | 0 | Dry | ms | 8 | | | | | 21 | |
| 22 | | 30.37 | 63.4 | 39.6 | 1 | 2 | 1 | NW | Dry | ms | 6 | | | | | 22 | |
| 23 | | 30.18 | 64.2 | 45.2 | 1 | 1 | 0 | 0 | Dry | haz. | 3 | | | | | 23 | |
| 24 | 29.90 | | 61.4 | 40.5 | 2 | 1 | 1 | SE | Dry | haz. | 3 | | | | | 24 | |
| 25 | 29.97 | | 61.4 | 43.4 | 2 | 2 | 1 | NW | Dry | ms | 9 | | | | | 25 | |
| 26 | 29.90 | | 60.8 | 49.5 | 4 | 2 | 1 | SE | wet | ms | 10 | | | | | 26 | |
| 27 | 29.94 | | 59.0 | 46.6 | 3 | 2 | 1 | NE | wet | ms | 10 | | | | | 27 | |
| 28 | 29.97 | | 55.4 | 40.8 | 2 | 1 | 10 | NE | Dry | ms | 10-8 | | | | | 28 | |
| 29 | | 30.02 | 54.5 | 43.7 | 1 | 1 | 2 | NE | Dry | clr | 10 | | | | | 29 | |
| 30 | | 30.01 | 54.0 | 46.5 | 2 | 3 | 3 | NE | Dry | clr | 3 | | | | | 30 | |
| 1 | 29.90 | | 53.2 | 36.0 | 1 | 1 | 3 | N | Dry | fog | 10-4 | | | | | 31 | |
| 2 | 29.89 | | 56.4 | 41.7 | 2 | 2 | 2 | NE | wet | clr. | 10 | | | | | 1 | |
| 3 | 29.87 | | 56.7 | 35.8 | 3 | 3 | 4 | N | snw | clr. | 8 | | | | | 2 | |
| 4 | 29.63 | | 56.4 | 35.2 | 2 | 3 | 2 | N | fnt | clr | 1 to 8 | | | | | 3 | 9x10 |
| 5 | 29.63 | | 57.5 | 31.2 | 2 | 3 | 2 | N | snw. | clr. | 4 | | | | | 4 | 11 |
| 6 | 29.57 | | 57.6 | 30.5 | 1 | 3 | 4 | N | snw | clr. | 4 to 9 | | | | | 5 | 12 |
| 7 | 29.61 | | 56.0 | 38.6 | 3 | 4 | 10 | N | fnt | clr. | 5 | | | | | 6 | 13 |
| 8 | 29.88 | | 57.0 | 39.5 | 2 | 4 | 2 | NE | Dry | clr. | 3 | | | | | 7 | |
| 9 | | 30.23 | 57.4 | 37.4 | 1 | 3 | 1 | NW | Dry | clr. | 1 to 2 | | | | | 8 | |
| 10 | | 30.14 | 61.0 | 44.8 | 2 | 2 | 1 | WSW | Dry | fog | 10 | | | | | 9 | |
| 11 | | 30.02 | 63.5 | 52.0 | ? | ? | 2 | W | Dry | haz | 10 | | | | | 10 | |
| 12 | | 30.04 | 63.2 | 55.5 | 4 | 2 | 5 | W | wet | clr | 8 | | | | | 11 | |
| 13 | | 30.24 | 61.3 | 50.2 | 2 | 2 | 5 | W | Dry | clr | 7 | | | | | 12 | |
| 14 | | 30.17 | 60.3 | 48.4 | 1 | 5 | 7 | W | Dry | clr. | 1 to 3 | | | | | 13 | |
| 15 | 29.73 | | 59.4 | 48.5 | 3 | 3 | 8 | N | Dry | clr. | 7 | | | | | 14 | 14x15 |
| 16 | 29.75 | | 56.6 | 41.7 | 2 | 3 | 5 | N | wet | clr. | 8 | | | | | 15 | |
| 17 | 29.58 | | 54.2 | 41.3 | 2 | 1 | 3 | W | Dry | haz. | 10 to 7 | | | | | 16 | |
| 18 | 29.60 | | 55.0 | 38.0 | 2 | 2 | 20 | NE | wet | haz | 10 to 8 | | | | | 17 | |
| 19 | 29.83 | | 54.5 | 40.0 | 2 | 3 | 10 | N | Dry | clr. | 5 | | | | | 18 | |
| 20 | | 30.04 | 57.8 | 46.6 | 1 | 5 | 2 | NW | Dry | clr | 2 to 3 | | | | | 19 | |

April 11 to April 15, a peculiarly cold week, grand clouds of snow squalls.
 April 21 to April 24, high temperatures again.
 April 10, brilliant Sunshine after a week of dark mist.
 April 19 to April 30, days of brilliant Sunshine.
 Barom. 18 days below 29.991 and 12 above 30.00, in this month.

May, 1892. Instrumentals normally read, between 8.10 & 3.30 A. Meanly

| Date | BAROM. ^R
29.94 30.00 | THERMOM. ^S | | Spectrosc. ^C | | WIND | | EARTH
1= dry
2= wet
3= minor
4= fog | AIR
1= cbr.
2= haz.
3= ms.
4= fog | CLOUD
1 to 10
tenths
Fem. ^C | Sun. Shine | | Rain | | NIGHT
Cal. day
number | Photos
taken |
|------|------------------------------------|-----------------------|--------------|-------------------------|----------|--------------|--------------|---|---|---|------------|-------|-------|-------|-----------------------------|-----------------|
| | | In
°Fah. | Out
°Fah. | Rain
band. | Low
° | Vel.
m.p. | Direct.
° | | | | A. M. | P. M. | A. M. | P. M. | | |
| 1 | 29.92 | 62.3 | 48.4 | 1 | 2 | 1 | SW | dry | haz. | 3 | | | | | 01 | Cont. N. |
| 2 | 29.83 | 64.0 | 46.0 | 2 | 3 | 1 | NE | dry | haz. | 8 | | | | | 02 | |
| 3 | 29.78 | 57.4 | 41.6 | 2 | 2 | 12 | NE | wet | haz. | 10 | | | | | 03 | |
| 4 | 29.80 | 55.4 | 44.7 | 1 | 1 | 10 | NE | dry | haz. | 8 | | | | | 04 | |
| 5 | 29.89 | 53.2 | 42.5 | 2 | 2 | 6 | NE | wet | cbr. | 7 | | | | | 05 | 16 |
| 6 | 30.06 | 51.8 | 42.8 | 1 | 2 | 5 | NE | dry | cbr. | 5 | | | | | 06 | 17 |
| 7 | 29.97 | 56.0 | 49.0 | 1 | 1 | 4 | NW | dry | cbr. | 2-5 | | | | | 07 | |
| 8 | 30.02 | 61.3 | 51.5 | 2 | 1 | 1 | NW | dry | cbr. | 9-4 | | | | | 08 | |
| 9 | 30.12 | 61.0 | 49.2 | 1 | 2 | 2 | W | dry | cbr. | 1 to 3 | | | | | 09 | |
| 10 | 30.20 | 60.5 | 43.4 | 2 | 2 | 1 | SE | dry | ms. | 10-2 | | | | | 10 | |
| 11 | 30.33 | 59.7 | 47.2 | 2 | 3 | 3 | N | dry | cbr. | 0 | | | | | 11 | 18 |
| 12 | 30.40 | 59.7 | 44.8 | 2 | 3 | 4 | NE | dry | haz. | 0 to 7 | | | | | 12 | 19 |
| 13 | 30.19 | 61.6 | 49.2 | 3 | 1 | 1 | SE | wet | ms. | 10 | | | | | 13 | |
| 14 | 29.81 | 61.5 | 55.2 | 5 | 1 | 15 | SW | wet | cbr. | 9-5 | | | | | 14 | 20, 21 |
| 15 | 29.83 | 61.6 | 51.0 | 2 | 1 | 8 | SW | dry | cbr. | 10 | | | | | 15 | 22, 23 |
| 16 | 29.51 | 60.8 | 48.5 | 2 | 1 | 5 | W | wet | haz. | 9 | | | | | 16 | |
| 17 | 29.73 | 59.4 | 51.0 | 2 | 1 | 6 | N | dry | cbr. | 10 | | | | | 17 | |
| 18 | 29.90 | 58.2 | 46.5 | 3 | 1 | 2 | NE | wet | ms. | 10 | | | | | 18 | |
| 19 | 29.78 | 57.6 | 48.4 | 2 | 2 | 1 | SE | wet | cbr. | 8 | | | | | 19 | 26, 27 |
| 20 | 29.60 | 60.2 | 53.0 | 3 | 2 | 7 | W | wet | cbr. | 7 to 10 | | | | | 20 | 30 |
| 21 | 29.92 | 58.7 | 46.5 | 2 | 2 | 1 | W | dry | cbr. | 3 | | | | | 21 | |
| 22 | 29.87 | 59.0 | 52.4 | 3 | 2 | 1 | NE | dry | haz. | 10 | | | | | 22 | |
| 23 | 29.70 | 59.0 | 55.0 | 2 | 1 | 3 | W | wet | ms. | 9 | | | | | 23 | |
| 24 | 29.67 | 60.8 | 59.5 | 3 | 1 | 5 | S. | dry | ms. | 10 | | | | | 24 | |
| 25 | 29.68 | 62.0 | 55.0 | 6 | 3 | 1 | W. | wet | ms. | 10 | | | | | 25 | |
| 26 | 29.77 | 63.5 | 58.8 | 4 | 2 | 0 | | dry | ms. | 10 | | | | | 26 | |
| 27 | 29.63 | 65.4 | 61.2 | 3 | 2 | 3 | SW | dry | haz. | 8 | | | | | 27 | |
| 28 | 29.77 | 68.0 | 54.8 | 3 | 1 | 5 | N | wet | ms. | 10 | | | | | 28 | |
| 29 | 29.73 | 65.1 | 59.2 | 3 | 2 | 10 | W | dry | cbr. | 6 | | | | | 29 | 31 |
| 30 | 29.89 | 64.2 | 60.4 | 2 | 1 | 7 | SW. | dry | haz. | 10 | | | | | 30 | |
| 31 | 29.82 | 64.9 | 59.8 | 3 | 1 | 4 | SW. | wet | haz. | 7 | | | | | 31 | |

3 very brilliant & sunshiny days between May 9 & May 12
 After that, a period of 19 days, with ^{great} ~~rather~~ remarkable for photography on May 19. —
 But the temperature improves notably through the month and snow had
 ended in April. For Barom. 24 days were below 29.99; 47 above 30.00.

almost
50 days
of the
month

June, 1892. Instrumentals normally read between 8.10 & 8.30 A.M. each day. (Copy)

| Date | BAROM. ² | | THERMOM. ⁵ | | Spectrosc. ⁶ | | WIND | | EARTH. | AIR. | CLOUD | Sun & Moon | | Rain | | NIGHT. | Notes taken Cont. |
|------|---------------------|-------|-----------------------|-----------|-------------------------|----------|--------------|---------|---------------------------------------|---------------------------------------|-------------------------|------------|------|------|------|-----------------|-------------------|
| | 29.99 | 30.00 | In. °Fah. | Out °Fah. | Rain band | alt. 0-6 | Vel. m. & h. | Direct. | 1= Dry
2= wet
3= Snow
4= fog | 1= clr.
2= haz.
3= ms
4= fog | 1-5 10
2-10
Heav. | A.M. | P.M. | A.M. | P.M. | Cal. Day number | |
| 1 | 29.62 | | 67.4 | 57.8 | 3 | 2 | 5 | W | Dry | clr. | 7 | | | | | | |
| 2 | 29.47 | | 66.3 | 53.5 | 4 | 1 | 12 | SW | wet | ms. | 10 | | | | | 81 | 32 |
| 3 | 29.68 | | 63.4 | 48.6 | 3 | 2 | 10 | W | wet | clr. | 8 & 4 | | | | | 82 | 33, 34 |
| 4 | 29.88 | | 63.2 | 54.0 | 2 | 2 | 5 | SW | Dry | haz. | 9 & 3 | | | | | 83 | 35, 36 |
| 5 | 29.54 | | 62.7 | 56.5 | 5 | 2 | 3 | W | wet | clr. | 9 & 4 | | | | | 84 | 38 |
| 6 | | 30.08 | 63.6 | 53.5 | 3 | 2 | 2 | NE | wet | haz. | 4 | | | | | 85 | 39 to 41 |
| 7 | | 30.28 | 66.5 | 60.3 | 3 | 1 | 1 | NE | Dry | haz. | 1 | | | | | 86 | 42 |
| 8 | | 30.35 | 68.5 | 60.3 | 3 | 1 | 0 | N | Dry | haz. | 1 | | | | | 87 | |
| 9 | | 30.25 | 70.4 | 62.0 | 2 | 2 | 0 | N | Dry | haz. | 0 | | | | | 88 | |
| 10 | 29.97 | | 69.8 | 54.8 | 1 | 1 | 6 | N | Dry | ms. | 10 | | | | | 89 | |
| 11 | 29.75 | | 66.3 | 50.3 | 2 | 1 | 1 | N | wet | ms. | 10 | | | | | 90 | |
| 12 | 29.82 | | 60.6 | 50.3 | 2 | 3 | 1 | W | Dry | clr. | 3 & 8 | | | | | 91 | 43 |
| 13 | | 30.02 | 57.5 | 47.6 | 2 | 2 | 7 | N | Dry | clr. | 5 | | | | | 92 | |
| 14 | | 30.12 | 57.3 | 47.8 | 2 | 2 | 6 | NE | Dry | clr. | 8 | | | | | 93 | |
| 15 | 29.96 | | 59.3 | 54.0 | 3 | 3 | 2 | NE | Dry | haz. | 10 | | | | | 94 | |
| 16 | 29.77 | | 60.4 | 47.5 | 2 | 1 | 5 | N | wet | ms. | 10 | | | | | 95 | |
| 17 | 29.78 | | 58.4 | 49.0 | 1 | 2 | 7 | N | Dry | clr. | 6 | | | | | 96 | 44 |
| 18 | 29.82 | | 56.8 | 48.5 | 4 | 2 | 3 | NE | wet | haz. | 10 | | | | | 97 | |
| 19 | 29.74 | | 57.6 | 49.4 | 3 | 2 | 1 | NE | wet | haz. | 10 | | | | | 98 | |
| 20 | 29.57 | | 57.0 | 44.7 | 4 | 2 | 7 | W | wet | ms. | 10 | | | | | 99 | |
| 21 | 29.77 | | 57.3 | 54.5 | 2 | 1 | 2 | NE | Dry | clr. | 8 & 4 | | | | | 100 | |
| 22 | 29.78 | | 60.5 | 54.7 | 2 | 1 | 0 | S | wet | ms. | 8 & 5 | | | | | 101 | |
| 23 | 29.57 | | 62.1 | 52.6 | 2 | 1 | 5 | N | Dry | ms. | 10 & 1 | | | | | 102 | |
| 24 | 29.81 | | 62.5 | 61.5 | 3 | 2 | 0 | W | Dry | clr. | 8 & 4 | | | | | 103 | 45 |
| 25 | 29.88 | | 64.5 | 54.8 | 3 | 1 | 0 | N | Dry | ms. | 10 | | | | | 104 | 46 |
| 26 | 29.83 | | 65.0 | 59.3 | 4 | 2 | 4 | SW | Dry | clr. | 9 & 2 | | | | | 105 | |
| 27 | 29.87 | | 68.0 | 63.5 | 3 | 1 | 10 | W | Dry | ms. | 10 & 3 | | | | | 106 | 47 to 49 |
| 28 | | 30.14 | 67.6 | 63.0 | 3 | 1 | 1 | W | Dry | clr. | 9 & 10 | | | | | 107 | |
| 29 | 29.90 | | 65.5 | 51.0 | 3 | 2 | 10 | N | wet | ms. | 10 & 0 | | | | | 108 | |
| 30 | | 30.17 | 64.5 | 61.0 | 2 | 2 | 3 | W | Dry | clr. | 8 | | | | | 109 | 50 |

Barometer = 22 days below 29.99 & eight days above 30.00
 From June 6 to June 9 inclusive eminently sunny days
 But more than 11 days follow this last date with continually cloudy skies.
 On June 3, noted accession of cold to the out Therm. and therewith more density
 character to the clouds. On 8 June 14, Grand, majestic clouds, of cumulostratic character.

July, 1892. Instrumentals normally read between 8.10 & 8.30 A.M. each day. (Copy 1)

| Date | BAROM. ^R
In. ²⁰ | THERMOM. ^S | | Spectrosc. ^e | | WIND | | EARTH | AIR | CLOUD | Sun Shine | | Rain | | NIGHT | Notes |
|------|--|-----------------------|--------------------|-------------------------|-------------------|--------------------|----------------------|-------|------|-------|-----------|------|------|------|-------|----------|
| | | In. ²⁰ | Out. ²⁰ | Rain bands | Low ²⁰ | Vel. ²⁰ | Direct ²⁰ | | | | A.M. | P.M. | A.M. | P.M. | | |
| 1 | 30.04 | 66.0 | 62.3 | 2 | 2 | 4 | W | dry | clr. | 9-7 | | | | | | |
| 2 | 30.01 | 67.8 | 63.0 | 1 | 1 | 0 | 0 | dry | haz | 9 | | | | | | None. |
| 3 | 29.68 | 68.7 | 62.3 | 3 | 1 | 2 | W | dry | haz | 9-7 | | | | | | 21
22 |
| 4 | 29.68 | 68.6 | 58.3 | 4 | 3 | 12 | W | wet | clr. | 7-5 | | | | | | 23 |
| 5 | 29.68 | 67.5 | 58.0 | 3 | 2 | 9 | SW | wet | clr. | 9-6 | | | | | | 24 |
| 6 | 29.73 | 67.0 | 54.2 | 3 | 2 | 5 | SSW | dry | clr. | 9-10 | | | | | | 25 |
| 7 | 29.77 | 65.8 | 59.4 | 4 | 2 | 25 | NW | wet | clr. | 5-3 | | | | | | 26 |
| 8 | 29.64 | 65.6 | 56.5 | 2 | 2 | 20 | W | dry | clr. | 9-6 | | | | | | 27 |
| 9 | 29.92 | 65.6 | 56.5 | 2 | 1 | 3 | SW | dry | haz. | 9 | | | | | | 28 |
| 10 | 29.90 | 64.2 | 56.5 | 2 | 1 | 3 | N. | wet | haz. | 10 | | | | | | 29 |
| 11 | 29.98 | 64.0 | 55.0 | 2 | 1 | 1 | W | dry | haz. | 9-6 | | | | | | 30 |
| 12 | 29.73 | 64.0 | 56.0 | 2 | 1 | 2 | E | dry | clr. | 10 | | | | | | 31 |
| 13 | 29.60 | 62.7 | 53.5 | 3 | 2 | 3 | NE | dry | clr. | 10 | | | | | | 32 |
| 14 | 29.83 | 62.0 | 52.1 | 2 | 0 | 6 | N. | dry | haz. | 10 | | | | | | 33 |
| 15 | 29.94 | 61.0 | 54.3 | 2 | 1 | 0 | W | dry | haz. | 10 | | | | | | 34 |
| 16 | 29.86 | 61.4 | 54.7 | 2 | 1 | 1 | N | wet | ms. | 10 | | | | | | 35 |
| 17 | 29.81 | 60.4 | 51.0 | 2 | 1 | 2 | E | dry | haz. | 9 | | | | | | 36 |
| 18 | 29.85 | 59.5 | 53.0 | 2 | 1 | 0 | ? | dry | haz. | 5-9 | | | | | | 37 |
| 19 | 29.70 | 60.0 | 51.0 | 0! | 2 | 7 | SW | wet | ms. | 10 | | | | | | 38 |
| 20 | 29.96 | 59.2 | 55.2 | 3 | 1 | 10 | N | wet | clr. | 8 | | | | | | 39 |
| 21 | 30.25 | 59.1 | 53.8 | 3 | 2 | 1 | NW | dry | clr. | 2 | | | | | | 40 |
| 22 | 30.12 | 63.5 | 64.0 | 2 | 1 | 0 | NW | dry | haz | 9 | | | | | | 41 |
| 23 | 30.21 | 65.3 | 60.5 | 4 | 2 | 2 | N | dry | clr. | 5 | | | | | | 42 |
| 24 | 30.30 | 65.8 | 57.5 | 3 | 2 | 0 | SE | dry | haz. | 1 | | | | | | 43 |
| 25 | 30.28 | 66.5 | 55.3 | 2 | 1 | 0.2 | SW | dry | haz. | 0-2 | | | | | | 44 |
| 26 | 30.26 | 66.2 | 55.0 | 1 | 0 | 0 | SW | dry | ms. | 10 | | | | | | 45 |
| 27 | 30.25 | 66.0 | 61.6 | 1 | 0 | 1 | SE | dry | clr. | 10 | | | | | | 46 |
| 28 | 30.23 | 64.0 | 58.4 | 1 | 0.5 | 2 | S | dry | clr. | 8 | | | | | | 47 |
| 29 | 30.22 | 65.0 | 56.5 | 2 | 1 | 2 | N. | dry | haz. | 10 | | | | | | 48 |
| 30 | 30.15 | 64.7 | 54.3 | 2 | 1 | 1 | NE | wet | ms. | 10 | | | | | | 49 |
| 31 | 29.89 | 65.8 | 58.8 | 5 | 2 | ? | ? | dry | clr. | 7 | | | | | | 50 |

July 3, noted Thunder showers; i.e. heavy gusts of rain, large hailstones & frequent lightning.
 July 7 & 8; no rain of any consequence with the fall of Barom. Only wind.
 July 24 & 25, two grandly sunshiny days but in midst of a long 20 days period of uniformly & utterly cloudy skies. !!!
 Barometer shows 19 days below 29.99, & 12 above 30.00 to the month.

August, 1892. Instrumentals (Copy 1) normally read between 8^h 10^m & 8^h 30^m A.M. each day.

| Month | BAROM. ^R | | THERMOM ^S | | Spectros ^c | | WIND | | EARTH
1 = dry
2 = wet
3 = snow
4 = frost | AIR.
1 = obs.
2 = haz.
3 = ms.
4 = fog. | CLOUD
1 to 10
tenths
flam. e | Sun ^{shine} | | Rain | | NIGHT
Col. day
number | Notes
Ex. Num.
Com. N. |
|-------|---------------------|--------------------|----------------------|----------------|-----------------------|-----------------------------|---------------------------------|---------|--|---|---------------------------------------|----------------------|-------|-------|-------|-----------------------------|------------------------------|
| | 29 ^h 99 | 30 ^h 00 | In.
° Fah. | Out.
° Fah. | Rain
band | Low
to
h ² | Vel.
spid.
h ² | Direct. | | | | A. M. | P. M. | A. M. | P. M. | | |
| 1 | 29.81 | | 66.5 | 63.2 | 3 | 2 | 5 | W | Dry | clr. | 9 | | | | | 61 | |
| 2 | | 30.07 | 64.3 | 52.8 | 3 | 1 | 1 | NE | wet | haz. | 10 | | | | | 62 | |
| 3 | 29.90 | | 64.0 | 65.0 | 4 | 2 | 1 | N | Dry | clr. | 5 | | | | | 63 | |
| 4 | 29.97 | | 63.5 | 54.3 | 2 | 1 | 1 | N | Dry | clr. | 10 | | | | | 64 | |
| 5 | 29.95 | | 64.7 | 58.2 | 3 | 2 | 2 | SW | Dry | clr. | 10 | | | | | 65 | |
| 6 | 29.73 | | 64.5 | 57.5 | 3 | 2 | 18 | W | wet | clr. | 8 | | | | | 66 | |
| 7 | 29.88 | | 64.0 | 58.5 | 3 | 2 | 5 | W | Dry | clr. | 6 | | | | | 67 | |
| 8 | 29.67 | | 65.4 | 54.9 | 3 | 1 | 16 | SW | wet | ms. | 10 | | | | | 68 | |
| 9 | 29.88 | | 62.0 | 53.5 | 2 | 0 | 12 | NW | wet | haz. | 9 | | | | | 69 | |
| 10 | | 30.16 | 61.5 | 51.0 | 1 | 1 | 0 | NW | Dry | clr. | 3 | | | | | 70 | |
| 11 | | 30.07 | 62.0 | 51.3 | 1 | 1 | 0 | SW | Dry | ms. | 6 | | | | | 71 | |
| 12 | 29.93 | | 63.7 | 63.2 | 4 | 2 | 5 | SW | Dry | haz. | 7 | | | | | 72 | |
| 13 | 29.60 | | 66.0 | 56.8 | 3 | 2 | 0 | S | wet | ms. | 10 | | | | | 73 | |
| 14 | 29.57 | | 65.6 | 62.0 | 3 | 2 | 10 | W | Dry | haz. | 9 | | | | | 74 | |
| 15 | 29.57 | | 66.0 | 59.3 | 4 | 2 | 20 | W | Dry | clr. | 3 | | | | | 75 | 51 |
| 16 | 29.97 | | 66.5 | 58.0 | 2 | 1 | 1 | SW | Dry | ms. | 10 | | | | | 76 | |
| 17 | 29.78 | | 66.4 | 56.7 | 3 | 2 | 2 | NW | wet | ms. | 10 | | | | | 77 | |
| 18 | 29.93 | | 65.1 | 55.3 | 3 | 1 | 0 | | Dry | ms. | 10 | | | | | 78 | |
| 19 | 29.62 | | 64.7 | 59.8 | 3 | 3 | 0 | | wet | haz. | 7 | | | | | 79 | |
| 20 | 29.91 | | 65.0 | 55.4 | 2 | 1 | 1 | NW | Dry | haz. | 1 | | | | | 80 | |
| 21 | | 30.03 | 68.0 | 64.7 | 4 | 2 | 3 | SW | Dry | haz. | 7 | | | | | 81 | |
| 22 | 29.97 | | 70.2 | 66.0 | 3 | 1 | 0 | | Dry | ms. | 6 | | | | | 82 | |
| 23 | 29.76 | | 68.3 | 62.5 | 2 | 1 | 1 | S | Dry | haz. | 2 | | | | | 83 | |
| 24 | 29.70 | | 70.4 | 60.5 | 4 | 2 | 0 | SW | wet | ms. | 9 | | | | | 84 | |
| 25 | 29.60 | | 68.2 | 59.6 | 3 | 2 | 0 | SW | Dry | haz. | 9 | | | | | 85 | |
| 26 | 29.84 | | 66.9 | 56.5 | 2 | 1 | 7 | W | Dry | clr. | 7 | | | | | 86 | 52 |
| 27 | 29.58 | | 66.3 | 55.0 | 3 | 1 | 15 | W | wet | ms. | 10 | | | | | 87 | 53 |
| 28 | 29.45 | | 64.2 | 57.2 | 2 | 1 | 4 | W | Dry | clr. | 5 | | | | | 88 | 54 |
| 29 | 29.65 | | 63.6 | 51.4 | 1.5 | 1 | 0 | | wet | ms. | 10 | | | | | 89 | |
| 30 | 29.82 | | 58.5 | 59.8 | 2 | 1 | 20 | SW | wet | ms. | 10 | | | | | 90 | 55 |
| 31 | 29.26 | | 58.4 | 58.4 | 1 | 0.5 | 25 | SW | Dry | ms. | 10 | | | | | 91 | 56 |

Not much Sun at any time during the month, & not for long at any time.
 But cloudy days very frequent, & continuous for three days at a time.
 Rains often heavy & on the 24th noted as thunder rains, with dark air.
 Barometer, below 29.99 for 27 days; above 30.00 for 12 days.

