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KG
11365
377

P 16

DIARY
1879.

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KO-11365-37/7

To reduce measures from gauge C, allow 0.011 inches for every eighth of an ounce, and add as follows:

Under	2 ounces	0.000
"	$5\frac{7}{8}$ "	0.001
"	$9\frac{1}{8}$ "	0.002
"	$13\frac{3}{4}$ "	0.003
"	$17\frac{5}{8}$ "	0.004
"	$21\frac{1}{2}$ "	0.005

Ar. co. log. for reduction from gauge C 8.94575

Ar. co. log. for reduction of snow measures

Glass tube	$1\frac{7}{8}$	inches across	inside	9.79770
" "	$1\frac{8}{10}$	"	"	9.83315
" "	$1\frac{13}{16}$	"	"	9.82714

{Names of clouds on Poëy's system}	{Abbreviations used here}
Cumulus	M
Pallio-cumulus	Pm
Fracto-cumulus	Fm
Cirrus	R
Pallio-cirrus	Pr
Cirro-stratus	Rs
Cirro-cumulus	Rm

P is used to denote clouds which may be considered as either Pm or Pr.

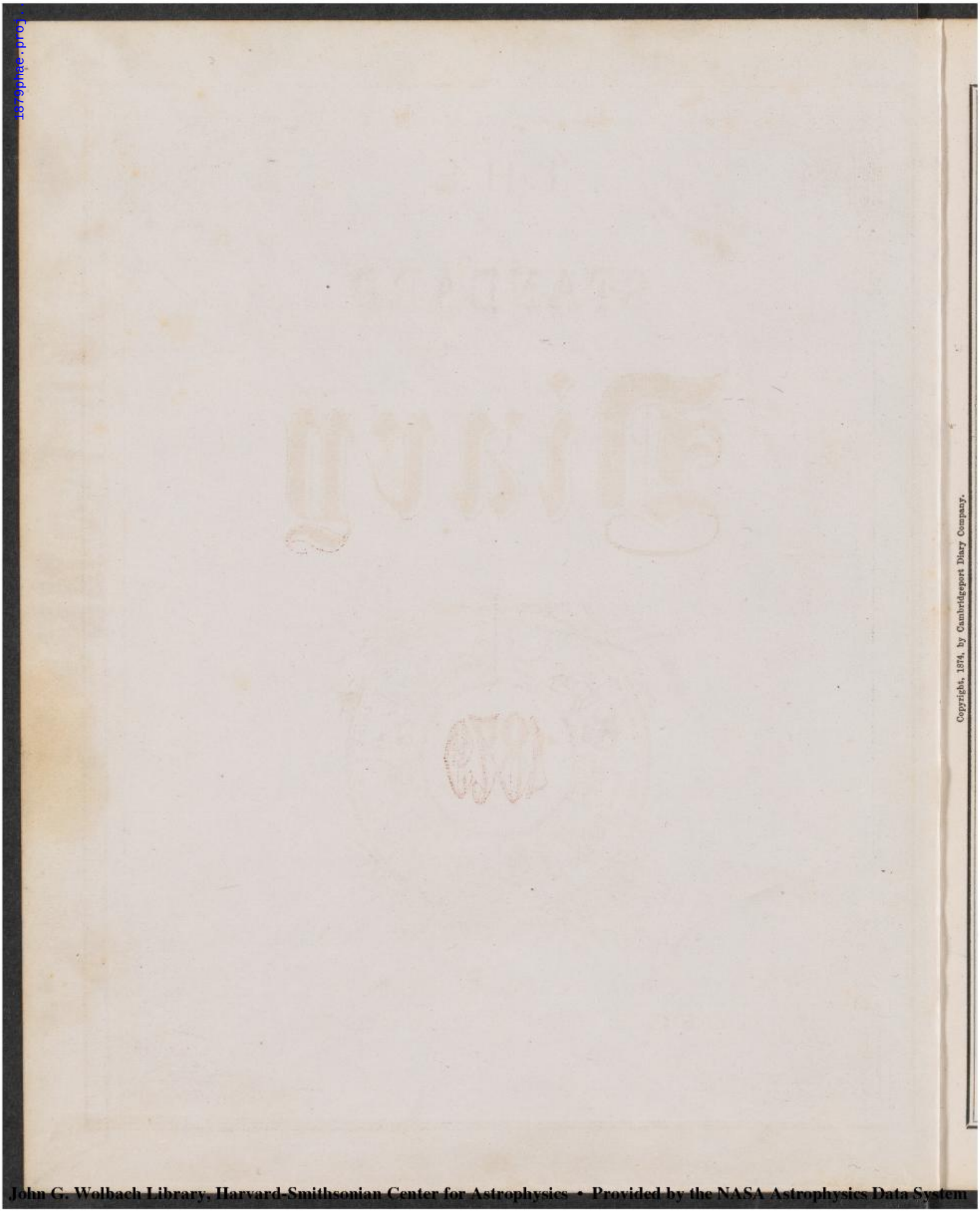
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Two ordinary thermometers by Chas. Wilder, Peterboro N. H are placed, one upon the northern balcony of the dome the other within the dome, in order to determine the relative temperature within the dome and in the outer air. The one outside is designated by the letter A, the other B. They are to be read at convenient times when the dome is opened, usually at 8 P. M. and when the dome is closed. The reading of No. 4 is to be recorded also.

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THE STANDARD Diary



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MAY 3 1956

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Counting-House Almanac for 1879.

	Sund.	Mond.	Tues.	Wedn.	Thurs.	Frid.	Satur.
	...	...	...	...	...	...	...
JANUARY.	...	...	...	1	2	3	4
	5	6	7	8	9	10	11
	12	13	14	15	16	17	18
	19	20	21	22	23	24	25
	26	27	28	29	30	31	...
FEBRUARY.	...	...	...	...	...	...	1
	2	3	4	5	6	7	8
	9	10	11	12	13	14	15
	16	17	18	19	20	21	22
	23	24	25	26	27	28	...
MARCH.	...	...	...	...	...	...	1
	2	3	4	5	6	7	8
	9	10	11	12	13	14	15
	16	17	18	19	20	21	22
	23	24	25	26	27	28	29
	30	31	...	...	...	...	...
APRIL.	...	...	1	2	3	4	5
	6	7	8	9	10	11	12
	13	14	15	16	17	18	19
	20	21	22	23	24	25	26
	27	28	29	30	...	...	...
MAY.	...	...	...	...	1	2	3
	4	5	6	7	8	9	10
	11	12	13	14	15	16	17
	18	19	20	21	22	23	24
	25	26	27	28	29	30	31
	...	...	...	...	...	...	...
JUNE.	1	2	3	4	5	6	7
	8	9	10	11	12	13	14
	15	16	17	18	19	20	21
	22	23	24	25	26	27	28
	29	30	...	...	...	...	...

	Sund.	Mond.	Tues.	Wedn.	Thurs.	Frid.	Satur.
	...	...	...	...	...	...	...
JULY.	...	...	1	2	3	4	5
	6	7	8	9	10	11	12
	13	14	15	16	17	18	19
	20	21	22	23	24	25	26
	27	28	29	30	31	...	...
AUGUST.	...	...	...	...	...	1	2
	3	4	5	6	7	8	9
	10	11	12	13	14	15	16
	17	18	19	20	21	22	23
	24	25	26	27	28	29	30
	31	...	...	...	...	...	...
SEPT'R.	...	1	2	3	4	5	6
	7	8	9	10	11	12	13
	14	15	16	17	18	19	20
	21	22	23	24	25	26	27
	28	29	30	...	...	...	...
OCTOBER.	...	...	...	1	2	3	4
	5	6	7	8	9	10	11
	12	13	14	15	16	17	18
	19	20	21	22	23	24	25
	26	27	28	29	30	31	...
NOVEMBER	...	...	...	...	...	...	1
	2	3	4	5	6	7	8
	9	10	11	12	13	14	15
	16	17	18	19	20	21	22
	23	24	25	26	27	28	29
	30	...	...	...	...	...	...
DECEMBER	...	1	2	3	4	5	6
	7	8	9	10	11	12	13
	14	15	16	17	18	19	20
	21	22	23	24	25	26	27
	28	29	30	31	...	...	...

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On orders not exceeding	$15	. . . .	10	cents.
Over $15 " "	$30	. . . .	15	"
" $30 " "	$40	. . . .	20	"
" $40 " "	$50	. . . .	25	"

When a larger sum than Fifty Dollars is required, additional orders to make it up must be obtained.

INTEREST TABLE.

SEVEN PER CENT.

TIME.		$1	$2	$3	$4	$5	$6	$7	$8	$9	$10	$100	$1000
1	DAY.	0	0	0	0	0	0	0	0	0	0	2	19
2	"	0	0	0	0	0	0	0	0	0	0	4	39
3	"	0	0	0	0	0	0	0	0	1	1	6	58
4	"	0	0	0	0	0	0	1	1	1	1	8	78
5	"	0	0	0	0	0	1	1	1	1	1	10	97
6	"	0	0	0	0	1	1	1	1	1	1	12	1 17
7	"	0	0	0	1	1	1	1	1	1	1	14	1 36
8	"	0	0	0	1	1	1	1	1	1	2	16	1 56
9	"	0	0	1	1	1	1	1	1	2	2	18	1 75
10	"	0	0	1	1	1	1	1	2	2	2	19	1 94
11	"	0	0	1	1	1	1	1	2	2	2	21	2 14
12	"	0	0	1	1	1	1	2	2	2	2	23	2 33
13	"	0	1	1	1	1	2	2	2	2	3	25	2 53
14	"	0	1	1	1	1	2	2	2	2	3	27	2 72
15	"	0	1	1	1	1	2	2	2	3	3	29	2 92
16	"	0	1	1	1	2	2	2	2	3	3	31	3 11
17	"	0	1	1	1	2	2	2	3	3	3	33	3 31
18	"	0	1	1	1	2	2	2	3	3	4	35	3 50
19	"	0	1	1	1	2	2	3	3	3	4	37	3 69
20	"	0	1	1	2	2	2	3	3	4	4	39	3 89
21	"	0	1	1	2	2	2	3	3	4	4	41	4 08
22	"	0	1	1	2	2	3	3	3	4	4	43	4 28
23	"	0	1	1	2	2	3	3	4	4	4	45	4 47
24	"	0	1	1	2	2	3	3	4	4	5	47	4 67
25	"	0	1	1	2	2	3	3	4	4	5	49	4 86
26	"	1	1	2	2	3	3	4	4	5	5	51	5 06
27	"	1	1	2	2	3	3	4	4	5	5	53	5 25
28	"	1	1	2	2	3	3	4	4	5	5	54	5 44
29	"	1	1	2	2	3	3	4	5	5	6	56	5 64
1	MON.	1	1	2	2	3	4	4	5	5	6	58	5 83
2	"	1	2	4	5	6	7	8	9	11	12	1 17	11 67
3	"	2	4	5	7	9	11	12	14	16	18	1 75	17 50
4	"	2	5	7	9	12	14	16	19	21	23	2 33	23 33
5	"	3	6	9	12	15	18	20	23	26	29	2 92	29 17
6	"	4	7	11	14	18	21	25	28	32	35	3 50	35 00
7	"	4	8	12	16	20	25	29	33	37	41	4 08	40 83
8	"	5	9	14	19	23	28	33	37	42	47	4 67	46 67
9	"	5	11	16	21	26	32	37	42	47	53	5 25	52 50
10	"	6	12	18	23	29	35	41	47	53	58	5 83	58 33
11	"	6	13	19	26	32	39	45	51	58	64	6 42	64 17
1	YEAR.	7	14	21	28	35	42	49	56	63	70	7 00	70 00

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WEDNESDAY, JANUARY 1, 1879.

