NOTES.

This form is to be used where only records of temperature, precipitation, and wind (or all) are made.
Fractions of degrees should be recorded in tenths, thus: 72°.1, 32°.5.
The monthly means are determined by dividing the sum of the daily means by the number of days.
Under the heading "Precipitation" should be noted the time of beginning and ending of the fall of Rain or Snow, and the true depth in inches and hundredths (expressed decimally) of the fall of rain or melted snow; also the depth of snow in inches. Melted snow should be recorded in its proper column, and not in that for rain, and against each record should be placed a letter, indicating by what method it has been determined, viz: "g" for gauge, "s" for section, "e" for estimate. If the precipitation is rain and snow mixed, it should be entered under Rain, with the letter "m." When the amount of precipitation is too small to measure, the fact should be indicated by a dash (—) and the word "Inappreciable" written under the head of "Remarks," and the dash and word connected by an asterisk (*) or other reference mark. Absence of precipitation will be indicated by the figure zero (0). If any observation is not taken, write in the space the word "Blank."
The blank spaces on the form for name of observer, place of observation, month, etc., should always be carefully filled up.
To render the data specially valuable, on the completion of this record it should be mailed to the central office with the least delay possible.
In folding this form no envelope is required; first fold the form into two equal parts, and then into three equal parts, by folding on the dotted lines; this will throw the frank on the outside; place one fold inside the other; address and mail.
In estimating the force of the wind, observers will find the following scale important and convenient: Calm, light or lt.; just moving the leaves of trees. Moderate or mod.; moving small branches. Brisk or br.; moving larger branches, raising a slight dust. High; blowing up twigs from ground, swaying whole trees. Gale; breaking small branches, loosening bricks on chimneys. Hurricane or hurr.; destroying houses, uprooting large trees.

WASHINGTON CITY FEB 3 10 AM 1889

FEB 1889 RECORDS FILE CORRESPONDENCE DIV. SIGNAL OFFICE.

SMITH FIELD VA FEB 2

Meteorological Reports made by Observers co-operating with the Signal Service, U. S. Army.

SIGNAL OFFICE, WAR DEPARTMENT.

OFFICIAL BUSINESS.

Any person using this frank for private purposes will be deemed guilty of a misdemeanor and be subject to a fine of $300.

A. W. Greely

CHIEF SIGNAL OFFICER.

WASHINGTON, D. C.

(Form No. 122 F—1886.)

VOLUNTARY OBSERVER'S METEOROLOGICAL RECORD.

Summary for Smithfield, Isle of Wight Co. Virginia

Post-office address of Observer Smithfield, Virginia

Mean temperature, tri-daily, 43.7 *, Maximum and Minimum,* 50.7 36.2

Highest temperature, 68.3 *; Date,* 17th.

Lowest temperature, 21 *; Date,* 30th.

Total Precipitation, 3.77

Number of days on which 0.01 or more of Rain or melted Snow fell, 7

Depth of Snow, in inches, on ground at end of month, 0.0

Total Snowfall, in inches, during month, 0.0

Frosts, dates of, 2 3 4 7 8 10 11 12 13 14 15 16 19 20 21 22 22 26 27 30 31

Thunder-storms, dates and time, 0

Hail, " " " 0

Sleet, " " " 0

Auroras, " " " 0

Halos, { *Solar,* " " " / *Lunar,* " " " 14th. & 15th.

Polar Bands, " " "

DESCRIPTION OF INSTRUMENTS.

Kind of Rain-gauge, diameter of funnel, etc., 5 Inches

Height of gauge above ground, 18 Inches

Maker and No. of dry-bulb Thermometer, Lange's Continued

" " *maximum* "

" " *minimum* "

Height of dry bulb above ground, 10 feet

OBSERVERS ARE SPECIALLY REQUESTED TO FILL UP THIS SUMMARY.

CASUAL PHENOMENA.

1889. Jany. 8— 7 a.m. Clear but foggy— Calm; wind W. & S.E during the day— Temp. av. Max. 41.4°
" " 9— 7 a.m. Cloudiness— Wind S.W. to S. till 8 p.m. then the velocity (estimated) 25 to 30 miles till 10 p.m.
" " "— Atmospheric pressure high— Temp. av. Max. 36.8— Rain 4 a.m. 0.112—
" " 13— 7 a.m. Cloudy— wind N.W.— Temp. 33— 2 p.m. wind N.E. 1— Temp. 46—
" " 16— The tornado so fatal & destructive at Pittsburg & Reading Penn. & also local, was
" " " a moderate wind at this point— From 7 a.m. to 8 p.m. wind E. & S.E. & nearly a Calm—
" " " 8 p.m. wind till 2 p.m. 17th. varied in force from S.E. from 15 to 30 miles an hour (estimated)—
" " 20— The mild N.E. breeze of to day, at from 8 to 10 p.m. was from the S. with force of 20 to 25 miles—