September, 1892. Instrumentals ^{Coke, 1/1} normally read between 8.10 & 8.30 A.M. each day.

| Date | BAROM. ³ | | THERMOM. ³ | | Spectros. ² | | WIND | | EARTH. ¹ | AIR. ¹ | CLOUD ^{1 to 10} | Sun & Shine | | Rain | | NIGHT ^{Cal. Day number} | Notes taken at Cont. # |
|------|---------------------|-------|-----------------------|----------|------------------------|------------|------------------|---------|---------------------|-------------------|--------------------------|--|--|--------------------------------|------|----------------------------------|------------------------|
| | 29.4 | 30.0 | In. °Fah | Out °Fah | Rain band. | Low 0 to 2 | Vel. m. d. h. r. | Direct. | | | | 1 = dry
2 = wet
3 = m. d.
4 = fog | 1 = cln.
2 = haz.
3 = ms.
4 = fog | 1 to 10
ten to 10
Hem. 2 | A.M. | | |
| 1 | 29.65 | | 63.0 | 52.8 | 3 | 2 | 4 | W | wet | haz | 10 | | | | | | |
| 2 | 29.36 | | 64.7 | 53.5 | 4 | 2 | 5 to 10 | W, NW | wet | clr. | 8 | | | | | | 57 |
| 3 | 29.45 | | 61.5 | 51.4 | 2 | 2 | 5 | NW | wet | clr. | 9 | | | | | | 58 |
| 4 | 29.98 | | 60.0 | 50.7 | 3 | 2 | 10 to 2 | N | dry | clr. | 7 | | | | | | 59 |
| 5 | | 30.18 | 57.6 | 47.5 | 2 | 1 | 0 | 0 | dry | clr. | 3 | | | | | | |
| 6 | | 30.14 | 60.0 | 53.6 | 2 | 1 | 1 | W | wet | ms. | 10 | | | | | | 60, 61. |
| 7 | 29.92 | | 61.3 | 54.0 | 3 | 1 | 0.8 | W | wet | ms. | 10 | | | | | | 62 |
| 8 | 29.97 | | 58.4 | 50.7 | 3 | 2 | 3 | NW | dry | clr. | 0 | | | | | | 63 |
| 9 | 29.88 | | 60.0 | 52.5 | 2 | 1 | 0 | 0 | dry | haz. | 3 | | | | | | 64 |
| 10 | 29.89 | | 62.2 | 59.8 | 3 | 1 | 3 | NW | dry | clr. | 10 to 5 | | | | | | 65, 66, 67 |
| 11 | 29.88 | | 63.2 | 51.6 | 3 | 1 | 0 | SW | wet | fog. | 10 | | | | | | 68 |
| 12 | 29.92 | | 62.0 | 53.8 | 1 | 1 | 0 | SSW | dry | haz. | 6 | | | | | | 69 |
| 13 | 29.52 | | 64.3 | 61.7 | 2 | 1 | 0 | 0 | dry | ms. | 10 | | | | | | 70 |
| 14 | 29.97 | | 62.2 | 52.0 | 2 | 2 | 3 | W. | dry | clr. | 2 to 9 | | | | | | 71, 72, 73 |
| 15 | 29.86 | | 62.0 | 56.5 | 1 | 1 | 4 | SW | dry | haz. | 7 | | | | | | 74 |
| 16 | 29.54 | | 60.8 | (57.0) | 2 | 1 | 5 to 12 | SW. | wet | clr. | 8 to 3 | | | | | | 75 |
| 17 | | 30.02 | 58.4 | 48.2 | 2 | 2 | 1 | N. | dry | clr. | 3 to 8 | | | | | | 76 |
| 18 | 29.97 | | 59.4 | 51.0 | 3 | 2 | 7 | NW | dry | haz. | 9 | | | | | | 77 |
| 19 | 29.71 | | 60.8 | 60.4 | 3 | 1 | 3 | SW | wet | clr. | 8 | | | | | | 78 to 79 |
| 20 | 29.98 | | 61.7 | 51.7 | 4 | 2 | 0 | 0 | wet | ms. | 10 | | | | | | 80 |
| 21 | | 30.07 | 59.6 | 49.7 | 3 | 2 | 10 | NNE | dry | clr. | 10 | | | | | | 81 |
| 22 | | 30.22 | 57.6 | 48.5 | 2 | 2 | 4 | N | dry | haz. | 1 to 10 | | | | | | 82 |
| 23 | | 30.00 | 59.5 | 52.5 | 3 | 1 | 1 | N | wet | ms. | 10 to 9 | | | | | | 83 |
| 24 | 29.67 | | 60.4 | 54.5 | 3 | 1 | 4 | NW | wet | clr. | 3 to 6 | | | | | | 84 to 85 |
| 25 | 29.63 | | 60.5 | 55.3 | 2 | 1 | 7 | W | dry | clr. | 5 to 9 | | | | | | 86 |
| 26 | 29.82 | | 61.0 | 53.5 | 1 | 0 | 5 | W | dry | haz. | 5 to 7 | | | | | | 87 |
| 27 | 29.38 | | 61.3 | 57.6 | 4 | 2 | 12 | SW | wet | haz. | 8 to 10 | | | | | | 88 to 89 |
| 28 | 29.54 | | 59.0 | 48.0 | 2 | 3 | 3 | NW | dry | clr. | 2 to 5 | | | | | | 90 |
| 29 | 29.45 | | 62.2 | 46.7 | 2 | 2 | 8 | SW | wet | haz. | 8 to 9 | | | | | | 91 |
| 30 | 29.28 | | 55.3 | 40.4 | 1 | 1 | 7 | W | wet | fog. | 2 to 10 | | | | | | 92 |

Barom. below 29.99 on 24 days, & above 30.00 on 6 days.
 The weather throughout this month was very broken, and periods of sunshine were very short, ^{too} intercalated with far longer variations of both cloud & rain; from the beginning to the end of the month.

October, 1892. Instrumentals normally read between 8.10 & 8.30 A.M. each day.

| Month & Week | BAROM. ^R | | THERMOM'S | | Spectrosc ^e | | WIND | | EARTH | AIR | CLOUD | Sun & Moon | | Rain | | NIGHT | Photos taken |
|--------------|---------------------|-------|-----------|-----------|------------------------|-----|------------|--------|--------------------------------------|------------------------------------|---------------------|------------|-------|-------|-------|--------|--------------|
| | Day | 11h | In. °Fah. | Out °Fah. | Rain band | low | Vel. m. h. | Direct | 1 = dry, 2 = wet, 3 = mod., 4 = fog. | 1 = obs, 2 = has, 3 = ms, 4 = fog. | 1 to 10, 10ths Home | A. M. | P. M. | A. M. | P. M. | number | |
| 1 | 29.25 | | 54.8 | 41.2 | 2 | 1 | 0 | | wet | fog. | 10 | | | | | 1 | |
| 2 | 29.33 | | 55.0 | 46.5 | 2 | 1 | 1 | SW. | wet | ms | 8 | | | | | 2 | |
| 3 | 29.39 | | 55.2 | 45.5 | 3 | 2 | 0 | W | wet | haz. | 10 | | | | | 3 | |
| 4 | 29.47 | | 58.5 | 44.8 | 2 | 2 | 0 | | wet | ms | 10 | | | | | 4 | |
| 5 | 29.27 | | 58.5 | 39.8 | ? | ? | 0 | | fog | ms | 3 to 8 | | | | | 5 | |
| 6 | 29.25 | | 59.0 | 41.7 | ? | 1 | 0 | W | dry | haz | 9 | | | | | 6 | |
| 7 | 29.10 | | 59.3 | 45.3 | 4 | 3 | 0 | | wet | haz | 9 | | | | | 7 | |
| 8 | 29.35 | | 59.0 | 44.7 | 3 | 2 | 3 | WNW | wet | clr | 9 to 3 | | | | | 8 | |
| 9 | 28.98 | | 58.5 | 47.2 | 3 | 2 | 18 | W | dry | clr | 3 to 10 | | | | | 9 | |
| 10 | 29.47 | | 57.3 | 45.8 | 3 | 2 | 4 | NW | dry | clr | 3 to 5 | | | | | 10 | 74.75 |
| 11 | 29.90 | | 57.0 | 40.0 | 1 | 1 | 0.5 | W | dry | ms | 2 to 8 | | | | | 11 | |
| 12 | 29.97 | 30.01 | 57.0 | 42.8 | 2 | 3 | 3 | N | wet | haz. | 8 to 10 | | | | | 12 | 75 |
| 13 | 29.97 | | 57.0 | 46.0 | 3 | 2 | 2 | N | wet | ms | 10 | | | | | 13 | |
| 14 | 29.80 | | 57.5 | 48.6 | 5 | 3 | 10 | NNE | wet | ms | 10 | | | | | 14 | |
| 15 | 29.87 | | 60.5 | 49.0 | 4 | 2 | 5 | NNE | wet | ms | 10 | | | | | 15 | |
| 16 | 29.78 | | 58.3 | 42.8 | 2 | 4 | 4 | NNE. | wet | clr. | 3 to 10 | | | | | 16 | |
| 17 | 29.93 | | 53.0 | 39.8 | 1 | 3 | 4 | N | wet | clr. | 3 to 8 | | | | | 17 | |
| 18 | 29.90 | 30.17 | 54.9 | 39.7 | 2 | 4 | 4 | N | dry | clr. | 2 to 8 | | | | | 18 | |
| 19 | 29.95 | 30.15 | 55.6 | 31.8 | 1 | 3 | 1 | NW | fog | clr. | 1 to 9 | | | | | 19 | |
| 20 | 29.95 | | 59.0 | 42.0 | 1 | 2 | 1 | NW | wet | haz | 10 | | | | | 20 | 77.78 |
| 21 | 29.54 | | 58.5 | 39.3 | 2 | 3 | 2 | NW | wet | haz | 10 | | | | | 21 | |
| 22 | 29.47 | | 55.2 | 37.0 | 1 | 4 | 10 | NNW | dry | clr. | 1 to 7 | | | | | 22 | |
| 23 | 29.32 | | 54.6 | 40.3 | 2 | 5 | 12 | N | dry | clr. | 10 to 4 | | | | | 23 | |
| 24 | 29.60 | | 53.8 | 37.7 | 1 | 2 | 3 | N | wet | haz. | 10 to 6 | | | | | 24 | 70.6 |
| 25 | 29.74 | | 53.0 | 34.0 | 0 | 1 | 4 | N | dry | haz. | 4 to 9 | | | | | 25 | 82 |
| 26 | 29.96 | | 52.2 | 24.5 | 1 | 3 | 0 | N | fog | haz. | 0 to 7 | | | | | 26 | |
| 27 | 29.42 | | 53.1 | 39.3 | 3 | 3 | 2 | SW | wet | ms | 10 | | | | | 27 | |
| 28 | 29.08 | | 55.6 | 55.0 | 4 | 2 | 5 | SW | wet | ms | 10 | | | | | 28 | |
| 29 | 29.05 | | 59.3 | 52.7 | 3 | 3 | 20 | SW | wet | ms | 9 | | | | | 29 | |
| 30 | 29.60 | | 58.0 | 38.4 | 2 | 3 | 0 | W | wet | ms | 3 to 7 | | | | | 30 | 83.5 |
| 31 | 29.60 | | 58.5 | 29.6 | 2 | 4 | 0 | NW | fog | clr | 2 | | | | | 31 | 84 |

Barometer below 29.99 on 28 days; & above 30.00 on only 3.
 Sunshiny weather more than ever broken up into isolated patches.
 While continuous cloudy weather for several days at a time is a frequent feature, accompanied towards the end of the month with freezing temperatures and frequent heavy rains.

November, 1892. Instrumentals normally read between 8.10 & 8.30 A.M. each day.

| Month
week
Day. | BAROM. ^R | | THERMOM. ^S | | Spectros. | | WIND | | EARTH | AIR | CLOUD | Sunshine | | Rain | | NIGHT | Photo |
|-----------------------|---------------------|---------|-----------------------|------|-----------|-----|------|---------|--|---------------------------------------|-------------------|----------|------|------|------|--------------------|-------------------|
| | 29.99 < | 30.00 > | In | Out | Rain | Low | Vel. | Direct. | 1= dry
2= wet
3= snow
4= fog. | 1= cl.
2= fog
3= md.
4= fog. | 1 to 10
tenths | A.M. | P.M. | A.M. | P.M. | Cal. Day
number | taken
Cont. N. |
| ♂ 1 | 29.77 | | 58.6 | 28.5 | 1 | 5 | 0 | W | fst | clr | 1 | ☉ | ☉ | | | 81 | |
| ♂ 2 | 29.74 | | 56.7 | 28.5 | 1 | 2 | 0 | N | fst | ms. | 9 to 10 | ☉ | ☉ | | | 82 | |
| ♀ 3 | 29.40 | | 57.0 | 40.2 | 0 | 1 | 0 | S | wet | ms. | 7 | ☉ | ☉ | | | 83 | 85 |
| ♀ 4 | 29.64 | | 58.5 | 45.2 | 3 | 2 | 5 | SW. | wet | ms | 10 | ☉ | ☉ | ☁ | | 84 | |
| ♀ 5 | 29.64 | | 59.5 | 47.5 | 2 | 3 | 3 | SW. | wet | ms | 2 to 8 | ☉ | ☉ | ☁ | | 85 | |
| ⊙ 6 | 29.70 | | 59.8 | 42.5 | 2 | 2 | 0 | | wet | fog. | 10 | ☉ | ☉ | | | 86 | |
| ♂ 7 | | 30.05 | 59.0 | 38.4 | 1 | 2 | 0 | | wet | fog | 5 to 10 | ☉ | ☉ | | | 87 | |
| ♂ 8 | | 30.10 | 56.4 | 35.2 | 0 | 1 | 0 | | dry | fog | 8 to 10 | ☉ | ☉ | | | 88 | |
| ♀ 9 | | 30.00 | 56.0 | 42.5 | 1 | 2 | 0 | SW | dry | haz | 9 | ☉ | ☉ | | | 89 | |
| ♀ 10 | 29.94 | | 59.5 | 45.2 | 2 | 3 | 0 | | wet | fog. | 10 | ☉ | ☉ | | | 90 | |
| ♀ 11 | | 30.01 | 58.5 | 41.0 | 1 | 2 | 0 | | dry | fog | 10 | ☉ | ☉ | | | 91 | |
| ♀ 12 | 29.95 | | 58.0 | 44.2 | 0 | 1 | 0 | | wet | fog. | 10 | ☉ | ☉ | ☁ | | 92 | |
| ⊙ 13 | 29.65 | | 57.5 | 46.4 | 4 | 2 | 2 | SW | wet | fog | 10 | ☉ | ☉ | ☁ | | 93 | |
| ♂ 14 | 29.67 | | 58.3 | 48.2 | 2 | 3 | 0 | | wet | fog. | 10 | ☉ | ☉ | | | 94 | |
| ♂ 15 | 29.47 | | 59.3 | 50.3 | 1 | 2 | 7 | SW | dry | haz. | 9 to 10 | ☉ | ☉ | | | 95 | |
| ♀ 16 | 29.70 | | 58.0 | 44.0 | 2 | 3 | 0 | W | wet | ms. | 9 | ☉ | ☉ | | | 96 | |
| ♀ 17 | 29.93 | | 57.0 | 28.6 | 1 | 5 | 0 | NW | fst. | ms. | 0 to 2 | ☉ | ☉ | | | 97 | |
| ♀ 18 | 29.82 | | 54.5 | 29.3 | 0 | 3 | 0 | | fst. | fog. | 10 | ☉ | ☉ | | | 98 | |
| ♀ 19 | 29.62 | | 53.0 | 33.2 | 1 | 2 | 0 | S | wet | fog | 10 | ☉ | ☉ | | | 99 | |
| ⊙ 20 | 29.87 | | 55.3 | 42.3 | 3 | 2 | 0 | NE | wet | fog. | 10 | ☉ | ☉ | ☁ | | 100 | |
| ♂ 21 | | 30.23 | 57.0 | 43.9 | 1 | 2 | 1 | NE | dry | ms | 10 | ☉ | ☉ | | | 101 | |
| ♂ 22 | | 30.35 | 57.2 | 39.3 | 1 | 2 | 0 | | dry | fog | 10 | ☉ | ☉ | | | 102 | |
| ♀ 23 | | 30.24 | 57.2 | 41.5 | 1 | 3 | 0 | | dry | ms | 10 | ☉ | ☉ | | | 103 | |
| ♀ 24 | | 30.08 | 56.4 | 38.8 | 1 | 3 | 0 | SW | dry | ms | 10 | ☉ | ☉ | | | 104 | |
| ♀ 25 | | 30.10 | 56.3 | 38.5 | 0 | 3 | 0 | NE | dry | ms. | 10 | ☉ | ☉ | ☁ | | 105 | |
| ♀ 26 | 29.93 | | 56.7 | 42.7 | 2 | 2 | 0 | | wet | fog | 10 | ☉ | ☉ | ☁ | | 106 | |
| ⊙ 27 | | 30.21 | 55.4 | 40.5 | 3 | 5 | 0 | NW | wet | clr. | 7 | ☉ | ☉ | | | 107 | |
| ♂ 28 | | 30.18 | 60.4 | 48.7 | 1 | 3 | 1 | W | wet | haz. | 9 | ☉ | ☉ | | | 108 | 86 |
| ♂ 29 | 29.83 | | 59.0 | 41.4 | 1 | 5 | 3 | NW | dry. | clr. | 1 to 5 | ☉ | ☉ | | | 109 | 87 |
| ♀ 30 | 29.84 | | 54.7 | 35.5 | 1 | 6 | 6 | NNW | dry | clr. | 0 to 3 | ☉ | ☉ | | | 110 | |

Nov. 1, 17 & 30 testify that an occasional fully Sunshine day does occur in Nov. - but 23 days of continual, or all but continual fog, mist & haze through-out each, from morning to evening testify to the thickness & obstruction to light of the atmosphere. Wind was moderate throughout the month. Barometer was below 29.99 on 19 days; above 30.00 on 11.

December, 1892. Instrumentals normally read between 8.10 & 8.30 A.M., each day

| Andri
works
Day | BAROM. R | | THERMOM. S | | Spectros. C | | WIND | | EARTH
1 = Dry
2 = wet
3 = snow
4 = fct. | AIR
1 = cbr
2 = haz
3 = ms.
4 = fog. | CLOUD
1 to 10.
Hem. | Sunshine | | Rain. | | NIGHT
Cal. Day
number | Photos
La. Kan
Cont. N |
|-----------------------|---------------|---------------|--------------|---------------|--------------|-------------|----------------|---------|---|--|---------------------------|----------|------|-------|------|-----------------------------|------------------------------|
| | 29.99
10 A | 30.00
11 A | In
° Fahr | Out
° Fahr | Rain
band | Low
band | Vel.
m.p.h. | Direct. | | | | A.M. | P.M. | A.M. | P.M. | | |
| 1 | 29.72 | 30.02 | 55.6 | 37.7 | 2 | 2 | 4 | SSW | wet | ms | 10 | | | | | 21 | |
| 2 | | | 53.5 | 27.2 | 0 | 10 | 0 | N | fct | cbr. | 0.52 | ☉ | ☉ | | | 22 | |
| 3 | 29.43 | | 53.5 | 32.5 | 2 | 4 | 0 | | snw | ? | 10 | | | | | 23 | |
| 4 | 29.32 | | 52.8 | 29.0 | 1 | 5 | 3 | NW | snw | cbr. | 1 | ☉ | ☉ | | | 24 | |
| 5 | 29.47 | | 49.0 | 28.0 | 2 | 5 | 3 | NW | snw | cbr. | 0.54 | ☉ | ☉ | | | 25 | |
| 6 | 29.60 | | 49.5 | 30.0 | 1 | 6 | 1 | NW | fct | cbr. | 4.55 | ☉ | ☉ | | | 26 | 88. |
| 7 | 29.94 | | 49.3 | 30.0 | 2 | 7 | 0 | NW | fct | haz | 2.59 | ☉ | ☉ | | | 27 | 89 |
| 8 | | 30.11 | 51.0 | 29.0 | 2 | 7 | 0 | W | fct | cbr. | 1.69 | ☉ | ☉ | | | 28 | |
| 9 | 29.62 | | 50.0 | 34.7 | 2 | 4 | 12 | N | snw | ms | 10.53 | ☉ | ☉ | | | 29 | 90-92 |
| 10 | 29.87 | | 49.5 | 27.0 | 2 | 5 | 0 | NW | snw | cbr. | 2.610 | ☉ | ☉ | | | 30 | |
| 11 | 29.18 | | 51.4 | 39.6 | 2 | 4 | 7 | W | wet | cbr. | 6.59 | ☉ | ☉ | | | 31 | |
| 12 | 29.27 | | 51.8 | 38.4 | 1 | 5 | 0 | W | dry | cbr. | 3.60 | ☉ | ☉ | | | 32 | |
| 13 | 29.73 | | 51.2 | 34.5 | 2 | 8 | 5 | N. | fct | cbr. | 0 | ☉ | ☉ | | | 33 | |
| 14 | 29.58 | | 51.8 | 37.2 | 1 | 3 | 0 | | wet | fog | 10 | | | | | 34 | |
| 15 | 29.82 | | 56.4 | 45.5 | 2 | 3 | 0 | SSW | wet | haz. | 10 | | | | | 35 | |
| 16 | | 30.12 | 54.1 | 38.5 | 1 | 5 | 0 | W | wet | haz. | 7.610 | ☉ | ☉ | | | 36 | |
| 17 | | 30.00 | 52.6 | 47.3 | 2 | 3 | 4 | W | wet | ms. | 10 | | | | | 37 | |
| 18 | 29.88 | | 58.2 | 50.2 | 4 | 4 | 15 | W. | wet | cbr. | 8.69 | ☉ | ☉ | | | 38 | 93. |
| 19 | 29.97 | | 60.0 | 50.2 | 2 | 4 | 4 | W | wet | haz. | 10 | | | | | 39 | |
| 20 | 29.95 | | 58.8 | 39.6 | 2 | 4 | 2 | NW | dry | cbr. | 10 | | | | | 40 | |
| 21 | 29.97 | | 58.5 | 41.0 | ? | ? | 0 | S. | wet | ms. | 10 | | | | | 41 | |
| 22 | 29.95 | | 57.0 | 35.7 | ? | ? | 0 | W | wet | fog | 10 | | | | | 42 | 94 |
| 23 | | 30.05 | 55.0 | 32.0 | 2 | 5 | 0 | SW | fct | ms | 4.59 | ☉ | ☉ | | | 43 | 95 |
| 24 | 29.95 | | 50.8 | 25.4 | 1 | 6 | 0 | W | fct | haz. | 0.62 | ☉ | ☉ | | | 44 | 97 |
| 25 | 29.85 | | 49.0 | 21.6 | ? | ? | 0 | SW | fct | fog | 10.63 | ☉ | ☉ | | | 45 | |
| 26 | 29.95 | | 46.4 | 15.5 | 0 | 4 | 0 | S. | fct | haz. | 0.62 | ☉ | ☉ | | | 46 | |
| 27 | | 30.12 | 49.5 | 15.0 | 0 | 4 | 0 | W. | fct | haz. | 0 | ☉ | ☉ | | | 47 | 98 |
| 28 | | 30.13 | 50.4 | 15.- | 1 | 2 | 0 | W | fct | fog | 5 | | | | | 48 | |
| 29 | 29.88 | | 49.0 | 15.- | 1 | 3 | 0 | W | fct | fog | 5 | | | | | 49 | |
| 30 | 29.83 | | 50.4 | 15.- | 0 | 4 | 0 | SW | fct | haz. | 3 | | | | | 50 | |
| 31 | 29.76 | | 51.4 | 28.5 | ? | ? | 0 | | fct | ms | 10 | | | | | 51 | |

Brilliantly fine sunshiny days on Dec. 2, 4, 5, 12, 13, 24, 26 & 27.
 Dark & cloudy days from Dec. 14, with hardly a break to Dec. 22
 and days of excessive cold from Dec. 26 to Dec. 30.
 Strong winds on Dec. 9 & Dec. 18. Very heavy low sun band on Dec. 2 & Dec. 13.
 Barometer 24 days below 29.99, and 7 above 30.00

January, 1893. Instrumentals normally read between 8:10 and 8:30 A.M. each day, at a near Mean of 2.4 hours.