	8		2		8	
Bar.	30.060		29.978		29.912	
Att. therm.	26.0		35.8		32.2	
Psych., dry & wet	16.8	16.3	28.9	25.4	26.8	24.6
No. 4	17.1		29.9		27.7	
6.3235 (wet)	17.0		26.3		26.3	
Hour., must & wet	29.9	18.8				
Min., — " —	13.8	16.6				
Snow, oz. & inch.	0					
Aurora					Cloudy	
Zod. light					Cloudy	
Wind	1 SW		1 SW		0 SW	
Clouds	6 P Rs 7m —		6 P 7m		10 P 7m ↗	

Faint lunar halo about 10 P.M.

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THURSDAY, JANUARY 2, 1879.

	8	2	8
Bar.	29.583	29.222	29.149
Att. therm.	30.4	31.1	32.7
Psychr.; dry & wet	21.8 21.8	32.6 32.7	17.5 17.6
No. 4	22.7	33.2	18.3
C. 3235 (wet)	22.4	33.0	17.9
Max., wet & dry	29.9 23.6		
Min. — —	16.6 21.8		
Gauge, 9. Inch.	0		
Aurora			Cloudy
Zod. light			Cloudy
Wind	0 N	1 ESE	10 NW
Clouds	10 P snowing	10 P snowing	9 P fm →

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FRIDAY, JANUARY 3, 1879.

8	8	2	8
Bar.	29.184	29.028	28.982
Att. Therm.	24.4	25.2	22.9
Psych. dry & wet.	Below graduation	Blowground. 11.8	14.0 12.6
No. 4	3.9	12.8	14.7
C. 3235 (wet).	3.8	12.8	13.2
Mass; moist & set.	33.1 7.3		
Mass — " —.	3.5 3.5		
Gauge, 24 inches.	× Cleared out		
Aurora.			Cloudy
Zod. light			Cloudy
Wind	11 WSW	10 W	9 W
Clouds	0	6 Pm in S Haze in N.	10 P.m.

× Snow measured in 10 places.

4
1 1/2
4 1/2
4 1/2
5 1/2
3 1/2
2 1/2
2
3 1/2

8.5 inches deep,
12 inches in cylinder 1 7/8 inches across weight 2 1/4 ounces.
Hence rainfall to 1 inch of snow 0.1111 inches; total rainfall 0.389 inches.

At 9.00 P.M.
No. 4 = 14.5
A 14.5
B 17.5
Windows in dome as well as shutters open during this evening.

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SATURDAY, JANUARY 4, 1879.

	8	2	8
Bar.	29.018	29.215	29.393
Att. Therm.	22.1	36.5	27.7
Psych; dry therm.	14.7 13.2	21.7 19.1	23.2 21.1
No. H	15.0	22.2	23.7
C-3235 (wet)	13.7	20.0	21.7
Max; musc. ther.	16.3 16.3		
Min; — " —	3.1 14.5		
gauge, gz nicht. Aurora.	0		
Zod. light.			Cloudy Cloudy
Wind.	7 WNW	6 WNW	3 W
Clouds	10 Pn Rs	4 R Rs 7m	10 Pn

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SUNDAY, JANUARY 5, 1879.

	8	2	8
Bar.	29,553	29,548	29,564
Att. Therm.	26.0	43.3	29.0
Psych; dry & wet	16.7 15.2	27.7 24.4	20.5 19.2
~~Max; wet & sch.~~ No 4	17.2	28,3	21,1
Min; —— " (wet) C. 3235	16.7	25.3	20,0
Max; wet & sch.	24,3 18.4		
Min; — " —.	14.2 16.6		
Gauge, ozonich.	0		
Aurora			Moonlight
Zod. light.			Moonlight
Wind.	1 W	3 NW	3 W
Clouds	0 Rs	0 7m	0

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MONDAY, JANUARY 6, 1879.

	8	2	8
Bar.	29.708	29.783	29.900
Att. Therm.	25.7	40.2	26.1
Psych; dry & wet.	12.7 12.4	20.0 17.7	12.7 11.9
No. 4	13.2	20.5	13.2
C. 3235 (wet)	12.8	18.2	12.2
Max; max & wet.	28.4 15.2		
Min, — " —	12.2 12.3		
Gauge, 0.7 inches	0		
Aurora.			
Zod. light.			Moonlight & clouds
			Moonlight & clouds
Wind	0 W	5 NW	2 NW
Clouds	0	1 Pc	3 Pc 7m 1

P.M.	No. 4	A	B
8	13.2	13	1.9
9.30	12.0	12	18.5

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TUESDAY, JANUARY 7, 1879.

	8	2	8
Bar.	30.132	30.150	30.144
Att. Therm.	23.2	35.0	28.7
Psych, dry + wet.	Below graduations	21.6 19.3	19.7 18.6
No. 4	7.9	22.3	20.4
C. 3235 (wet)	8.1	20.0	19.8
Max; maxet + ret.	21.0 10.0		
Min; — " — .	6.9 7.3		
Gauge, g + wicks	0		
Aurora.			
Zod. light.			Cloudy
			Cloudy
Mid	1 NW	2 NW	0 W
Clouds	0	3 R Rs	10 R Rs

No. 4 A B

8 P.M 20.4 20.5 22.5

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WEDNESDAY, JANUARY 8, 1879.

	8	2	8
Bar.	29.938	29.848	29.854
Att. Therm.	28.1	32.2	32.8
Psych; dry wet.	28.1 25.7	34.9 32.7	30.8 30.9
No. H.	28.4	35.9	31.4
C. 3235 (wet).	26.3	33.4	30.9
Max; max & set.	28.7 28.9		
Min; — " —	7.3 28.0		
Gauge, 2 inches	0		
Aurora.			
Ind. light.			Cloudy Cloudy
wind.	7 SW	3 SW	3 SW
Clouds.	10 R	10 P	10 P

A little snow 8 to 9 A.M. & after 2 P.M.

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THURSDAY, JANUARY 9, 1879.

	8		2		8	
Bar.	29.767		29.560		29.222	
Att. therm.	32.6		33.3		33.8	
Psychr., dry bulb	32.8	32.2	32.1	32.1	32.5	32.7
No. 4	32.8		32.9		33.3	
C.3235 (wet)	33.0		32.9		33.5	
Max., wet bulb	37.4	32.8				
Min., " "	27.4	32.0				
Gauge oz., Inch.	0	0.044				
Aurora						
Zod. light					Cloudy	
					Cloudy	
Wind	0 calm		1 ENE		4 NE	
Clouds	10 P; snowing		10 P; snowing		10 P; snowing	

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FRIDAY, JANUARY 10, 1879.

	8		2		8	
Bar.	29.904		30.141		30.262	
Att. therm.	27.8		43.9		30.2	
Psychr., dry & wet	17.0	15.9	21.4	18.6	15.9	15.2
No. 4	17.7		21.9		16.7	
Le. 3235 (wet)	16.2		19.1		15.9	
Max., unset & set	33.8	19.5				
Min., — " —	16.2	17.3				
Gauge, oz. & inch.	See snow measure ×					
Aurora						
Zod. light					Moonlight Suspected (moonlight)	
Wind	5 NW		5 WNW		2 WSW	
Clouds	0		0		0	

	No. 4	A	B
8 P.M.	16.7	15.0	25.5 +
10.15	14.0	12.5	25.5

× Snow measured at 1½ P.M. New snow not readily distinguishable from old; estimated depth of new snow 2½, 4½, 4½, 4, 4; mean 3.9 inches; 13½ inches of new snow in cylinder 1⅞ inches across weigh 4¾ oz; gauge cleared out.

Hence rainfall to 1 inch of snow 0.2208 inches; total rainfall 0.8861 inches. It would be of no advantage in point of accuracy to subtract yesterday's measure 0.0444 from this total, as it cannot be known whether the estimated depth of new snow covers the snow of yesterday morning.

* Shutters only partly opened and ~~two~~ window down shut.

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SATURDAY, JANUARY 11, 1879.

	8	2	8 1/4
Bar	30,271	30.187	30.193
Att. Therm.	26.0	28.9	29.7
Psych; Dryw.	12.3 12.5	26.6 23.7	22.6 22.4
Mott,	12.9	27.3	23.6
C. 3235 (wet	12.8	24.7	23.0
Max, wet-bulb	23.0 14.8		
Min; —+—+—	8.9 12.1		
Gauge, 0 reads	0		
Aurora			
Zod. light			
			Cloudy
			Cloudy
Wind	0 SW	2 WSW	0 SW
Clouds.	10 R	10 R	10 R; a little snow

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SUNDAY, JANUARY 12, 1879.

	8	2	8
Bar.	30.217	30.130	30.067
Att. Therm	27.0	31.6	30.0
Psych; dry wet	11.0 12.0	26.7 24.9	16.9 17.4
No. 4	12.1	27.8	17.8
C. 3235 (wet)	12.4	25.5	17.8
Max; max wet	27.7 14.0		
Min; —— ·· —	11.2 11.2		
Gauge, Ozmidin	0 1/8 0.011		
Aurora			
Zodiacal light			Now Distinct; vertex 1/2 way from Saturn to α Arietis
Wind	0 NW	1 NW	0 N
Clouds	5 Pr Rs	8P 7m Fm	0 P Rs
Solar halo at 8 A.M.			
Some concentration of light at highest point. Fragment of an exterior ring, colored; red inside. Too indefinite for satisfactory measurement with diopter; radius of inner ring about 13, of outer about 26.			A 16.2 B 23.5 } 8h A 16 B 22 } 9h

Hence radius of inner ring about 22°.5
" " outer " " 48°.7

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1879phae.proj...378

MONDAY, JANUARY 13, 1879.

	8	2	5
Bar.	29.962	29.838	29.812
Att. Therm.	26.5	29.7	31.5
Kew Obs. Dry Ther.	17.6 17.7	33.0 31.4	27.5 26.5
No. 4	18,3	34.1	28.0
C. 3235 (Mel).	18.5	31.6	27.0
Max; unsheltered	27.8 19.2		
Min; — " —.	10.4 17.8		
Sang. ozt. Aurora	0		None
Zod. light			Distinct; as yesterday
Wind	0 NE	5 SW	2 SW
Clouds	10 R	10 P 7m /	0 P

	No. 4	A	B
8 P.M.	28.0	26.5	26.5
10 P.M.	27.5	27.0	27.0

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1879phae.proj...378

TUESDAY, JANUARY 14, 1879.

	8	2	8
Bar.	29.793	29.768	29.846
Att. Therm.	30.1	33.6	35.0
Psych, dry & wet.	23.0 23.0	34.4 30.7	29.4 27.4
No 4	23.7	35.0	30.4
C. 3235 (Mot)	23.6	32.7	29.1
Max; mer & sch.	34.2 24.5		
Min; — " —	17.4 23.0		
Gauge, ozone & ether	0		
Aurora			
Zod. light.			None; some clouds & cloudy
Wind.	1 W	3 NW	0 calm
Clouds.	9 Pa Rs Fm	7 P Fm →	9 P

* Zod. light seen among clouds about 6½ P.M.

	No. 4	A	B
8.55 P.M	30.5	30.5	30.5

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1879phae.proj...378

WEDNESDAY, JANUARY 15, 1879.

	8	2	8
Bar.	30.149	30.278	30.334
Att. Therm.	26.7	21.0	23.6
Psych: dry-wet.	Below graduations	Below graduations	Below graduations
No. 4	5.6	8.8	3.7
C. 3235 (wet).	4.9	6.9	3.0
Max; max-wet.	35.1 8.3		
Min; — .. —.	4.9 4.9		
Gauge; ozone			
Aurora.			Cloudy
Zod light			Cloudy
Mid clouds	3 NNW 0 P_2 R_5	3 NW 6 P_2 R_5 7_{fm}	2 NW 9 P

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THURSDAY, JANUARY 16, 1879.

