FORM No. 122 B—1888.

UNITED STATES SIGNAL SERVICE,

DIVISION OF TELEGRAMS AND REPORTS FOR THE BENEFIT OF COMMERCE AND AGRICULTURE.

VOLUNTARY OBSERVERS' METEOROLOGICAL RECORD for the month of June, 1890.

Place of observation: Richmond, *County of* Henrico *State of* Va

Latitude ..... *Longitude* ..... *Height of ground above sea,* ..... *feet.*

SCALE FOR WIND FORCE AND VELOCITY.

Force.	Velocity, Miles per Hour.	Designation.
0	0	Calm.
1 } 2 }	1 to 5 miles per hour.	Light.
3	6 to 14 miles per hour.	Fresh.
4	15 to 24 miles per hour.	Brisk.
5	25 to 39 miles per hour.	High.
6	40 to 59 miles per hour.	Gale.
7	60 to 79 miles per hour.	Strong gale.
8	80 miles per hour.	Storm.
9 } 10 }	90 miles per hour.	Hurricane.

Day of Month.	Temperature, Dew-point, and Relative Humidity. 7 A. M. Dry bulb.	Wet bulb.	Dew-point.	Relative humidity.	2 P. M. Dry Bulb.	Wet bulb.	Dew-point.	Relative humidity.	9 P. M. Dry bulb.	Wet bulb.	Dew-point.	Relative humidity.	Daily mean temperature.	Daily mean relative humidity.	Maximum temperature.	Minimum temperature.	Precipitation. Time of beginning.	Time of ending.	Total amount of rain and melted snow, in inches and hundredths.	Average depth of snow, in inches.	Wind. 7 A. M. Dir. from.	Force 0–10.	2 P. M. Dir. from.	Force 0–10.	9 P. M. Dir. from.	Force 0–10.	Clouds, Expressed in tenths. 7 A. M.	2 P. M.	9 P. M. Amount. 0–10.	0–10.	0–10.	Character of Day Expressed by Average Cloudiness.
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3																																
4																																
5																																
6																																
7																			.15													
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28																																
29																			.40													
30																																
31																																
SUMS.																			1.52													
MEANS.																																

Meteorological Report for June.

The subjoined table gives sunrise, minimum and maximum readings of the thermometer, the course of the wind at sunrise, and the amount of rainfall for the month of March.

The readings of the thermometer were taken in an elevated portion of the city, the position of the instruments being free from any influence of refracted heat. They are self-registering, of the very best French manufacture, and the figures are believed to be absolutely correct:

Condition.	Minimum.	Sunrise.	Maximum.	Wind.
1—Cloudy	63	63	81	S. E.
2—Clear	59	59	84	N. E.
3—Clear	63	63	87	S. W.
4—Clear	65	65	92	S.
5—Clear	69	69	93	S.
6—Clear (1)	72	72	92	S.
7—Cloudy	67	67	86	S. E.
8—Clear	55	55	73	N. W.
9—Clear	53	53	83	N. W.
10—Clear(2)	64	64	87	S.
11—Partly cloudy	69	69	90	S. E.
12—Clear(3)	71	71	92	S.
13—Clear	65	65	89	S.
14—Clear(4)	68	68	89	S.
15—Clear(5)	66	66	85	S.
16—Cloudy(6)	68	67	78	E.
17—Cloudy(7)	65	65	78	N. E.
18—Cloudy	69	69	89	S. W.
19—Cloudy	73	73	85	S. E.
20—Clear	63	63	88	W.
21—Partly cloudy (8)	66	66	85	S.
22—Clear...(9)	72	72	94	S.
23—Clear	67	67	94	S. E.
24—Clear	77	77	93	E.
25—Partly cloudy	76	76	96	S.
26—Clear	71	71	93	S. E.
27—Clear	72	72	90	N. E.
28—Clear	81	81	95	S.
29—Cloudy (10)	72	72	94	S. E.
30—Cloudy	67	67	93	S. E.
Average temperature	67.6	67.5	88.5	

Mean temperature, 78.1.

1. High wind and slight shower in the afternoon.
2. Light shower at night.
3. High wind and shower about 2 P. M.
4. Rain in the afternoon.
5. Light shower at night.
6. Slight sprinkle at night.
7. Light rain in the forenoon.
8. Light shower about noon.
9. Shower at night, with thunder and lightning.
10. Rain at night.

Rainfall for the month, 1.52 inches.

We give below a table showing the mean temperature and the average amount of rainfall during the corresponding month for the past eleven years:

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	Mean temperature.	Rainfall. Inches.
1880	78.0	2.40
1881	75.7	3.47
1882	75.0	1.66
1883	77.0	3.64
1884	74.3	2.89
1885	76.2	3.83
1886	72.8	6.39
1887	71.7	4.45
1888	77.3	4.39
1889	78.1	7.02
1890	78.1	1.52

The average rainfall for the eighteen years has been 38.61 inches.

While the mean temperature has been higher than for the same period during eleven years the rainfall has been less.

Below we give a table showing the mean temperature and the rainfall for the first six months of 1880 and 1890:

	1880.	1890.
January	4.47	1.31
February	3.21	3.23
March	4.83	3.47
April	2.81	2.89
May	4.51	4.39
June	2.40	1.52
Total	26.23	16.81

375

385

(Sign here.) Wm. H. Pleasants

Voluntary Observer.

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