| Month
Week
Day | BAROM. ^R | | THERMOM. ^S | | Spectros. ^S | | WIND | EARTH | AIR | CLOUD | MOON | | RAIN | | NIGHT | Photo
taken
Cont. No. | |
|----------------------|---------------------|-------|-----------------------|----------------|------------------------|-------------|------|-------|------|-------|--------------|----------------------------|-------|------|-------|-----------------------------|----|
| | 29 | 30 | In.
°Fah. | Cent.
°Fah. | Rain
band. | Low
6.25 | | | | | Dir.
M.P. | 1 to 10.
tenths
HEM. | Phase | Time | | | AM |
| 1 | 29.88 | | 57.3 | 24.2 | 1 | 5 | 0 | E | fat. | 4 | ☉ | ☽ | ☁ | ☁ | ☁ | ☁ | ☁ |
| 2 | 29.97 | | 51.3 | 29.0 | 1 | 3 | 3 | NE | snw | 9 | ☉ | ☽ | ☁ | ☁ | ☁ | ☁ | ☁ |
| 3 | 29.88 | | 49.2 | 30.0 | 2 | 6 | 0 | N | snw | 8.5 | ☉ | ☽ | ☁ | ☁ | ☁ | ☁ | ☁ |
| 4 | | 30.27 | 51.2 | 25.5 | 1 | 4 | 0 | NE | snw | 3 | ☉ | ☽ | ☁ | ☁ | ☁ | ☁ | ☁ |
| 5 | | 30.29 | 51.5 | 15.1 | 0 | 5 | 0 | NW | snw | 2 | ☉ | ☽ | ☁ | ☁ | ☁ | ☁ | ☁ |
| 6 | | 30.12 | 50.3 | 26.4 | 1 | 3 | 0 | NE | snw | 10 | ☉ | ☽ | ☁ | ☁ | ☁ | ☁ | ☁ |
| 7 | 29.88 | | 50.4 | 28.2 | 2 | 4 | 0 | | snw | 10 | ☉ | ☽ | ☁ | ☁ | ☁ | ☁ | ☁ |
| 8 | 29.73 | | 51.6 | 35.0 | 3 | 3 | 0 | E | snw | 10 | ☉ | ☽ | ☁ | ☁ | ☁ | ☁ | ☁ |
| 9 | 29.87 | | 52.4 | 35.2 | 2 | 4 | 0 | NE | snw | 10 | ☉ | ☽ | ☁ | ☁ | ☁ | ☁ | ☁ |
| 10 | 29.98 | | 52.3 | 35.6 | 2 | 4 | 0 | N | snw | 8 | ☉ | ☽ | ☁ | ☁ | ☁ | ☁ | ☁ |
| 11 | | 30.27 | 52.5 | 32.0 | 1 | 4 | 0 | | snw | 6 | ☉ | ☽ | ☁ | ☁ | ☁ | ☁ | ☁ |
| 12 | | 30.13 | 54.0 | 36.7 | 2 | 5 | 4 | NE | snw | 8 | ☉ | ☽ | ☁ | ☁ | ☁ | ☁ | ☁ |
| 13 | 29.93 | | 55.4 | 34.0 | 1 | 5 | 1 | NW | snw | 5.9 | ☉ | ☽ | ☁ | ☁ | ☁ | ☁ | ☁ |
| 14 | 29.58 | | 53.5 | 32.5 | 1 | 5 | 2 | N | snw | 10 | ☉ | ☽ | ☁ | ☁ | ☁ | ☁ | ☁ |
| 15 | | 30.14 | 54.0 | 24.2 | 1 | 4 | 0 | NE | snw | 9.5 | ☉ | ☽ | ☁ | ☁ | ☁ | ☁ | ☁ |
| 16 | 29.62 | | 54.0 | 35.5 | 2 | 3 | 1 | W | snw | 10 | ☉ | ☽ | ☁ | ☁ | ☁ | ☁ | ☁ |
| 17 | 29.73 | | 55.2 | 34.0 | 1 | 2 | 0 | W | cool | 9 | ☉ | ☽ | ☁ | ☁ | ☁ | ☁ | ☁ |
| 18 | 29.89 | | 55.4 | 46.0 | 3 | 4 | 5 | NE | snw | 10 | ☉ | ☽ | ☁ | ☁ | ☁ | ☁ | ☁ |
| 19 | | 30.22 | 52.2 | 41.0 | 1 | 3 | 1 | WSW | cool | 8 | ☉ | ☽ | ☁ | ☁ | ☁ | ☁ | ☁ |
| 20 | | 30.14 | 57.8 | 38.7 | 1 | 4 | 5 | NW | cool | 5 | ☉ | ☽ | ☁ | ☁ | ☁ | ☁ | ☁ |
| 21 | | 30.18 | 57.0 | 40.0 | 2 | 6 | 5 | N | Dry | 3 | ☉ | ☽ | ☁ | ☁ | ☁ | ☁ | ☁ |
| 22 | | 30.13 | 57.0 | 37.0 | 3 | 4 | 0 | NE | cool | 7 | ☉ | ☽ | ☁ | ☁ | ☁ | ☁ | ☁ |
| 23 | 29.88 | | 58.3 | 48.5 | 4 | 5 | 3 | W | cool | 10 | ☉ | ☽ | ☁ | ☁ | ☁ | ☁ | ☁ |
| 24 | 29.87 | | 59.2 | 45.0 | 1 | 4 | 4 | WSW | cool | 6 | ☉ | ☽ | ☁ | ☁ | ☁ | ☁ | ☁ |
| 25 | 29.93 | | 58.3 | 41.0 | 1 | 5 | 6 | W. | Dry | 0.5 | ☉ | ☽ | ☁ | ☁ | ☁ | ☁ | ☁ |
| 26 | 29.53 | | 58.7 | 44.1 | 2 | 2 | 15 | SW | cool | 10 | ☉ | ☽ | ☁ | ☁ | ☁ | ☁ | ☁ |
| 27 | 29.87 | | 59.3 | 42.3 | 2 | 4 | 3 | W. | Dry | 9 | ☉ | ☽ | ☁ | ☁ | ☁ | ☁ | ☁ |
| 28 | 29.62 | | 62.6 | 35.0 | 1 | 2 | 2 | SW | cool | 10 | ☉ | ☽ | ☁ | ☁ | ☁ | ☁ | ☁ |
| 29 | 29.23 | | 57.0 | 43.9 | 2 | 3 | 5 | N | cool | 9.5 | ☉ | ☽ | ☁ | ☁ | ☁ | ☁ | ☁ |
| 30 | 29.73 | | 57.8 | 45.2 | 1 | 3 | 0 | N | cool | 10 | ☉ | ☽ | ☁ | ☁ | ☁ | ☁ | ☁ |
| 31 | 29.58 | (10) | 59.3 | 48.2 | 2 | 8 | 7 | SW | cool | 8.2 | ☉ | ☽ | ☁ | ☁ | ☁ | ☁ | ☁ |

January 5th was a very cold day, but the only one.
 Snow was recorded for 15 days continuously, more properly for 17 days, as from
 January 2 to January 17. High temperatures appeared during the month's
 last 8 days; and violent wind from S.W. occurred on Jan 26th.
 No perfectly sunny day throughout the month.

February, 1893; Instrumentals normally read between 8:10 to 8:30 A.M., each day.

| Date | BAROM.
11:00
39.5 | THERMOM.
In. Out.
°Fah. °Fah. | | Spectros.
Rain-band Low-band | | WIND
Vel. m.p.h. Direct. | | EARTH
1=ob. 2=cont 3=snow 4=vet. | AIR
1=ob. 2=haz. 3=ms 4=vet. | CLOUD
1 to 10, tenths H=ms | Sunshine
A.M. P.M. | | Rain
A.M. P.M. | | NIGHT
Cal. day number | Notes
taken
Cor. N. N. |
|-------|-------------------------|-------------------------------------|-------|---------------------------------|------|-----------------------------|---------|-------------------------------------|---------------------------------|-------------------------------|-----------------------|------|-------------------|------|--------------------------|------------------------------|
| | | °Fah. | °Fah. | -band | band | m.p.h. | Direct. | | | | A.M. | P.M. | A.M. | P.M. | | |
| 29.53 | | 59.7 | 39.6 | 2 | 3 | 1 | N | wet | ms | 10 5 2 | | | | | | |
| 29.62 | | 63.0 | 41.5 | 2 | 3 | 8 | W | wet | clr | 10 to 3 | | | | | 81 | 9 |
| 30.07 | | 58.5 | 39.8 | 2 | 3 | 0 | W | wet | fog | 10 | | | | 82 | | |
| 30.20 | | 58.0 | 38.7 | 2 | 3 | 5 | SW | wet | fog | 10 | | | | 83 | | |
| 30.25 | | 57.8 | 30.3 | 1 | 2 | 3 | SW | dry | ms | 10 | | | | 84 | | |
| 30.18 | | 56.6 | 26.3 | 0 | 3 | 0 | SSE | fog | fog | 10 | | | | 85 | | |
| 29.93 | | 55.4 | 45.1 | 2 | 4 | 7 | W | wet | clr | 8 5 2 | | | | 86 | | |
| 29.50 | | 55.9 | 40.8 | 1 | 6 | 12 | W | dry | clr | 4-8 | | | | 87 | | |
| 29.08 | | 56.7 | 43.0 | 2 | 3 | 12 | W | dry | haz | 9-10 | | | | 88 | 107 | |
| 28.82 | | 57.5 | 43.0 | 2 | 4 | 18 | W | wet | clr | 5 5 8 | | | | 89 | | |
| 29.32 | | 57.4 | 43.4 | 2 | 3 | 15 | NNW | dry | clr | 5 5 3 | | | | 90 | | |
| 29.34 | | 57.2 | 38.1 | 2 | 3 | 8 | NNE | dry | clr | 10 5 3 | | | | 91 | 108 | |
| 29.52 | | 57.0 | 35.0 | 1 | 1 | 2 | W | dry | haz | 10 | | | | 92 | | |
| 28.98 | | 58.4 | 46.6 | 3 | 3 | 14 | SSW | wet | ms | 10 5 5 | | | | 93 | 109 | |
| 29.51 | | 57.3 | 37.0 | 1 | 3 | 1 | S | wet | haz | 5 5 8 | | | | 94 | 110 | |
| 29.38 | | 58.7 | 42.2 | 1 | 2 | 0 | SW | wet | fog | 10 | | | | 95 | 111 | |
| 29.73 | | 58.0 | 37.5 | 2 | 3 | 0 | W | wet | clr | 8 5 4 | | | | 96 | 112 | |
| 29.09 | | 58.3 | 48.4 | ? | ? | 7 | SW | wet | ms | 10 | | | | 97 | 113 | |
| 29.63 | | 60.6 | 47.8 | 3 | 2 | 0 | SW | wet | ms | 10 | | | | 98 | | |
| 29.42 | | 61.0 | 37.6 | 3 | 4 | 1 | SW | wet | clr | 1 5 10 | | | | 99 | | |
| 28.85 | | 60.4 | 38.7 | 3 | 4 | 0 6 8 | NE | wet | ms | 10 | | | | 100 | | |
| 29.02 | | 56.7 | 37.0 | 2 | 3 | 10 | NE | wet | ms | 10 | | | | 101 | 114 | |
| 29.46 | | 55.3 | 33.2 | 0 | 3 | 1 | NE | dry | haz | 10 5 9 | | | | 102 | 115 | |
| 29.27 | | 55.2 | 29.0 | 1 | 3 | 2 | NE | fog | haz | 10 | | | | 103 | | |
| 29.13 | | 54.0 | 30.2 | 1 | 2 | 0 | E | fog | ms | 10 | | | | 104 | | |
| 28.93 | | 54.8 | 30.8 | 2 | 3 | 3 | E | snow | ms | 10 | | | | 105 | 12 | |
| 29.18 | | 55.0 | 36.0 | 3 | 3 | 0 | | snow | clr | 1 5 8 | | | | 106 | 116 | |
| 29.62 | | 53.5 | 24.3 | 1 | 3 | 0 6 3 | W | snow | haz | 0 6 1 | | | | 107 | 117 | |
| | | | | | | | | | | | | | | 108 | 118 | |
| | | | | | | | | | | | | | | 109 | 119 | |
| | | | | | | | | | | | | | | 110 | 120 | |
| | | | | | | | | | | | | | | 111 | 121 | |
| | | | | | | | | | | | | | | 112 | 122 | |
| | | | | | | | | | | | | | | 113 | 123 | |
| | | | | | | | | | | | | | | 114 | 124 | |
| | | | | | | | | | | | | | | 115 | 125 | |
| | | | | | | | | | | | | | | 116 | 126 | |
| | | | | | | | | | | | | | | 117 | 127 | |
| | | | | | | | | | | | | | | 118 | 128 | |
| | | | | | | | | | | | | | | 119 | 129 | |
| | | | | | | | | | | | | | | 120 | 130 | |

The Barometer was four times in the course of the month below 29.00
 Strong winds from the West marked Feb. 8, 9, 10, 11, 14, & on Feb. 22 from NE.
 14 days in the course of the month were dark without any sun.
 The last day of the month was all sunshine, though with the lowest
 mean temperature of all the days. Bar. was 24 days below 29.9975, only 4 days above 30.00.

March, 1893; Instrumentals normally read between 8...10 & 8...30 A.M., each day.

| Date | BAROM. R | THERMOMS | | Spectrosc. | | WIND | | EARTH | AIR | CLOUD | Sun | | Rain | | NIGHT | Photos taken | Other |
|-------|----------|----------|------|------------|-----|------|--------|-------|------|-------|---------|----------|------|------|-------|--------------|-------|
| | | In | Out | Rain | Low | Dir. | Direct | | | | 1 to 10 | 11 to 10 | A.M. | P.M. | | | |
| 29-27 | 30.4 | 56.4 | 36.4 | 5 | 4 | 5 | S | snow | ms | 10 | | | | | | | |
| 29-28 | 30.17 | 60.0 | 46.0 | 2 | 3 | 2 | W | wt | clr | 9.5 | | | | | 81 | | |
| 29-29 | 30.91 | 60.7 | 36.7 | 1 | 2 | 0 | N | wt | ms. | 10 | | | | | 82 | | |
| 29-30 | 30.91 | 61.4 | 47.2 | 1 | 2 | 4 | SW | wt | clr | 7 | | | | | 83 | | |
| 29-31 | 30.95 | 61.6 | 50.4 | 4 | 2 | 7 | W | Dry | clr | 10.5 | | | | | 84 | 119, 120 | |
| 30-1 | 30.13 | 64.0 | 44.2 | 2 | 3 | 0 | N | Dry | haz | 10.5 | | | | | 85 | 121, 122 | |
| 30-2 | 30.11 | 63.0 | 47.5 | 2 | 2 | 2 | NE | wt | clr | 9 | | | | | 86 | 123 | |
| 30-3 | 30.21 | 64.7 | 49.5 | 1 | 3 | 3 | N | Dry | clr | 9 | | | | | 87 | 124 | |
| 30-4 | 30.18 | 62.0 | 45.7 | 2 | 2 | 3.5 | W | Dry | clr. | 4.5 | | | | | 88 | 125 | |
| 30-5 | 30.18 | 60.0 | 42.0 | 2 | 4 | 4.5 | W | Dry | clr. | 0.5 | | | | | 89 | 126, 129 | |
| 30-6 | 30.03 | 58.7 | 41.6 | 1 | 3 | 0.5 | W | Dry | haz | 9.5 | | | | | 90 | 130 | |
| 30-7 | 30.72 | 58.6 | 49.5 | 1 | 2 | 7 | SW | Dry | haz. | 0 | | | | | 91 | 131 | |
| 30-8 | 30.35 | 59.0 | 46.4 | 2 | 2 | 2 | NW | Dry | clr. | 5 | | | | | 92 | | |
| 30-9 | 30.60 | 57.4 | 40.8 | 1 | 3 | 1 | W | fat | haz | 3.5 | | | | | 93 | | |
| 30-10 | 30.40 | 56.5 | 45.0 | 1 | 2 | 10 | W | Dry | clr. | 10 | | | | | 94 | | |
| 30-11 | 30.37 | 56.2 | 38.2 | 2 | 4 | 6 | W | Dry | clr. | 4.5 | | | | | 95 | 132, 133 | |
| 30-12 | 30.48 | 53.5 | 34.0 | 2 | 4 | 5 | NW | wt | clr. | 3.5 | | | | | 96 | 134 | |
| 30-13 | 30.05 | 54.3 | 33.0 | 1 | 4 | 5 | N | Dry | clr. | 0.5 | | | | | 97 | 135 | |
| 30-14 | 30.33 | 55.0 | 29.5 | 1 | 2 | 0 | NE | fat | haz | 0 | | | | | 98 | | |
| 30-15 | 30.28 | 57.8 | 41.7 | 1 | 1 | 0 | NW | Dry | ms | 0.5 | | | | | 99 | 136 | |
| 30-16 | 30.27 | 59.5 | 31.5 | 0 | 1 | 0 | W | fat | ms | 2.5 | | | | | 100 | 138 | |
| 30-17 | 30.24 | 58.7 | 34.0 | 1 | 2 | 0 | 0 | fat | ms | 1.5 | | | | | 101 | 141 | |
| 30-18 | 30.18 | 60.0 | 31.0 | ? | ? | 0 | S | fat | fog | 5.5 | | | | | 102 | | |
| 30-19 | 30.18 | 59.3 | 35.7 | 0 | 1 | 0 | S | fat | ms | 4.5 | | | | | 103 | | |
| 30-20 | 30.35 | 59.0 | 37.0 | 0 | 1 | 0 | S | fat | ms | 5.5 | | | | | 104 | | |
| 30-21 | 30.23 | 61.4 | 41.0 | 1 | 2 | 0 | S | Dry | fog | 9.5 | | | | | 105 | 142 | |
| 30-22 | 30.12 | 60.0 | 42.3 | 0 | 1 | 0 | NE | Dry | ms | 8.5 | | | | | 106 | | |
| 30-23 | 30.16 | 59.0 | 39.5 | 1 | 2 | 0 | N | fat | ms | 5 | | | | | 107 | 143 | |
| 30-24 | 30.07 | 58.8 | 35.3 | 0 | 2 | 0 | SE | fat | haz | 3.5 | | | | | 108 | 144 | |
| 30-25 | 30.82 | 61.1 | 50.2 | 2 | 2 | 0 | SW | Dry | haz | 0 | | | | | 109 | | |
| 30-26 | 30.67 | 62.3 | 47.2 | 2 | 2 | 0 | SW | Dry | haz | 2.5 | | | | | 110 | | |

A bright month with frequent sunshine, and three especially gentle snowfalls, viz March 12, 19 & 30. Some snow fall about the 1st & 16th. Rainfall also near the same two dates; but all the intervening and following days exceedingly dry, & with high Barometric pressure, viz 18 days above 30 inches & 13 days below.

April, 1893. Instrumentals normally read between 8.10 & 8.30 AM, each day.

| Month's
Mark's
Day. | BAROM. $\frac{1}{100}$
29.99 < 30.01 > | THERMOM. $\frac{1}{10}$ | | Spectrosc. $\frac{1}{10}$ | | WIND. | | EARTH
1. Dry
2. Wet
3. Snow
4. Ice | AIR.
1. cbr.
2. fog
3. mist
4. fog | CLOUD
1 to 10,
Fenths
Fem. % | ☀️ | | ☁️ | | NIGHT
Cal. Day
numb. | Notes
taken
cont. N. |
|---------------------------|---|-------------------------|----------------|---------------------------|-------------|------------------|---------|--|--|---------------------------------------|------|------|------|------|----------------------------|----------------------------|
| | | In.
o Fah. | Out.
o Fah. | Rain
bars. | Low
o b2 | Vel.
m.
h? | Direct. | | | | A.M. | P.M. | A.M. | P.M. | | |
| 1 | 29.86 | 63.7 | 50.4 | 3 | 2 | 0 | SW | Dry | cbr. | 9 to 10 | | | | | 71 | 139 |
| 2 | 30.15 | 61.5 | 43.2 | 2 | 3 | 1 | NE | wet | haz | 1 to 3 | | | | | 72 | |
| 3 | 30.18 | 60.4 | 46.4 | 2 | 4 | 1 | NW | Dry | cbr. | 0 to 2 | | | | | 73 | |
| 4 | 30.20 | 60.0 | 42.9 | 2 | 7 | 1 | SE | Dry | haz | 2 to 4 | | | | | 74 | |
| 5 | 30.20 | 59.5 | 44.3 | 3 | 3 | 0 | SSE | Dry | haz | 1 to 0 | | | | | 75 | |
| 6 | 30.13 | 58.8 | 39.0 | 1 | 1 | 0 | SE | wet | fog | 10 to 2 | | | | | 76 | |
| 7 | 30.33 | 56.4 | 38.0 | 1 | 2 | 0 | NE | wet | fog | 10 to 8 | | | | | 77 | |
| 8 | 30.48 | 53.5 | 39.5 | 1 | 1 | 4 | NE | Dry | haz | 10 | | | | | 78 | |
| 9 | 30.42 | 57.6 | 42.5 | 1 | 1 | 0 | NE | Dry | haz | 10 to 0 | | | | | 79 | |
| 10 | 30.25 | 58.7 | 42.3 | 2 | 2 | 5 | NE | Dry | haz. | 0 to 10 | | | | | 80 | |
| 11 | 30.28 | 58.0 | 43.4 | 2 | 2 | 2 | E | Dry | cbr. | 10 to 7 | | | | | 81 | |
| 12 | 30.32 | 56.8 | 38.0 | 1 | 3 | 0 | | Dry | cbr. | 0 to 8 | | | | | 82 | |
| 13 | 30.28 | 56.4 | 44.5 | 1 | 2 | 2 | NE | Dry | ms. | 9 to 1 | | | | | 83 | |
| 14 | 30.24 | 54.8 | 37.5 | 0 | 1 | 0 | NE | Dry | ms | 2-8 | | | | | 84 | |
| 15 | 30.03 | 57.5 | 50.0 | 1 | 2 | 4 to 4 | SW | Dry | ms | 9 to 5 | | | | | 85 | 140 |
| 16 | 29.99 | 57.5 | 50.5 | 3 | 1 | 5 | W | Dry | haz | 10 | | | | | 86 | |
| 17 | 30.20 | 54.6 | 39.4 | 2 | 2 | 3 | S | wet | haz. | 10 | | | | | 87 | |
| 18 | 30.00 | 56.4 | 42.8 | 2 | 1 | 1 | S | wet | fog | 10 | | | | | 88 | |
| 19 | 29.90 | 59.5 | 51.7 | 1 | 1 | 1 | SW | Dry | ms | 4 | | | | | 89 | 141 |
| 20 | 30.08 | 63.0 | 53.0 | 2 | 1 | 0 | SE | Dry | haz. | 9 to 5 | | | | | 90 | |
| 21 | 30.10 | 63.0 | 45.0 | ? | ? | 3 | N | wet | haz | 8 to 2 | | | | | 91 | |
| 22 | 30.17 | 62.5 | 46.5 | 1 | 1 | 1 | SE | Dry | cbr. | 2 to 0 | | | | | 92 | |
| 23 | 30.07 | 61.2 | 48.5 | 1 | 1 | 1 | NE | Dry | haz. | 0 | | | | | 93 | |
| 24 | 30.00 | 61.7 | 53.0 | 1 | 1 | 2 | N | Dry | haz | 0 to 3 | | | | | 94 | 142 |
| 25 | 30.04 | 62.2 | 53.0 | 1 | 2 | 0 | N | Dry | ms | 3 | | | | | 95 | |
| 26 | 30.05 | 59.5 | 44.5 | 1 | 1 | 1 | NE | Dry | haz. | 10 to 3 | | | | | 96 | |
| 27 | 29.95 | 62.0 | 45.6 | 0 | 1 | 0 | NE | Dry | fog. | 10 to 4 | | | | | 97 | 143 |
| 28 | 29.87 | 61.8 | 55.0 | 3 | 2 | 3 | NE | Dry | cbr. | 7 | | | | | 98 | 144 |
| 29 | 29.78 | 61.2 | 50.6 | 2 | 2 | 10 | W | Dry | cbr. | 9 to 5 | | | | | 99 | |
| 30 | 29.75 | 59.4 | 48.2 | 2 | 2 | 10 | NW | Dry | cbr. | 7 to 4 | | | | | 100 | |

(7) (23) Again in a Spring month there is manifested the great preponderance of high barometric pressures, viz. 23 days above 30.00, against 7 days below. Sunshine was very variously distributed; only ~~two~~ whole days of it, viz. April 25 and ~~April~~ 23. Rain was rare. The wind only once of notable strength. The Spectrosc. Rain band always poor. 24 days were noted as dry, against 6 days as wet.

