[Form No. 122 b—1888.]

SIGNAL SERVICE.

Voluntary Observers' Meteorological Record.

Station: Smithfield Va

Month of July 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

RECORDS DIVISION
OFFICE CHIEF SIGNAL OFFICER
AUG 5 1890

MONTHLY SUMMARY.

Mean temperature: 74.9°

Maximum temperature: 92° Date: 8th

Minimum temperature: 55° Date: 23rd

Total precipitation, including melted snow: ~~5.53~~ Inches 5.39

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

Depth of snow, in inches, on the ground on 15th 0.0; at end of month: 0.0

Total snowfall, in inches, during the month: 0.0

Frost, dates of: 0.0

Thunder-storms, dates and time: 3rd. 3.15 pm, 6th. 3 pm, 9th 4.30 pm, 27th 4.30 pm

Hail, dates and time: 0.0

Sleet, dates and time: 0.0

Auroras, dates and time: 0.0

Miscellaneous phenomena:

REMARKS.

July 3 – 3.15 pm Th. Cld. mild no Rain, a trace.

4 – Succession mild Th. Clds. from 3 to 7 pm. Rain, wind S.W.M., no hail

9 – 4.30 pm Th. Cld. & Rain – wind N.W. higher. The body of this cloud was about 7 miles W.N.W. of this station where the rain fall was great, & Hail of large size & the crops suffered much injury. The cloud extended from S.W. to N. & at 5 pm. it divided, a part moving S.E. & one N.E. persons in the path of each division report much damage to crops from wind & hail. The broken ends of each part came on this station without harm. At 2 pm Fer. Thu: 101° in the shade – at 6 pm. 76° fall of 25° in 4 hours.

18 – Rain 1.45 pm. At 1 pm. heavy Th. Cld. about 10 or 12 miles N.E. of this station, but no electric phenomena reached here with the rain.

24 – 'Tis unusual, perhaps unprecedented, on the parallel of 37° N. Lat. for the Mn: av. temperature of 4 days in July 20 to 23, to be as low as 65.9°. Fer. Thu.

27 – 4.30 pm. very mild Th. Cld. good rain, no hail or wind.