

Meteorological Report for November.

The subjoined table gives the readings of the thermometer, the course of the wind at sunrise, and the amount of rainfall for the month of November. The readings of the thermometer were taken in an elevated portion of the city, free from any influence of refracted heat, and from French instruments, showing the highest and lowest points of the mercury during each twenty-four hours. It is believed that no better situation for observations of this character can be found in our city. They have been carefully noted, and are believed to be absolutely correct :

CONDITION.	Sunrise.	Minimum.	Maximum.	Wind.
1—Clear, frost and ice (1).....	35	35	54	N. E.
2—Clear.....	41	41	55	N.W.
3—Clear.....	36	36	54	N.W.
4—Clear.....	33	33	59	N. E.
5—Partly cloudy....	43	43	68	S. W.
6—Partly cloudy....	58	58	74	S. W.
7—Cloudy.....	58	58	75	W.
8—Cloudy (2).....	65	65	68	N. W.
9—Clear.....	46	46	59	N. E.
10—Clear.....	40	40	65	S. W.
11—Clear.....	36	36	62	S. W.
12—Clear.....	50	50	71	S. W.
13—Clear (3).....	54	54	69	N.W.
14—Clear.....	40	40	60	N.W.
15—Clear.....	36	36	57	N.W.
16—Clear; h'vy fro't and ice.....	32	32	56	W.
17—Clear; h'vy fro't and ice.....	30	30	56	N. E.
18—Partly cl'dy.....	38	38	67	W.
19—Cloudy.....	52	52	63	W.
20—Clear (4).....	36	36	63	N. E.
21—Cloudy.....	33	33	60	N. E.
22—Cloudy (5).....	36	36	57	N. E.
23—Cloudy.....	43	43	57	N. E.
24—Clear.....	36	36	47	W.
25—Cloudy.....	36	36	46	W.
26—Partly cloudy....	35	35	46	W.
27—Clear.....	35	35	45	W.
28—Cloudy (6).....	37	37	47	S.
29—Cloudy; rain - tug (7).....	40	40	44	E.
30—Partly cloudy....	35	35	46	N. E.
Av'ges for month....	40.8	40.8	58.3	
Mean temp't're, 49.5				

- (1) Rain at night.
- (2) Light rain in forenoon.
- (3) Light rain during the day.
- (4) Light rain in the afternoon.
- (5) Light rain in forenoon and late in afternoon
- (6) Rain at night.
- (7) Rained all day and in the early part of the night.

Slight spats of snow were seen on the 23d and 28th.

Rainfall for the month 2.86 inches.

In the table below we give the mean temperature and the amount of rainfall during the month of November for the past six years :

	Mean Temperature.	Rainfall.
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1880.....	42.2	2.93 inches.
1881.....	42.2	3.33 "
1882.....	45.9	0.23 "
1883.....	51.0	1.30 "
1884.....	48.4	1.64 "
1885.....	49.5	2.86 "

JAMES RIVER IMPROVEMENT, ENGINEER'S OFFICE, 905 1/2 EAST MAIN STREET, RICHMOND, VA., Nov. 2, 1885.

Accompanying this I send a list of all the freshets of which there is any accurate record in this office, and the heights to which they have risen above average low water. It is probable that the record before 1875 is incomplete as regards the smaller freshets.

If the reports of the height of the water at Columbia sent me were correct, it is to be observed that in the last freshet the water rose at Columbia higher by many inches [30?] than in the freshet of March 27, 1884, yet on the gauge here it only rose about 2 1/2 inches higher. The inference from this would be that the recent widening of Dutch Gap and dredging through the bar at Randolph flats allows the water to run off sufficiently fast to have a lowering effect upon the heights of the freshets here.

LIST OF FRESHETS IN JAMES RIVER, VA.

Date.	Height above Average Low Water. Feet and Tenths.	Locality at Richmond.
Unknown.	13.3	Toll-house.
Unknown.	13.1	Mayo's bridge.
Unknown.	12.6	do.
1847	16.5	do.
1863	16.8	do.
1864(?)	16.1	do.
1870—Oct. 1	27.0	U. S. Engineer's gauge, Rocketts.
1875—Feb. 26	14.4	do.
Dec. 9	6.6	do.
1876—Mar. 30	12.0	do.
Sept. 24	12.2	do.
1877—Jan. 17	10.5	do.
April 10	6.9	do.
Oct. 5	13.8	do.
Nov. 9	11.0	do.
Nov. 25	28.6	do.
1878—Jan. 15	8.8	do.
Feb. 11	7.3	do.
April 11	5.5	do.
May 7	6.3	do.
May 16	6.3	do.
Sept. 15	13.4	do.
Nov. 18	12.7	do.
Dec. 12	12.6	do.
1879—Jan. 16	7.8	do.
Dec. 15	9.8	do.
1880—Feb. 15	6.8	do.
Mar. 15	13.3	do.
May 2	6.9	do.
1881—Jan. 22	10.4	do.
Feb. 13	12.9	do.
Dec. 27	10.5	do.
1882—Feb. 11	11.0	do.
1883—Jan. 21	9.7	do.
April 18	9.7	do.
April 26	8.8	do.
1884—Jan. 7	7.7	do.
Feb. 11	10.5	do.
Mar. 11	13.7	do.
Mar. 27	15.7	do.
June 15	8.4	do.
June 28	9.3	do.
1885—May 28	9.9	do.
Oct. 14	6.9	do.
Oct. 31	15.9	do.