May, 1893. Instrumentals normally read between 8.10 & 8.30 A.M., each day. *Copy!*

| Month | Day | BAROM. ⁷⁹ | | THERMOM. ⁵ | | SPECIFIC ⁰ | | WIND | | EARTH | AIR | CLOUD. | MOON | | RAIN | | NIGHT | Notes |
|-------|-------|----------------------|-------|-----------------------|----------|-----------------------|-----|------|---------|---------|----------|--------|------------------|------------------|------|------|-------|-------|
| | | 29.92 | 30.00 | In. °F. | Out. °F. | Rain | Low | Vel. | Direct. | | | | 1st to 10, hours | 2nd to 10, hours | A.M. | P.M. | | |
| 1 | 29.88 | 59.0 | 48.4 | 2 | 1.5 | 3 | NW | Dry | clr | 7 | 10 to 10 | | | | | 1 | | |
| 2 | 29.82 | 59.5 | 53.5 | 2 | 1 | 1 | W | Dry | clr | 7 | 10 to 10 | | | | | 2 | | |
| 3 | 30.00 | 59.4 | 55.6 | 3 | 2 | 0 | SW | Dry | ms | 10 | 10 to 10 | | | | | 3 | | |
| 4 | 30.21 | 60.4 | 54.0 | 1 | 1 | 0 | SW | Dry | hazy | 8 | 10 to 10 | | | | | 4 | | |
| 5 | 30.30 | 62.3 | 49.7 | 1 | 1 | 2 | SSE | Dry | hazy | 10 to 2 | 10 to 2 | | | | | 5 | | |
| 6 | 30.37 | 59.8 | 46.5 | 1 | 2 | 3 | SSE | Dry | hazy | 10 to 3 | 10 to 3 | | | | | 6 | | |
| 7 | 30.38 | 60.8 | 48.2 | 1 | 2 | 4 | SSE | Dry | clr | 1 to 10 | 10 to 10 | | | | | 7 | | |
| 8 | 30.42 | 59.0 | 52.0 | 1 | 1 | 5 | NE | Dry | hazy | 10 to 2 | 10 to 2 | | | | | 8 | | |
| 9 | 30.37 | 59.2 | 52.6 | 0 | 0 | 7 | NE | Dry | hazy | 0 to 1 | 0 to 1 | | | | | 9 | (157) | |
| 10 | 30.37 | 59.4 | 53.5 | 0 | 1 | 6 | NE | Dry | hazy | 0 | 0 to 9 | | | | | 10 | (158) | |
| 11 | 30.28 | 62.2 | 55.0 | 1 | 1 | 0 | E | Dry | hazy | 0 to 9 | 0 to 9 | | | | | 11 | | |
| 12 | 30.05 | 60.5 | 62.2 | 2.5 | 1.5 | 0 to 5 | NW | Dry | clr | 4 to 9 | 4 to 9 | | | | | 12 | | |
| 13 | 30.11 | 65.5 | 59.0 | 2 | 2 | 3 | W | Dry | clr | 5 to 2 | 5 to 2 | | | | | 13 | | |
| 14 | 30.48 | 65.6 | 51.7 | 1.5 | 1 | 2 | S | Dry | ms | 10 to 8 | 10 to 8 | | | | | 14 | | |
| 15 | 29.93 | 64.2 | 53.3 | 1 | 1 | 3 | NE | Dry | ms | 10 to 9 | 10 to 9 | | | | | 15 | | |
| 16 | 29.84 | 64.0 | 49.5 | 2 | 1.5 | 0 | NE | Dry | hazy | 10 | 10 | | | | | 16 | | |
| 17 | 29.63 | 62.0 | 49.5 | 2 | 1 | 0 | NE | wet | ms | 10 | 10 | | | | | 17 | | |
| 18 | 29.42 | 61.7 | 57.4 | 3 | 1 | 0 | NE | wet | hazy | 7 | 7 | | | | | 18 | | |
| 19 | 29.51 | 62.7 | 55.6 | 2 | 1 | 2 | SW | wet | hazy | 9 | 9 | | | | | 19 | | |
| 20 | 29.45 | 62.0 | 57.0 | 2 | 1 | 3 | SSW | wet | ms | 9 | 9 | | | | | 20 | | |
| 21 | 29.59 | 62.7 | 56.0 | 2 | 2 | 7 | SW | wet | hazy | 8 to 9 | 8 to 9 | | | | | 21 | | |
| 22 | 29.76 | 61.5 | 56.0 | 2 | 1 | 0 | SW | Dry | clr | 7 | 7 | | | | | 22 | | |
| 23 | 29.70 | 63.0 | 53.3 | 1 | 1 | 7 | SW | Dry | ms | 10 | 10 | | | | | 23 | | |
| 24 | 29.70 | 64.0 | 57.3 | 2 | 1 | 6 | SW | Dry | clr | 9 to 7 | 9 to 7 | | | | | 24 | | |
| 25 | 29.94 | 64.3 | 56.8 | 3 | 2 | 10 | W | Dry | clr | 9 to 7 | 9 to 7 | | | | | 25 | | |
| 26 | 30.13 | 63.6 | 57.9 | 3 | 2 | 2 | N | Dry | clr. | 9 to 10 | 9 to 10 | | | | | 26 | | |
| 27 | 30.15 | 63.0 | 59.0 | 2 | 1 | 3 | NW | Dry | clr | 5 to 10 | 5 to 10 | | | | | 27 | | |
| 28 | 30.12 | 65.2 | 62.5 | 2 | 1 | 0 | | Dry | ms | 7 | 7 | | | | | 28 | | |
| 29 | 30.02 | 65.5 | 59.0 | 3 | 1 | 0 | N | wet | ms | 10 | 10 | | | | | 29 | | |
| 30 | 30.06 | 61.3 | 48.0 | 2 | 1 | 4 | NE | wet | clr | 9 | 9 | | | | | 30 | | |
| 31 | 29.95 | 59.5 | 48.7 | 1 | 2 | 10 | NE | Dry | clr | 8 to 0 | 8 to 0 | | | | | 31 | (153) | |

(14) (17) During this month there were only 2 days viz. May 9 & 10 of perfect and entire sunshine, but the drought was very severe, for excepting nearly a week of unsettled weather, from May 15 to May 20, all the rest of the rain of the month was practically confined to a day at the beginning of another at the end thereof. The days of Bar. above 30 were only slightly in excess of those below, that critical Bar. refer? back.

June, 1893. Instrumentals normally read between 8.10 & 8.30 A.M. each day.

| Date | Barom. ⁷ / ₃₀₄ | Thermom. ⁵ | | Spectrosc. ⁰ | | Wind | | Earth | Air | Cloud | Sun | | Rain | | Night | Photos taken |
|------|--------------------------------------|-----------------------|------------|-------------------------|--------------------|-----------|---------------------|----------|------|---------|----------|----------|------|------|-------|--------------|
| | | In. °Fah. | Out. °Fah. | Rain δ ² | Low δ ² | Vel. m.H. | Direct ⁿ | | | | 1 to 10. | 1 to 10. | AM. | P.M. | | |
| 1 | 29.93 | 60.8 | 60.3 | 3 | 1 | 3 | NE | Dry | clr. | 10 | | | | | 21 | |
| 2 | 29.84 | 61.0 | 52.9 | 1 | 1 | 0 | NE | wet | ms | 10-8 | | | | | 22 | |
| 3 | 29.83 | 62.2 | 52.2 | 1 | 2 | 0 | S & W | Dry | haz | 10 | | | | | 23 | |
| 4 | 29.98 | 63.7 | 63.8 | 3 | 2 | 1 | W | wet | clr. | 8 to 2 | | | | | 24 | |
| 5 | | 30.10 | 64.0 | 59.5 | 3 | 2 | 2 | N | Dry | clr. | 3 to 0 | | | | 25 | (154) |
| 6 | | 30.32 | 64.7 | 51.0 | 1 | 1 | 2 | N | Dry | ms | 10 | | | | 26 | (155) |
| 7 | | 30.22 | 65.0 | 60.7 | 2 | 1 | 1 | N | Dry | haz | 6 to 1 | | | | 27 | |
| 8 | | 30.33 | 65.8 | 56.0 | 2 | 1 | 1 | S, N, NE | Dry | ms | 5 to 8 | | | | 28 | |
| 9 | | 30.33 | 66.2 | 52.5 | 2 | 1 | 0 | NE | Dry | fog | 10 | | | | 29 | |
| 10 | | 30.34 | 65.3 | 54.2 | 2 | 2 | 1 | NE | Dry | haz | 10 to 9 | | | | 30 | |
| 11 | | 30.23 | 64.2 | 54.3 | 1 | 1 | 2 | NE | Dry | ms. | 9 to 1 | | | | 31 | |
| 12 | | 30.13 | 64.9 | 56.0 | 1 | 1 | 1 | NE | Dry | haz | 10 | | | | 32 | |
| 13 | | 30.03 | 65.7 | 57.8 | 2 | 1 | 0 | SE | Dry | haz | 10 to 2 | | | | 33 | (156) |
| 14 | 29.96 | 65.4 | 53.2 | 1 | 1 | 0 | S | Dry | ms | 10 to 3 | | | | 34 | | |
| 15 | 29.98 | 66.0 | 58.5 | 2 | 1 | 0 | NE | Dry | haz | 0 | | | | 35 | | |
| 16 | | 30.10 | 70.3 | 63.5 | 3 | 1 | 2 | N | Dry | clr. | 0 | | | 36 | | |
| 17 | | 30.18 | 72.0 | 69.6 | 3 | 2 | 0 | N | Dry | clr. | 0 to 3 | | | 37 | | |
| 18 | | 30.34 | 73.8 | 69.0 | 2 | 1 | 1 | N | Dry | haz | 0 | | | 38 | | |
| 19 | 29.97 | 75.4 | 72.7 | 2 | 1 | 0 to 10 | S & N | Dry | clr. | 0 to 10 | | | | 39 | | |
| 20 | 29.87 | 72.8 | 59.5 | 2 | 1 | 1 | NE | Dry | haz | 10 to 8 | | | | 40 | | |
| 21 | 29.83 | 70.0 | 59.2 | 2 | 1 | 0 | N | Dry | clr. | 10 | | | | 41 | | |
| 22 | 29.55 | 68.3 | 58.5 | 2 | 0 | 0 | N & W | Dry | ms | 9 | | | | 42 | (157) | |
| 23 | 29.18 | 65.8 | 57.3 | 4 | 2 | 0 | W | wet | clr. | 9 to 10 | | | | 43 | (158) | |
| 24 | 29.33 | 64.0 | 54.2 | 4 | 2 | 12 | N | wet | clr. | 10 | | | | 44 | (159) | |
| 25 | 29.58 | 63.3 | 54.8 | 2 | 1 | 1 to 12 | W, N, S, W | wet | clr. | 10 to 4 | | | | 45 | (160) | |
| 26 | 29.70 | 63.5 | 60.8 | 4 | 2 | 2 | SW | Dry | clr. | 5 to 9 | | | | 46 | (161) | |
| 27 | 29.42 | 64.4 | 62.0 | 4 | 2 | 7 | SW | wet | haz. | 8 | | | | 47 | (162) | |
| 28 | 29.37 | 66.8 | 64.2 | 4 | 2 | 10 | N | Dry | haz. | 8 to 10 | | | | 48 | | |
| 29 | 29.71 | 66.5 | 59.4 | 3 | 2 | 5 | N & W | wet | clr. | 10 to 5 | | | | 49 | (163) | |
| 30 | | 30.13 | 66.5 | 57.5 | 3 | 2 | 0 | NW | Dry | clr. | 0 | | | 50 | (164) | |

(17) (13) Excepting some rain at the beginning, & some at the end of the month, all the middle & major part of it was arid in the extreme, intensified by an almost unprecedented high mean temperature as 72.4 on June 19. Had not a favorable change for moisture and cooling come on toward the end of the month, great part of the water, springs & supplies all over the country might have been dried up.

July, 1893. Instrumentals normally read between 8.10 ^{A.M.} & 8.30 ^{A.M.} each day.

| Date | BAROM. ^F / ₁₀₀ | THERMOM. ^F | | Spectroscope | | WIND | | EARTH | AIR | CLOUD | Sun. shine | | RAIN. | | NIGHT |
|------|--------------------------------------|-----------------------|--------------|--------------------|-----------------------|------------------------|--------|-------|------|-------|------------|------|-------|------|-------|
| | | In. of Fah. | Out. of Fah. | Rain ⁶² | Low ^{0 L.S.} | Vel. ^{m.p.h.} | Direct | | | | A.M. | P.M. | A.M. | P.M. | |
| 1 | 30.14 | 68.0 | 59.4 | 2 | 1 | 1 | N | Dry | haz. | 9.53 | | | | | 21 |
| 2 | 30.08 | 69.3 | 62.0 | 1 | 1 | 0 | SW | Dry | ms. | 8.510 | | | | | 22 |
| 3 | 30.11 | 71.0 | 65.0 | 3 | 2 | 0 | W | wet | haz. | 10 | | | | | 23 |
| 4 | 29.93 | 66.8 | 62.7 | 2 | 1 | 7 | N | Dry | haz. | 8 | | | | | 24 |
| 5 | 29.98 | 66.0 | 62.0 | 2 | 1 | 3 | N | Dry | haz. | 7 | | | | | 25 |
| 6 | 30.07 | 65.6 | 61.0 | 2 | 1 | 0 | N | Dry | haz. | 7 | | | | | 26 |
| 7 | 29.94 | 67.3 | 61.2 | 3 | 1 | 2 | S | Dry | clr. | 0 | | | | | 27 |
| 8 | 29.70 | 70.5 | 65.4 | 4 | 2 | 0 | SE | Dry | haz. | 7.49 | | | | | 28 |
| 9 | 29.52 | 70.1 | 63.5 | 2 | 1 | 8 | SW | wet | haz. | 7.510 | | | | | 29 |
| 10 | 29.72 | 68.5 | 61.8 | 2 | 1 | 4 | S | wet | ms. | 7.510 | | | | | 30 |
| 11 | 29.68 | 68.3 | 63.6 | 3 | 2 | 0 | W | Dry | clr. | 2.59 | | | | | 31 |
| 12 | 29.57 | 67.8 | 63.0 | 3 | 1 | 3 | NE | Dry | haz. | 10 | | | | | 32 |
| 13 | 29.63 | 66.0 | 56.2 | 3 | 1 | 6 | N | wet | haz. | 10 | | | | | 33 |
| 14 | 29.78 | 62.7 | 56.8 | 2 | 1 | 4 | NE | Dry | clr. | 9 | | | | | 34 |
| 15 | 29.89 | 64.5 | 54.2 | 2 | 1 | 0 | NE | Dry | haz. | 10 | | | | | 35 |
| 16 | 29.77 | 63.4 | 57.5 | 2 | 1 | 0 | NE | Dry | ms. | 9 | | | | | 36 |
| 17 | 29.68 | 63.4 | 61.0 | 4 | 1 | 3.5 | SEW | wet | clr. | 6.510 | | | | | 37 |
| 18 | 29.86 | 65.3 | 62.7 | 3 | 2 | 0 | N. | Dry | clr. | 7 | | | | | 38 |
| 19 | 29.47 | 66.4 | 63.4 | 4 | 1 | 10 | SW | wet | clr. | 9 | | | | | 39 |
| 20 | 29.38 | 67.5 | 61.4 | 4 | 2 | 9 | SW | wet | clr. | 8 | | | | | 40 |
| 21 | 29.60 | 66.8 | 61.4 | 3 | 1 | 8 | SW | Dry | haz. | 7 | | | | | 41 |
| 22 | 29.75 | 68.5 | 60.3 | 2 | 1 | 8 | NW | Dry | clr. | 7.25 | | | | | 42 |
| 23 | 30.00 | 67.8 | 58.5 | 3 | 1 | 4 | SW | Dry | haz. | 10 | | | | | 43 |
| 24 | 29.70 | 68.0 | 62.3 | 3 | 1 | 8 | SW | wet | clr. | 8 | | | | | 44 |
| 25 | 29.52 | 68.0 | 60.3 | 4 | 2 | 7 | SW | Dry | clr. | 7 | | | | | 45 |
| 26 | 29.69 | 67.4 | 61.8 | 5 | 2 | 2 | NW | wet | clr. | 8 | | | | | 46 |
| 27 | 30.10 | 65.7 | 57.4 | 3 | 2 | 2 | N | Dry | clr. | 0 | | | | | 47 |
| 28 | 30.18 | 65.3 | 54.5 | 2 | 1 | 1 | NNE | Dry | ms. | 10 | | | | | 48 |
| 29 | 30.00 | 66.2 | 59.0 | 4 | 2 | 1 | W | Dry | clr. | 10 | | | | | 49 |
| 30 | 29.78 | 65.6 | 60.0 | 3 | 2 | 4 | NW | Dry | clr. | 4.510 | | | | | 50 |
| 31 | 29.76 | 64.8 | 57.7 | 3 | 2 | 3 | N | Dry | clr. | 7 | | | | | 51 |

While of Sunshine there were two adjoining & perfect days of it on July 6 & 7, the rest was scattered over the month pretty equally; & the rain also. The number of days of Bar. under 30" had risen to 23; 5" from above 30" had decreased to 8. The highest mean temp. was on July 8, = 65.4; and generally all the out temp. were much below the in ones.

August, 1893. *Copy 1.* Instrumentals normally read about 8.25 A. M. each day, as a near Nat. Mean for 24 hours.

| Month & Week
DAY. | BAROM. ^R | | THERMOM. ^S | | Spectros. ^e | | WIND. | | EARTH | | AIR | | CLOUD. | | Sun & Shine | | Rain. | | NIGHT
Col. Day
numb. | Photos
taken |
|----------------------|--|--|-----------------------|----------------|------------------------|--------------|---------------|---------------|--|---|---------------------------|------------|-------------|------------|-------------|-------------------|-------|------|----------------------------|-----------------|
| | 29. ⁹⁹
30. ⁰⁰ | 30. ⁰⁰
30. ⁰¹ | In
° Fah. | Out.
° Fah. | Rain
band. | Low
band. | Vel.
m. s. | Direct.
h. | 1 = dry
2 = wet
3 = mod.
4 = sat. | 1 = cl.
2 = fog
3 = mist
4 = fog | 1 & 10
tenths
Flam. | 1
A. M. | 10
P. M. | 1
A. M. | 10
P. M. | Col. Day
numb. | | | | |
| ♂ 1 | 29.84 | | 65.5 | 62.4 | 3 | 1 | 1 | SW | dry | cl. | 7 | | | | | | | ♂ 1 | 186 | |
| ♀ 2 | 29.73 | | 66.4 | 61.9 | 3 | 1 | 1 | NW | dry | cl. | 9 | | | | | | | ♀ 2 | 187 | |
| ♂ 3 | 29.53 | | 67.6 | 62.5 | 2 | 0 | 6 | SW | wet | mist | 10 | | | | | | | ♂ 3 | 188 | |
| ♀ 4 | 29.54 | | 67.3 | 59.3 | 2 | 1 | 5 | S | wet | mist | 7 | | | | | | | ♀ 4 | 189 | |
| ♂ 5 | 29.67 | | 66.5 | 60.8 | 3 | 2 | 8 | N | wet | cl. | 6 | | | | | | | ♂ 5 | 190 | |
| ⊙ 6 | 30.00 | | 64.8 | 53.5 | 1 | 1 | 1 | NE | wet | mist | 7 | | | | | | | ⊙ 6 | | |
| ⊙ 7 | 29.85 | | 65.4 | 63.4 | 2 | 1 | 1 | S | wet | cl. | 9 | | | | | | | ⊙ 7 | | |
| ♂ 8 | | 30.04 | 67.5 | 63.9 | 2 | 1 | 1 | S | dry | mist | 9 | | | | | | | ♂ 8 | | |
| ♀ 9 | | 30.10 | 68.8 | 64.3 | 3 | 1 | 0 | S | dry | haz. | 1 | | | | | | | ♀ 9 | | |
| ♂ 10 | 29.91 | | 70.8 | 64.3 | 4 | 2 | 1 | S | wet | haz. | 8 | | | | | | | ♂ 10 | | |
| ♀ 11 | 29.96 | | 71.0 | 65.4 | 2 | 1 | 3 | S | wet | mist | 7 | | | | | | | ♀ 11 | | |
| ♂ 12 | | 30.03 | 71.8 | 69.2 | 3 | 2 | 1 | SW | dry | cl. | 3 | | | | | | | ♂ 12 | 191 | |
| ⊙ 13 | | 30.13 | 70.6 | 62.5 | 1 | 0 | 1 | SW | dry | mist | 3 | | | | | | | ⊙ 13 | | |
| ⊙ 14 | | 30.15 | 73.0 | 69.5 | 4 | 2 | 0 | SW | dry | cl. | 0 | | | | | | | ⊙ 14 | | |
| ♂ 15 | | 30.15 | 74.6 | 69.5 | 3 | 1 | 0 | SW | dry | haz. | 1 | | | | | | | ♂ 15 | | |
| ♀ 16 | | 30.01 | 76.0 | 71.8 | 3 | 1 | 2 | W | dry | haz. | 1 | | | | | | | ♀ 16 | | |
| ♂ 17 | | 30.02 | 75.0 | 64.0 | 3 | 1 | 3 | S | dry | haz. | 4 | | | | | | | ♂ 17 | | |
| ♀ 18 | 29.68 | | 75.2 | 67.3 | 2 | 0 | 5 | S | dry | haz. | 1 | | | | | | | ♀ 18 | | |
| ♂ 19 | 29.72 | | 74.9 | 65.7 | 2 | 0 | 10 | SSW | dry | mist | 7 | | | | | | | ♂ 19 | 192 | |
| ⊙ 20 | 29.57 | | 72.3 | 61.6 | 3 | 1 | 18 | S | wet | mist | 10 | | | | | | | ⊙ 20 | | |
| ⊙ 21 | 29.33 | | 72.2 | 61.4 | 5 | 1 | 26 | S | wet | haz. | 9 | | | | | | | ⊙ 21 | | |
| ♂ 22 | 29.63 | | 69.2 | 60.7 | 2 | 1 | 10 | S | dry | haz. | 7 | | | | | | | ♂ 22 | | |
| ♀ 23 | 29.68 | | 67.8 | 58.8 | 2 | 1 | 5 | SSW | wet | mist | 9 | | | | | | | ♀ 23 | 193 | |
| ♂ 24 | 29.78 | | 68.3 | 59.0 | 3 | 1 | 5 | W | dry | cl. | 7 | | | | | | | ♂ 24 | 194 | |
| ♀ 25 | | 30.12 | 66.3 | 60.2 | 2 | 1 | 3 | N | dry | cl. | 5 | | | | | | | ♀ 25 | 195 | |
| ♂ 26 | | 30.16 | 66.2 | 57.4 | 3 | 1 | 4 | NW | dry | cl. | 9 | | | | | | | ♂ 26 | 196 | |
| ⊙ 27 | | 30.08 | 64.5 | 57.0 | 2 | 1 | 12 | N | dry | cl. | 9 | | | | | | | ⊙ 27 | | |
| ⊙ 28 | | 30.26 | 62.7 | 55.0 | 4 | 2 | 1 | N | dry | cl. | 0 | | | | | | | ⊙ 28 | | |
| ♂ 29 | | 30.26 | 65.3 | 61.0 | 2 | 0 | 1 | N | dry | mist | 7 | | | | | | | ♂ 29 | | |
| ♀ 30 | | 30.09 | 65.6 | 60.5 | 3 | 1 | 0 | NW | dry | haz. | 4 | | | | | | | ♀ 30 | | |
| ♂ 31 | 29.87 | (15) | 67.8 | 61.5 | 5 | 2 | 3 | N | dry/wet | cl. | 10 | | | | | | | ♂ 31 | | |

There was only one day of fall, perfect & blue-sky sunshine in the course of this month, viz August 9. The days of Barometer being below 29.99 were 15, & those above 30.00 were 15; and included some very dry & warm weather towards the end of the month, as well as some in the middle. On the whole there were 20 days described as dry, versus 10 described as wet. A strong gale from the South blew on Aug 20 & 21. Baromet. 1 = 71.8 on Aug 16 & 17 on Aug 21 & 22.

September 2nd half; 1893. Readings of Instruments at 8.25 ± A.M. each day, as a near Natural mean for the 24 hours.

| Month & Days | BAROM. ^R | | THERMOM. ^S | | SPECTR. | | WIND. | | EARTH. | | AIR. | | CLOUDS KIND. | Sun | | Nig. -ht. |
|--------------|---------------------|-------|-----------------------|------|--------------------|--------------------|--------------------|--------------------|------------------|------------------|------------------|------------------|--------------|----------------------|-----|-----------|
| | 29.99 | 30.00 | In. | Out. | Rain. ^h | Wind. ^h | Vel. ^{m.} | Dir. ^{h.} | A. ^{h.} | B. ^{h.} | C. ^{h.} | D. ^{h.} | | Quant. ^{h.} | AM. | |
| Sept. 16 | 29.84 | | 69.2 | 59.8 | 4 | 2 | 2 | W | Dry | ch. | 3 to 7 | | 1 2 A | ☉ | ☾ | |
| 17 | 29.66 | | 66.7 | 55.7 | 4 | 3 | 5 | NW | Dry | ch. | 1 to 10 | | 1 2 A | ☉ | ☾ | |
| 18 | 29.48 | | 67.0 | 58.7 | 4 | 1 | 4 to 10 | SW | Dry | ch. | 10 | | 2 A | ☉ | ☾ | |
| 19 | 29.23 | | 66.5 | 60.5 | 3 | 1 | 2 to 5 | S | wet | ch. | 7 to 3 | | 2 A | ☉ | ☾ | |
| 20 | 29.28 | | 64.5 | 53.0 | 3 | 2 | 3 | S | Dry | ch. | 5 to 7 | | 2 A | ☉ | ☾ | |
| 21 | 29.40 | | 62.6 | 47.5 | 2 | 2 | 3 | W | Dry | haz. | 6 to 3 | | 2 A | ☉ | ☾ | |
| 22 | 29.42 | | 60.3 | 48.5 | 1 | 1 | 5 | N | Dry | ch. | 9 to 10 | | 2 A | ☉ | ☾ | |
| 23 | 29.35 | | 61.0 | 42.3 | 1 | 1 | 14 | SW | Dry | ch. | 5, 10, 3 | | 2 A | ☉ | ☾ | |
| 24 | 29.82 | | 58.0 | 47.5 | 1 | 2 | 5 | N | Dry | ch. | 7 to 4 | | 2 A | ☉ | ☾ | |
| 25 | 29.80 | | 60.5 | 50.3 | 3 | 2 | 3 | NE | Dry | ch. | 5 to 7 | | 2 A | ☉ | ☾ | |
| 26 | 29.78 | | 62.5 | 45.5 | 3 | 1 | 0 | NE | wet | fog. | 10 | | 2 A | ☉ | ☾ | |
| 27 | 29.67 | | 64.0 | 53.8 | 1 | 1 | 0 | NE | wet | fog. | 10 to 5 | | 2 A | ☉ | ☾ | |
| 28 | 29.54 | | 63.6 | 51.0 | 2 | 1 | 15 | S | wet | mist | 10 | | 2 A | ☉ | ☾ | |
| 29 | 29.05 | | 63.0 | 54.7 | 2 | 1 | 10 | S | wet | mist | 7 to 9 | | 2 A | ☉ | ☾ | |
| 30 | 29.08 | | 63.5 | 49.5 | 1 | 2 | 3 | S | Dry | mist | 10 | | 2 A | ☉ | ☾ | |

16. The wind greatly gone down, & the importance of the clouds also; so that yesterday's status was phenomenal.
 20. Fine sunny weather, the great fall of Bar. notwithstanding. But the clouds dense, well defined & reflective.
 21. The clouds grandly solid from cold and low Bar. combined.
 24. Unsatisfactory dull grey clouds, wanting in Watery vapour!
 29. Clouds dense, low density; & with this low Bar. develop rain-squalls in the P.M. 6.30. # 29.5. 7.15.