	8	2	8
Bar.	30.050	29.674	29.866
Att. Therm.	21.0	20.0	20.8
Psych; dry + wet.	Below graduations	12.7 13.8	11.7 11.8.
No. 4.	2.8.	13.3	11,8
C. 3235 (wet).	3.8	13.6	12,0
Max; wet + sch	10.0 6.0		
Min; — " —	1.8 2.3		
Gauge; or. mich.	×		
Aurora			
Zod. light			
			None Visible through Phaze
Wind	3 N	7 NNE	7 NNW
Clouds	10 P; snowing	10 Pa; snowing	3 Phaze

× About 1½ inches of snow had fallen before 6 A.M.

No. 4 + B

9.40 11.5 11.5 14.5

Shutters W & E windows open since 8 P.M.

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1879phae.proj...378

FRIDAY, JANUARY 17, 1879.

	8	2	8
Bar.	30.261	30.236	30.176
Att. Therm.	22.3	31.6	28.0
Psych; dry & wet.	Below graduations	23.7 21.9	20.3 20.2
No. 4.	10.2	24.8	21.0
C. 3235 (wet).	11.0	22.8	20.8
Max; unset & set.	14.0 12.0		
Min; — " —.	2.3 9.7		
Gauge, oz.; inches	* See snow memo		
Aurora			
Zod. light.			Cloudy
			Cloudy
Wind	0 SW	1 SW	0 calm
Clouds.	2 P Rs Fm \	5 Pz Rs	9 P.

* Snow measured about 5 P.M. as follows:
Depths in 10 places 6, 5½, 4, 10, 5, 9, 10, 9, 9, 9;
mean 7.65 inches above crust, and assumed
to be new; of this 1.5 fell before 8 A.M. Jan. 16;
24 inches in cylinder 1⅞ inches across weight 3 3/8 ounces;
hence rainfall to 1 inch of snow 0.08826 inches;
rainfall to 8 A.M. Jan. 16 0.132 inches;
" " 8 A.M. Jan. 17 0.543 "

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1879phae.proj...378

SATURDAY, JANUARY 18, 1879.

	8.	2.	8
Barometer	29.673	29.614	29.760
Att. Therm.	29.2	42.7	34.7
Psych, dry & wet.	32.2 32.3	36.0 32.9	29.3 25.9
No. 4.	32.7	36.7	29.0
C. 3235 (wet)	32.8	33.8	26.5
Max; sunset reth.	32.3 32.2		
Min; — " —	9.0 32.1		
Gauge, oz rucher	0		
Aurora.			None
Zod. light			Distinct; vertex ½ way from Saturn to α Arietis.
Wind	1 S	6 W	2 S.W
Clouds	10 P; snowing	1 Fm	0 haze.

Began snowing about 7½ A.M.; soon ceased.

8h	A	28.0
	B	28.5
10h	A	26.0
	B	28.0
No. 4		27.0

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SUNDAY, JANUARY 19, 1879.

	8	2	8
Bar.	29.786	29.727	29.662
Att. Therm.	28.2	39.9	31.8
Psych: dry & wet.	15.0 15.2	30.0 26.9	17.4 17.8
No. 4	15.4	30.8	18.6
C. 3235 (mrk).	15.6	28.1	18.2
Max; unmt & sch.	37.0 16.8		
Min; —"—	14.2 15.0		
Gauge, ozruches.	0 1/8 0.011		
Aurora			None
Zod. light			*Visible among clouds & haze
Wind	0 W	0 SW	0 NW
Clouds	1 Pi Rs	2 Pi Rs Fm	1 P haze

*Zod. light distinct 6 to 7 P.M.

10h A 15
B 22.5
No. 4 15.5

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1879phae.proj...378

MONDAY, JANUARY 20, 1879.

	6		2		8
Bar.	29.558		29.595		29.718
Att. Therm.	27.8		30.5		24.0
Psych. Dry thrmt.	18.6	18.6	21.4	27.0	Below graduations
No. 4	19.0		22.4		10.0
C. 3235 (mtly).	18.8		21.2		9.0
Max. minus reach.	30.7	20.3			
Min. — " —	13.9	18.3			
Gauge, oz. inches	*0 3/4				
Aurora					None
Zod. light.					Distinct; vertex 1/2 way from Saturn to α Arietis
Wind	5 N		4 N		3 N W
Clouds	10 P 7m		10 P, snowing		0
					No. 4 A B +
			10 P.M.		8.0 8.0 19.5

* At 10 A.M. gauge examined. New snow measured in 5 places previously; depth in 3 places 1/2, in 2, 1 5/8 inches; mean 1.550 inches; 13 inches in cylinder 1 7/8 inches across weigh 1 3/11 ounces; hence rainfall to 1 inch of snow 0.0845 inches; total rainfall 0.131 inches; this measure preferred to that by gauge C, as there was enough wind to blow light snow out of this gauge.

+ Shutters open during evening but windows shut.

10 h 1/2 d 8
15 19.5 16 4.8.

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1879phae.proj...378

TUESDAY, JANUARY 21, 1879.

	8	D	8
Bar.	29.888	29.925	29.848
Att. Therm.	19.6	31.8	26.8
Psych. dry & wet.	Below graduation	13.8 11.4	14.8 13.9
No. H	0.5	14.1	15.3
C (3235 (Mb)	0.9	11.7	14.6
Max. since last	23.2 3.0		
Min. — " —	—1.1 —0.1		
Gauge, 3. inches	0 1/8 0.011		
Aurora			
Zod. light			Cloudy Cloudy
Wind	1 W	0 SW	1 SW
Clouds	9 Pr Rs	8 R Rs	10 P

A little snow after 8 P.M.

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1879phae.proj..378

WEDNESDAY, JANUARY 22, 1879.

	8	2	8
Bar.	29.685	29.846	29.998
Att. Therm.	26.6	33.9	33.3
Psych. dry + wet.	28.7 27.2	36.3 31.7	29.8 27.9
No. 4	29.0	37.2	30.2
C. 3235 (wet)	28.1	32.3	29.0
Max. max + set	29.0 29.0		
Min — " —	−0.5 28.8		
Gauge, Zenith	0 1/4 0.022		
Aurora			
Zod. light			Cloudy
			Cloudy
Wind	2 SW	4 W.	0 W
Clouds	9 P Cm —	10 P Rs	8 P haze

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THURSDAY, JANUARY 23, 1879.

	8	2½	8
Bar.	29.745	29.731	30.026
Att. Therm	31.6	34.0	33.7
Psych; Dry-wet.	27.5 27.9	35.0 34.4	27.0 24.4
No. 4	28.2	35.8	27.7
C.B.235 (mbl)	29.1	35.0	25.0
Max, min Ther.	38.0 28.5		
Min — " —	20.2 27.3		
Gauge, 2 Inches	0		
Aurora			None
Zod. light.			As on Jan. 20
Wind	0 calm	1 W	4 WNW
Clouds	10 P fog	10 P 7m →	0
			10 P.M.
			No. 4 23.7
			A 22.5
			B 25.0

Shutters open
but windows
shut

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1879phae.proj...378

FRIDAY, JANUARY 24, 1879.

	8	2	8
Barometer	30.223	30.100	29.961
Att. Therm.	29.5	39.0	36.3
Psych. Dry thermt.	18.9 18.6	34.2 29.5	29.5 28.7
No. 4	19.1	34.8	30.0
C. 3235. (Wet)	19.0	Sent to Baltimore	
Max; maxt & set.	39.5 20.3		
Min; —— " ——	17.6 18.6		
Gauge, & inches	0		
Aurora			
Zod. light			Cloudy Cloudy
Wind	1 SW	6 SSW	4 S
Clouds	9 Pn Rs Fm —	1 P Rs	10 P
			A 30.5 B 30.5

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1879phae.proj...378

SATURDAY, JANUARY 25, 1879.

	8		2		8	
Bar.	29.671		29.469		29.381	
Att. Therm.	34.8		40.7		40.4	
Psych: dry therm.	29.8	27.9	42.6	37.5	37.8	32.8
No. 4.	30.2		43.2		38.5	
C. 3235 (wet)						
Max: min: wet therm.	35.0	30.7				
Min: — " —	18.5	29.9				
Gauge, ozones	0					
Aurora.						
Zod. light.					None Visible; some moonlight	
Wind.	2 SW		3 SW		8 SW	
Clouds	1 P Ro Lay.		7 P Fm →		0	

High wind in the evening & following night.

9½ P.M.
A 33
B 36
No. 4 35

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1879phae.proj...378

SUNDAY, JANUARY 26, 1879.

	8	2	8
Bar.	30.121	30.189	30.296
Att. therm.	19.4	21.8	17.5
Psychr., dry & wet	Below graduations	Below graduations	Below graduations
No. 4 6.3235 (wet)	3.7	9.7	4.9
Max., unset & set	43.0 6.3		
Min., — " —	3.2 3.2		
Gauge, oz. & inch.	0		
Aurora			
Zod. light			Moonlight
			Moonlight
Wind	10 NW	8 NW	6 NW
Clouds	0	0 7m	0 Rs

9½ P.M.
B 14
No. 4 H

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1879phae.proj...378

MONDAY, JANUARY 27, 1879.

	8	2	8
Bar.	30.213	29.898	29.760
Att. therm.	21.3	25.0	28.8
Psychr., dry bulb	Below graduations	27.7 25.9	34.0 32.4
No. 4 C. 3235 (wet)	11.5	28.6	34.8
Max., wet bulb	12.3 13.0		
Min., " "	1.4 10.9		
Gauge, 3. Inch.	0		
Aurora			Cloudy
Zod. light			Cloudy
Wind	2 SSE	1 SW	5 SW
Clouds	10 P; fair	10 P; a few drops of rain	10 P; some rain

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1879phae.proj...378

TUESDAY, JANUARY 28, 1879.

	8	2	8
Bar.	29.774	29.764	29.910
Att. therm.	32.4	38.0	40.6
Psychr., dry bulb	36.7	49.0	42.2
	36.0	45.3	39.3
No. 4	37.2	49.5	42.7
C. 3235 (wet)			
Max., wet bulb	37.3		
	36.8		
Min., "	10.9		
	36.6		
Gauge, sq. inch.	*0 3/8		
	0.033		
Aurora			cloudy
Zod. light			cloudy
Wind	0 S	6 W	1 SW
Clouds	10 P; a little rain.	9 Pm Fm →	10 Pm Fm →

* Ice; left in bottle.

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1879phae.proj:.378

WEDNESDAY, JANUARY 29, 1879.

	8	2	8
Bar.	30.098	30.096	30.114
Att. therm.	35.7	39.6	34.5
Psychr, dry & wet	31.6 28.3	29.0 26.7	18.2 16.2
No. 4	32.3	29.5	19.0
6.3235 (wet)			
Max., unset last	50.5 32.5		
Min., —"—	31.1 31.7		
Gauge, 0.1 inch.	+0 1/8 0.011		
Aurora			Moonlight
Zod. light			Moonlight
Wind	5 N	6 NW	4 NW
Clouds	4 Bri 7 m	0	0

+ Additional to 0 3/8 yesterday.

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1879phae.proj...378

THURSDAY, JANUARY 30, 1879.

