

Highest Barometer	30.258 at 11 a.m. on 12th	Monthly range = 28.852 at 6 a.m. on 31st	1.406 inches.
Lowest Barometer			
Maximum temperature	46°0 on p. m. of 8th	Monthly range = 4.7 on a p. m. of 27th	41°3
Minimum temperature			
Mean maximum temperature	35°75	Mean daily range = 11°55	
Mean minimum temperature	24°20		
Greatest daily range	29°8 from a. m. of 27th to a. m. of 28th.		
Least daily range	3.6 from a. m. of 25th to a. m. of 26th.		
Warmest day	9th	Mean Temperature	40°37
Coldest day	26th	Mean Temperature	20°47
Maximum { Solar	65°5 on p. m. of 8th	Monthly range = 65°0	
Radiation { Terrestrial	—2.5 on a. m. of 27th		
Aurora observed on 2 nights, viz.: 20th and 22nd; possible to see Aurora on 12th night; impossible on 19 nights.			
Snowing on 14 days; depth, 9.0 inches; duration of fall 52.2 hours.			
Raining on 7 days; depth, 3.205 inches; duration of fall, 64.2 hours.			
Mean of cloudiness=0.73; most cloudy hour observed, 8 a. m.; mean=0.78; least cloudy hour observed, 10 p. m.; mean=0.57.			

Sums of the components of the Atmospheric Current, expressed in Miles.

North.	South.	East.	West.
1183.07	1158.16	1103.82	2086.64
Resultant direction of the wind, N 89° W; Resultant Velocity, 2.51 miles per hour.			
Mean velocity of the wind 6.84 miles per hour.			
Maximum velocity . . . 31.8 miles per hour, from 8 to 9 p. m. on 18th.			
Most windy day	18th—	Mean velocity, 17.42 miles per hour.	
Least windy day	16th—	Mean velocity, 0.13 do	
Most windy hour, noon, to 1 p.m.—	Mean velocity, 8.79	do	} Difference 3.00 miles.
Least windy hour, 5 to 6 p.m.—	Mean velocity, 5.79	do	

6th—Very dense Fog at 9 p.m.
12th—Corona round Jupiter at 10 p.m.
16th—Dense Fog during the whole day.
17th—Dense Fog till 10 p.m.
22nd—Solar Halo, 9.45 p.m. Upper portion very distinct.
27th—Very perfect Lunar Halo at 7 p.m.
28th—Very perfect Lunar Halo from 10 p.m.
29th—Perfect Lunar Halo from 8.40 to 11 p.m.

Temperature.—The mean temperature of December was 50°·1 above the average of 18 years. It was once equalled (in Dec., 1852), but never exceeded in that period.

Rain.—The depth of rain was 1.568 inches above the average of 17 years.

Snow—The depth of snow was 5.03 inches less than the average of 15 years.

Wind.—The mean velocity of the wind was 0.80 miles per hour less than the average 10 years. The resultant Direction and Velocity, from 1848 to 1857 inclusive, were 76° W. 2.86 miles per hour.

Comparatively, the month has been warm, rainy, cloudy, and calm.

COMPARATIVE TABLE FOR DECEMBER.

YEAR.	TEMPERATURE.					RAIN.		SNOW.		WIND.		
	Mean.	Difference from Average.	Maximum observed.	Minimum observed.	Range.	No. of days.	Inches.	No. of days.	Inches.	Resultant		Mean Velocity.
										Dirac-	tion.	
1840	24.3	-2.0	41.0	-4.4	45.4	3	6.600	19	...	...	...	1.33lbs
1841	28.7	+1.6	45.5	+2.4	43.1	7	0.880	17	...	...	...	0.61 "
1842	24.7	+3.7	40.3	+3.3	36.5	3	0.840	8	8.1	...	...	0.53 "
1843	30.0	+1.9	48.9	-0.8	49.7	6	Imp.	4	4.2	...	...	0.40 "
1844	28.2	+5.2	49.6	-2.7	40.3	2	Imp.	12	4.7	...	...	0.70 "
1845	21.1	+1.2	49.2	+3.7	45.5	5	1.215	9	6.0	...	...	0.57 "
1846	27.5	+3.8	50.0	+0.6	43.4	7	1.185	8	6.8	...	...	0.35 "
1847	30.1	+2.8	49.1	+0.6	48.5	7	2.760	7	10.5	8.83 W	1.12	5.44ms.
1848	29.1	+0.2	44.3	-5.2	46.5	5	0.840	12	9.6	N 82 W	2.56	6.23 "
1849	26.5	+4.6	48.3	-9.7	48.0	2	0.190	18	29.5	N 44 W	2.93	7.40 "
1850	21.7	+4.8	43.8	-10.5	54.3	6	1.075	15	10.7	N 82 W	4.00	7.37 "
1851	21.5	+5.6	51.0	+13.9	37.1	7	3.955	10	22.3	N 38 W	1.03	6.54 "
1852	31.0	-1.0	42.2	-5.2	47.4	4	0.625	13	20.1	N 38 W	2.41	4.98 "
1853	25.3	-4.4	41.8	-5.9	47.7	5	1.645	12	17.2	N 47 W	4.18	8.66 "
1854	21.0	+0.5	45.9	-2.1	48.0	6	1.590	10	29.5	N 88 W	5.29	11.88 "
1855	26.8	-3.4	41.2	-9.1	50.3	6	1.790	20	16.3	N 87 W	4.62	11.56 "
1856	29.9	+5.6	45.6	+5.7	39.9	7	3.205	14	9.0	N 80 W	2.51	6.84 "
1857	11.9	...	44.05	-0.90	45.55	5.2	1.637	11.9	14.03	...	...	7.64
Mean	26.3	...	44.05	-0.90	45.55	5.2	1.637	11.9	14.03	...	...	7.64

COMPARATIVE TABLE FOR DECEMBER.

Radiation { Terrestrial -2.5 on a-m. of 27th } 68°0
 Aurora observed on 2 nights, viz.: 26th and 22nd; possible to see Aurora on 12
 night; impossible on 19 nights.
 Snowing on 14 days; depth, 9.0 inches; duration of fall 52.2 hours.
 Raining on 7 days; depth, 3.205 inches; duration of fall, 64.2 hours.
 Mean of cloudiness=0.73; most cloudy hour observed; 8 a. m., mean=0.78; least
 cloudy hour observed, 10 p. m.; mean=0.67.

Sums of the components of the Atmospheric Current, expressed in Miles.

North.	South.	East.	West.
1183.07	1158.16	1103.82	2986.64

Resultant direction of the wind, N 89° W; Resultant Velocity, 2.51 miles per hour.
 Mean velocity of the wind 6.84 miles per hour.
 Maximum velocity 31.8 miles per hour, from 8 to 9 p. m. on 18th.
 Most windy day 18th—Mean velocity, 17.42 miles per hour.
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