METEOROLOGICAL REGISTER FOR THE FIRST CLASS OF OBSERVERS, ADOPTED BY THE SMITHSONIAN INSTITUTION.

1850

Meteorological observations made at Richmond Henrico County, State of Va

Lat. 37° 32' 17" Longit. 77° 27' 28 by Miss L. Stevens & D. Turner

Month August No. 1

Hours of Observations 6 A.M. 2 P.M. 10 P.M mean time.

Barometer above { *the ground 4 feet* / *the Ocean 172 feet*

Date: Day	Hour	Thermometers: ordinary Air	ordinary Daily mean	Self-registering min.	max.	Daily mean	Barometer: attach. Therm.	observed Height	cor. Height at Freezing Point	Daily mean	Wind, force & direction from the: Vane.	Lower Clouds	Upper Clouds	Cloudiness in 10ths	Aspect of the Sky	Psychrometer: Dry Bulb - t	Wet Bulb - t'	Difference (t - t')	Force of Vapour	Relative Humidity	Daily means: Force of Vapour	Relative Humidity	Water fallen inches: Rain.	melted Snow.	Total	Moon's Phases
1	6	69					70	30.100	29.989		E1			1	Cir fine	69	65	4								
	2	76					73	30.100	29.981		NE1			9	Cumulus	76	66	10								
	10	70	71.0	69	76	72.5	72	30.100	29.983	29.984	NE1			2	St	70	64	6								
2	6	70					70	30.100	29.986		NE1			1	St fair early afternoon	70	66	4					.00			
	2	80					76	30.120	29.993		E1			8	Cir St	80	68	12								
	10	70	73.3	70	80	75	73	30.100	29.981	29.986	E1			1	Cir St	70	65	5					.45			
3	6	66					72	30.120	30.002		E1			6	Cir St	66	62	4								
	2	82					78	30.080	29.947		E2			9	Cumulus	82	68	14								5
	10	69	72.3	66	82	74	74	30.100	29.978	29.976	E1			1	Cir St	69	64	5					.00			
4	6	67					70	30.100	29.989		E1			10	Cir St	67	64	3								
	2	73					72	30.080	29.963		E1			10	Mist Sulphurous smell in air	73	68	5								
	10	75	71.6	67	75	71	75	30.080	29.955	29.969	NE1			10	Mist	75	73	2					.01			
5	6	74					75	30.140	30.015		NE1			10	Cirrus	74	71	3								
	2	86					81	30.130	29.989		NE1			1	Cirrus	86	76	10								
	10	81	80.3	74	86	80	80	30.130	29.992	29.998	NE1			9	Cirrus	81	76	5					.02			
6	6	76					76	30.170	30.043		SNE1			10	Cirrus	76	72	4								
	2	87					82	30.140	29.997		NNE1			1	Cir cu	87	74	13								
	10	80	81	76	87	81.5	81	30.120	29.979	30.006	NE1			0		80	75	5					.00			
7	6	74					78	30.110	29.977		NE1			0		74	72	2								
	2	91					86	30.050	29.896		NE1			2	Cir cu	91	76	15								
	10	82	82.3	76	91	82.5	82	30.040	29.897	29.923	E1			5	Cir cu	82	74	8					.00			
8	6	76					80	30.070	29.932		NE1			8	Cir cu	76	72	4								
	2	93					86	30.050	29.896		SNE1			4	Cumulus	93	77	16								
	10	76	81.6	76	93	86.5	80	30.070	29.933	29.920	SE1			8	Cir Stratus	76	73	3					.00			
9	6	76					79	30.050	29.915		SNE1			10	Cir St	76	73	3								
	2	88					84	30.100	29.951		SNE1			1	Cir cu	88	76	12								
	10	84	82.6	76	88	82	83	30.000	29.854	29.906	SNE1			3	Cir	84	77	7					.00			
10	6	78					80	30.100	29.962		NE1			6	Cir	78	70	8								
	2	86					85	30.050	29.899		SE1			1	Cir	86	73	13								
	10	76	80	76	86	81	81	30.020	29.877	29.913	NE1			2	Cir	76	72	4					.00			
	6																									
	2																									
	10																									
Sums		726						29.981						59		Sums	39									
		842						29.981						46			120									
		763	776			787		29.943	29.958					41			50						1.08			
Means		72.6						29.981						59		Means	3.9									
		84.2						29.981						46			12.0									
		76.3	77.6			78.7		29.943	29.958					41			5.0						1.08			

Mean of Wet bulb
Difference
3.6
10.35
4.45
Mean dew 69.6

Abbreviations

Direction of the Wind.
N.-Northwind. N.E.-Northeast.
E.-Eastwind. N.W.-North west.
S.-Southwind. S.E.-South east.
W.-Westwind. S.W.-South west.

Force of the Wind.
0.- a perfect calm. 1.- a light breeze moving the foliage of the trees.
2.- a moderate breeze, moving the branches of the trees.
3.- a fresh gale, or a wind which causes strong boughs and entire trees to rock.
4.- a storm wind, boughs and even entire trees sometimes broken.
The letter of the wind (N.wg.) without figure indicates a hardly perceivable air from that direction.

Form of the Clouds.
St.- Stratus. Cir-St.- Cirrostratus.
Cum-Cumulus. Cum-St.- Cumulostratus.
Cir.- Cirrus. Cir-Cum.- Cirrocumulus.
Nim. - Nimbus.

Cloudiness, or amount of Clouds.
0.- Clear Sky, entirely free from clouds
10- the whole sky covered.
1. 2. 3. &c to 9 different degrees between the two extremes.

Sky
Wd.-Wholly clear
C.- Clear ⅔ undecided.
M.- Medium, half covered.
Oc.- Overcast
Cov.- Entirely covered.

E.- Fog.
R.- Rain.
Sn.- Snow.
H.- Hail.
Th.- Thunder Storm.
Hf. Heavy frost.

Moon's Phases
New Moon ●
First Quarter ☽
Full Moon ○
Last Quarter ☾