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. 37° 32′ 17″ *Longit.* 77° 27′ 28″ *by* D. Turner *Barometer above* { *the ground* 4 / *the Ocean* 172 *feet*

Month December *No.* 3 *Hours of Observations* 6 A.M. 2 P.M. 10 P.M *mean time.*

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
21	6	22					65	30.180	30.082		0			0		22	21	1								
	2	44					68	30.160	30.054		SW			9	cir cu	44	36	8								
	10	38	34.6	22	44	33	70	30.220	30.109	30.081	NE1			10	cust	38	32	6					.00		.00	
22	6	32					60	30.100	30.015		NE1			10	Min. Snows 2 inches fell in night	32	32	0								
	2	34					61	30.000	29.913		NE1			10	Min frozen rain fell 11 am	34	34	0								
	10	30	32	30	34	32	65	30.005	29.952	29.960	NW			10	cust Slight Snowing before Snow 3.3 inch	30	30	0					.00	.55	.55	8° snow 3.3 in dep
23	6	23					67	30.150	30.047		NW1			0		23	23	0								
	2	37					67	30.310	30.207		NW1			2	Cu	37	32	5								
	10	22	27.3	22	37	29.5	62	30.430	30.340	30.198	0			0		22	22	0					.00		.00	
24	6	12					54	30.350	30.320		0			0		12	12	0								
	2	40					62	30.160	30.070		SW			10	cust	40	36	4								
	10	32	28	12	40	26	62	30.020	29.930	30.106	0			0		32	32	0					.00		.00	
25	6	30					63	30.000	29.907		0			0		30	30	0								
	2	45					69	29.980	29.871		NE			3	Cir Cumu rain 5 pm snow	45	40	5								
	10	40	38.3	30	45	37.5	65	29.830	29.732	29.836	NE1			10	Min Mins mostly Snow melted	40	39	1					.20		.20	
26	6	33					69	30.100	29.991		NE1			10	Min Sprinkles Rain in night	33	33	0								
	2	31					63	30.000	30.306		NW			1	Str	31	30	1								
	10	22	28.6	22	33	27.5	63	30.550	30.456	30.251	0			0		22	21	1					.20		.20	
27	6	16					55	30.560	30.488		NW			2	Cir	16	16	0								
	2	31					53	30.450	30.383		NW			6	Cir St	31	30	1								
	10	29	25.3	16	31	23.5	49	30.300	30.244	30.371	NE			10	Min Rain fell 4 pm yes	29	29	0					.03		.03	
28	6	31					44	30.090	30.048		S			10	Mins	31	31	0								
	2	42					65	30.000	29.894		S			10	Min. Gale 4 pm Bar fell rapidly	42	40	2								
	10	47	40	31	47	39	67	30.050	29.941	29.961	0			10	cust Drizzling	47	47	0					.08		.08	
29	6	45					56	30.060	29.986		0			10	Cust	45	45	0								
	2	51					60	30.130	30.045		S			10	Cust Mist	51	50	1								
	10	45	47	45	51	46	62	30.180	30.090	30.043	S			10	Min Mist	45	45	0					.01		.01	
30	6	41					61	30.130	30.043		SE			10	Mins Mist rain drizzling	41	41	0								
	2	58					63	30.060	29.967		SE1			2	Cir Cl. 1 pm	58	55	3								
	10	54	55	41	58	49.5	61	30.020	29.933	29.951	0			10	Cust Cu 5 pm	54	51	3					.01		.01	
31	6	56					61	29.910	29.823		SE2			10	Cust drizzling mist rain	56	56	0								
	2	65					70	29.710	29.601		SE2			10	Mins Rain 2 pm	65	63	2								
	10	56	59	56	65	60.5	70	29.830	29.719	29.716	S			10	Cust Ths 6 pm to 8 pm	56	55	1					.50		.50	
									33.075					62		Sums		32	Monthly Record 1.535 / 2.1 / 1.96 / 1.6	1.03	.55	1.58
									33.031					5				12				
									33.044	33.050				80				.04				
Sums		341							30.068					55		Means		2.9		1.03	.55	1.58
		478							30.028					62				1.1				
		415	411			404			30.044	30.045												
		310																				
Means		434				367																

Direction of the Wind.

Abbreviations: 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, waving 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 etc.) without figure indicates a hardly perceptible air from that direction.

Form of the Clouds.

St. Stratus. — Cir-St. — Cirrostratus. Cum. Cumulus. — Cum-St. — Cumulostratus. Cir. Cirrus. — Cir-Cum. — Cirrocumulus. Nm. — 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. Cl. Clear & undoubted. M. Medium, half covered. Oc. Overcast. Cov. Entirely covered.

F. Fog. R. Rain. Sn. Snow. H. Hail. Th. Thunderstorm. H. Heartfrost.

Moon's Phases.

New Moon ● First Quarter ☽ Full Moon ○ Last Quarter ☾