October 1st half; 1893. Readings of Instruments at 8.25^{am} ± A.M. each day, as a near Natural Mean for the 24 hours.

| Months
Weeks
Days. | BAROM. R | | THERMOM. S | | SPECTR. M | | WIND, | | EARTH. | | AIR | | CLOUDS, | | Sun | | Rain & fall. | | Nig-
ht. |
|--------------------------|--------------|--------------|---------------|----------------|------------------------------|------------------------------|------------------|----------------------|---------------------------------------|--|---------------------------------|---|---------|-----|-----|-----|--------------|--|-------------|
| | 29.99
% < | 30.00
% > | In.
° Fah. | Out.
° Fah. | Paint
by
heat
band. | Paint
by
cold
band. | Vel.
m.
h. | Dir.
ect.
-ion | A- dry
B- wet
C- SW.
D- wet. | A- dr.
B- fog.
C- mist.
D- fog. | Quant.
1 to 10
of
Hem. | KIND.
A- L N m
B- Δ Δ Δ Δ Δ
C- m | | AM. | PM. | AM. | PM. | | |
| Oct
① 1 | 29.47 | | 65.5 | 53.0 | 3 | 2 | 5 | SW | dry | haz | 6 | Δ Δ Δ | | | | | | | |
| ② 2 | 29.48 | | 62.4 | 40.0 | 1 | 1 | 0 | SW | dry | fog | 10 | Δ Δ Δ | | | | | | | |
| ③ 3 | 29.19 | | 60.0 | 47.5 | 2 | 3 | 3 | S | wet | chr | 4 to 6 | Δ Δ Δ | | | | | | | |
| ④ 4 | 28.95 | | 58.7 | 46.0 | 2 | 2 | 5 | S | wet | mist | 10 to 7 | m Δ Δ Δ | | | | | | | |

2 5 Away unfortunately on a health-seeking visit to Flarrogate.
 2 6 "Unfortunately", because the Barometer at the time of our
 2 7 leaving home was at a lower reading than for months past, and
 2 8 some grand photographic effects had been expected during
 2 9 the forenoon of 2nd 4th, and until the carriage for the journey
 2 10 has actually arrived, when they were however exposed during
 2 11 -ately locked up & kept there to await our
 2 12 return from Flarrogate in three
 2 13 week's time; & then to be
 2 14 developed!
 2 15

October 2nd half; 1893.

Readings of Instruments at 8^h 25^m ± A.M. each day, as a near Natural Mean for the 24 hours.

| Month
Day | BAROM. ^R | | THERMOM. ^S | | SPECTRM | | WIND | | EARTH. | | AIR. | | CLOUDS. | | | Sun | | Rain | | Nig. ³
-ht. ³ |
|--------------|---------------------|-------------------|-----------------------|-------------------|----------------------------|--------------------|------------|-----------------------|---|---|----------------------------------|--|---------|-----|-----|-----|-----|------|--|--|
| | 29.99
" <
" | 30.00
" >
" | In.
°
Fah. | Out.
°
Fah. | Rain
of
heat
band | of
cold
band | Vel.
h. | Dir.
-cat
-ion. | A. cld.
B. fog
C. mist
D. fog. | A. cld.
B. fog
C. mist
D. fog. | Quant.
1 to 10
of
Fen.° | KIND.
A. V L V W
B. O O O O O O
C. - mist | AM. | PM. | AM. | PM. | AM. | PM. | | |
| Oct. 16 | | | | | | | | | | | | | | | | | | | | |
| ♂ 17 | | | | | | | | | | | | | | | | | | | | |
| ♀ 18 | | | | | | | | | | | | | | | | | | | | |
| ♂ 19 | | | | | | | | | | | | | | | | | | | | |
| ♀ 20 | | | | | | | | | | | | | | | | | | | | |
| ♂ 21 | | | | | | | | | | | | | | | | | | | | |
| ♀ 22 | | | | | | | | | | | | | | | | | | | | |
| ♂ 23 | | | | | | | | | | | | | | | | | | | | |
| ♀ 24 | | | | | | | | | | | | | | | | | | | | |
| ♀ 25 | 29.57 | | | | | | | | | | | | | | | | | | | |
| ♂ 26 | 29.53 | | 58.0 | 43.4 | 2 | 4 | 25 | W | wet | clr. | 9 | V A A | | | | | | | | |
| ♀ 27 | 29.76 | | 56.2 | 45.0 | 2 | 4 | 5 | W | dry | clr. | 3 | V A A | | | | | | | | |
| ♂ 28 | 29.62 | | 60.5 | 52.5 | 4 | 2 | 12 | S | wet | haz | 9 | V A A | | | | | | | | |
| ♀ 29 | 29.51 | | 60.4 | 46.0 | 2 | 3 | 10 | W | dry | clr. | 1 1/2 | V A | | | | | | | | |
| ♂ 30 | 29.80 | | 57.3 | 33.5 | 1 | 3 | 0 | S | fog | haz | 0 1/2 | A | | | | | | | | |
| ♀ 31 | 30.02 | | 56.0 | 34.3 | 1 | 3 | 4 | NW | fog | clr. | 0 | V | | | | | | | | |

we returned from the health resort to Harrogate.
 but the closing phenomena of the autumn storm of
 October 4, had been lost for ever!

26. A day of heavy squalls between brilliant sun-shine & blue sky.
 28. Stormy. Great driving clouds; but persistent drizzling rain only.
 29. The only clouds at 8^h 30 A.M. are white. Afterwards heavier clouds.
 30. White haze in the air, but no clouds on the blue sky. ☉ shine strong.
 31. Is spoken for by the symbols of ☉ shine sufficiently.

November, 1st half; 1893. Readings of Instruments at 8.25 ± A.M. each day, as a near Natural Mean for the 24 hours.

| Month & Days | BAROM. R | | THERMOM. S | | SPECT. # | | WIND, vel. | | EARTH | | AIR | | CLOUDS | | | Sun & shine | | Rain & fall. | | Nig. h.f. |
|--------------|----------|-------|------------|------|----------|------|------------|------|--------|--------|---------|--------------------|--------|----|----|-------------|--|--------------|--|-----------|
| | 29.99 | 30.00 | In. | Out. | Wind | Wind | dir. | dir. | A. dry | A. dry | Quant. | KIND. | AM | PM | AM | PM | | | | |
| Nov. 1 | 29.56 | | 53.0 | 38.0 | 2 | 1 | 15 | W | wet | fog. | 10 | MD MM | | | | | | | | |
| 2 | 29.49 | | 55.6 | 43.2 | 3 | 2 | 5 | W | wet | hazy | 10 | MM (2.40) (3.40) | | | | | | | | |
| 3 | 29.68 | | 58.0 | 43.4 | 1 | 2 | 0 | W | dry | mist | 10 | MM | | | | | | | | |
| 4 | 29.93 | | 58.5 | 40.6 | 1 | 4 | 4 | HW | wet | clr. | 3 | LN | | | | | | | | |
| 5 | 29.73 | | 56.0 | 37.6 | 1 | 2 | 3 | W | dry | hazy | 3 to 10 | LN MM | | | | | | | | |
| 6 | 30.00 | | 53.3 | 38.0 | 1 | 3 | 7 | N | wet | hazy | 10 | VA AM | | | | | | | | |
| 7 | 30.34 | | 53.5 | 37.4 | 1 | 2 | 5 | N | wet | hazy | 3 | VA AM | | | | | | | | |
| 8 | 30.27 | | 52.5 | 39.2 | 2 | 2 | 5 | NNE | wet | hazy | 7 | VA AM | | | | | | | | |
| 9 | 30.32 | | 53.7 | 41.6 | 2 | 4 | 3 | N | wet | hazy | 10 | VA AM | | | | | | | | |
| 10 | 30.33 | | 55.0 | 41.2 | 1 | 3 | 2 | N | wet | hazy | 10 | VA AM | | | | | | | | |
| 11 | 30.34 | | 58.5 | 46.3 | 2 | 3 | 1 | N | wet | mist | 9 to 10 | VA AM | | | | | | | | |
| 12 | 30.39 | | 59.5 | 44.3 | 1 | 2 | 0 | N | wet | mist | 10 | VA AM | | | | | | | | |
| 13 | 30.13 | | 57.0 | 33.5 | 1 | 5 | 0 to 5 | S | wet | fog | 2 to 8 | VA | | | | | | | | |
| 14 | 29.74 | | 57.5 | 39.4 | 1 | 2 | 0 to 3 | SW | dry | mist | 10 | VA | | | | | | | | |
| 15 | 29.73 | | 56.5 | 40.5 | 1 | 3 | 0 | W | dry | mist | 9 to 5 | VA | | | | | | | | |

§ 1. Great fall of Bar. since Oct. 31.
 § 4. Lawn strewn with leaves blown off the ash-trees by a N.E. wind last night.
 § 8 to 12. Cold dark, miserable & entirely overcast weather.

November, 2nd half; 1893. Readings of Instruments at 8.25 + AM. each day, as a near Natural Mean for the 24 hours.

| Month
of
Year | BAROM. ^R | | THERMOM. ^S | | SPECTR. ^M | | WIND | | EARTH | | AIR | | CLOUDS | | | Sun & Moon | | Rain & Fall | | Nig.
ht. |
|---------------------|---------------------|------|-----------------------|------|----------------------|--------------------|------------------|-----------------------|--------------------------------------|---|----------------------------------|---|--------|--|-----|------------|-----|-------------|--|-------------|
| | 29 < | 30 > | In. | Out. | Rain
heat
band | S.
cold
band | Vel.
m.
h. | Dir.
ect.
-way. | A. Dry
B. wet
C. SWM
D. Fr. | A. cbr.
B. fog.
C. mist.
D. fog. | Quant.
1 to 10
of
He m. | KIND.
A. V V m
B. O O q m Δ q
C. m @ @ | | | AM. | P.M. | AM. | P.M. | | |
| Nov. | | | | | | | | | | | | | | | | | | | | |
| 216 | 29.80 | | 56.7 | 39.5 | 1 | 2 | 0.6 | S | Dry | mist | 10 | | | | | | | | | |
| ♀ 17 | 28.77 | | 56.4 | 49.5 | 4 | 2 | 7 | SW | wet | mist | 10 & 9 | ⊙ Δ | | | | | | | | |
| ♀ 18 | 29.00 | | 56.0 | 40.5 | 2 | 3 | 40 | N | wet | mist | 10 | ⊙ | | | | | | | | |
| ⊙ 19 | 29.67 | | 48.0 | 30.0 | 1 | 5 | 20 | NE | snow | fog | 10 | ⊙ | | | | | | | | |
| ⊙ 20 | 30.11 | | 50.0 | 38.5 | 1 | 3 | 5 | NE | wet | haz | 8 & 6 | ∨ Δ | | | | | | | | |
| ♂ 21 | 30.42 | | 50.4 | 39.0 | 0 | 3 | 0.6 | W | Dry | mist | 10 | ⊙ - ∨ | | | | | | | | |
| ♀ 22 | 29.87 | | 52.3 | 40.6 | 2 | 5 | 3 | SW | Dry | clr. | 5 | ∨ Δ | | | | | | | | |
| 2 23 | 29.97 | | 48.2 | 33.0 | 1 | 3 | 7 | NW | snow | haz | 10 & 2 | ⊙ ∨ ∨ ∨ | | | | | | | | |
| ♀ 24 | 29.93 | | 51.0 | 43.5 | 2 | 6 | 5 | NW | wet | clr. | 4 & 10 | ∨ ⊙ | | | | | | | | |
| ♀ 25 | 29.57 | | 54.4 | 48.0 | 3 | 3 | 10 | W | wet | haz | 10 | ⊙ m | | | | | | | | |
| ⊙ 26 | 29.46 | | 53.3 | 40.2 | 2 | 5 | 25 | N | Dry | clr. | 10 | - ∨ | | | | | | | | |
| ⊙ 27 | 30.12 | | 40.5 | 35.0 | 2 | 3 | 7 | SW | Dry | mist | 9 | ⊙ | | | | | | | | |
| ♂ 28 | 29.94 | | 56.5 | 54.0 | 6 | 4 | 10 & 30 | W | Dry | clr. | 8 | ∨ Δ | | | | | | | | |
| ♀ 29 | 29.93 | | 58.0 | 50.0 | 2 | 4 | 15 & 30 | WSW | Dry | clr. | 9 | ⊙ | | | | | | | | |
| 2 30 | 29.65 | | 57.4 | 45.5 | 2 | 3 | | | wet | clr. | 10 | ⊙ m Δ | | | | | | | | |

216. Barom. falling fast; of wind, the warm Southern half of a Cyclone, getting up through the P.M.
 217. Barom. fell 1/2 inch during yesterday & another half during the night; with notable increase of Sp. Rain band.
 218. The second or cold half of the Cyclone of the 16th. The wind for many hours thundering on the house fearfully.
 219. Snow now on all sides of the house.
 228. Bright & richly coloured clouds. Sp. Rainband extra large; but so is the Temper. This is the setting in of the American Indian summer.

December 1st half; 1893. Readings of Instruments at 8.25 + A.M. each day, as a near Natural Mean for the 24 hours.

| Month | BAROM. ^R | | THERMOM ^S | | SPECTR. ^M | | WIND, | | EARTH | | AIR | | CLOUDS | | Sun ☉ shine | | Rain | | Nig. ht. |
|-------|---------------------|-------|----------------------|--------|----------------------|------|---------|------------|--------|---------|--------|----------------------|----------------|-------|-------------|-----|------|-----|----------|
| | Days | ° | In. ° | Out. ° | Rain f. ° | S. ° | Vel. m. | Dir. -ion. | A. dry | B. wet | A. cl. | B. haz | Quant. 1 to 10 | KIND. | AM. | PM. | AM. | PM. | |
| Dec. | 1 | 29.99 | 30.00 | 55.0 | 33.2 | 1 6 | 5 | N | drw | clr | 8 5.2 | Cloud of Arctic col. | 1 2 10 | ☉ | | | | | |
| | 2 | 30.32 | 51.0 | 25.4 | 1 8 | 0 | NW | frt | clr. | 0 | | | | ☉ | | | | | |
| | 3 | 30.13 | 52.5 | 43.5 | 2 5 | 3 | W | wet | clr. | 9 | | | | | | | | | |
| | 4 | 30.03 | 54.2 | 46.5 | 3 4 | 2 | W | wet | clr | 10 | | | | | | | | | |
| | 5 | 30.22 | 56.5 | 40.5 | 1 3 | 1 | SW | wet | mist | 8 to 10 | | | | ☉ | | | | | |
| | 6 | 29.87 | 58.0 | 48.0 | 1 3 | 2 | SW | wet | mist | 10 | | | | ☉ | | | | | |
| | 7 | 29.42 | 56.0 | 39.4 | 1 3 | 5 | SW | wet | mist | 6 | | | | ☉ | | | | | |
| | 8 | 28.93 | 53.0 | 43.5 | 2 3 | 20 | SW | wet | mist | 10 | | | | ☉ | | | | | |
| | 9 | 29.04 | 53.5 | 37.4 | 0 5 | 3 | SW | wet | haz. | 2-8 | | | | ☉ | | | | | |
| | 10 | 29.28 | 51.6 | 28.0 | 0 3 | 12 | SW | frt | fog. | 10 | | | | ☉ | | | | | |
| | 11 | 29.20 | 50.7 | 33.5 | 2 4 | 5 | W | snw | mist | 9 to 4 | | | | ☉ | | | | | |
| | 12 | 29.23 | 50.5 | 36.0 | 0 4 | 1 | SW | snw | mist | 10 | | | | ☉ | | | | | |
| | 13 | 28.78 | 50.8 | 24.0 | 2 4 | 7 | SW | snw | mist | 10 | | | | ☉ | | | | | |
| | 14 | 29.53 | 52.5 | 35.3 | 1 6 | 0 | SW | wet | clr. | 0 | | | | ☉ | | | | | |
| | 15 | 29.97 | 53.0 | 44.0 | 0 3 | 2 | SW | wet | mist | 10 | | | | ☉ | | | | | |
| | 16 | 30.21 | 56.7 | 52.0 | 1 4 | 0 | SW | wet | haz. | 8 | | | | | | | | | |

Two fully sunshiny days, but 9 utterly overclouded ones, in this first half of December. Two days also of Bar. being below 29.00; these days of the out thermom. being amongst the twenties; while Dec. 16, is far above all the rest of the period for out temp. Note further on the first sunshiny day Dec. 2, the tremendously strong low sun spect. band.

December, 2nd half; 1893. Readings of Instruments at 8.25 ± A.M. each day, as a near Natural Mean for the 24 hours.

| Month | BAROM. ^K | | THERMOM. ^S | | SPECTR. ^M | | WIND. | | EARTH | | AIR | | CLOUDS. | | Sun's shns. | | Rain & fall | | Nig-ht. |
|-------|---------------------|--------------|-----------------------|----------------|----------------------|-------------------------|------------|-------------------|--------------------------------------|---------------------------------------|---------------------------|---|---------|-----|-------------|-----|-------------|--|---------|
| | 29.99
3 < | 30.00
4 > | In.
° Fah. | Out.
° Fah. | Rain
band | S. ^o
band | Vel.
m. | Dir.
-
ion. | A. dry
B. wet
C. SW
D. frt. | A. dr
B. haz
C. mist
D. fog. | Quant.
1 to 10
Hem. | KIND.
A: L
B: Δ Δ Δ Δ Δ Δ
C: - m @ @ @ @ | AM. | PM. | AM. | PM. | | | |
| Dec | | | | | | | | | | | | | | | | | | | |
| 17 | | 30.13 | 57.4 | 44.3 | 1 | 3 | 2 | W | Dry | haz | 7 to 3 | | | | | | | | |
| 18 | 29.83 | | 55.4 | 37.5 | 1 | 3 | 1 | W | Dry | mist | 9 | | | | | | | | |
| 19 | 29.22 | | 56.8 | 44.0 | 3 | 4 | 10 | S | wet | mist | 10 | | | | | | | | |
| 20 | 28.80 | | 55.0 | 37.5 | 2 | 3 | 0 | SW | wet | mist | 10 | | | | | | | | |
| 21 | 29.07 | | 50.2 | 38.5 | 1 | 4 | 10 | W | wet | haz | 2 to 8 | | | | | | | | |
| 22 | 29.43 | | 53.5 | 41.7 | 3 | 3 | 3 | SSW | wet | mist | 10 | | | | | | | | |
| 23 | 29.83 | | 55.5 | 44.0 | 2 | 5 | 5 | W | wet | haz | 5 to 2 | | | | | | | | |
| 24 | 29.94 | | 56.8 | 39.0 | 1 | 4 | 3 | SSW | Dry | mist | 9 to 10 | | | | | | | | |
| 25 | 29.77 | | 56.8 | 41.5 | 1 | 5 | 7 | W | wet | clr | 2 to 8 | | | | | | | | |
| 26 | 30.23 | | 55.4 | 37.0 | 1 | 4 | 0 | W | wet | haz | 0 to 10 | | | | | | | | |
| 27 | 30.22 | | 55.9 | 40.0 | 0 | 3 | 0 | SW | wet | fog | 10 | | | | | | | | |
| 28 | 30.39 | | 56.0 | 40.4 | 1 | 5 | 0 | SW | Dry | mist | 8 to 10 | | | | | | | | |
| 29 | 30.54 | | 57.8 | 40.6 | 1 | 4 | 0 | W | Dry | fog | 10 | | | | | | | | |
| 30 | 30.61 | | 57.7 | 35.0 | 1 | 3 | 0 | SW | Dry | fog | 10 | | | | | | | | |
| 31 | 30.38 | | 54.0 | 24.5 | 0 | 4 | 0 | SW | fit | mst | 0 to 10 | | | | | | | | |

Dec. 20 Barometer unprecedentedly low.
 Dec. 30. unprecedentedly high.
 Dec. 31, Out Thermometer, excessively low, freezing
 even days in this half of December, absolutely foggy & overcast.
 Five days with a fair amount of Sun.
 Dec. 23, 25 - 28 notable for strong low Sun Spectrum band.

Copy for Vol. 2 contin. of "Cloud Forms that have been, &c."
 January 1st half, 1894. Readings of Instruments at 8.25 A M each day.

| Date | BAROM. R | | THERM. | | SPECTR. | | WIND. | | ATMO. Electr. -icity. | EARTH | | AIR | | CLOUDS | | Sunshine AMPM | Cloud Photos Taken | Rainy fall AM PM | N
-
G
H
T. |
|------|----------|-------|--------|------|------------------|----------------|------------|-------------|-----------------------|--------|---------|---------|--------|--------|--------|---------------|--------------------|------------------|------------------------|
| | In | Out | In | Out | Reint. Heat band | Heat Cold band | Vel. m. h. | Direct -ion | | A: Dry | B: wet | C: mist | D: fog | A: clr | B: haz | | | | |
| 1 | 30.99 | 30.00 | 50.3 | 24.0 | 1 | 3 | 10 | N. | | Dry | chr. | 10 | 6 | Am | | | (2) 25.4 | | |
| 2 | 30.20 | 50.7 | 32.0 | 1 | 4 | 7 | N | | dew | chr. | 7 | 6 | = | | | (2) 25.5 | | | |
| 3 | 30.57 | 49.5 | 29.5 | 0 | 4 | 2 | NE | | snow | haz | 10 | 6 | | | | (0) | | | |
| 4 | 30.37 | 48.5 | 23.7 | 1 | 5 | 2 | NE | | dew | chr. | 10 | 6 | | | | (1) | | | |
| 5 | 29.84 | 46.2 | 27.3 | 1 | 5 | 5 | E | | dew | chr. | 10 | 6 | | | | (1) | | | |
| 6 | 29.58 | 45.5 | 15.0? | 1 | 3 | 0 | W | | dew | mist | 10 to 1 | 6 | | | | (2) | | | |
| 7 | 29.70 | 45.0 | 16.0 | 0 | 3 | 0 | SW | | dew | fog | 10 | 6 | | | | (0) | | | |
| 8 | 29.94 | 46.5 | 16.0? | 0? | 3? | 0 | SW | | dew | fog | 10 | 6 | | | | (0) | | | |
| 9 | 29.64 | 48.7 | 23.8 | ? | ? | 2 | SW | | dew | fog | 10 | 6 | | | | (0) | | | |
| 10 | 29.54 | 51.0 | 33.0 | 3 | 5 | 4 | SW | | dew | fog | 10 | 6 | | | | (0) | | | |
| 11 | 29.55 | 55.0 | 45.3 | 2 | 3 | 8 to 20 | S. | | wet | mist | 10 to 0 | 6 | = | | | (0) | | | |
| 12 | 29.66 | 56.7 | 41.5 | 1 | 4 | 1 | SW. | | wet | fog | 9 to 2 | 6 | = | | | (2) 25.6 | | | |
| 13 | 29.76 | 57.2 | 43.5 | 1 | 3 | 1 | S | | wet | haz. | 9 | 6 | | | | (0) | | | |
| 14 | 29.67 | 56.5 | 41.7 | 1 | 2 | 0 | SW | | wet | fog | 10 | 6 | | | | (0) | | | |
| 15 | 29.82 | 56.4 | 40.9 | 1 | 5 | 0 | SW | | wet | chr. | 4 to 10 | 6 | | | | (2) | | | |

15th Clouds heavy and dark, as though forming snow; but they are ill defined.
 16th More snow fell last night. Air dark this morning.
 17th Still more snow last night; and snowing almost all day.
 18th Dark morning; deeper snow than ever: cold greater, has reached its lowest point this month; windows are heavily frosted: trees coated. The out thermom. is so low as to be unreadable & may be anywhere between 10 & 15

Copy 1 for Vol. 2 continued of "Cloud forms that have been, &c"
 January 2nd half, 1894. Readings of Instruments at 8.25 AM, each day.

| Date | BAROM. $\frac{1}{2}$ | | THERM. | | SPECTR. | | WIND | | Atmos. Elect. - ncity | EARTH A= dry B= wet C= snow D= fat | AIR A= clu B= haz C= mist D= fog | QU. 1610 1610 1610 | CLOUDS KIND A= cir B= cum C= str D= nim E= alto F= cirro G= cirro-strat H= alto-strat I= nimbo-strat J= cumulo-strat K= cumulo-nimbo L= cumulo-nimbo-strat M= cumulo-nimbo-strat N= cumulo-nimbo-strat O= cumulo-nimbo-strat P= cumulo-nimbo-strat Q= cumulo-nimbo-strat R= cumulo-nimbo-strat S= cumulo-nimbo-strat T= cumulo-nimbo-strat U= cumulo-nimbo-strat V= cumulo-nimbo-strat W= cumulo-nimbo-strat X= cumulo-nimbo-strat Y= cumulo-nimbo-strat Z= cumulo-nimbo-strat | Sun. shine AM PM | Cloud Photos taken | Rainfall A.M. P.M. |
|------|----------------------|-------|--------|------|---------|------|-------|---------|-----------------------|------------------------------------|----------------------------------|--------------------|--|------------------|--------------------|--------------------|
| | 29.99 | 30.00 | In. | Out. | Heat | Cold | Vel. | Direct. | | | | | | | | |
| 16 | 29.58 | | 57.0 | 42.8 | 2 | 3 | 1 | S | | Dry | haz | 10 | ⑥ | | | |
| 17 | 29.32 | | 57.8 | 46.7 | 1 | 4 | 16.15 | SW | | wet | haz | 76.10 | ① | | | |
| 18 | 29.25 | | 57.8 | 42.3 | 2 | 3 | 6 | W | | wet | haz | 96.7 | ③ | | | |
| 19 | 29.66 | | 57.0 | 42.5 | 2 | 4 | 1 | SW | | Dry | haz | 96.10 | ⑥ | | | |
| 20 | 29.15 | | 56.5 | 43.0 | 2 | 3 | 30 | SW | | wet | haz | 36.10 | ① | | | |
| 21 | 29.60 | | 56.5 | 46.0 | 2 | 4 | 20 | SW | | Dry | haz | 8 | ① | | | |
| 22 | 29.33 | | 56.0 | 40.0 | 1 | 3 | 2 | SW | | Dry | met | 10 | ⑥ | | | |
| 23 | 29.62 | | 52.5 | 34.0 | 0 | 6 | 0 | W | | Dry | clu. | 46.0 | ② | | | |
| 24 | 29.83 | | 52.8 | 35.0 | 1 | 3 | 10 | SW | | Dry | met | 10 | ⑥ | | | |
| 25 | 29.61 | | 54.8 | 41.3 | 2 | 4 | 5 | W | | Dry | clu. | 66.9 | ② | | | |
| 26 | 29.38 | | 53.7 | 35.6 | 0 | 5 | 10 | W | | Dry | clu. | 16.7 | ② | | | |
| 27 | 29.25 | | 56.8 | 48.3 | 2 | 4 | 30 | W | | wet | haz. | 10 | ⑥ | | | |
| 28 | 29.23 | | 53.5 | 34.4 | 1 | 5 | 16 | W. | | wet | clu. | 96.6 | ① | | | |
| 29 | 29.82 | | 53.0 | 36.3 | 1 | 4 | 1 | W. | | wet | clu. | 46.9 | ① | | | |
| 30 | 29.33 | | 53.0 | 39.8 | 1 | 3 | 15 | W | | wet | haz | 56.9 | ④ | | | |
| 31 | 29.18 | | 53.0 | 32.0 | 1 | 4 | 0 | W | | snow | haz | 104.3 | ⑥ | | | |

18th Clouds of magnificent volume, of deep purple tints in their shadows.
 22nd The lowering of Barometer followed by rain out of nimbi clouds, with strong wind.
 27th Wind of storm strength; the lower clouds flying along with terrific velocity; the rain saturating. Bar. at 5 P.M. down to 29.17. Turning afterwards to snow.
 30th Windy & Squally. Cumulostrati of majestic proportions of with snowy summits. Next day snow is lying 2 or 3 inches ^{deep} everywhere over all the country.