	8	2	8
Bar.	30.060	29.982	29.986
Att. therm.	26.0	31.8	32.5
Psychr., dry & wet	Below graduations	27.0 22.8	23.7 21.2
No. 4 C. 3235 (wet)	10.1	27.7	24.4
Max., wet & dry	32.6 11.9		
Min., " "	8.4 9.7		
Gauge, 0.5 inch.	0		
Aurora			Moonlight
Zod. light			Moonlight
Wind	1 NW	5 N	1 W
Clouds	0	0 Rs 7m	0

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1879phae.proj:378

FRIDAY, JANUARY 31, 1879.

	8	2	8
Bar.	29.742	29.596	29.540
Att. therm.	29.0	36.3	36.8
Psychr., dry & wet	25.4 24.5	35.7 30.7	29.1 27.2
No. 4	25.5	36.3	29.7
6.3235 (wet)			
Max., unst. set	29.6 26.3		
Min., — " —	9.7 25.2		
Gauge, 0.5 inch.	0		
Aurora			
Zod. light			Moonlight
			Moonlight
Wind	0 W	4 WNW	0 SW
Clouds	8 P 7m →	1 M 7m →	0

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1879phae.proj...378

SATURDAY, FEBRUARY 1, 1879.

	8	2	8
Bar.	29.483	29.399	29.397
Att. Therm.	34.1	33.4	29.3
Psych; dry + wet.	20.2 19.2	23.8 21.7	12.8 11.8
No. 4, 6 32 35 Wet.	20.4	24.3	13.5
Max; max + sct.	36.2 21.8		
Min; — " —	18.5 19.9		
Gauge, oz. Rucker	0		
Aurora.			
Ind. light			Moonlight Selenids Moonlight
Mixed Clouds.	3 NW 9 P 7m →	7 NW 3 M 7m →	6 NW 1 P 7m...

A few snowflakes last night.

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1879phae.proj.378

SUNDAY, FEBRUARY 2, 1879.

	8	2	8
Bar.	29.259	29.269	29.424
Att. Therm.	21.6	26.8	27.9
Psych; dry & wet	13.5 12.9	27.2 24.0	23.3 21.6
Noon	14.0	27.8	23.8
C 3235 (wet).			
Max; sunset	25.2 15.8		
Min; —"—	8.3 13.3		
Gauge, 2 inches	0		
Aurora.			
Zod. light.			Moonlight
			Moonlight
Mist	6 NW	6 NW	8 NW
Clouds.	10 P 7m	10 P Ro	2 R 7m

Lunar halo 7 to 7½ P.M.
Measured with dioptra; inside 2 3/4, outside 26¼. (43°.6 and 49°.3)
Subsequently a bright lunar corona, with full spectrum.

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1879phae.proj...378

MONDAY, FEBRUARY 3, 1879.

	8.	2	8
Bar.	29.580	29.511	29.544
Att. Therm.	26.7	33.9	33.8
Psych; dry & wet	20.3 19.4	33.0 28.4	28.4 25.5
No. 4	20.7	33.6	28.8
C. 3235 (wet)			
Max; wet & dry	28.0 21.7		
Min; — " —	13.4 20.1		
Gauge, q & nicks	0		
Aurora			
Zod. light.			Cloudy
			Cloudy
Wind.	2 WNW	6 NW	1 WNW
Clouds	0 Rs 7m	0 Rs 7m	q P 7m →

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1879phae.proj...378

TUESDAY, FEBRUARY 4, 1879.

	8:	2	8
Bar.	29.661	29.721	29.829
Att. Therm.	30.6	36.0	34.0
Psych; dry & wet.	26.4 23.6	31.8 27.2	26.6 24.0
No. 4.	26.8	32.3	27.2
C. 3235 (wet).			
Max; minst & det.	☿33.7 27.2		
Min; — " —	20.1 26.3		
gauge, 0.rubber	0		
Aurora.			Moonlight
Zod. light.			Moonlight
Wind.	5 NW	6 NW	2 NW
Clouds	4P Fm ↘	0 Fm	0

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WEDNESDAY, FEBRUARY 5, 1879.

	8.	2.	8.
Bar.	29.850	29.749	29.637
Att. Therm.	29.4	32.5	33.6
Psych; dry wet.	19.9 19.7	31.8 27.9	26.9 27.0
M.H.	20.1	33.0	27.8
C. 3235 (wet)			
Max; max Therm.	32.7 21.6		
Min, — " —	17.9 19.8		
Gauge, 3 inches	0		
Aurora:			
Zod. light.			
			Cloudy
			Cloudy
Wind.	0 SW	2 SW	0 calm
Clouds.	10 P 7m →	10 P	10 P; snowing

Snow after 2 P.M.

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1879phae.proj:378

THURSDAY, FEBRUARY 6, 1879.

	8	2	8
Bar.	29.719	29.764	29.809
Att. Therm.	31.8	35.7	35.3
Psych, dry work.	23.4 23.6	31.9 29.0	28.3 26.1
No. 4 (C. 3235 (Nat)	23.9	32.8	29.0
Max; minthread.	33.3 24.9		
Min; — " —	19.7 23.3		
Gauge, 2 inches	1 7/8 (See snow measure)		
Aurora			Cloudy
Lod. light.			Cloudy
Wind	0 NW	0 W	0 calm
Clouds	5 P Rs 7m →	5 Pr Rs 7m	10 Rm 7m ↑

New snow 2 5/8 inches deep, pretty uniform.
Rec 15 inches in cylinder 1 7/8 inches across with 2 1/4 ounces.
Hence rainfall to 1 inch of snow 0.0941 inches;
total rainfall 0.247 inches. This measure preferred
to that by gauge C.

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1879phae.proj...378

FRIDAY, FEBRUARY 7, 1879.

	8	2	8
Bar.	29.950	29.962	30.065
Att. therm.	29.0	34.7	35.3
Psychr. dry & wet	17.2 17.2	31.0 26.9	26.4 23.5
No. 4, 6.3235 (wet)	17.4	31.7	26.8
Max., wet & dry	33.9 19.0		
Min. — " —	15.9 16.9		
Gauge, 0.5 inch	0		
Aurora			
Zod. light			Moonlight
			Moonlight
Wind	1 NW	4 WNW	1 W
Clouds	0 Fair	0 Fair	0

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1879phae.proj.378

SATURDAY, FEBRUARY 8, 1879.

	8	2	8
Bar.	30.221	30.216	30.297
Att. Therm.	29.1	33.0	32.8
Psych; dry/wet	19.7 18.4	26.5 22.1	17.8 16.4
Noon C. 3235 (mrt)	19.9	27.1	18.8
Max; minsetreet	33.6 21.8		
Min; —"—	16.8 19.3		
Gauge, g+nicker	0		
Aurora.			
Zod. light			Moonlight * Moonlight
Wind.	4 WNW	5 NNW	1 W
Clouds	0 P 7m	0 Rs 7m	0 P

*Distinct at 7 P.M.

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1879phae.proj...378

SUNDAY, FEBRUARY 9, 1879.

	8	2	8
Bar.	30.054	29.814	30.000
Att. Therm	26.0	29.7	30.8
Psych; dry wet.	20.0 19.5	32.3 29.4	22,8 20,0
No 4 C.3235 (wet)	19.8	33.0	23,5
Max; wet set.	27.3 21,4		
Min; — " —	6.7 19.7		
gauge; 2 inches	0		
Aurora			None
Zod. light.			Distinct to Axis
Wind.	1 S	9 W	8 W
Clouds.	10 R	5 P M 7m 7m→	0

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1879phae.proj...378

MONDAY, FEBRUARY 10, 1879.

	8	2	8
Bar.	30.371	30.344	~~27~~
Att. therm	24.9	27.3	
Psych., dry & wet	Below graduation	19.0 15.9	
No. 4 6.3235 (wet)	8.6	19.7	
Max., wet & dry	33.4 10.7		
Min., " "	7.1 8.1		
Gauge, 0.2 inch	0 1/4 0.022		
Aurora			
Zod. light			
Wind	4 NW	2 NW	
Clouds	2 Pr Rs	0	

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1879phae.proj...378

TUESDAY, FEBRUARY 11, 1879.

	8	2	8 1/4
Bar.	30.117	29.951	29.800
Att. therm.	29.1	36.1	37.7
Psychr., dry & wet	33.0 31.0	45.8 41.9	42.1 41.1
No. 4 C.3235 (wet)	33.5	46.3	42.8
Max., unst & set	33.3 33.2		
Min., — .. —	8.0 33.0		
Gauge, oz. & inch.	0		
Aurora			
Zod. light			
			Cloudy
			Cloudy
Wind	10 SW	5 SSW	10 SSW
Clouds	8 R Rn 7m → Fog	8 P 7m	10 P, a little rain

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1879phae.proj...378

WEDNESDAY, FEBRUARY 12, 1879.

	8	2	8
Bar.	29.194	29.126	29.380
Att. therm.	40.7	41.3	36.9
Psychr., dry & wet	42.8 43.2	40.4 37.2	30.7 26.9
No. 4	43.8	41.0	31.3
6.3235 (wet)			
Max., unst & wet	49.0 42.8		
Min., — " —	33.2 43.0		
Gauge, oz. & inch.	10½ 0.927		
Aurora			None
Zod. light			Distinct to Aries
Wind	5 S	6 W	5 WSW
Clouds	10 P raining.	10 Pm M 7m →	0

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1879phae.proj...378

THURSDAY, FEBRUARY 13, 1879.

	8	2	8
Bar.	29.625	29.682	29.850
Att. therm.	33.3	35.6	33.0
Psychs., dry & wet	26.0 23.9	30.0 26.8	22.7 19.5
No. 4 C. 3235 (wet)	26.1	30.6	23.3
Max., unwet & wet	45.0 27.0		
Min., —"—	24.3 26.0		
Gauge, oz. & inch.	1 0.088		
Aurora			None; some clouds
Tod. light			{Somewhat visible among clouds}
Wind	1 W	8 W	9 W
Clouds	0 Pr 7m	10 P 7m →	5 P

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1879phae.proj:378

FRIDAY, FEBRUARY 14, 1879.

	8	2	8
Bar.	30.017	29.950	30.069
Att. therm.	20.5	27.4	28.0
Psychr. dry & wet	12.0 10.9	18.8 15.7	13.8 13.0
No. 4	12.3	19.4	14.2
6.3235 (wet)			
Max., mast Sat	31.6 14.0		
Min. — " —	11.2 11.8		
Gauge, oz. & inch.	0		
Aurora			None
Zod. light			Distinct to Aries
Wind	2 NW	4 W	2 NW
Clouds	1 PRS 7m	1 M 7m	0

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1879phae.proj...378

SATURDAY, FEBRUARY 15, 1879.

	8	2	8
Bar.	30.233	30.250	30.300
Att. Therm.	22.4	26.3	25.8
Psych; Dry & wet.	Below graduation	18.4 15.3	15.3 13.4
No 4.	8.6	18.8	15.9
C. 3235 (wet)			
Max; must & wet	23.2 11.0		
Min; — " —	7.2 8.1		
Gauge, oz & inches	0		
Aurora			
Zod. light			Now Distinct to Aries
Wind	5 WSW	4 WNW	0 W
Clouds	0	0 Fm	0

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1879phae.proj...378

SUNDAY, FEBRUARY 16, 1879.

	8	2	8
Bar.	30.333	30.295	30.325
Att. Therm.	out of sight; assumed 15.0	29.9	34.3
Psych; Dry Wet.	11.0 10.5	30.4 25.2	28.0 25.6
No. H	10.9	30.8	28.7
C. (3235/1881)			
Max; max Wet	20.4 12.5		
Min; — " —	8.1 10.7		
Gauge, oz. inches	0		
Aurora			
Zod. light			
Wind	1 SW	5 W	2 SW
Clouds	0 Ci Cs	0	9 P

Cloudy
Cloudy

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1879phae.proj...378

MONDAY, FEBRUARY 17, 1879.

