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

REGISTER OF METEOROLOGICAL OBSERVATIONS, UNDER THE DIRECTION OF THE SMITHSONIAN INSTITUTION, ADOPTED BY THE COMMISSIONER OF PATENTS FOR HIS AGRICULTURAL REPORT.

Place of Observation Wentworth 1 1/2 M. Richmond County of Henrico State of Virginia
Latitude _____ Longitude _____ Height above the sea _____
Name and address of Observer Chas. I. Muirwater, Wentworth near Richmond Va For the month of August, 1860.

Day of Month.	THERMOMETER IN THE OPEN AIR.				RAIN AND SNOW.				CLOUDS.												WINDS.					
									7 A. M.			2 P. M.			9 P. M.			7 A. M.			2 P. M.			9 P. M.		
	7 A. M.	2 P. M.	9 P. M.	Mean.	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.	Amount of cloudiness.	Course of higher clouds.	Velocity.	Kind of clouds.	Amount of cloudiness.	Course of higher clouds.	Velocity.	Kind of clouds.	Amount of cloudiness.	Course of higher clouds.	Velocity.	Kind of clouds.	Direction.	Force.	Direction.	Force.	Direction.	Force.
1	70	84	73																							
2	69	87	74																							
3																										
4																										
5		92	82																							
6	88 1/2	90	80																							
7	76	93	80 1/2																							
8	75	100	75		10.4	abal	1 7/8																			
9	76	92	79																							
10	74	96	78																							
11	70 1/2	82	72																							
12	76	78	73		3. m	rainy night	1 1/4																			
13	76	78	66		12	" P.M."	2 3/4																			
14	62	62	66																							
15	61	74	64																							
16	58 1/4	77	66																							
17	58 1/4	80	92																							
18	68	90	76																							
19	70	88	78																							
20	69	90	78																							
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31																										
Sums.																										
Means.																										

THE OBJECT of these observations is to enable the Smithsonian Institution, in connexion with the Patent Office, 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.

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.

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. "Course 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. s. Cirro-stratus; Cu. s. 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 estimation. The 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 estimated and registered by the following table, in figures, from 1 to 10:

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

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