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

1850

Meteorological observations made at Richmond Va. County, State of Va.

Lat. Longit. by

Month December No. 1

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

Barometer above the ground 25 / the ocean 73

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 Vapor	Relative Humidity	Daily means Force of Vapor	Relative Humidity	Water fallen inches Rain	melted Snow	Total	Moon's Phases
	6	32					57	30.180	30.120		NW1			0	Frost	32	30	2								
1	2	47					66	30.180	30.093		NW			0		47	38	9								
	10	37	38.6	32	47	39.5	61	30.190	30.116	30.109	0			0		37	36	1					.00			
	6	31					61	30.118	30.028		N			9	Cirrus slightly Frost	31	29	2								
2	2	47					66	29.870	29.769		C			2	Cirrus	47	39	8								
	10	42	40	31	47	39	61	29.780	29.693	29.830	NE			10	Nimbus Cumulus & Rain	42	38	4					.01			
	6	40					60	29.830	29.745		N			10	Cirrus	40	39	1								
3	2	47					65	29.900	29.802		NW			3	Cirrus	47	39	8								
	10	35	40.6	35	47	41	60	29.870	29.885	29.810	NW			2	Cirrus	35	33	2					.00			
	6	35					57	29.970	29.910		0			10	Cirrus	35	33	2								
4	2	47					64	30.010	29.915		NW			3	Cirrus	47	40	7								
	10½	32	38	32	47	39.5	59	30.210	30.128	29.984	NW			0		32	30	2					.00			
	6	27					65	30.300	30.200		N			0	Frost	27	26	1								
5	2	49					68	30.350	30.242		NW			NW 0		49	43	6								
	10	38	37	27	49	38	68	30.500	30.392	30.278	NW			0		38	32	3					.00			
	6	29					57	30.520	30.462		NW			0	Frost	29	28	1								
6	2	47					67	30.555	30.450		SW			0		47	41	6								
	10	32	36	29	47	38	60	30.520	30.454	30.255	SW			0		32	31	1					.00			
	6	31					66	30.455	30.369		SW			0	Frost	31	30	1								
7	2	57					64	30.360	30.263		S			2	Cir	57	48	9								
	10	45	45.3	31	57	44	66	30.325	30.223	30.285	S			6	Cirrus	45	43	5					.00			
	6	46					63	30.190	30.097		S 1			3	Cirrus	46	40	6								
8	2	54					66	30.000	29.899		S1			3	Cirrus	54	47	7								O
	10	60	53.3	46	60	53.	70	30.055	29.944	29.980	S			9	Cirrus	60	54	6					.00			
	6	46					67	30.180	30.090		0			3	Cir	46	40	6								
9	2	56					65	30.230	30.132		SW			4	Cir	56	43	13								
	10	45	49	45	56	50.5	60	30.215	30.130	30.117	S			6	Cirrus	45	44	1					.00			
	6	42					67	30.100	29.997		0			10	Cirrus	42	38	4								
10	2	46					60	29.810	29.725		SW1			10	Nimbus	46	46	0								
	10	40	42.6	40	46	43	64	29.820	29.725	29.815	0			1	Cir Cumulus Fog & Rain	40	39	1					.05			
	6																									
	2																									
	10																									
Sums		355							301.01					45					Sums		35					
		497							30.025					25							80					
		406420				425			30.065	30.066				34							26		.06			
Means		35.5							30.101					45					Means		35					
		49.7							30.025					25							8.0					
		40.6420				42.5			30.065	30.066				34							2.6		.06			

Abbreviations

Direction of the Wind.
N. Northwind. NE. Northeast.
E. Eastwind. NW. North west.
S. Southwind. SE. South east.
W. Westwind. SW. 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 reek.
4. a storm wind, boughs and even entire trees sometimes broken;
The letter of the wind (Xamp. 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 3 undecided
M. Medium half covered
Ov. Overcast
Ov. Entirely covered

F. Fog.
R. Rain.
Sn. Snow.
H. Hail.
Th. Thunder-Storm.
W. Heavy wind.

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