	8	2	8
Bar.	30.361	30.273	30.177
Att. Therm.	25.4	29.0	31.3
Psych: dry therm.	21.7 20.7	32.0 29.6	28.9 29.0
Wet.	22.3	32.8	29.5
C. 3235 (mt)			
Max; max set + set	32.9 22.9		
Min; — " —	10.5 21.5		
Gauge, oz + inches	0		
Aurora.			
Zod. light			Cloudy Cloudy
Wind	2 N	4 ENE	7 NE
Clouds	10 PRS 7m /	10 P 7m	10 P 7m

Began Snowing about 2½ P.M.

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1879phae.proj...378

TUESDAY, FEBRUARY 18, 1879.

	8		2		8	
Bar.	29.934		29.980		30.141	
Att. Therm.	29.6		29.4		28.6	
Psych; dry & wet	19.9	20.2	22.1	22.0	18.6	18.6
No. 4	20.5		22.8		19.4	
C. 3235 (wet)						
Max; unset & set.	33.3	21.4				
Min; — " —	19.5	19.9				
Gauge & rain						
Aurora.						
Zod. light.						
					cloudy	
					cloudy	
mist	8 NE		7 N		5 N	
Clouds.	10 P; snowing.		10 P; a little snow		10 P	

Snow measured 4 P.M. about 4½ P.M.

4
4
3
2
3
3
3½
3½
4½
3
3,55

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1879phae.proj...378

WEDNESDAY, FEBRUARY 19, 1879.

	8	2	8
Bar.	30.293	30.283	30.251
Att. Therm.	out of sight; estimate 15.0	24.3	27.6
Psych; dry wet	Below graduation	20.4 19.6	18.0 18.3
No. 4 C. 3235 (wet)	8.0	21.7	18.8
Max; ~~wet~~ wet.	23.2 10.0		
Min; —"—	6.2 7.3		
Gauge; Z nuchea Aurora			Cloudy
Zod. light			Cloudy
Wind.	3 N	3 N	2 N
Clouds.	10 P; snowing	10 P; snowing	10 P

8 A.M. Little snow fallen for 24 hours past, but some snowflakes falling most of the time.

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1879phae.proj...378

THURSDAY, FEBRUARY 20, 1879.

	8		2		8	
Bar.	29.970		29.766		29.732	
Att. Therm.	26.4		28.7		28.8	
Psych; dry + wet.	16.7	17.3	28.6	28.6	15.6	16.2
No. 4, C. 3235 (Wet).	17.3		29.2		16.3	
Max; max + wet.	22.0	18.6				
Min; — " —	7.4	16.6				
Gauge; sq. inches						
Aurora.						
Zod. light					Cloudy	Cloudy
Wind	6 N		8 ENE		8 NE	
Clouds.	10 P; snowing		10 P; snowing		10 P; snowing	

8 A.M. Little snow fell yesterday. Snow falling faster this morning; about 2½ inches of new snow.

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1879phae.proj...378

FRIDAY, FEBRUARY 21, 1879.

	8	2	8
Bar.	29.623	29.626	29.720
Att. Therm.	25.7	27.4	22.7
Psych; dry thrt.	11.7 10.7	17.9 16.0	11.5 10.4
No. 4	12.4	18.4	11.9
C. 3235. (Mt)			
Max; wet thrt	30.1 14.0		
Min; —"—	11.7 11.7		
Gauge, 4 inches			
Aurora.			None
Zod. light			To Aries
Wind	12 NNW	16 NNW	15 NNW
Clouds	10 Rs 7m	0	0

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1879phae.proj...378

SATURDAY, FEBRUARY 22, 1879.

	8	2	8
Bar.	29.840	29.748	29.678
Att. Therm.	19.8	25.0	28.5
Psych; Dry-bulb.	Below graduations	23.8 19.3	20.8 20.7
No. H.	10.9	24.4	21.8
C.3235 (wet).			
Max; max-set	19.2 13.2		
Min; —"—	7.3 10.2		
Gauge, 2 inches	× Cleared out		
Aurora.			Cloudy
Zod. light			Cloudy
Wind	3 WNW	4 WNW	5 SW
Clouds	9 Pr Rs	9 Pr Rs	10 P

* Snow measured 2 P.M.

5
6
7
4
7
8
5
4
4½
7
5.75

18 inches in cylinder
1¾ inches across with 5⅜ ozs.
Gauge cleared out.

Hence rainfall to 1 inch of snow 0.1874 inches;
total rainfall 1.078 inches,
of which about ⅔ fell Feb. 17 and early Feb. 18; the rest Feb. 20.

A little snow about 7 P.M.

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SUNDAY, FEBRUARY 23, 1879.

	8		2		8	
Bar.	29.623		29.5710		29.491	
Att. Therm.	23.9		33.3		34.8	
Psych; dry wet.	20.1	19.9	38.5	32.2	31.8	29.2
No. 4 C. 3235. Met.	20.3		39.0		32.4	
Max; max set rect.	27.2	21.2				
Min; — " — .	10.3	20.0				
Gauge; q. rucher	0 1/4	0.011				
Aurora.					Cloudy	
Zod. light.					Moonlight & clouds.	
Wind	1 SW		3 SW		4 SW	
Clouds.	5 Pi Ro Fm		3 Pi Ro Fm		8 P	

Snow squall about 11 P.M.

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1879phae.proj...378

MONDAY, FEBRUARY 24, 1879.

	8	2	8 9¼
Bar.	29.649	29.669	29.813
Att. Therm.	24.0	29.9	23.9
Psych; dry bulb	16.9 14.8	20.7 17.5	13.8 12.4
No. 4.	17.5	21.2	14.2
C. 3235 (Mott).			
Max; wet bulb	39.0 20.0		
Min; — —	16.0 16.8		
Gauge, 24 inches	0⅛ 0.011		
Aurora.			None
Zod. light			None; some moonlight
Wind	2 W	5 W	1 SW
Clouds.	0 Fair	3 Rs M Fm →	0
		10.30	
		No. 4	12.8
		A	12.0
		B	22.0

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1879phae.proj...378

TUESDAY, FEBRUARY 25, 1879.

	8	2	9 7/4
Bar.	30.029	30.042	29.952
Att. Therm.	out of sight, estimate 15.0	24.6	27.2
Psych; dry bulb.	Below graduation	20.5 17.9	23.2 23.7
No. H.	10.0	20.9	23.7
C. 32 35. (wet)			
Max; unset reset.	24.0 11.4		
Min; — .. —	6.0 9.3		
Gauge; ozone	0		
Aurora			
Zod. light			Cloudy
			Cloudy
Wind	0 calm	3 ESE	3 E
Clouds	10 P 7m →	10 P	10 P; snowing

Began snowing about 3 P.M.

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1879phae.proj...378

WEDNESDAY, FEBRUARY 26, 1879.

	8	2	8
Bar.	29,828	29,718	29,726
Att. Therm.	28,2	32.5	41.3
Psych; Dry bulb.	22,4 23.1	47.9 45.5	46.0 46.2
No. 4	23.1	48.3	46.6
C. 3235 (Wet).			
Max; sunset 2 ret.	29,8 24.0		
Min; —— " ——	9,3 22.2		
Gauge, 3 inches.	3½ (see Snow measures)		
Aurora.			
Zod. light			Cloudy Cloudy
Wind	1 N	7 S	10 S
Clouds	10 P fog	4 P 7m	10 P

Snow measured about 10 A.M. This measure preferred to that by gauge C

1/4	15½ inches in cylinder
3½	
3½	1 7/8 inches water weigh
3½	3 5/8 ounces
3 3/4	Hence rainfall to 1 inch of snow
4	0.146 inches
3 3/4	total rainfall
4	0.547 inches
3 3/4	
3.725	

Rain in the evening, and a little snow later in the night & next morning.

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1879phae.proj...378

THURSDAY, FEBRUARY 27, 1879.

	8	2	8
Bar.	30.086	30.208	30.384
Att. Therm.	35.3	29.3	22.8
Psych; Dry Therm.	23.5 23.3	23.8 20.7	16.2 14.5
No. 4.	24.0	24.1	16.8
C. 3235. (mt).			
Max, must ther.	48.9 25.0		
Min; —"—	22.2 23.2		
Gauge; of inches	5 5/8 0.496		
Aurora.			
Too light.			Moonlight & clouds
			Moonlight & clouds.
Wind	3 WNW	6 WNW	4 W
Clouds	10 PRs 7m N 7m	0	3 R Rs 7m

10.20 P.M.
No. 4 12.8
A 13.0
B 21.5

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1879phae.proj...378

FRIDAY, FEBRUARY 28, 1879.

	8	2	8
Bar.	30.653	30.659	30.699
Att. Therm.	18.4	26.7	21.5
Psych; dry wet.	Below graduations	15.5 14.3	11.8 11.2
~~Hair~~ Hair Hygr. C.3235 (Wet.)	5.0	16.2	12.5
Max; minset reset.	25.4 7.5		
Min; —"—	4.5 4.5		
Gauge 0.3 inches	0		
Aurora.			Moonlight
Zod. light.			Moonlight
Wind.	5 WNW	4 WNW	1 N
Clouds	5 Pr Rs	5 PM 7m/	0

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1879phae.proj...378

SATURDAY, MARCH 1, 1879.

	8	2	8
Bar.	30.630	30.444 8	30.340
Att. Therm.	21.8	29.6	32.0
Psych; Dry wet.	12.5 11.8	30.8 27.5	26.8 25.5
No. 4 C. 3235. (wet)	13.2	31.6	27.3
Max; minset wet	17.6 15.0		
Min; — .. —	4.3 12.2		
Gauge, of inches	0		
Aurora.			Cloudy
Zod. light			Cloudy
Wind	2 NE	2 S	4 SW
Clouds	10 P 7m ↙	3 R Rs 7m ↑	10 P 7m ↗

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1879phae.proj...378

SUNDAY, MARCH 2, 1879.

	8	2	8
Bar.	30.358	30.394	30.401
Att. Therm.	30.0	33.3	33.0
Psych; dry & wet.	*27.8 *24.2	30.9 25.9	28.5 24.6
Ht.	*28.4	31.7	29.0
C.3235 (mt)			
Max; max set read.	*32.2 *28.4		
Min; —— ,, ——	*12.2 *27.6		
Gauge, eq. inches	0		
Aurora.			
Zod. light.			Cloudy
			Cloudy
Wind	5 NW	3 N	0 calm
Clouds.	1 PRs 7m	1 PRs 7m →	10 P

* At 8¼ A.M.

Lunar halo about 7½ P.M. measured with diopter; inside diameter 23¼, 23¼ (42°.5), outside 25½ (47°.6) ^; inside again 23½ (43°.0) ^; halo becoming indistinct at last measure.

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1879phae.proj...378

MONDAY, MARCH 3, 1879.

	8	2	8
Bar.	30.524	30.577	30.585
Att. Therm.	30.0	36.8	33.4
Psych; dry wet.	23.5 21.2	32.9 28.9	27.0 25.4
No H	23.7	33.5	27.7
C 3235 (Wet)			
Max; wet dry	32.6 25.0		
Min; — " —	21.7 23.2		
Gauge 22 inches	0		
Aurora:			
Twi. light			Moonlight
			Moonlight
Wind	3 NNE	3 E	2 ESE
Clouds	3 Prs Fm	0	0 Rs
			A 27.0
			B 32.5

Small fragment of solar halo at 8 AM.

9.45 No. 4 26.0
A 25
B 31

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1879phae.proj...378

TUESDAY, MARCH 4, 1879.

