☞ To be filled up, and sent on the first of each month, in an envelope, addressed to the "Commissioner of Agriculture, Washington, D. C."

REGISTER OF METEOROLOGICAL OBSERVATIONS,

348 413

UNDER THE DIRECTION OF THE SMITHSONIAN INSTITUTION, ADOPTED BY THE COMMISSIONER OF AGRICULTURE FOR HIS ANNUAL REPORT.

Place of Observation: Richmond, *County of* Henrico 6 from Washington, *State of* Virginia

Latitude 37½ N; *Longitude* 0° 30 minutes; *Height above the sea:*

Name and address of Observer: Gilbert C Vincent Esq Richmond Va *For the month of* June, 1872

Day of Month	Thermometer in the open air: 7 A.M.	2 P.M.	9 P.M.	Mean	Rain and Snow: Time of beginning of rain or snow.	Time of ending of rain or snow.	Amount of rain or melted snow in gauge, in inches.	Depth of snow, in inches.
1	60	76	75	70.1				
2	61	76	70	70.3				
3	60	77	65	67.1	5 Am	9 Am	.2	
4	61	79	62	67				
5	60	70	60	63.1				
6	63	72	58	64.13				
7	72	88	65	75				
8	72	76	63	67				
9	66	78	64	67.03				
10	74	88	70	74.03	1 PM	3 PM	.3	
11	70	88	69	75.66				
12	66	80	76	74				
13	70	86	80	78.66				
14	67	88	80	75	10 PM	12 AM	.2	
15	71	89	76	78.66				
16	69	84	80	77.66	3 Am	8 Am	.8	
17	70	88	79	74				
18	68	81	80	76.33				
19	69	81	83	77.66				
20	70	88	80	79.33				
21	67	82	79	76				
22	80	86	83	83	4 Am	4 Am	.3	
23	80	84	78	80.66	6 Am	8.30	.6	
24	75	82	80	80				
25	74	86	82	80.66				
26	72	86	81	79.66				
27	73	86	84	82.66				
28	76	90	88	85				
29	77	88	86	84.33				
30	79	84	87	83.00				
31								
Sums	2032	2481	2270 2240				2.00 ✓	
Means	69.7	82.7	75.6	75.5				

Day of Month	Clouds: 7 A.M. Amount of cloudiness.	Kind of clouds.	Motion of higher clouds. Velocity.	Direction.	2 P.M. Amount of cloudiness.	Kind of clouds.	Motion of higher clouds. Velocity.	Direction.	9 P.M. Amount of cloudiness.	Kind of clouds.	Motion of higher clouds. Velocity.	Direction.	Winds: 7 A.M. Direction.	Force.	2 P.M. Direction.	Force.	9 P.M. Direction.	Force.	Day of Month
1																			1
2																			2
3	10	Nim	2	N	6	Cir	6	W		Nim	4	W	W	5	6	5	N	5	3
4	5	Nim	10	N	5	Cir	9	N	5	Nim	8	N	N	8	N	8	N	8	4
5	5	Cir	10	N	5	Cir	9	N	5	Nim	8	N	N	6	N	8	N	4	5
6	2	Cir	2	N	2	Cir	2	N	2	Cir	2	N	N	2	N	2	N	2	6
7	3	Cir	1	W	4	Cu	6	W	8	Nim	1	N	N	1	N	5	N	5	7
8	3	Cir	1	NW	3	Cir Cu	4	W	9	Nim	1	W	W	1	W	6	W	1	8
9	3	Cir St	1	W	5	Cir St	3	N	6	St	1	N	SW	4	W	4	N	1	9
10	2	Cir St	1	W	10	Nim	4	N	6	Nim	3	N	W	2	W	4	N	1	10
11	3	Cu	1	NW	4	Cu	3	W	1	St	2	W	NW	1	NW	4	NW	1	11
12	4	Cu	1	NW	6	St	2	NE	7	Cu	4	NE	NW	1	NE	2	NE	1	12
13	2	Cu	1	W	3	St	1	N	5	Nim	1	N	W	1	N	3	N	1	13
14	3	St	1	NE	5	Cu	3	NE	8	Nim	3	N	NE	6	NE	6	NE	6	14
15	6	Nim	1	SW	8	Nim	4	SW	10	Nim	3	SW	SW	1	SW	1	SW	1	15
16	10	Nim	1	NE	8	Cu St	2	N	8	Nim	1	NE	E	2	E	3	E	2	16
17	3	Cir Cu	1	S	4	Cir St	3	S	6	Cu St	2	W	S	1	S	3	W	1	17
18	3	St	1	N	5	Cir St	3	N	6	Cir	1	N	N	1	N	1	N	1	18
19	1	Cu	1	NE	3	Cu	4	N	6	St	6	N	NE	2	NE	4	NE	3	19
20	5	Nim	2	S	3	Cir	3	N	6	Cu	2	E	S	2	N	4	E	2	20
21	3	Cu	2	W	4	Cu	3	W	4	Cu	1	W	W	2	W	4	W	1	21
22	5	Nim	5	S	2	Cu	3	W	2	Cu	1	W	S	5	W	3	W	3	22
23	2	Cir Cu	1	W	4	Cir Cu	1	W	2	Cir	2	W	W	1	W	2	W	3	23
24	3	Nim	1	S	2	Cu	3	S	3	Cu	8	S	S	3	S	3	S	4	24
25	4	Cir	1	S	6	Cir	4	S	2	St	1	S	S	1	S	3	S	1	25
26	8	Cir Cu	2	S	6	St	4	S	1	St	3	W	NE	2	NE	4	NE	3	26
27	5	Cir	1	NE	1	Cu	4	NE	2	St	1	E	E	2	E	3	E	3	27
28	4	Cu	2	NE	2	Cir St	3	S	5	Cir	2	S	S	2	S	2	S	3	28
29	5	St	2	S	2	Cir	3	S	4	Cir	3	S	S	2	S	1	S	2	29
30	6	Cu	3	W	2	St	2	W	3	Cu	2	W	W	1	W	2	W	3	30
31																			31
Sums	128		47		120		108		138		76			68		101		72	Sums
Means	4.8		2.9		4		3.8		4.8		2.6			2.8		3.11		2.4	Means

