[Form No. 122 *b*—1888.]

RECORDS DIVISION,
OFFICE CHIEF SIGNAL OFFICER.

SIGNAL SERVICE.

Voluntary Observers' Meteorological Record.

Station: Smithfield Ohio

Month of March, 1890

NOTES.

The daily mean temperature is found by the formula $\frac{1}{4}(7+2+9+9)$.

When it is not practicable to take tri-daily observations, good results may be obtained by taking two observations daily, selecting hours of the same name, viz: 7 A. M. and 7 P. M.; or 8 A. M. and 8 P. M. The mean daily temperature in such case being obtained by dividing the sum by two.

Where self-registering thermometers only are used, the mean can be obtained by dividing the sum by two.

Precipitation should be recorded in inches and hundredths. When the amount is too small to measure, write "trace" in the column.

A. W. GREELY,
Chief Signal Officer.

3—290

MONTHLY SUMMARY.

Mean temperature: 49° 48.1

Maximum temperature: 82° Date: 22nd

Minimum temperature: 24° Date: 3rd, 7th, & 18th

Total precipitation, including melted snow: 5.75 Inches 3.58

Number of days upon which 0.01, or more, of rain, or melted snow, fell: 7 (seven)

Depth of snow, in inches, on the ground on 15th None; **at end of month:** None

Total snowfall, in inches, during the month: half melted that fell 11 hours = 1.50

Frost, dates of: 2, 3, 4, 7, 8, 9, 14, 16, 17, 21, & 24 Temp. below 40° if no frost visible

Thunder-storms, dates and time: 6th 7 am 7th 11.30 pm 22nd 3.30 to 4 pm

Hail, dates and time: ~~2, 3, 4, 7, 8, 9, 14, 16, 17, 21, & 24~~ None

Sleet, dates and time: None

Auroras, dates and time: None

Miscellaneous phenomena: I enter as frost days, all when the Thermometer is below 40°, altho wind or cloudiness in previous night prevented the formation of frost.

REMARKS.

1st – Rain at 2 am. ~~Snow~~ Snow 8 pm. 3rd. Rain ¼ Inch Snow laying –
6th – 6.30 am wind S. Rain – 7 am Thunder cloud (Mild) Rain SE – 7.30 pm wind NW fr.
15 – 9 am Snow to 10 am, did not lay, or might have been 3 Inches. deep –
9 pm Snow of short duration
21 – 11.30 pm. Lion Th. Cloud. from SW. to NE. Rain 1.08 Inches
22 from 2.30 pm to 8 pm. Succession Th. Clds. from NW. & SW. & S.
28 – 12 noon to 9 am Hy. Sky hazy, wd. S.W. fr 10 am to 4 pm S.W. Gales 12 M. Clouds breaking – 3 pm, Clear

VOLUNTARY OBSERVERS' METEOROLOGICAL RECORD