	8	2	8
Bar.	30.455	30.222	30.087
Att. Therm	28.2	36.0	37.5
Psych, dry mt.	27.3 26.8	41.6 38.6	40.6 40.1
Nsh	27.7	42.7	41.4
C. 3235 (Wsh)			
Max; mucl tact	33.8 28.8		
Min; —"—	20.1 27.0		
Gauge, ozmicha	0		
Aurora.			
Tod. light.			Cloudy
			Cloudy
Wind	3 SSW	8 SW	6 SW
Clouds	10 P	9 CiRs 7m→	10 P 7m 11

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1879phae.proj...378

WEDNESDAY, MARCH 5, 1879.

	8	2	8
Bar.	30.183	30.271	30.481
att Therm.	37.6	46.0	31.0
Psych; Dry & Wet)	37.8 34.9	39.0 33.3	21.9 19.5
No. 4.	37.8	39.8	22.8
C. 3235 (Wet).			
Max; max't + ret.	43.7 38.6		
Min; — " —	27.0 37.3		
Gauge, 3 inches	0		
Aurora			
Zod. light.			Moonlight Moonlight
Wind	2 WSW	8 NNW	6 NNW
Clouds	0 Rs	3 Pn Fm →	0

10.45

No. 4 17.5

A 18.0

B 24.5

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1879phae.proj...378

THURSDAY, MARCH 6, 1879.

	8 1/4	2	8
Bar.	30.482	30.250	29.900
Att. Therm.	37.0	29.8	31.0
Psych; dry twet)	16.4 15.6	22.8 22.8	28.1 28.1
No. 4.	16.8	23.8	28.7
C. 3235 (wet)			
Max; mercury	44.6 18.1		
Min; — " —	11.5 16.1		
Gauge, z on the Aurora	0		
Zod. light			Cloudy
			Cloudy
Wind	2 NNE	0 S	2 S
Clouds	10 R R 7m	10 P snowing	10 P; snowing

Began snowing about 10 A.M.

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1879phae.proj...378

FRIDAY, MARCH 7, 1879.

	8	2	8
Bar.	29.754	29.880	30.110
Att Therm.	31.7	34.8	27.9
Psych; dry & wet	31.0 29.2	30.2 26.6	18.6 17.0
No. 4	31.6	30.8	19.3
C. 32 35 (wet).			
Max; wet & dry	33.0 31.8		
Min; —"—	15.9 31.1		
Gauge, 2 inches	2½ X 0.221		
Aurora.			Moonlight
Zod. light			Moonlight
Wind	5 NW	11 NNW	7 NW
Clouds	1 Pcu Fm	5 R R Fm	10 Fm

8 A.M. *

Snow measured in 3 places; 2½ inches in each. 13½ inches in cylinder 17 inches across weigh 3½ ounces.

Hence rainfall to 1 inch of snow 0.1627 inches; total rainfall 0.366 inches. This measure preferred to that by gauge C

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1879phae.proj...878

SATURDAY, MARCH 8, 1879.

	8	2	8
Bar.	30.298	30.279	30.283
Att. Therm	26.0	32.4	32.0
Psych; dry wet.	16.9 16.1	29.3 24.7	24.2 22.8
No. 4, C3235 (wet).	17.4	29.5	24.9
Max; metrach.	33.2 18.9		
Min; — " —	13.2 16.7		
Gauge, oz & inches	0		
Aurora.			
Zod. light			Moonlight
			Moonlight
Wind	3 NW	2 NW	0 calm
Clouds	9 PRs	0	0 PRs

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1879phae.proj...378

SUNDAY, MARCH 9, 1879.

	8	2	8 6½
Bar.	30.262	30.138	30.102
Att. Therm.	30.3	33.0	34.7
Psych; dry thrmt.	×28.8 ×28.1	35.4 33.6	32.5 31.8
No 4	×29.3	36.9	33.3
C. 3235 (mst)			
Max; rise street	×31.1 ×30.1		
Min; — " —	×16.6 ×28.8		
Gauge 0 ⅝ inches	0 5/8 0.055		
Aurora.			
Zod. light			Twilight and Zodiacal Light
Wind	0 SSE	1 S	2 SE
Clouds	10 P	10 P 7m	2 P.Rs. 7m

×Att 8½ A.M.

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1879phae.proj..378

MONDAY, MARCH 10, 1879.

	8	21	8
Bar.	29.999	29.982	30.010
Att. Therm.	34.0	40.4	46.4
Psych; dry & wet	34.1 34.5	48.0 45.8	43.4 41.6
No. 4.	34.8	48.2	44.4
C. 3235 (wet).			
Max; max. wet	36.8 34.5		
Min; —"—	28.9 34.1		
Gauge, 3 inches	0 4/4 0.022		
Aurora.			None
Zod. light			*To the Pleiades
Wind	0 S	0 W	0 calm
Clouds	10 P fog	0	0
			10 P.M.
			No. 4 40°
			4 39
			B 41

*Cone rather well defined, narrow; wholly within ~~α~~ β Arietis on the northern and γ Ceti on the southern side.

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1879phae.proj...378

TUESDAY, MARCH 11, 1879.

	8	2	8
Bar.	29.780	29.649	29.768
Att. Therm.	39.0	43.9	46.0
Psych; dry rect	40.5 40.6	54.0 49.4	40.4 34.1
No 4	41.0	54.6	40.9
C. 3235 (mt)			
Max; max rect	52.3 40.6		
Min; — " —	32.6 40.4		
Gauge, 3 inches	0 1/4 0.022		
Aurora.			None
Zod. light.			As yesterday
Wind	0 SW	3 WSW	5 SW
Clouds	10 P Fm /; a little rain	H R Rs Fm —	0

10 P.M.

No.4 36.0
A 36.5
B 41.0

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1879phae.proj...378

WEDNESDAY, MARCH 12, 1879.

	8	2 1/4	8
Bar.	29.930	29.953	30.058
Att. Therm.	35.0	40.0	39.5
Psych. Dry Bulb	32.1	39.3	34.5
Wet	28.5	32.7	30.7
No. H.	32.5	39.8	35.1
C. 3235 (wet)			
Max; max. Ther.	55.0	33.3	
Min; — " —	29.4	32.1	
Gauge, gr. inches	0 1/8	0.011	
Aurora.			
Zod. light			
			Cloudy
			Cloudy
Wind	2 W	7 W	1 W
Clouds	5 R Pm Fm	4 M Fm	9 P

10.20 P.m

No. 4 31.0

A 30.5

B 37.5

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1879phae.proj,,378

THURSDAY, MARCH 13, 1879

	8	2	8
Bar,	30.109	29.932	29.868
Att. Therm.	32.0	38.0	41.1
Psych, dry wet	29.0 26.7	41.6 36.4	39.6 37.2
No. 4.	29.7	42.1	40.4
C. 3235 (mit)			
Max, wet wet.	40.4 30.0		
Min, — 1.—	25.2 28.9		
Jupe, 3 Nucleus	0		
Aurora.			None
Zod. light			To the Pleiades
Wind	1 SW	6 SW	4 SW.
Cloud	10 P	9 PRS 7m →	1 P haze
			11 P.M
		No. 4	37.8
		A	37.5
		B	39.5

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1879phae.proj...378

FRIDAY, MARCH 14, 1879.

	8	2	8
Bar	29.958	29.800	29.612
Att. Therm.	37.7	42.1	42.6
Psych; Dynamt.	32.9 32.7	42.4 40.8	39.4 39.8
No 4.	33.6	42.9	40.4
C.3235 (wet)			
Max; minimum	43.3 34.0		
Min; ——	28.8 33.0		
gauge, 3 inches	0		
Aurora.			
Zod. light			
			cloudy
			cloudy
Wind	0 N	3 E	0 calm
Clouds	10 P fog	10 P fm	10 P fog; a little rain.

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1879phae.proj...378

SATURDAY, MARCH 15, 1879.

	8	2	8
Bar.	29.709	29.759	29.938
Att. Therm.	38.8	41.8	40.4
Psych; dry rad.	31.6 27.4	38.5 31.8	29.5 24.7
No. 4.	32.2	39.1	30.2
⊙ 3235 (rad).			
Ht.			
Max; max rad	43.2 34.0		
Min, — ", —	31.2 31.5		
gauge, grun chas	1 5/8 0.143		
Aurora.			None
Zod. light			To the Pleiades
Wind	4 W	6 W	3 NW
Clouds	0 7m	3 M 7m →	0

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1879phae.proj...378

SUNDAY, MARCH 16, 1879.

	8	2	8
Bar.	30.098	30.046	30.111
Att. Therm.	33.5	38.0	37.0
Psych; Dryw. Wet.	25.3 22.6	36.6 30.9	30.3 26.3
Mo H. C. 3 = 35 (Wet)	25.7	37.6	31.1
Max; min. Therm.	40.1 27.3		
Min; — ... —	21.7 25.1		
Gang; ozonic. Aurora Tot. Sol. Light	0		None Cloudy
Wind	2 SW	5 SW	3 N
Clouds	5 Pm 7m /	9 Pm M 7m —	9 P

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1879phae.proj...378

MONDAY, MARCH 17, 1879.

	8	3¾	8
Bar.	29.973	29.650	29.731
Att. Therm.	34.8	36.1	36.7
Psych: dry & wet.	30.3 30.9	34.0 34.3	33.3 33.6
Mt.	30.9	35.0	34.1
C. 32 = 5(mt)			
Max; max read	38.5 31.7	34.8 34.8	
Min; — ,, —	25.0 30.2	34.1 34.1	
Gauge, oz, inches			
Aurora			
Rod. light			Cloudy Cloudy
Wind Clouds.	7 "E" 10P; snowing	0 calm 10 P; fog, raining	0 calm 10 P fog raining

× Snow about 2 inches deep at 8 A.M. Ceased snowing towards noon.

Gauge at 1 P.M. 3⅛ ounces;
Snow measured 3, 4, 3½, 3½, 3½; mean 3.5 inches.
15 inches in cylinder 1⅞ inches across weigh 4¼ ounces;
hence rainfall to 1 inch of snow 0.1778 inches;
total rainfall 0.622 inches; this measure preferred to that by the gauge.

Thermometers compared today; see memoranda at end of book.

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1879phae.proj...378

TUESDAY, MARCH 18, 1879.

	8	2	8
Bar.	29.951	29.962	30.017
Att Therm.	29.0	33.0	32.2
Psych; dry vert.	21.7 20.5	30.6 25.9	26.4 23.3
No. 4	22.3	31.1	26.8
C. 3 235 (mst)			
Max; max trck	35.0 23.5		
Min; — " —	21.4 21.4		
Gauge, gmelin	3 1/8 0.276		
Aurora.			None
Zod. light.			To the Pleiades
Wind	4 NNW	5 NNW	0 N
Clouds	6 Pc Rm 7 mo	1 Pc	0
			10.50 P.M.
			No. 4 22.8
			A 21.0
			B 32.0

Rain yesterday afternoon & a little snow before morning.

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1879phae.proj...378

WEDNESDAY, MARCH 19, 1879.

	8	2	8
Bar.	30.098	30.056	30.102
Att. Therm.	29.3	35.8	32.9
Psychrometer.	19.7 18.5	34.6 28.3	27.7 24.2
No 4. C. 32 35 (wet).	19.7	35.0	Lately in clock room; not exposed.
Max. min. Therm.	31.5 21.3		
Min; — " —	14.2 19.4		
Gauge, of inches	0		
Aurora.			None
Zod. Light			To the Pleiades
Wind	2 NNW	2 W	0 calm
Clouds	0 Rs	6 P 7m —	0

10 35 P.M.

No 4	23.5
A	21.5
B	29.0

A few snowflakes during the day.

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1879phae.proj...378

THURSDAY, MARCH 20, 1879.