THE OBJECT of these observations is to enable the Smithsonian Institution, in connection with the Department of Agriculture, to prepare a series of maps to illustrate the face of the sky, &c., over the United States, for each day in the year, and thus to study the rise, progress, and course of American storms. Observers who have a Barometer, Psychrometer, etc., will be supplied with other blanks and also full directions for using all the instruments, by the Smithsonian Institution.

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EXPLANATION OF THE ABOVE COLUMNS.

THERMOMETER IN THE OPEN AIR.

This is intended for the register of the thermometer, and for the daily mean or average of the three observations.

RAIN AND SNOW.

Under this head are entered the time of beginning and ending of the fall of rain or snow, and the amount, in inches and hundredths, of rain or melted snow collected in a gauge at the surface of the ground; also the depth of the snow. Rain to be indicated by R, and snow by S. When there is no rain or snow, mark 0.

CLOUDS.

Under this general head are entered three daily observations on the aspect of the sky, &c. 1st. The "Amount of cloudiness," designated by figures, 10 being entire cloudiness; 5 half cloudiness; 0 entire clearness; and intermediate numbers in proportion. 2d. "Motion of the higher clouds," which pass directly over the head of the observer, as given to eight points of the compass. The direction *from* which they move is to be given. This observation is important, as the course of the *higher clouds* is sometimes different from that of the *surface wind*, which is given in another column. 3d. The "Velocity," or rate of motion, 10 being the highest, and 0 apparent rest. 4th. The description or "Kind of clouds," to be entered by means of the following abbreviations: *St.* Stratus; *Cu.* Cumulus; *Cir.* Cirrus; *Nim.* Nimbus; *Cir. st.* Cirro-stratus; *Cu. st.* Cumulo-stratus; *Cir. cu.* Cirro-cumulus.

WINDS.

This is for the record of the direction *from* which the wind is blowing as indicated by a vane, and its force by direction is entered in eight points of the compass: N., N.E., E., S.E., S., S.W., W., N.W. The force is to be estered by figures from 1 to 10, as in the first column of the following table. The figures in the last column, expr of miles per hour, are *not to be used* in the register:

1.	Very light breeze	2 miles per h
2.	Gentle breeze	4 do. d
3.	Fresh breeze	12 do. d
4.	Strong wind	25 do. d
5.	High wind	35 do. d
6.	Gale	45 do. d
7.	Strong gale	60 do. d
8.	Violent gale	75 do. d
9.	Hurricane	90 do. d
10.	Most violent hurricane	100 do. d

☞ SEE OT

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