Copy of the ... of Cloud forms that have been ...
 February, 1st half, 1874. Readings of Instruments at 8.25 AM each day.

| Month
Day | BAROM.
in shade | Therm.
In Out | | Spectr.
Rain Low
heat cold
band band | | WIND
Vel. Direct.
Per Aer ion. | | Abn.
Elec-
-tricity. | EARTH
Dry Wet
Snow
Fog. | AIR
Cbs.
Fog.
mist
fog. | CLOUDS | | Sunshine | | Cloud
Photos
taken | Rain-fall | |
|--------------|--------------------|------------------|------|---|----|--------------------------------------|-----|----------------------------|----------------------------------|-------------------------------------|---------|---|----------|---|--------------------------|-----------|--|
| | | Quant | Kind | AM | PM | AM | PM | | | | | | | | | | |
| 7 | 29.58 | 53.3 | 34.0 | 0 | 4 | 5 | WSW | | snow. | clr. | 3 to 10 | - | 0 | 0 | | | |
| 8 | 29.60 | 57.5 | 58.5 | 3 | 5 | 2 | S | | wet. | clr. | 9 to 5 | ☁ | 0 | 0 | 2 | 265 | |
| 9 | 29.74 | 58.2 | 43.4 | 1 | 4 | 5 | W | | dry. | clr. | 0 to 7 | ☁ | 0 | 0 | 3 | 266 | |
| 10 | 30.14 | 58.5 | 44.3 | 3 | 4 | 7 | W | | dry. | clr. | 6 to 9 | ☁ | 0 | 0 | 3 | 267 | |
| 11 | 30.26 | 59.0 | 38.5 | 2 | 4 | 3 | SW | | dry. | hazy | 9 to 10 | ☁ | 0 | 0 | | | |
| 12 | 29.82 | 56.4 | 45.4 | 1 | 2 | 15 | SW | | dry. | mist | 9 to 10 | ☁ | 0 | 0 | | | |
| 13 | 29.46 | 59.5 | 52.5 | 3 | 3 | 30 | WSW | | wet. | mist | 9 to 10 | ☁ | 0 | 0 | | | |
| 14 | 29.88 | 58.5 | 42.3 | 1 | 4 | 10 | W | | wet. | clr. | 0 to 7 | ☁ | 0 | 0 | 4 | 268 | |
| 15 | 29.53 | 58.8 | 42.7 | 1 | 3 | 7 | WSW | | wet. | mist | 10 to 3 | ☁ | 0 | 0 | 4 | 269 | |
| 16 | 29.36 | 57.0 | 43.6 | 1 | 3 | 20 | W | | wet. | hazy | 10 to 8 | ☁ | 0 | 0 | | | |
| 17 | 29.14 | 57.8 | 39.0 | 3 | 4 | 30 | SW | | wet. | fog | 10 | ☁ | 0 | 0 | | | |
| 18 | 29.00 | 56.8 | 38.9 | 2 | 4 | 10 | W | | wet. | clr. | 3 to 10 | ☁ | 0 | 0 | | | |
| 19 | 29.78 | 53.0 | 35.2 | 1 | 5 | 0 | W | | fog. | clr. | 0 to 1 | ☁ | 0 | 0 | 4 | | |
| 20 | 30.04 | 53.5 | 27.8 | 0 | 5 | 0 | W | | fog. | clr. | 0 to 1 | ☁ | 0 | 0 | 2 | 272 | |
| 21 | 30.02 | 53.8 | 32.0 | 1 | 3 | 0 | W | | snow. | mist | 10 | ☁ | 0 | 0 | | | |

7 Clouds soft, heavy, driving along at a prodigious rate. The Col. Cloud Photos taken indicates that many more were taken, than were preserved.
 8 Brilliant morning, but not photographic because there were no clouds at all; after 1st P.M. clouds appeared & became heavier near 3 at
 9 Overcast & rainy. A rain cyclone from America, telegraphed.
 10 Not a cloud, brilliant ☉, clear air all day long.

Copy 1, for Vol. 2 continued of "Cloud forms that have been seen"
 February 2nd half, 1894. Readings of Instruments at 8.25 AM each day.

| Month
or
Week
Days. | BAROM. | | THERM. | | SPECTR. | | WIND | | Abn.
Elect. | EARTH
dry,
wet,
dew,
frost. | AIR
dry,
fog. | CLOUDS | | Sunshine | | Cloud
Notes | | Rainfall | |
|------------------------------|----------|---|--------|------|----------------------|-----------------------------|----------------------------|---------|----------------|---|---------------------|---------|-------|----------|-----|----------------|-----|----------|-----|
| | In shade | " | In | Out | Rain
Heat
band | Clear
on
cold
band | Vel.
m.
per
hour. | Direct. | | | | Quant. | KIND. | AM. | PM. | AM. | PM. | AM. | PM. |
| ♀ 16 | 29.93 | | 56.5 | 37.6 | ? | ? | 0 | W | | wet | fog | 10 | ☉ | | ☉ | | | | |
| ♀ 17 | 30.02 | | 56.4 | 33.5 | 2 | 3 | 3 | S | | snow | mtt | 10 | ☉ | | ☉ | | | | |
| ♂ 18 | 30.33 | | 53.4 | 32.5 | 1 | 3 | 0 | SW | | snow | haz | 10 | ☉ | | ☉ | | | | |
| ♂ 19 | 30.43 | | 51.4 | 24.2 | 0 | 2 | 1 | SW | | snow | mtt | 3 to 1 | ☉ | | ☉ | | | | |
| ♂ 20 | 30.36 | | 49.3 | 15? | 0 | 3 | 0 | W | | snow | fog | 10 to 4 | ☉ | | ☉ | | | | |
| ♀ 21 | 30.21 | | 50.0 | 16.5 | ? | ? | 0 | SW | | snow | fog | 10 to 9 | ☉ | | ☉ | | | | |
| ♀ 22 | 30.24 | | 52.3 | 27.0 | 1 | 3 | 0 | W | | snow | haz | 3 to 8 | ☉ | | ☉ | | | | |
| ♀ 23 | 29.75 | | 54.0 | 35.3 | 2 | 3 | 0 | SW | | snow | mtt | 10 | ☉ | | ☉ | | | | |
| ♀ 24 | 29.37 | | 54.0 | 35.0 | 1 | 2 | 7 | W | | snow | cl. | 9 | ☉ | | ☉ | | | | |
| ♂ 25 | 29.43 | | 54.8 | 37.5 | 3 | 3 | 3 | SW | | snow | mtt | 10 | ☉ | | ☉ | | | | |
| ♂ 26 | 29.36 | | 57.2 | 44.8 | 2 | 3 | 20 | SW | | wet | haz. | 3 to 9 | ☉ | | ☉ | | | | |
| ♂ 27 | 29.53 | | 57.8 | 40.6 | 2 | 3 | 7 | SW | | wet | cl. | 5 to 10 | ☉ | | ☉ | | | | |
| ♀ 28 | 29.70 | | 56.3 | 37.7 | 1 | 2 | 7 | SW | | dry | haz. | 0 to 10 | ☉ | | ☉ | | | | |

① 18th Trees as well as ground showing deeper snow than any fall of this season. A little wind from the West during P.M. hours. But generally quiet & cold all day.

① 25th Snow not yet quite gone. Wind increasing through the day with rain. Barom. at 5 P.M. down to 29.16.

① 26th Strangely bright blue sky & Sunshiny morning after the heavy fall of Barom. & violent wind of last night. Out temp. notably high.

1894. March 1st half Readings of Instruments at 8.30 ± AM each day
 as a near Nat. Mean for the 24 hours.

| Index
of
Days | BAROMETER | | THERMOM ^S | | Spectr. | | WIND | | EARTH | | AIR | | CLOUDS. | | | | Cloud
Photos
taken | | NIGHT | |
|---------------------|--------------|--------------|----------------------|---------------|-------------------|--------------------|------------------|---------------|--------------------------------------|---------------------------------------|-----------------------------|--|---------|--|--|----------------|--------------------------|---------------|---------------|--|
| | 29.99
3 < | 30.00
3 > | In
° Fah. | Out
° Fah. | Rain
4
bars | Low
0.5
bars | Vel.
m.
h. | Dir.
-lon. | A Dry
B wet
C shur
D: frost | A: cl:
B: haz
C: mist
D: fog | Quant
10/10
7
20m. | KIND
A: vln m
B: o o m
C: - m w
D: o | | | | Sun
A M P M | | Rain
AM PM | Fall
AM PM | |
| 1 | 29.44 | | 53.5 | 42.2 | 2 | 3 | 20 | SW | wet | mist | 9610 | ☉ m | | | | ☉ | | | | |
| 2 | 29.63 | | 53.5 | 42.0 | 1 | 3 | 10 | W | wet | hazy | 3-9 | ☉ m | | | | ☉ | 2 2.81
2.82 | | | |
| 3 | 29.98 | | 53.5 | 37.6 | 1 | 3 | 1 | SW | dry | hazy | 069 | ☉ m | | | | ☉ | | | | |
| 4 | 29.68 | | 55.6 | 40.2 | 1 | 2 | 15 | SW | wet | mist | 967 | ☉ m m | | | | ☉ | 4.83 | | | |
| 5 | 30.07 | | 53.2 | 40.7 | 2 | 3 | 6 | WSW | dry | clr | 10 | ☉ m | | | | ☉ | | | | |
| 6 | 29.25 | | 52.8 | 43.4 | 1 | 3 | 15 | NW | wet | clr | 267 | ☉ m | | | | ☉ | 2 2.84 | | | |
| 7 | 29.71 | | 54.0 | 38.9 | 1 | 3 | 2 | SW | dry | hazy | 2 | ☉ m | | | | ☉ | | | | |
| 8 | 29.32 | | 55.7 | 44.2 | 2 | 3 | 2610 | SW | dry | clr | 7610 | ☉ m m | | | | ☉ | 6 2.85
2.86 | | | |
| 9 | 29.23 | | 55.7 | 45.0 | 3 | 3 | 5 | SW | wet | mist | 9610 | ☉ m m | | | | ☉ | | | | |
| 10 | 29.35 | | 55.0 | 40.8 | 1 | 4 | 15 | WNW | wet | clr. | 368 | ☉ m m | | | | ☉ | 4 2.87
2.88 | | | |
| End of | | Photo box | | 24 | | of prepared | | vol | | 2. of | | Clouds from photos. | | | | | | | | |
| 11 | 29.12 | | 56.0 | 44.7 | 2 | 4 | 12 | W | wet | hazy | 6610 | ☉ m m | | | | ☉ | | | | |
| 12 | 29.30 | | 54.5 | 40.5 | 1 | 3 | 15 | SW | wet | clr | 369 | ☉ m | | | | ☉ | | | | |
| 13 | 28.80 | | 54.2 | 36.4 | 2 | 4 | 20 | W | snw | clr | 7-9 | ☉ m | | | | ☉ | 3 | | | |
| 14 | 29.28 | | 53.0 | 39.6 | 2 | 5 | 7 | W | dry | clr | 368 | ☉ m | | | | ☉ | 5 | | | |
| 15 | 29.38 | | 56.0 | 36.6 | 1 | 2 | 3 | WNW | wet | misty | 9610 | ☉ m | | | | ☉ | 4 | | | |
| 16 | 29.74 | | 54.7 | 32.0 | 2 | 4 | 0 | NNE | fxt | clr | 065 | ☉ m | | | | ☉ | 3 | | | |

1894 May 2nd half Readings of Instruments at 9.30 AM each day, as
 a record Natural Means for the 24 hours.

| Date
Mo/Day | BAROM. | | THERMOM. | | SPECTR. | | WIND | | EARTH | | | AIR | | | CLOUDS | | | Sun & Stars | | Cloud-Photos | | Rain & Fall | | Night |
|----------------|--------------|--------------|---------------|----------------|-------------------|------------------|------------|------------------------------|---|--|----------------------------|---|-------|----|--------|----|----|-------------|----|--------------|--|-------------|--|-------|
| | 24.44
7 < | 30.00
7 > | In
° Fahr. | Out
° Fahr. | Rain
7
band | Low
7
band | Dir.
h. | Vel.
m.
-cot.
-lon. | A: Dry
B: wet
C: snow
D: frost | A: chr.
B: haz.
C: mist
D: fog. | QUANT.
1 5 10
4 Hom. | KIND
A 1 2 3 4 5 6 7 8 9 10
B C D E F G H I J K L M N O P Q R S T U V W X Y Z | AM | PM | AM | PM | AM | PM | AM | PM | | | | |
| 4 17 | | 30.19 | 58.4 | 48.0 | 2 | 1 | 15 | NE | Dry | mist | 10 | ☉ | | | | | | | | | | | | |
| ♀ 18 | | 30.25 | 57.6 | 48.5 | 1 | 1 | 7 | NE | Dry | haz. | 9 | ☉ ☽ ☿ | | | | | | | | | | | | |
| ♂ 19 | | 30.24 | 56.8 | 46.4 | 0 | 1 | 5 | NE | Dry | chr. | 9 | ☉ ☽ ☿ | | | | | | | | | | | | |
| ☉ 20 | 29.96 | | 55.2 | 41.5 | 1 | 2 | 4 | NE | Dry | chr. | 7 | ☉ ☽ ☿ | | | | | | | | | | | | |
| ♂ 21 | 29.92 | | 56.3 | 44.5 | 2 | 1 | 7 | N | Dry | chr. | 6 | ☉ ☽ ☿ | | | | | | | | | | | | |
| ♂ 22 | | 30.03 | 53.4 | 45.4 | 1 | 2 | 2 | ENE | Dry | chr. | 7 | ☉ ☽ ☿ | | | | | | | | | | | | |
| ♀ 23 | | 30.24 | 56.7 | 46.2 | 2 | 2 | 5 | NNE | Dry | haz. | 10 | ☉ ☽ ☿ | | | | | | | | | | | | |
| 4 24 | | 30.38 | 57.6 | 50.3 | 0 | 1 | 5 | N | Dry | haz. | 0 | haze | ☉ ☽ ☿ | | | | | | | | | | | |
| ♀ 25 | | 30.100 | 59.5 | 49.6 | 0 | 1 | 0 | SW | Dry | haz. | 5 | ☉ thick haze | | | | | | | | | | | | |
| ♂ 26 | 24.74 | | 58.7 | 47.0 | 2 | 3 | 20 | N | Dry | chr. | 10.4 | ☉ ☽ ☿ | | | | | | | | | | | | |
| ☉ 27 | 24.70 | | 55.2 | 43.5 | 1 | 1 | 20 | NNE | wet | chr. | 8 to 10 | ☉ ☽ ☿ | | | | | | | | | | | | |
| ♂ 28 | 24.43 | | 56.6 | 48.7 | 2 | 1 | 1 | N | Dry | chr. | 9 | ☉ | | | | | | | | | | | | |
| ♂ 29 | 24.48 | | 57.4 | 50.8 | 1 | 1 | 0 | W | wet | haz. | 7 to 10 | ☉ ☽ ☿ | | | | | | | | | | | | |
| ♀ 30 | 24.58 | | 58.5 | 51.3 | 2 | 1 | 0 | SW | Dry | haz. | 7 to 4 | ☉ ☽ ☿ haze | | | | | | | | | | | | |
| 4 31 | 24.58 | | 59.3 | 53.6 | 3 | 7 | 1 | NW | wet | chr. | 8 to 4 | ☉ ☽ ☿ | | | | | | | | | | | | |

1894 June 2nd half

Readings of Instruments at 8.30 A.M. each day, as a near Natural mean for the 24 hours.

| Month & Days | BAROM. R. | | THERMOM. R. | | SPECTR. | | WIND | | EARTH. | | | AIR. | | CLOUDS. | | | | Cloud-Photos | | Night. | |
|--------------------|-----------|-------|-------------|------|---------|----|------|------|--------|-------|--------|-------|-------|---------|-------|------|----|--------------|----|--------|---|
| | 24.99 | 30.00 | In | Out | Rain | Dr | Vel. | Dir. | A dry | B wet | C mist | A obs | B haz | C fog | Quant | Kind | AM | PM | AM | PM | |
| ♂ 6 | | 30.03 | 62.6 | 59.5 | 2 | 2 | 4 | SW | dry | chr. | 8 | 6 | 1 | | | | | | | | 4 |
| ⊙ 17 | 24.74 | | 65.0 | 61.3 | 3 | 1 | 6 | SW | dry | hazy. | 7 | 6 | 10 | | | | | | | | 2 |
| ⊙ 18 | 29.67 | | 65.0 | 55.6 | 2 | 1 | 4 | SW | dry | hazy | 10 | | | | | | | | | | 0 |
| ♂ 19 | 29.94 | | 62.0 | 55.0 | 2 | 3 | 2 | W | wet | chr. | 8 | | | | | | | | | | 4 |
| ♀ 20 | 29.80 | | 64.0 | 57.3 | 3 | 1 | 1 | SW | wet | mist | 10 | | | | | | | | | | 0 |
| 2 21 | | 30.07 | 63.8 | 58.7 | 1 | 1 | 4 | SW | dry | hazy. | 2 | 6 | 8 | | | | | | | | 0 |
| ♀ 22 | 29.98 | | 66.0 | 58.3 | 2 | 1 | 0 | S | dry | mist. | 10 | 6 | 4 | | | | | | | | 2 |
| ♂ 23 | 29.87 | | 67.0 | 61.8 | 1 | 0 | 15 | SW | dry | hazy. | 10 | | | | | | | | | | 0 |
| 7 th PM | 29.63 | | | | | | | | | | | | | | | | | | | | |
| ⊙ 24 | 24.77 | | 66.5 | 57.0 | 3 | 2 | 20 | WSW | dry | chr. | 8 | | | | | | | | | | 2 |
| ⊙ 25 | | 30.02 | 65.3 | 52.5 | 4 | 2 | 5 | SW | wet | mist | 10 | | | | | | | | | | 2 |
| ♂ 26 | | 30.24 | 67.5 | 64.5 | 3 | 1 | 0 | N | dry | chr. | 10 | | | | | | | | | | 0 |
| ♀ 27 | | 30.30 | 67.4 | 62.0 | 1 | 0 | 2 | NE | dry | hazy. | 3 | | | | | | | | | | 0 |
| 2 28 | | 30.28 | 66.0 | 61.0 | 2 | 1 | 1 | N | dry | hazy. | 0 | 6 | 2 | | | | | | | | 0 |
| ♀ 29 | | 30.35 | 68.6 | 64.3 | 3 | 2 | 1 | N | dry | chr. | 7 | 6 | 0 | | | | | | | | 0 |
| ♂ 30 | | 30.40 | 70.3 | 66.5 | 2 | 1 | 1 | SW | dry | chr. | 0 | | | | | | | | | | 0 |
| July 1 | | 30.28 | 71.4 | 64.5 | | | | | | | | | | | | | | | | | |

1894 July 1st half Readings of Instruments at 8.30 A.M. each day, as a near Natural mean for the 24 hours.

| Month's
Week's
Days | BAROM. | | THERMOM. | | SPECTR. | | WIND. | | EARTH | | AIR. | | CLOUDS | | ☉
☽
☾
☿
♁
♂
♀
♃
♄
♅
♆
♇
♈
♉
♊
♋
♌
♍
♎
♏
♐
♑
♒
♓ | Cloud
Photos
taken | rain
AM | frost
PM | NL |
|---------------------------|--------------|--------------|------------|-------------|---------------------|--------------------|------------------|------------------|--|---|----------------------------------|---|--|------|--|--------------------------|------------|-------------|----|
| | 29.99
7 < | 30.00
7 > | In
Fah. | Out
Fah. | Rain
sum
band | L
count
band | Dir.
mi
hr | Dir.
mi
hr | A
dry
B
wet
C
dew
D
fog | A
dry
B
fog
C
mist
D
fog | Quant.
1 to 10
of
1000. | Kind.
A
B
C
D
E
F
G
H
I
J
K
L
M
N
O
P
Q
R
S
T
U
V
W
X
Y
Z | ☉
☽
☾
☿
♁
♂
♀
♃
♄
♅
♆
♇
♈
♉
♊
♋
♌
♍
♎
♏
♐
♑
♒
♓ | AM | | | | | |
| 1 | | 30.28 | 71.9 | 64.5 | 2 | 1 | 0 | SW | dry | haz | 0 | | | ☉☉☉☉ | 0 | | | | |
| 2 | | 30.09 | 73.0 | 66.5 | 3 | 1 | 3 | SE | dry | haz | 5 | ☉☉☉☉ | ☉☉☉☉ | 1 | | | | | |
| 3 | | 30.02 | 72.2 | 63.0 | 3 | 1 | 3 | N | dry | clr. | 3 | ☉☉☉☉ | ☉☉☉☉ | 1 | | | | | |
| 4 | | 30.07 | 70.5 | 62.4 | 2 | 1 | 5 | W | dry | clr. | 2 | ☉☉☉☉ | ☉☉☉☉ | 5 | | | | | |
| 5 | | 30.08 | 70.8 | 65.3 | 1 | 0 | 5 | S | dry | haz | 9 | ☉☉☉☉ | ☉☉☉☉ | 0 | | | | | |
| 6 | 29.98 | | 71.3 | 63.0 | 1 | 0 | 2 | SW | dry | haz | 4 | ☉☉☉☉ | ☉☉☉☉ | 0 | | | | | |
| 7 | 29.82 | | 72.0 | 62.4 | 1 | 0 | 6 | W | dry | haz. | 4-7 | ☉☉☉☉ | ☉☉☉☉ | 2 | | | | | |
| 8 | 29.88 | | 70.0 | 57.0 | 3 | 1 | 12 | W | dry | clr | 9 to 7 | ☉☉☉☉ | ☉☉☉☉ | 2 | | | | | |
| 9 | 29.73 | | 68.5 | 59.4 | 2 | 1 | 0 | NW | dry | haz. | 7 to 9 | ☉☉☉☉ | ☉☉☉☉ | 0 | | | | | |
| 10 | 29.43 | | 68.3 | 57.8 | 3 | 1 | 0 | W | wet | haz | 10 | ☉☉☉☉ | ☉☉☉☉ | 0 | | | | | |
| 11 | 29.24 | | 67.2 | 60.3 | 2 | 2 | 15 to 12 | W | dry | clr | 10 | ☉☉☉☉ | ☉☉☉☉ | 4 | | | | | |
| 12 | 29.22 | | 67.0 | 59.6 | 2 | 15 to 12 | W | dry | clr | 2 | 2 | ☉☉☉☉ | ☉☉☉☉ | 3 | | | | | |
| 13 | 29.42 | | 67.0 | 58.6 | 1 | 0 | 7 | W | dry | haz | 10 | ☉☉☉☉ | ☉☉☉☉ | 0 | | | | | |
| 14 | 29.55 | | 65.0 | 60.5 | 3 | 1 | 2 | WSW | dry | clr. | 5 to 10 | ☉☉☉☉ | ☉☉☉☉ | 4 | | | | | |
| 15 | 29.68 | | 65.6 | 57.8 | 4 | 1 | 2 | W | wet | clr. | 10 to 9 | ☉☉☉☉ | ☉☉☉☉ | 0 | | | | | |
| 16 | 29.73 | | 64.5 | 54.0 | 3 | 1 | 1 | SW | wet | mist | 10 to 9 | ☉☉☉☉ | ☉☉☉☉ | 0 | | | | | |