	8	2	8
Bar.	30.122	30.109	30.152
Att. Therm.	30.8	38.8	38.9
Psych. Dry Bulb.	27.3 25.7	38.5 31.7	32.9 28.8
No 4. C. 3235 (Wet)	27.7	39.2	33.8
Max. — " —	35.2 28.3		
Min. — " —	19.5 27.2		
Gauge, ozones	0		
Aurora			
Zod. light			Cloudy Cloudy
Wind	2 SW	5 W	0 Calm
Clouds	1 P R haze	5 M Fm —	9 P haze

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1879phae.proj...378

FRIDAY, MARCH 21, 1879.

	8	2	8
Bar.	29.982	29.808	29.943
Att. Therm.	37.2	37.7	37.9
Psych; dry rest.	33.1 32.9	34.0 34.3	33.2 32.8
Mean	33.6	34.9	33.8
C. 3235 (crust)			
Max; rise & set.	34.3 34.4		
Min; — " —	27.0 33.2		
Gauge, 9 inches	+1 3/4 0.121		
Aurora.			
Zod. light			cloudy
			† cloudy.
Wind	4 SE	3 N	0 calm
Clouds	10 P; snowing	10 P mist	5 P.

* Gauge examined at 12¼ P.M. Snow changing to rain with light northeast wind. Too little snow on ground for measurement except by gauge.

† To the Pleiades at 8¼ P.M.

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1879phae.proj...878

SATURDAY, MARCH 22, 1879.

	8	2	8
Bar.	30.312	30.247	29.999
Att. Therm.	34.0	39.0	38.8
Psychr, dry bulb.	28.8	34.5	32.3
wet	25.4	29.6	32.6
Min.	29.0	35.0	33.1
C. 3235	30.0	35.6	33.6
Max, grass thermr	35.0	29.6	
Min, — .. —	24.3	28.6	
gauge, 07 inches	0 1/8	0.011	
Aurora.			Cloudy
Zod. light			Cloudy
Wind	0 calm	5 E	6 E
Clouds	2 P Rs.	9 P 7m /	10 P raining

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1879phae.proj...378

SUNDAY, MARCH 23, 1879.

	8	2	8
Bar.	29.798	~~29.778~~	29.996
Att. Therm.	36.1	~~42.0~~	40.0
Psych; Dynust.	30.0 29.8		36.3 34.4
No. 4	30.2		36.9
C. 3235 (Mrkt)			
Mag, unadjusted	37.5 30.2		
Unc — " —	28.5 29.9		
Gauge; oz. inches	10¼ 0.904		
Aurora.			
Zod. light.			
			cloudy
			cloudy
Wind	3 N		2 WNW
Clouds	10 P 7m		10 P
	raining		

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1879phae.proj...378

MONDAY, MARCH 24, 1879.

	8	2	8
Bar.	30.151	30.062	30.027
Att. Therm.	35.3	40.5	40.6
Psych; dry + wet.	29.4 27.3	38.9 36.7	33.9 32.5
Hoh,	30.3	39.6	34.7
O. 3235 (wet)			
Max; unsettled	39.5 30.3		
Min; — " —	26.6 29.5		
Gauge, ozone & aurora.	1 0.088		
Zod light			Cloudy Cloudy
Wind	2 N	4 SE	6 S
Clouds.	10 Pm 7m	10 P 7m	9 Po 7m

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1879phae.proj...378

TUESDAY, MARCH 25, 1879.

	8	2	8
Bar.	29.927	29.887	29.940
Att. Therm.	37.8	42.8	42.0
Psych; Dry rad.	37.4 36.9	46.8 40.8	37.9 34.7
No. 4 C. 3235 (Wet)	37.8	47.5	38.6
Max, unset reet.	42.0 37.8		
Min. — " —	29.4 37.1		
Gauge, of inches	0		
Aurora.			
Mod. light			Cloudy Cloudy
Wind	1 SW	3 WNW	7 NNW
Clouds	10 P Fm /	10 PmM Fm —	10 P.

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1879phae.proj...378

WEDNESDAY, MARCH 26, 1879.

	8	2	8.
Bar.	30,080	30.106	30.118
Att Therm.	38.3	41.3	39.2
Psych; dry wet.	31.3 29.7	39.6 36.0	33.3 32.4
M.H.	31.8	39.9	34.1
C.3235 (Met)			
Mare; mischief	47.6 32.3		
Mung — " —	30.2 31.2		
Gauge; 7 inches	0		
Aurora			Hazy
2nd. light			Hazy
Mid	2 NW	3 ESE	2 S.S.E.
Clouds	10 P; moving	9 PM 7m →	9 Haze

10.20 P.M

No.4 32.0

A 31.0

B 35.5

Windows open during evening.

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1879phae.proj...378

THURSDAY, MARCH 27, 1879.

	8	2	8
Bar.	30.142	30.069	30.062
Att Therm.	37.8	38.5	39.4
Psych; dry rust.	33.8 33.6	36.0 36.2	36.6 36.4
No. 4. C. 3235 (Wet)	34.2	36.7	37.3
Max; max & min	41.6 35.3		
Min; — " —	31.2 34.0		
Gauge, & inches	0 1/4 0.022		
Aurora.			
Zod. light			
			Cloudy
			Cloudy
Wind	3 ESE	7 E	4 E
Clouds.	10 P; snowing	10 P; raining	10 P; raining

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1879phae.proj...378

FRIDAY, MARCH 28, 1879.

	8	2	8
Bar.	30.099	30.098	30.086
Att. Therm.	37.6	37.3	38.2
Psych; dry + wet.	32.7 32.6	34.0 33.0	34.5 34.1
No. 4 (-3 2 3 Wet)	33.2	34.4	35.1
Max; min Terr	37.0 33.0		
Min; — " —	32.4 33.0		
Gauge, q. inches	12 7/8 1.136		
Aurora.			Cloudy
Zod. light			Cloudy
Wind	9 NNE	9 NNE	2 N
Clouds	10 P mist	10 P	10 P

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1879phae.proj...378

SATURDAY, MARCH 29, 1879.

	8	2	8
Bar.	29.856	29.675	29.550
Att. Therm.	37.8	39.8	41.1
Psych; dry mat.	35.8 35.4	37.9 37.6	38.1 38.0
Wet	36.4	38.6	38.6
C.3235 (illegible)		39.0	39.2
Max; mustard	36.5 36.5		
Min, — " —	32.4 36.0		
Gauge, 0 grades	0		
Aurora			
Zod. light			Cloudy Cloudy
Wind	1 ESE	2 ESE.	1 E
Clouds	10 P fog	10 P	10 P

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1879phae.proj.:378

SUNDAY, MARCH 30, 1879.

	8	2	8
Bar.	29,250	~~29~~	29,369
Att Therm	39,6		44,6
Psych; dry + wet.	35,5 36,0		41,3 38,8
Wet.	36,1		41,9
C. 3235 (wet)			
Max; muse + wet.	40,8 36,3		
Min; — " —	35,2 35,4		
Gauge; ozt nickers	2 1/4 0,199		
Aurora.			Cloudy
Zod. light			Cloudy
Wind	1 NNW		1 NNW
Clouds	10 P; raining		9 Pm 7m ↘

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1879phae.proj...878

MONDAY, MARCH 31, 1879.

	8		2		8	
Bar.	29.306		29.052		28.904	
Att. Therm	39.0		38.0		36.2	
Psych; dry & wet.	33.9	31.1	31.3	30.8	25.6	25.7
No. 4	34.3		31.7		26.0	
C. 3235 (wet)						
Max, max. wet	48.0	34.6				
Min, — " —	33.8	34.1				
Gauge, 24 inches	0 1/4	0.022				
Aurora.						Cloudy
Zod. light						Cloudy
Wind	5 N		13 N		18 NW	
Clouds	10 P		10 P; snowing		10 P; snowing	

Began snowing about noon.

At 8 1/4 P.M. barometer same as at 8 P.M.

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1879phae.proj.378

TUESDAY, APRIL 1, 1879.

	8	2	9
Bar.	28.914	28.979	29.180
Att. Therm.	33.0	37.2	40.8
Psych; Dry-wet.	29.7 26.6	39.4 32.9	37.6 31.8
Min.	30.2	40.0	38.3
C. 32 3 5 (Wch).			
Max; max-set-reset	35.0 30.2		
Min; — " —	25.0 29.5		
Gauge, 0 inches	× Cleared out		
Aurora.			Moonlight
Tod. light			Moonlight
Wind	16 NW	13 NW	5 W
Clouds	9 Pm 7m	9P 7m	0

× Snow considerably drifted in some places; ground as much as half bare; no measure possible; by estimate there may have been 1½ inches of snow. 12 inches of this snow in cylinder 1⅞ inches across weigh 3½ ounces; hence rainfall to 1 inch of snow 0.1835 inches; total rainfall about 0.275 inches. Measure made about 10½ A.M.

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1879phae.proj...878

WEDNESDAY, APRIL 2, 1879.

	8	2	8
Bar.	29.367	29.388	29.463
Att. Therm.	38.3	43.6	37.9
Psych; dry & wet.	38.1 33.0	41.9 35.5	32.4 28.5
No 4.	38.5	42.3	33.0
C. 3235 (Mel)			
Max; sunset & set.	38.9 37.8		
Min; — " —	29.1 38.0		
Gauge, 7 inches	0		
Aurora.			
Zod. light			Moonlight and clouds
			Moonlight and clouds
Wind	7 W	5 W	6 W
Clouds	0 7m	6 Pm 7m —	3 Pm 7m —

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1879phae.proj...878

THURSDAY, APRIL 3, 1879

	8	2	8
Bar.	29.467	29.392	29.224
Att Therm.	31.8	41.0	41.7
Psych; Dry bulb	30.1 26.2	45.4 37.8	33.3 33.1
No 4.	30.2	45.9	34.1
C. 3235 (West)			
Max; max thermo set	42.0 31.6		
Min; — " —	26.0 30.0		
Gauge, 0.7 inches	0		
Aurora			
Zod. light			
			Cloudy
			Cloudy
Mid	6 WSW	2 SSW	2 NE
Clouds	0	8 P 7m →	10 P

A little rain and snow in the afternoon.

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1879phae.proj...878

FRIDAY, APRIL 4, 1879.

	8	2	8
Bar.	29.421	29.504	29.678
Att. Therm.	34.7	36.6	36.5
Psych; dry + wet.	22.6 20.6	28.3 24.0	23.8 22.1
No. H. C. 3235	22.8	28.9	24.3
Max; max + act.	46.0 24.3		
Min; — " —	20.0 22.3		
Gauge, 3 + inches	$2\frac{5}{8}$ 0.232		
Aurora			Cloudy
Zod. light			Cloudy
Wind	7 W	6 WSW	4 W
Cloud	6 RR 7m	10 P 7m	10 P

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1879phae.proj...378

SATURDAY, APRIL 5, 1879.

	8	2	8
Bar.	29.778	29.818	29.881
Att. Therm.	31.8	37.5	38.5
Psych; dry wet.	24.0 21.4	33.4 29.0	31.6 28.1
No. 4	24.5	34.1	32.1
C. 32 35		34.1	32.6
Max; max set	30.4 25.3		
Min; — " —	19.7 23.9		
Gauge, 24 inches	0		
Aurora.			
Zod. light.			Cloudy Cloudy
Wind	3 NW	2 NW	2 NW
Clouds	10 Cu	10 P	10 P

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1879phae.proj...378

SUNDAY, APRIL 6, 1879.