1844 July 2nd half Readings of Instruments at 8.30 AM each day, as a near Natural mean for the 24 hours.

| Month's Days | BAROM. | | THERMOM. | | SPECTR. | | WIND | | EARTH | | | AIR | | CLOUDS | | MOON | | SUN | | Night |
|--------------|--------------|--------------|--------------|---------------|---------------------------|--------------------|------------------|------------------------|-----------------------------------|-----------------------------------|--------------------------------|--|--|--------|----|-------------------|--------------|-----|----|-------|
| | 29.99
9 < | 30.00
? > | In
° Fah. | Out
° Fah. | Rain
of
dew
band | of
wind
band | Vel.
m.
h. | Dir.
-cot.
-con. | A Dry
B wet
C smog
D fog | A clr
B haz
C mist
D fog | Quant.
1 6 10
of
Kem. | KIND.
A B C D
W N S W
m n m m | | AM | PM | Sh.
fak.
en | Rain
fall | AM | PM | |
| ♂ 17 | 29.54 | | 65.4 | 61.1 | ? | ? | 15 | SW | wet | clr. | 8 | ☁ ☁ | | | ☾ | ☀ | 2 | ☁ | ☁ | |
| ♀ 18 | 29.42 | | 64.0 | 59.8 | 3 | 1 | 2 | WNE | wet | clr. | 10 | ☁ ☁ ☁ | | | ☾ | ☀ | 2 | ☁ | ☁ | |
| ♀ 19 | 29.60 | | 64.0 | 60.0 | 3 | 1 | 12 | W | dry | clr. | 7 | ☁ ☁ | | | ☾ | ☀ | 0 | | | |
| ♀ 20 | 29.77 | | 65.0 | 61.0 | 2 | 1 | 10 | W | dry | clr. | 6 | ☁ ☁ | | | ☾ | ☀ | 4 | | | |
| ♀ 21 | 29.75 | | 66.0 | 59.3 | 3 | 2 | 2 | WSW | dry | mt | 10 | ☁ | | | ☾ | ☀ | 0 | | ☁ | |
| ♂ 22 | 29.78 | | 66.5 | 63.0 | 3 | 1 | 2 | WSW | wet | clr | 8 & 10 | ☁ ☁ ☁ | | | ☾ | ☀ | 2 | | | |
| ♂ 23 | 29.83 | | 65.8 | 56.5 | 2 | 1 | 4 | N | wet | mt | 10 | ☁ | | | ☾ | ☀ | 0 | | | |
| ♂ 24 | | 30.04 | 65.0 | 59.8 | 2 | 1 | 7 | NE | dry | haz. | 10 | ☁ ☁ | | | ☾ | ☀ | 0 | | | |
| ♀ 25 | 29.92 | | 65.0 | 58.7 | 6!! | 2 | 1 | NNE | wet | mt | 10 | ☁ ☁ | | | ☾ | ☀ | 0 | | ☁ | |
| ♀ 26 | 29.86 | | 66.5 | 61.0 | 2 | 1 | 0 | SW | dry | haz | 7 & 9 | ☁ ☁ | | | ☾ | ☀ | 1 | | | |
| ♀ 27 | 29.92 | | 68.0 | 61.7 | 2 | 1 | 2 | SW | dry | mt | 2 & 6 | ☁ ☁ | | | ☾ | ☀ | 3 | | | |
| ♀ 28 | | 30.08 | 68.7 | 60.4 | 1 | 0 | 0 & 1 | NW & SW | dry | mt | 10-3 | ☁ ☁ ☁ | | | ☾ | ☀ | 2 | | | |
| ♂ 29 | | 30.07 | 69.0 | 61.0 | 1 | 0 | 2 | N | dry | mt | 10 & 3 | ☁ ☁ ☁ | | | ☾ | ☀ | 0 | | | |
| ♂ 30 | | 30.02 | 69.0 | 64.0 | 2 | 1 | 1 | N | dry | mt | 10 & 1 | ☁ ☁ ☁ | | | ☾ | ☀ | 0 | | | |
| ♂ 31 | 29.44 | | 68.0 | 58.4 | 1 | 0 | 0 | NW | dry | mt | 10 | ☁ | | | ☾ | ☀ | 0 | | | |
| ♀ Aug 1 | | | | | | | | | | | | | | | | | | | | |

1894, August 1st half. Readings of Instruments at 8.30 AM each day as a near Natural Mean of the 24 hours.

| Month
Day | BAROM | | THERMOM | | SPECT. | | WIND | | EARTH | | AIR | | CLOUDS | | Night |
|--------------|----------------|----------------|------------|-------------|---------------|----------------|------------------|------------------|--|-----------------------------|-------------------------|--|--------|-------|-------|
| | 29.99
30.00 | 30.01
30.02 | In
Fah. | Out
Fah. | Rain
Summ. | S. O.
Wint. | Vel.
m.
A. | Dir.
m.
A. | A: Dry
B: Wet
C: Snow
D: Ice. | A: dr.
B: fog
C: mist | Qual
1 to 10
Hem. | KIND
A: 1 2 3 4
B: 0 1 2 3 4
C: 1 2 3 4 5 | AM PM | AM PM | |
| Aug 1 | 29.73 | | 69.0 | 61.3 | 3 | 1 | 0 | SW | wet | met | 10 | ☉ ☁☁☁ | | 1 | |
| 2 | 29.54 | | 67.5 | 62.4 | 4 | 2 | 0.6 | SW | wet | clr. | 10 | ☉ ☁☁☁ | | 1 | |
| 3 | 29.32 | | 65.4 | 57.2 | 3 | 1 | 7.6 | W | wet | clr. | 10 | ☉ ☁☁☁ | | 2 | |
| 4 | 29.57 | | 65.0 | 60.7 | 3 | 1 | 8.6 | W | dry | clr. | 7 to 10 | ☉ ☁☁☁ | | 3 | |
| 5 | 29.73 | | 65.5 | 59.0 | 3 | 2 | 7 | SW | dry | clr. | 8 to 10 | ☉ ☁☁☁ | | 1 | |
| 6 | 29.65 | | 64.5 | 58.5 | 2 | 1 | 3 | SW | wet | met | 10 | ☉ ☁☁☁ | | 1 | |
| 7 | 29.74 | | 64.5 | 60.2 | 1 | 1 | 10 | W | dry | haz. | 7 to 10 | ☉ ☁☁☁ | | 1? | |
| 8 | 29.58 | | 65.0 | 61.0 | 2 | 1 | 8 | SW | dry | haz. | 10 to 6 | ☉ ☁☁☁ | | 1 | |
| 9 | 29.58 | | 65.3 | 62.? | 4 | 2 | 30 | W | dry | clr. | 8 to 10 | ☉ ☁☁☁ | | 2 | |
| 10 | 29.77 | | 65.5 | 60.8 | 2 | 1 | 10 | NE | dry | clr. | 7 to 10 | ☉ ☁☁☁ | | 0 | |
| 11 | 29.45 | | 63.3 | 58.2 | 4 | 2 | 5 | NW | dry | clr. | 4 to 10 | ☉ ☁☁☁ | | 2 | |
| 12 | 29.87 | | 64.5 | 59.3 | 3 | 2 | 10 to 20 | SW | dry | clr. | 10 to 10 | ☉ ☁☁☁ | | 0 | |
| 13 | 29.74 | | 63.0 | 58.0 | 3 | 2 | 21 to 10 | W | dry | clr. | 7-10 | ☉ ☁☁☁ | | 2 | |
| 14 | 29.52 | | 64.6 | 62.8 | 2 | 1 | 8 | SW | wet | met | 10 | ☉ ☁☁☁ | | 1 | |
| 15 | 29.23 | | 63.8 | 53.0 | 2 | 1 | 10 | SW | wet | clr. | 10 to 6 | ☉ ☁☁☁ | | 4 | |
| 16 | 29.62 | | 63.5 | 57.3 | 3 | 2 | 2 | NW | dry. | clr. | 9 to 7 | ☉ ☁☁☁ | | 2 | |

1894. August 2nd half. Readings of Instruments at 8.30 AM each day, as a near Natural mean for each 24 hours.

| Month & Days | BAROM ^R | | THERMOM ^R | | SPECTR. | | WIND. | | EARTH | | AIR | | CLOUDS | | CL ^d P ^h ak-
-en | | Night | |
|--------------|--------------------|-----------------|----------------------|-------------|---------------|-------------------------|--------------------------------|-----------------------|---------------------------------------|---|-------------------|--|--------|----|---|----|-------|--|
| | 29.99
9 < 11 | 30.00
9 > 11 | In
Fah. | Out
Fah. | Rain
band. | L ^o
band. | Vel.
m.
H ^o . | Dir.
-ect.
-ion | A: dry
B: wet
C: driz
D: fog | A: chr.
B: hag.
C: mist
D: fog | Quant.
1 to 10 | KIND
A: V L m π
B: A
C: m w @ : : | AM | PM | AM | PM | | |
| July 17 | 29.92 | | 63.2 | 55.6 | 4 | 3 | 26.15 | W | dry | chr | 10-8 | | | | | | | |
| 18 | 29.94 | | 62.5 | 59.7 | 4 | 2 | 1 | WNW | dry | chr | 6 to 10 | | | 2 | | | | |
| 19 | 29.88 | | 62.7 | 54.7 | 3 | 2 | 2 | W | wet | mst | 10 | | | 0 | | | | |
| 20 | 29.66 | | 61.8 | 55.3 | 3 | 2 | 25 | NW | dry | chr | 7 | | | 1 | | | | |
| 21 | 29.64? | | 62.0 | 54.0? | 2 | 2? | 1? | SW | dry | mst | 10 | | | 0 | | | | |
| 22 | 29.68 | | 61.5 | 57.0 | 3 | 2 | 1 | NW | dry | chr. | 5 | | | 5 | | | | |
| 23 | 29.85 | | 61.8 | 54.5 | 2 | 1 | 1 | N | dry | mst | 10 | | | 0 | | | | |
| 24 | 30.04 | | 61.2 | 54.4 | 3 | 1 | 1 | N | dry | mst | 10 | | | 0 | | | | |
| 25 | 30.17 | | 61.8 | 57.3 | 2 | 1 | 1 | NE | dry | mst | 8 | | | 1 | | | | |
| 26 | 29.45 | | 61.4 | 52.3 | 4 | 3 | 0 | N | wet | fog | 10 | | | 0 | | | | |
| 27 | 29.48 | | 61.2 | 57.0 | 2 | 2 | 0 | N | wet | mst | 10 | | | 0 | | | | |
| 28 | 30.14 | | 60.4 | 57.0 | 3 | 2 | 0 | SW | wet | chr. | 9 | | | 0 | | | | |
| 29 | 30.13 | | 61.4 | 56.3 | 3 | 1 | 0 | SW | dry | mst | 10 | | | 0 | | | | |
| 30 | 30.14 | | 62.5 | 57.2 | 2 | 1 | 0 | W | dry | haz. | 3 | | | 0 | | | | |
| 31 | 30.04 | | 63.6 | 57.6 | 1 | 0 | 0 | SW | dry | mst | 10 | | | 0 | | | | |

to Sept 1

1894, September, 2nd half

Readings of Instr.^s at 8.25 AM. each day
as a near Natural Mean for the 24 hours.

| Date | BAROMETER
Inches | THERM. ^s | | SPECTR. | | WIND | | Almos.
Electri-
-city. | EARTH
A: dry
B: wet
C: snow
D: frost. | AIR
A: cl.
B: haz
C: mist
D: fog. | QU.
1 to 10
of
Hem. | CLOUDS
KIND. | | | Sunshine | | Cloud
Photos
taken | Rain fall | | Night |
|------|---------------------|---------------------|------|--------------|-------------|--------------------------|-----------------|------------------------------|---|---|------------------------------|---|----|-----|----------|----|--------------------------|-----------|--|-------|
| | | In | Out | Rain
band | Low
band | Vel.
m.
hr.
li. | Direct
-ion. | | | | | A: 1/8 in. III
B: 1/4 in. II
C: 3/8 in. I | AM | PM. | AM | PM | | | | |
| 9/16 | 30.35 | 60.6 | 52.3 | 2 | 1 | 0 | NW | | Dry | haz | 0 to 10 | ☉ ☁ ☂ | ☉ | | 0 | | | | | |
| 9/17 | 30.32 | 60.0 | 49.5 | 1 | 0 | 0 | NW | | Dry | met | 10 | ☉ | | 0 | | | | | | |
| 9/18 | 30.23 | 59.7 | 54.2 | 2 | 2 | 0 | N | | Damp | met | 10 | ☉ | | 0 | ☂ | | ☂ | | | |
| 9/19 | 30.09 | 59.2 | 52.6 | 1 | 0 | 0 | N | | wet | met | 10 | ☉ ☁ | | 0 | ☂ | ☂ | ☂ | | | |
| 9/20 | 30.10 | 59.0 | 51.0 | 3 | 2 | 0 | NNE | | wet | met | 10 | ☉ ☁ | | 0 | ☂ | ☂ | ☂ | | | |
| 9/21 | 29.97 | 58.5 | 53.2 | 2 | 1 | 0 | NNE | | dry | met | 10 | ☉ | | 2 | | | | | | |
| 9/22 | 29.86 | 58.3 | 55.3 | 2 | 1 | 0 | N | | dry | met | 7 to 10 | ☉ ☁ | | 0 | | | | | | |
| 9/23 | 29.78 | 58.8 | 53.4 | 3 | 2 | 0 | NNE | | dry | haz. | 9 to 10 | ☉ ☁ | | 0 | | | | | | |
| 9/24 | 29.82 | 58.5 | 52.8 | 2 | 1 | 0 | N | | dry | met | 10 to 8 | ☉ ☂ | | 0 | | | ☂ | | | |
| 9/25 | 29.78 | 58.3 | 49.3 | 2 | 1 | 0 | N | | wet | met | 9 to 5 | ☉ ☁ ☂ | | 2 | | | | | | |
| 9/26 | 29.78 | 57.6 | 52.2 | 1 | 1 | 5 | N | | dry | chr. | 4 to 9 | ☉ ☁ ☂ | | 0 | | | | | | |
| 9/27 | 30.08 | 56.0 | 48.5 | 3 | 2 | 3 | NW | | dry | chr. | 0 to 7 | ☉ ☁ | | 6 | | | | | | |
| 9/28 | 30.24 | 55.0 | 47.2 | 3 | 2 | 4 | N | | dry | chr. | 3 to 9 | ☉ ☂ = | | 2 | | | | | | |
| 9/29 | 30.28 | 54.6 | 48.4 | 1 | 1 | 5 | NW | | dry | chr. | 10 to 3 | ☉ ☁ ☂ | | 3 | | | | | | |
| 9/30 | 30.44 | 55.3 | 48.8 | 1 | 1 | 3 | NW | | wet | haz | 9 | ☉ | | | | | | | | |

1894, October 1st half. Readings of Instru^s at 8.25 AM each day
 as a near Natural Newn of the 24 hours

| Date | BAROM. | | THERMS. | | SPECTR. | | WIND. | | Atmos. Elect. Integ. | EARTH | | | AIR. | | | CLOUDS | | | Sunshine | | Cloud Photos | | Rainfall | | NIGHT |
|------|--------|--------|---------|-----|--------------|--------------------------|------------------------|----------------|----------------------|--------------------------------------|---------------------------------------|-----------------------|----------------------|-------------|------|--------|-------|----|----------|--|--------------|--|----------|--|-------|
| | Inches | Inches | In | Out | Rain
Feet | low
&
cold
band | Vel.
m.
h.
h. | Direct
-ion | | A: dry
B: wet
C: spr
D: fog | A: dr.
B: haz
C: mist
D: fog | Qu.
1/5 10
Rem. | A: V
B: Δ
C: = | W
M
C | AM. | PM. | Taken | AM | PM. | | | | | | |
| 1 | 30.45 | 55.4 | 48.4 | 2 | 1 | 0 | V. SW | | | Dry | met | 8 | Hazy Δ, ☽ | | 9:00 | 0 | | | | | | | | | |
| 2 | 30.43 | 55.0 | 40.0 | 0 | 0 | 0 | W | | | wet | fog | 10 | W | | 9:00 | 0 | | | | | | | | | |
| 3 | 30.28 | 53.7 | 44.5 | 2 | 1 | 0 | W | | | Dry | haz | 9 to 2 | ☽ | | 10 | 0 | | | | | | | | | |
| 4 | 30.15 | 53.5 | 48.8 | 2 | 1 | 7 | N | | | wet | met | 10 | ☽ | | 10 | 0 | | | | | | | | | |
| 5 | 30.07 | 53.0 | 51.2 | 1 | 1 | 0 | N | | | wet | haz. | 10 | ☽ M | | 10 | 3 | | | | | | | | | |
| 6 | 29.48 | 55.4 | 50.3 | 3 | 2 | 2 | N | | | wet | chr. | 9 to 10 | ☽ | | 1 | | | | | | | | | | |
| 7 | 29.95 | 56.0 | 52.2 | 3 | 2 | 0 | NNW | | | wet | met | 10 | ☽ | | 0 | | | | | | | | | | |
| 8 | 30.01 | 56.8 | 53.0 | 2 | 1 | 0 | N | | | wet | met | 10 | ☽ | | 0 | | | | | | | | | | |
| 9 | 30.04 | 56.5 | 47.8 | 1 | 1 | 0 | ? | | | wet | fog | 10 | ☽ ☽ | | 0 | | | | | | | | | | |
| 10 | 29.94 | 56.8 | 51.4 | 2 | 1 | 0 | ? | | | wet | fog | 10 | ☽ ☽ | | 0 | | | | | | | | | | |
| 11 | 30.14 | 57.7 | 51.6 | 0 | 0 | 0 | ? | | | wet | fog | 10 to 1 | ☽ haze | | 0 | | | | | | | | | | |
| 12 | 30.23 | 58.4 | 51.2 | 1 | 1 | 0 | ? | | | Dry | mist | 10 | ☽ | | 0 | | | | | | | | | | |
| 13 | 30.07 | 58.6 | 56.4 | 3 | 2 | 0 | ? | | | wet | haz | 9 to 7 | ☽ ☽ ☽ | | 3 | | | | | | | | | | |
| 14 | 30.01 | 56.0 | 44.5 | 2 | 3 | 10 to 30 | NW | | | wet | chr | 5-8 | ☽ ☽ ☽ | | 2 | | | | | | | | | | |
| 15 | 30.06 | 52.0 | 43.4 | 1 | 2 | 10 to 20 | NW | | | wet | haz | 7 to 10 | ☽ ☽ ☽ | | 2 | | | | | | | | | | |

1894, October 2nd half. Readings of Instr. at 8.25 AM each day; as a near Natural mean of the 24 hours.

| Month's
Week's
Days. | BAROM. | | THERMS | | SPECTS | | WIND | | Atmos | EARTH
A: Dry
B: wet
C: spur
D: ft. | AIR
A: dr.
B: haz
C: mist
D: fog. | QU.
1/10
of
Hum. | CLOUDS
KIND
A: v B: m C: w
B: O C: Δ D: M
C: = W @ \ | Sun. shine
AM PM | Cloud
Photos
Inches | Rain fall
A M P M | Nigh |
|----------------------------|--------|------|--------|------|--------|---------|------|--------|-------|--|---|---------------------------|--|---------------------|---------------------------|----------------------|------|
| | Inches | In | Out | Heat | Low | Wet | Dir. | Elect. | | | | | | | | | |
| ♂ 16 | 30.08 | 57.3 | 44.6 | 3 | 3 | 7 | NE | | | wet | chr | 9 to 10 | ☁ ☁ ☁ | | 1 | | |
| ♀ 17 | 30.02 | 52.3 | 44.2 | 1 | 1 | 2 | N | | | dry | haz | 10 | ☁ ☁ ☁ | | 0 | | |
| ♀ 18 | 29.73 | 57.2 | 43.6 | 2 | 2 | 1 | N | | | dry | haz | 8 to 10 | ☁ ☁ ☁ | | 0 | | |
| ♀ 19 | 29.64 | 49.0 | 38.0 | 1 | 1 | 0 | N | | | dry | haz | 10 | ☁ ☁ | | 0 | | |
| ♂ 20 | 29.50 | 48.5 | 44.3 | 1 | 1 | 5 to 10 | NE | | | wet | mist | 10 to 7 | ☁ ☁ / ☁ | | 0 | | |
| ♂ 21 | 29.37 | 49.0 | 42.8 | 3 | 2 | 7 | N | | | wet | chr | 10 | ☁ ☁ | | 0 | | |
| ♂ 22 | 29.76 | 47.0 | 30.2 | 0 | 2 | 0 | N | | | fzt | haz | 0 | 0 | ○○○○ | 0 | | |
| ♂ 23 | 29.93 | 47.0 | 24.5 | 1 | 3 | 0 | W | | | fzt | haz | 2 to 9 | huge \ ☁ ☁ | ○○ | 0 | | |
| ♀ 24 | 29.24 | 50.6 | 52.0 | 3 | 2 | 4 | S | | | wet | mot | 10 | ☁ ☁ ☁ | | 0 | | |
| ♀ 25 | 28.72 | 53.5 | 49.0 | 3 | 2 | 30 | SW | | | wet | mot | 9 | ☁ ☁ ☁ | | 6 | | |
| ♀ 26 | 29.47 | 55.6 | 43.0 | 3 | 3 | 1 | N | | | wet | haz | 10 | ☁ ☁ ☁ | | 0 | | |
| ♀ 27 | 29.12 | 55.5 | 43.6 | 3 | 2 | 1 | N | | | wet | haz | 10 | ☁ ☁ ☁ | | 0 | | |
| ♂ 28 | 29.52 | 54.5 | 42.2 | 2 | 2 | 0 | N | | | dry | chr | 10 | ☁ | | 0 | | |
| ♂ 29 | 29.33 | 55.4 | 45.5 | 1 | 2 | 0 | SW | Strong | | wet | mot | 9 | ☁ ☁ ☁ Δ | | 1 | | |
| ♂ 30 | 29.48 | 55.6 | 49.0 | 3 | 4 | 20 | W | Strong | | wet | chr. | 7 | Δ ☁ | ○○○○ | 8 | | |
| ♀ 31 | 29.89 | 55.3 | 36.4 | 2 | 2 | 0 | SW | | | wet | fog | 10 | ☁ ☁ ☁ | | | | |

1894, November 2nd half. Readings of Instruments, at 8.25 AM. each day; as a near Natural Mean for the 24 hours.

| Month's Weeks Days. | BAROM | | THERMS | | SPECTR. | | WIND. | | At. mo. Elec- tricity. | EARTH A: Dry B: wet C: Snow D: sft | AIR A: clr B: has C: mist D: fog | CLOUDS Quid 1 to 10 % m. | KIND A: ☁ B: ☁☁ C: ☁☁☁ | Sunshine AM PM | Clouds taken. | Rain fall | | Night |
|---------------------|--------|------|--------|-----|----------------|---------------|-------------------|----------------|------------------------|------------------------------------|----------------------------------|--------------------------|------------------------|----------------|---------------|-----------|----|-----------------------------|
| | Inches | In. | In. | Out | Rain Heat band | Low Cold band | Vel. m. h. | Dir- ect- ion. | | | | | | | | AM | PM | |
| ♀ 16 | 29.58 | 52.6 | 38.0 | 2 | 4 | 0 | S | | wet | haz | 0 | | | | | | | |
| ♂ 17 | 29.87 | 53.0 | 37.8 | 1 | 2 | 0 | S | | wet | fog | 10 | ☉ | | | 0 | | | ☒ |
| ♂ 18 | 29.97 | 54.3 | 41.6 | 2 | 3 | 1 | SSW | | wet | mst | 10 | ☉ IIII | | | 0 | ☒ | ☒ | ☒ |
| ♂ 19 | 30.05 | 54.5 | 40.2 | ? | ? | 0 | S | | wet | fog | 10 | ☉ ☁ | | | 0 | | | |
| ♂ 20 | 29.87 | 57.0 | 51.0 | 2 | 2 | 3 | S | | wet | mst | 10 | ☉ | | | 1 | ☒ | ☒ | |
| ♀ 21 | 30.23 | 55.6 | 42.0 | 1 | 4 | 3 | S | | Dry | clr | 9 | ☉ ☁ | | | 0 | | | |
| ♀ 22 | 30.12 | 56.4 | 43.0 | 1 | 2 | 3 | SSW | | Dry | haz | 9 | ☉ ☁ | | | 0 | | | |
| ♀ 23 | 30.17 | 57.3 | 42.0 | 0 | 1 | 0 | NE | | wet | fog | 10. | ☁ | | | 0 | | | ☒ |
| ♂ 24 | 30.33 | 57.2 | 45.2 | 0 | 2 | 6 | NE | | wet | mst | 10 | ☉ | | | 0 | | | |
| ♂ 25 | 30.33 | 58.8 | 45.2 | 1 | 3 | 1 | NE ₃ E | | Dry | haz | 9 | ☁ m | | | 0 | | | |
| ♂ 26 | 30.33 | 57.5 | 41.9 | 0 | 2 | 0 | NE ₃ E | | Dry | mst | 10 | ☉ | | | 0 | | | |
| ♂ 27 | 30.34 | 56.8 | 41.6 | 0 | 2 | 0 | NE | | Dry | mst | 10 | ☉ | | | 0 | | | |
| ♀ 28 | 30.25 | 55.9 | 34.7 | 1 | 3 | 1 | W | | wet | haz | 8 | ☁ m | | | | | | |
| ♀ 29 | 30.08 | 57.2 | 45.5 | 3 | 6 | 0 | SW | | Dry | haz | 2 to 4 | ☁ m | | | | | | Stop Night Photo for season |
| ♀ 30 | 30.40 | 55.5 | 39.8 | 3 | 6 | 3 | N | | Dry | clr | 1 to 0 | ☁ | | | | | | |

1844. December 1st half Readings of Instruments at 8.25 AM each day,
 as a near Natural mean of the 24 hours.

| Month
Day | BAROM | | THERMS. | | SPECTR. | | WIND | | Atmos.
Electr.
icity. | EARTH | | | | AIR | | | | CLOUDS | | | | Sunshine | | Cloud
taken
in
Season | | Rain fall | | Night |
|--------------|--------|--------------|---------------|----------------------|--------------------------|------------------|-----------------|-------|-----------------------------|--------|----------------------------|--|-------|-------|-------|-------|----|--------|----|----|----|----------|----|--------------------------------|--|-----------|--|-------|
| | Inches | In
°
F | Out
°
F | Rain
heat
band | Low
Sun
code
Lr | Vel.
m.
h. | Direct.
-con | A dry | | A cbr. | Qu.
1% 10
of
Hum. | KIND
A: ~ m ~
B: Δ Δ Δ Δ
C: ~ ~ ~ ~
D: ~ ~ ~ ~ | A dry | B wet | C mst | D fog | AM | PM | AM | PM | AM | PM | AM | PM | | | | |
| 1 | 30.38 | 56.0 | 28.8 | 2 | 5 | 1 | WNW | | | frt | haz | 1 | | | | | | | | | | | | | | | | |
| 2 | 30.31 | 55.2 | 30.0 | 0 | 3 | 0 | SW | | | frt | fog | 10 | | | | | | | | | | | | | | | | |
| 3 | 30.07 | 52.5 | 37.5 | 0 | 4 | 0 | SSW | | | dry | mst | 10 | | | | | | | | | | | | | | | | |
| 4 | 29.70 | 53.5 | 40.0 | 1 | 4 | 1 | N | | | dry | haz | 7 | | | | | | | | | | | | | | | | |
| 5 | 29.78 | 52.6 | 34.3 | 1 | 3 | 0 | NW | | | wet | mst | 10 | | | | | | | | | | | | | | | | |
| 6 | 29.83 | 53.0 | 33.7 | 0 | 4 | 0 | W | | | dry | mst | 8 | | | | | | | | | | | | | | | | |
| 7 | 29.68 | 53.2 | 34.0 | ? | ? | 0 | SW | | | dry | fog | 10 | | | | | | | | | | | | | | | | |
| 8 | 29.73 | 53.7 | 41.3 | 2 | 4 | 2 | W | | | wet | cbr | 7 | | | | | | | | | | | | | | | | |
| 9 | 29.97 | 53.0 | 33.2 | 1 | 3 | 1 | N | | | frt | mst | 10 | | | | | | | | | | | | | | | | |
| 10 | 29.79 | 52.8 | 44.0 | ? | ? | 2 | W | | | dry | fog | 10 | | | | | | | | | | | | | | | | |
| 11 | 29.92 | 53.4 | 45.5 | 1 | 3 | 1 | SW | | | dry | fog | 10 | | | | | | | | | | | | | | | | |
| 12 | 29.82 | 56.5 | 48.2 | 1 | 3 | 2 | SSW | | | dry | cbr | 5 | | | | | | | | | | | | | | | | |
| 13 | 29.78 | 55.0 | 47.7 | 0 | 3 | 20 | SW | | | dry | cbr | 7 | | | | | | | | | | | | | | | | |
| 14 | 29.94 | 58.0 | 48.5 | 1 | 2 | 1 | SW | | | dry | haz | 9 | | | | | | | | | | | | | | | | |
| 15 | 29.65 | 58.0 | 39.8 | 1 | 5 | 20 | W | | | wet | cbr | 2 | | | | | | | | | | | | | | | | |

1895 January 2nd half. Readings of Instr. at 8.25 A.M. each day, as a near Natural Mean for the 24 hours.

| Months by Weeks
Days | BAROM.
Inches | THERMOM ^S | | SPECTR ^M | | WIND. | | Atm.
Electr. | EARTH
dry
wet
SNW.
FRT. | AIR
clr.
haz.
mist
fog | CLOUDS.
Qty
1 to 10
of
Hem. | KIND
☉ ☁ ☂ ☃ ☄ ★ ☆ ☇ ☈ ☉ | Sun. Shine
AM P.M. | Cloud
Photos
Taken | Rain fall | | Night |
|-------------------------|------------------|----------------------|---------------|----------------------|---------------------|------------------------|------------------|-----------------|-------------------------------------|------------------------------------|---|-----------------------------|-----------------------|--------------------------|-----------|------|-------|
| | | In
°
F | Out
°
F | Rain
height
6" | Snow
depth
6" | Vel.
m.
A.
h. | Directi-
-on. | | | | | | | | AM | P.M. | |
| 2 17 | 28.84 | 56.0 | 35.5 | 0 | 3 | 1 | N | | snw | mt | 10 | ☉ ☁ | | | | | |
| 3 18 | 29.42 | 55.5 | 34.0 | 0 | 5 | 2 | W | | snw | clr | 3 | ☁ | | | | | |
| 4 19 | 29.67 | 55.0 | 34.0 | ? | ? | 1 | NE | | snw | fog | 10 | ☉ ☁ | | | | | |
| 5 20 | 29.48 | 55.2 | 37.0 | ? | ? | 3 | NE | | snw | mt | 10 | ☉ ☁ | | | | | |
| 6 21 | 29.68 | 53.3 | 35.4 | 1 | 4 | 1 | NNE | | snw | haz | 8 | ☉ ☁ | | | | | |
| 7 22 | 29.63 | 53.5 | 37.4 | 0 | 4 | 7 | N | | snw | clr | 10 | ☁ ☂ | | | | | |
| 8 23 | 29.44 | 51.0 | 33.5 | 0 | 5 | 7 | N | | snw | clr | 15 4 | ☁ ☂ ☉ | | | | | |
| 9 24 | 28.98 | 51.3 | 38.0 | 1 | 3 | 10 | NW | | snw | clr | 8 | ☁ ☂ ☉ | | | | | |
| 10 25 | 29.35 | 51.4 | 33.0 | 1 | 5 | 6 | N | | snw | clr. | 6 | ☁ haze | | | | | |
| 11 26 | 29.60 | 51.5 | 26.0 | 0 | 5 | 0 | N | | snw | haz | 1-2 | ☁ haze | | | | | |
| 12 27 | 29.53 | 50.5 | 28.5 | 0 | 4 | 0 | SW | | snw | haz | 5 | ☁ haze ☉ | | | | | |
| 13 28 | 29.91 | 48.0 | 22.4 | 1 | 3 | 0 | N | | snw | clr. | 3 | ☁ ☉ | | | | | |
| 14 29 | 30.05 | 48.3 | 23.4 | 1 | 2 | 0 | SlyE | | snw | fog | 10 | ☁ | | | | | |
| 15 30 | 30.50 | 48.0 | 23.0 | 1 | 4 | 0 | NE | | snw | clr | 4 | ☁ | | | | | |
| 16 31 | 30.30 | 48.8 | 22.8 | 1 | 2 | 1 | NE | | snw | haz | 9 | ☉ | | | | | |




























1895. February 2nd half, Readings of Instruments at 8.25 AM each day as a near Natural Mean of the 24 hours.

| Month
of
week's
Days. | BAROM.
Inches. | THERMS | | SPECTR. | | WIND | | Alm.
Elect. | EARTH
Dry
Wet
Fog. | AIR
Cbr.
haz.
mot.
fog. | Cu.
16
10
9
Hem. | CLOUDS
KIND. | | | Sun show | | Cloud
Odds | Rain fall | | Night |
|--------------------------------|-------------------|--------------|---------------|------------------------------|-----------------------|-------------------|-----------------|----------------|-----------------------------|-------------------------------------|------------------------------|-----------------|----|----|----------|--|---------------|-----------|--|-------|
| | | In
°
F | Out
°
F | Rain
by
heat
7
6 | Low
by
Col
6 | Vel.
m.
low | Direct
from. | | | | | AM | PM | AM | PM | | | | | |
| 16 | 30.46 | 49.5 | 26.7 | 0 | 3 | 0 | N | | Snw | haz | 0 | Blue sky | ☉ | ☉ | | | | | | |
| 17 | 30.43 | 52.5 | 35.2 | 1 | 2 | 0 | N | | Snw | haz | 7 | ☁ | ☉ | ☉ | | | | | | |
| 18 | 30.28 | 52.0 | 35.3 | 1 | 3 | 0 | N | | Snw | haz | 10 | ☉ | ☉ | ☉ | | | | | | |
| 19 | 30.22 | 52.8 | 34.5 | 1 | 2 | 0 | N | | Snw | haz. | 9 to 10 | ☉ | ☉ | ☉ | | | | | | |
| 20 | 30.27 | 54.6 | 15.0 | 1 | 1 | 0 | N | | Snw | haz | 0 | Blue sky | ☉ | ☉ | | | | | | |
| 21 | 30.28 | 58.2 | 38.0 | 2 | 4 | 3 | W | | Snw | haz. | 9 | ☁ | ☉ | ☉ | | | | | | |
| 22 | 30.26 | 59.0 | 37.7 | 1 | 2 | 2 | N | | Snw | cbr. | 9 | ☁ | ☉ | ☉ | | | | | | |
| 23 | 30.18 | 59.4 | 38.4 | 1 | 1 | 1 | N | | Snw | mot | 10 | ☉ | ☉ | ☉ | | | | | | |
| 24 | 29.65 | 59.8 | 39.0 | 2 | 3 | 5 | W | | Snw | cbr | 10 | ☉ | ☉ | ☉ | | | | | | |
| 25 | 29.90 | 56.8 | 34.8 | 1 | 2 | 1 | N | | Sn | Fit haz. | 7 | ☁ | ☉ | ☉ | | | | | | |
| 26 | 29.72 | 54.3 | 35.0 | 2 | 3 | 7 | W | | Snw | cbr | 8 | ☁ | ☉ | ☉ | 0 | | | | | |
| 27 | 29.70 | 52.6 | 35.0 | 1 | 3 | 4 | NW | | Snw | cbr | 9 | ☁ | ☉ | ☉ | 1 | | | | | |
| 28 | 29.82 | 55.6 | 35.6 | 2 | 4 | 0 | NW | | Snw | haz. | 8 | ☁ | ☉ | ☉ | 0 | | | | | |

1895 April 1st half Readings of Instruments at 8.25 AM each day
 as a near Natural mean of the 24 hours

| Month & Days | BAROM. Inches | THERMS | | SPECTR. M. | | WIND. | | Altimeter | EARTH | AIR | CLOUDS | | Sunshine | Cloud Photos | Rain fall | NIGHT |
|--------------|---------------|--------|------|------------|----------|---------------|------------------|-----------|-------|------|-------------------|---------------------|----------|--------------|-----------|-------|
| | | In | Out | Rain band | Low band | Vel. m. p. h. | Direct ion from. | | | | dry wet snow fog. | clr. Fog. mist fog. | | | | |
| 1 | 29.58 | 54.5 | 40.2 | ? | ? | 1 | NE | | | | | | | | | |
| 2 | 29.94 | 55.5 | 40.4 | ? | ? | 1 | NE | | Dry | mt | 10 | ☉ ☁ | | | | |
| 3 | 29.82 | 57.0 | 38.6 | 1 | 1 | 0 | NE | | Dry | haz. | 9 | ☉ ☁ | | | | |
| 4 | 30.02 | 55.0 | 35.0 | 1 | 3 | 3 | NE | | dry | haz. | 4 | ☉ ☁ haze | | | | |
| 5 | 30.05 | 55.3 | 39.5 | 2 | 3 | 1 | W | | Dry | clr | 2 | ☉ ☁ | | | | |
| 6 | 29.12 | 56.4 | 43.7 | 3 | 2 | 10 | WSW | | Wet | clr | 10 | ☉ ☁ | | | | |
| 7 | 29.32 | 56.6 | 38.4 | 2 | 2 | 3 | NE | | Wet | clr | 5 | ☉ ☁ | | 1 | | |
| 8 | 29.64 | 57.0 | 40.2 | 2 | 3 | 2 | W | | Dry | clr | 6 | ☉ ☁ haze | | | | |
| 9 | 29.64 | 54.3 | 57.2 | ? | ? | 2 | W | | Dry | clr | 8 | ☉ ☁ | | | | |
| 10 | 29.68 | 62.2 | 54.3 | 2 | 2 | 14 | WSW | | Dry | haz. | 8 6 3 | ☉ ☁ ☁ | | 2 | | |
| 11 | 30.12 | 63.0 | 48.2 | 2 | 1 | 1 | WSW | | Dry | clr | 9 | ☉ ☁ ☁ | | 1 | | |
| 12 | 30.30 | 61.2 | 42.0 | 3 | 2 | 1 | NE | | Dry | clr | 4 | ☉ ☁ charge | | | | |
| 13 | 30.21 | 59.5 | 44.5 | 2 | 1 | 2 | N | | Dry | clr | 0/10 | ☉ ☁ | | | | |
| 14 | 30.32 | 59.6 | 43.0 | 3 | 2 | 0 | ENE | | Dry | clr | 7 | ☉ ☁ | | | | |
| 15 | 30.17 | 57.2 | 40.7 | 1 | 1 | 10 | NE | | Dry | haz | 8 | ☉ ☁ | | | | |

1895. May 1st half Readings of Instruments at 8.25 AM each day as a near Natural mean for the 24 hours

| Month & Days | BAROM. Inches | Therms | | SPECTRUM | | WIND | | Atmos. Electr. -ivity | EARTH Dry Wet Snow Frost | AIR cbr. Foggy mist fog | CLOUDS. 2. 5 10 of Hem. | KIND  | Sunshine AM PM | Cloud Photos taken | Rain-fall AM PM | NIGHT |
|--------------|---------------|--------|--------|----------------|---------------|------------------|------------------------|-----------------------|--------------------------|-------------------------|-------------------------|---|---|--------------------|---|-------|
| | | In °F | Out °F | Rain heat band | Low cold band | Vel. m. per hour | Direct. - com. approx. | | | | | | | | | |
| May 1 ♀ | 29.98 | 63.5 | 47.7 | 3.5 | 2.5 | 0 | W | | Wet | mst | 10 |  |  | | | |
| 2 | 30.50 | 62.0 | 49.6 | 2 | 3 | 2 | N | | Dry | cbr | 3 |  |  | 2 |  | |
| 3 ♀ | 30.52 | 61.5 | 52.3 | 2 | 1 | 3 | NE | | Dry | hazy | 2 |  |  | | | |
| 4 ♀ | 30.52 | 62.5 | 49.2 | 2 | 1 | 3 | SSW | | Dry | hazy | 4 |  |  | | | |
| 5 ♂ | 30.43 | 62.6 | 52.2 | 2 | 3 | 1 | NE | | Dry | cbr | 2 |  |  | | | |
| 6 ♂ | 30.42 | 62.0 | 49.4 | 1 | 1 | 5 | NE | | Dry | mst | 7 | hazy fog |  | | | |
| 7 ♂ | 30.37 | 63.4 | 53.4 | ? | ? | 1 | NE | | Dry | hazy | 0 | very thin haze |  | | | |
| 8 ♀ | 30.10 | 63.7 | 53.3 | 2 | 1 | 1 | NNE | | Dry | hazy | 3 | cirrus haze |  | | | |
| 9 ♀ | 29.98 | 65.4 | 54.5 | 1 | 0 | 0 | NE | | Dry | hazy | 1 | hazy |  | | | |
| 10 ♀ | 29.98 | 66.5 | 55.0 | 2 | 1 | 0 | NE | | Wet | cbr. | 1 |  |  | | | |
| 11 ♀ | 30.13 | 65.6 | 57.2 | 3 | 2 | 0 | W | | Dry | cbr | 1 |  |  | | | |
| 12 ♂ | 30.13 | 66.0 | 58.5 | 2 | 1 | 0 | NE | | Dry | hazy | 9 | thick haze |  | | | |
| 13 ♂ | 30.19 | 66.8 | 62.7 | 2 | 1 | 1 | W | | Dry | cbr. | 8 |  |  | | | |
| 14 ♂ | 30.22 | 67.0 | 62.4 | 4 | 2 | | W | | Dry | hazy | 3 | hazy |  | | | |
| 15 ♀ | 29.92 | 64.8 | 56.4 | 4 | 3 | 10 | NW | | Dry | cbr | 6 | white haze |  | | | |
| 16 ♀ | 29.80 | 59.0 | 43.5 | 1 | 2 | 30 | NE | | Dry | cbr. | = 5 |  |  | | | |

Out Th. = 40 at 9 PM's snow coming =

1895. May 2nd half Readings of instruments at 8.25 AM each day as a near Natural Mean for the 24 hours

| Month
of
week
days | BAROM
Inches | Therm. S. | | SPECTR | | WIND | | Atmos.
Moist.
Electr.
dry | Earth | | AIR | CLOUDS
24?
1/5 10
of
Kam | KIND | | | Cloud
Oration
to Mem | | Rain full | | Night |
|-----------------------------|-----------------|-----------|------|--------------|-------------|---------------------------|-----------------------------|------------------------------------|---------------------------|---------------------------|-----|--------------------------------------|------|---|---|----------------------------|----|-----------|----|-------|
| | | In | Out | Rain
band | Sun
band | Vel.
m.
per
hour | Direct
-
com.
Mem. | | Dry
Wet
Fog
Fog. | dry
Wet
Fog
Fog. | | | △ | □ | ○ | AM | PM | AM | PM | |
| May
♀ 17 | 29.62 | 53.0 | 42.2 | 3 | 2 | 20 | N | | Dry | chr. | 10 | ☁ ☁ ☁ | | | | | | | | |
| ♂ 18 | 29.63 | 56.4 | 46.4 | 2 | 1 | 12 | NE | | Wet | mt | 10 | ☉ | | | | | | | | |
| ○ 19 | 29.62 | 55.8 | 47.2 | 2 | 2 | 10 | NE | | Dry | chr. | 9 | ☁ | | | | | | | | |
| ⊖ 20 | 29.68 | 56.4 | 45.2 | 3 | 3 | 7 | NE | | Dry | chr. | 10 | ☁ ☁ ☁ | | | | | | | | |
| ♂ 21 | 29.62 | 57.6 | 50.2 | 1 | 1 | 5 | NE | | Wet | mt | 10 | ☉ ☁ | | | | | | | | |
| ♀ 22 | 29.78 | 58.3 | 49.6 | 1 | 0 | 3 | NE | | Dry | mt | 10 | ☉ | | | | | | | | |
| ♀ 23 | 29.84 | 59.0 | 53.5 | 3 | 1 | 0 | NE | | Dry | haz | 1 | △ △ | ☉ | | | | | | | |
| ♀ 24 | 29.85 | 61.6 | 52.5 | 1 | 0 | 0 | NE | | Dry | fog | 7 | ☉ | | | | | | | | |
| ♂ 25 | 29.94 | 61.3 | 47.8 | 1 | 1 | 0 | SW | | Dry | fog | 10 | ☉ | | | | | | | | |
| ○ 26 | 30.09 | 60.8 | 57.4 | 1 | 0 | 0 | SW | | Dry | fog | 8 | △ | | | | | | | | |
| ⊖ 27 | 30.28 | 62.5 | 53.4 | 3 | 2 | 0 | W | | Dry | haz | 0 | ☁ g haze | ☉ | | | | | | | |
| ♂ 28 | 30.23 | 65.5 | 57.7 | 2 | 1 | 0 | S | | Dry | haz | 3 | \\ g haze | ☉ | | | | | | | |
| ♀ 29 | 30.08 | 64.5 | 54.5 | 1 | 0 | 0 | SW | | Dry | haz | 2 | haze only | ☉ | | | | | | | |
| ♀ 30 | 29.87 | 66.4 | 62.4 | 2 | 1 | 0 | S | | Dry | haz | 1 | haze only | ☉ | | | | | | | |
| ♀ 31 | 29.67 | 69.6 | 63.4 | 2 | 1 | 0 | SW | | Dry | mt | 7 | ☁ | ☉ | | | | | | | |

1895. June 1st half. Readings of Instruments at 8.25 AM each day, as a near Natural Mean for the 24 hours.

| Months & Weeks Days | BAROM Inches. | Therm. S | | SPECT. M. | | WIND | | Altim. Electri- city | EARTH Dry. Wet. Frost. | AIR Dry. haz. mt. | CLOUD S
2nd 10 of Hem. | CLOUD Kind. | Sun shine | | Cloud Photos Taken | Rain-fall | | Night |
|---------------------|---------------|----------|----------|----------------|---------------|-----------------|-------------------|----------------------|------------------------|-------------------|---------------------------|----------------|-----------|----|--------------------|-----------|----|-------|
| | | In ° F. | Out ° F. | RAIN HEAT band | Low cold band | Vel. m. p. hour | Direct- ion from. | | | | | | AM | PM | | AM | PM | |
| June 1/2 1 | 29.75 | 68.3 | 61.0 | 2 1/2 | 1 | 1 | S | Therm 72.9 | Dry | clr | 4 | | AM | PM | | | | |
| 0 2
Whit 0 | 29.82 | 67.3 | 54.5 | 3 | 2 | 0 | NE | | Wet | mt | 10 | qmt | | | | | | |
| 0 3 | 30.08 | 65.2 | 53.3 | 2 | 1 | 5 | NE | | Dry | mt | 10 | ⊙ | | | | | | |
| ♂ 4 | 30.15 | 64.2 | 56.7 | 2 | 1 | 1 | NE | | Damp | haz | 9 | ⊙ | | | | | | |
| ♀ 5 | 30.33 | 66.0 | 57.2 | 1 | 0 | 7 | NE | | Damp | mt | 10 | ⊙ | | | | | | |
| 4 6 | 30.36 | 63.5 | 50.5 | ? | ? | 7 | NE | | Dry | mt | 10 | ⊙ clear | | | | | | |
| ♀ 7 | 30.30 | 63.5 | 57.2 | 3 | 2 | 3 | N | | Dry | haz | 0 | clear blue sky | | | | | | |
| 1/2 8 | 30.13 | 66.5 | 64.4 | 3 | 1 | 0 | S | | Dry | haz. | 4 | | | | | | | |
| 0 9 | 29.97 | 69.0 | 65.0 | 3 | 2 | 0 | N | | Dry | clr | 8 | m | | | | | | |
| 0 10 | 29.89 | 69.3 | 62.0 | 3 | 1 | 10 | N | | Dry | clr | 9 | m ⊙ | | | | | | |
| ♂ 11 | 29.85 | 68.2 | 58.0 | 2 | 1 | 7 | NW | | Dry | clr | 6 | m | | | | | | |
| ♀ 12 | 29.79 | 62.2 | 52.2 | 3 | 2 | 5 | N | | Dry | clr | 7 | m | | | | | | |
| 4 13 | 30.10 | 62.4 | 51.2 | 2 | 1 | 1 | WSW | | Dry | clr. | 3 | ⊙ | | | | | | |
| ♀ 14 | 30.05 | 62.7 | 53.1 | 1 | 0 | 1 | N | | Dry | haz. | 10 | ⊙ | | | | | | |
| 1/2 15 | 30.16 | 60.3 | 52.6 | 2 | 1 | 2 | NE | | Dry | clr | 3 | | | | | | | |
| 0 16 | 30.00 | 61.3 | 54.2 | 1 | 0 | 0 | W | | Dry | clr. | 0 | ⊙ | | | | | | |

1895. June 2nd half. Readings of Instruments at 8.25 AM Each Day, as a near Natural Mean for the 24 hours.

| Month
Week
Days | BAROM
Inches | Therms | | SPECTR ^m | | WIND | | Atmos.
Electric | EARTH
Yry
Wet
Dry
Fast | AIR
clr.
haz
mist
fog | CLOUDS
Qu.
Kind
1 5 10
of film | Sun | | Cloud
Photos
Taken | Rain fall | | Night |
|-----------------------|-----------------|----------|-----------|---------------------|---------------------|-------------------|------------------------|-------------------------|------------------------------------|-----------------------------------|--|------|----|--------------------------|-----------|----|-------|
| | | In
F. | Out
F. | Rain
band | low
gold
band | Vel
m.
hour | Dir-
ection
from | | | | | AM | PM | | AM | PM | |
| ♂ 17 | 29.87 | 61.9 | 54.8 | 2 | 2 | 1 | NE | | | Dry
clr | 7 | | | | | | |
| ♂ 18 | 29.63 | 62.8 | 57.5 | 1 | 1 | 1 | SW | | | Wet
mist | 10 | | | | | | |
| ♀ 19 | 29.58 | 61.3 | 55.2 | 2 | 1 | 1 | SW | | | Dry
clr | 4 | | | | | | |
| ♀ 20 | 29.86 | 62.3 | 57.3 | 3 | 2 | 0 | W | | | Dry
clr | 2 | | | | | | |
| ♀ 21 | 30.12 | 64.2 | 58.5 | 2 | 1 | 2 | S | | | Dry
haz | 7 | | | | | | |
| ♀ 22 | 30.22 | 66.5 | 61.8 | 3 | 1 | 0 | WSW | | | Dry
haz. | 10 | | | | 1 | | |
| ♂ 23 | 30.27 | 68.6 | 63.7 | 5 | 2 | 3 | W | | | Dry
clr. | 10 | | | | | | |
| ♂ 24 | 30.41 | 69.8 | 64.8 | 3 | 1 | 1 | NE | | | Dry
haz | 8 | | | | | | |
| ♂ 25 | 30.35 | 68.2 | 63.0 | 2 | 1 | 1 | NE | | | Dry
mist | 0 | haze | | | | | |
| ♀ 26 | 30.10 | 69.5 | 63.6 | 1 | 0 | 1 | SW | 10/10
10/10
10/10 | | Dry
haz. | 2 | haze | | | | | |
| ♀ 27 | 29.87 | 71.5 | 64.9 | 2 | 1 | 1 | SW | 10/10 | | Wet
mist | 9 | haze | | | | | |
| ♀ 28 | 29.78 | 69.0 | 62.3 | 3 | 2 | 3 | SW | 10/10 | | Damp
clear | 3 to 9 | | | | | | |
| ♀ 29 | 29.60 | 68.4 | 62.0 | 4 | 2 | 5 | SW | | | Damp
haz. | 9 | haze | | | | | |
| ♂ 30 | 29.53 | 68.0 | 60.2 | 5 | 1 | 6 | SW | 10/10 | | Damp
clear | 4 | | | | | | |

CONCLUSION

Although his cloud images have rather limited scientific importance they can be seen as an interesting addition to the history of meteorology and photography of the time. Indeed, the association of cloud images with meteorological data very much follows on from the annotated cloud studies by John Constable in the 1820s (Thornes, 1999).

The main purpose of this publication, however, is the open presentation of the Smyth meteorological data set. It is hoped that this will enable his careful observations to be finally used by researchers into historical meteorology and incorporated into more complete data sets for the period.

REFERENCES

Brück, H.A. and M.T. *The Peripatetic Astronomer*, Adam Hilger, 1988.

Thornes, J.E. *John Constable's Skies*, Birmingham University Press, 1999.

ACKNOWLEDGEMENTS AND NOTICE TO USERS

Grateful thanks are due to the Royal Society of London for access to and permission to publish the images from the Smyth albums. Also to Malcolm Walker, Chairman of the Royal Meteorological Society History Group, for all his help with the final production of this paper.

The Royal Society can allow the material to be used for study and research so long as any publication or presentation acknowledges the Royal Society as the original source. Use of this Meteorological Society publication should also be acknowledged.