	8	2	8
Bar.	29.926	29.881	29.914
Att. Therm.	34.0	41.0	40.6
Psych; Hygrom.	31.0 28.5	43.1 36.7	33.7 30.7
No. 4	31.5	43.9	34.3
C. 3235 (-			
Max; max. ther.	34.7 32.2		
Min; — " —	23.9 31.0		" "
Gauge, 0.7 inches	0		
Aurora.			Moonlight
Zod. light.			Moonlight
Wind	2 NW	3 WSW	1 SW
Clouds	5 P Rs Rm Zm ↘	5 Rs Zm ↘	0 Zm

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1879phae.proj:378

MONDAY, APRIL 7, 1879.

	8	2.	8. 1/4
Bar.	29.750	29.697	29.777
Att. Therm.	36.1	44.0	44.5
Psych; dry + wet.	37.7 35.4	51.4 42.2	39.4 34.6
No. 4	38.3	51.8	39.6
C. 3235			
Max; minst + set	43.8 38.3		
Min; — " —	29.4 37.5		
Gauge, 3 inches	0		
Aurora.			
Zod. light			
			Cloudy
			Cloudy
Wind	2 SW	6 W	3 W.
Clouds	10 P	6 Pr M 7m →	8 Pm 7m
			9.15 P.M.
			No 4 39.2
			A 39.5
			B 40.5

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1879phae.proj..378

TUESDAY, APRIL 8, 1879.

	8.	2 1/4	8
Bar.	29.957	29.983	29.999
Att. Therm.	36.9	42.8	43.0
Psych; dry + wet.	35.9 31.3	44.2 36.0	36.7 32.1
No. 11 C. 3235	36.2	44.6	37.5
Max; max set	51.5 36.6		
Min — " —	32.2 36.0		
Gauge, oz + inches	0		
Aurora.			None.
Tod. light.			To the Northeastward
Wind	6 NW	6 W	0 W
Clouds	0	0	0 Fog

9 P.M.
No. 4 37.7
A 37.5
B 41.5

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1879phae.proj.:378

WEDNESDAY, APRIL 9, 1879.

	8	2	8.30
Bar.	29.940	29.843	29.866
Att. Therm.	38.8	50.8	52.6
Psych; dry wet.	40.0 35.3	57.9 45.8	48.8 41.0
No. 4	40.2	58.2	49.5
C. 3235			
Max; max set-set	45.0 40.2		
Min; —"—	32.2 40.0		
Gauge, & tricities	0		
Aurora.			None
Zod. light			0 Haze
Wind	1 WSW	4 W	3 NE
Clouds	5 P Fm	9 P Rs	0 Haze in horizon
			(W.E)

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1879phae.proj...378

THURSDAY, APRIL 10, 1879.

	8	2	8
Bar.	29.942	29.807	29.602
Att. Therm.	44.3	46.0	43.4
Psych; dry + wet.	38.4 33.3	37.3 34.9	33.9 34.1
No. 4 C. 3235	38.8	37.8	34.8
Max; max'l & set.	58.0 39.7		
Min. — " —	37.0 38.5		
Gauge, 2 + inches	0		
Aurora			
Zod. light			
			Cloudy
			Cloudy
Wind	3 E	6 E	7 NE
Clouds	9 P	10 P	10 P; raining

Rain with snow and sleet at times after 2 P.M.

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1879phae.proj.378

FRIDAY, APRIL 11, 1879.

	8	2	8
Bar.	29.430	29.515	29.648
Att. Therm.	38.2	41.0	41.4
Psych; dry therm.	31.5 30.3	39.7 35.2	35.3 33.8
No. 4 C. 3235 (Earth)	31.7	40.5	36.1
Max; minus rad	41.2 32.0		
Min; — " —	30.3 31.5		
Gauge, 3 tricks	16 1/4 1.434		
Aurora.			
Zod. light			Cloudy Cloudy
Wind	8 N	7 N	2 N
Clouds	10 P	10 P	10 P; raining

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1879phae.proj..378

SATURDAY, APRIL 12, 1879.

	8	2	8
Bar.	29.721	29.736	29.847
Att. Therm.	37.0	41.0	41.6
Psych; Dry therm.	32.4 29.9	41.4 34.9	34.6 31.3
No. 6	32.8	41.8	35.1
C. 3235	33.2	42.1	35.6
Max; max ther	40.1 33.0		
Min; — " —	29.6 32.8		
Gauge, q truche	0 1/4 0.022		
Aurora			None
Zod. light			To the Pleiades
Mist	6 NNW	7 WNW	1 NW
Clouds	0 Rs 7m	10 Rs 7m →	0

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1879phae.proj.:378

SUNDAY, APRIL 13, 1879.

	8	~~2~~ 1¼	8
Bar.	29.924	29.855	29.814
Att. Therm.	37.2	43.8	47.1
Psych; dry & wet.	37.5 32.7	47.3 38.0	45.3 38.4
W.M C. 3235	37.7	47.7	45.6
Max; unset & set	42.6 38.4		
Min; —"—	30.0 37.4		
Gauge, 3 inches	0		
Aurora			Cloudy
Zod. light			Cloudy
Wind	3 W	5 W	2 W
Clouds	0 R Rs	10 P	10 P

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1879phae.proj...378

MONDAY, APRIL 14, 1879.

	8.	2	8
Bar.	29.676	29.650	29.724
Att. Therm.	42.4	51.8	49.8
Psych; dry and wet	42.2 40.4	53.5 44.9	44.0 37.2
No. 4.	42.8	54.3	44.6
C. 3235			
Max; maxet & set.	49.6 42.8		
Min; — " —	37.0 42.2		
Gauge, & rivulets	0		
Aurora			
No S. light			
			None; some clouds Indistinct; & thin Milky Way
Wind	2 W	2 WSW	0 NW
Clouds	10 Pm	2 M 7m —	1 P Rs Cirro
			10.15 PM.
			No 4 42.5
			A 42.0
			B 45.5

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1879phae.proj.:378

TUESDAY, APRIL 15, 1879.

	8	2	8
Bar.	29.774	29.744	29.704
Att. Therm.	42.7	46.5	46.1
Psych: dry & wet	42.4 37.1	43.4 37.2	37.4 36.9
No. 4 C. 3235	42.3	43.7	38.1
Max; max set	55.0 42.7		
Min; — " —	32.4 41.8		
Gauge, ozone	0		
Aurora			
Lod. light			Cloudy
			Cloudy
Wind	1 NE	3 ESE	2 E
Clouds	2 P 7m — Ro haze	10 P	10 P, raining

Rain after 3 P.M.

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1879phae.proj...378

WEDNESDAY, APRIL 16, 1879.

	8	2 1/2	8
Bar.	29.737	29.782	29.875
Att. Therm.	42.7	48.0	49.0
Psych. dry wet.	38.4 38.0	53.0 44.4	44.4 39.4
No. 4.	38.8	53.2	45.0
C. 3235			
Max, moist & wet	46.2 39.0		
Min, — " —	35.7 38.3		
Gauge, ozs inches	3 3/4 0.331		
Aurora.			None
Ind. lights			Cloudy
Wind	1 NW	2 WNW	0 calm
Clouds.	10 P	4 Pm M 7m	1 P Rs haze

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1879phae.proj.378

THURSDAY, APRIL 17, 1879.

	8	2	8
Bar.	29.973	29.942	29.918
Att. Therm.	46.0	45.4	45.8
Psych; Dynamet.	35.5 35.3	41.1 39.1	37.3 37.4
No. 4	36.5	41.5	38.7
C. 3235			
Max; max. street	54.8 37.0		
Min; — " —	36.1 36.2		
Gauge, ozonides	0 3/8 0.033		
Aurora.			
Zod. light			
			Cloudy Cloudy
Wind	1 NE	2 ENE	2 NE
Clouds	10 P; raining	10 Pm M Fm	10 P; raining

Rain at times, with some snowflakes.

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1879phae.proj...378

FRIDAY, APRIL 18, 1879.

	8.	2. ½	8.
Bar.	29.662	29.380	29.270
Att. Therm.	42.1	42.0	40.7
Psych; Dry + wet.	36.1 36.3	36.0 36.0	34.8 34.9
No. 4 C. 3235	37.2	36.7	35.6
Max; max + ret.	43.5 37.0		
Min; —"—	35.4 36.6		
Gauge, oz + inches	9/8 0.805		
Aurora. Zod. light			
Wind	7 NE	13 NE	16 NNE
Clouds	10 P; raining	10 P; fine rain	10 P; fine rain

Rainy, with some snow and sleet at times.

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1879phae.proj.378

SATURDAY, APRIL 19, 1879.

	8	2 1/2	8
Bar.	29.393	29.475	29.578
Att. Therm.	37.6	37.8	38.1
Psych. Dry Bulb	30.3	32.4	32.8
Wet	30.4	32.2	32.8
Max.	30.9	32.9	33.3
Min.	30.8	33.3	34.0
Max. Thermometer	38.8	31.5	
Min. — " —	30.2	30.2	
Gauge, 3 inches	11	0.971	
Aurora			?
Sol. Rad.			Cloudy
Wind	15 N	12 N	0 NW
Clouds.	10 P; snowing	10 P; raining	10 P

Some snow and rain.

? Aurora 9 1/4 P.M.; see memoranda at end of book.

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1879phae.proj...378

SUNDAY, APRIL 20, 1879.

	8	2	8
Bar.	29.726	29.810	29.900
Att. Therm.	37.4	46.0	48.6
Psych; dry and wet	38.9 34.5	51.2 41.7	44.7 38.0
No. 4	39.0	51.7	45.1
C. 3235			
Max; max. & min.	38.41 38.41		
Min; — " —	30.0 39.0		
Gauge, 3 inches	0 7/8 0.077		
Aurora.			†None
Zod. light			†Suspected
Wind	3 NNW	6 NW	1 NW
Clouds	0	0	0

*Distinct later.

†Suspected 9 P.M.

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1879phae.proj.378

MONDAY, APRIL 21, 1879.

	8	2	8
Bar.	30.060	30.057	30.144
Att. Therm.	43.1	50.8	52.0
Psych; dry & wet	48.0 40.3	57.8 44.2	48.4 40.4
Rel H	47.9	58.0	48.8
Max; max set & ret	52.9 47.6		
Min; — " —	35.4 48.0		
Gauge, 24 inches	0		
Aurora			None Suspected
Zod. light			
Wind	4 NW	6 NW	1 NW
Clouds	0 Rs	1 Pc Rs	0
			10 P.M.
			M. 4 46.3
			B 49.0

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1879phae.proj...378

TUESDAY, APRIL 22, 1879.

	8	~~10~~ 2 3/4	8
Bar.	30.270	30.249	30.246
Att. Therm.	45.8	52.2	54.6
Psych; dry mrt.	50.6 42.4	60.0 43.9	52.3 42.1
Noon	50.7	60.4	52.6
Max; min to-day	58.0 50.6		
Min; — " —	38.4 50.2		
Gauge, oz + inches	0		
Aurora			None suspected
Zod. light			
Wind.	3 NNW	6 NNW	0 calm
Clouds.	1 Pa Rs	0 Rs	0 P Rs

10.25
Noon 46.5
B 51.0

Windows not open.

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1879phae.proj...378

WEDNESDAY, APRIL 23, 1879.

	8		2		8 1/4	
Bar.	29.940		29.929		30.156	
Att. Therm.	49.2		53.3		50.9	
Psych; dry rust.	54.9	45.4	57.8	45.6.	48.0	39.7
No. 4.	55.2		58.2		48.6	
Max; moist rect	60.8	54.6				
Min; — " —	45.1	54.5				
Gauge, 24 inches	0					
Aurora					None	
Zod. light					Moonlight	
Wind	3 W		20 NW		40 NW	
Clouds	10 P		1 P Rs 7m		0	

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1879phae.proj...378

THURSDAY, APRIL 24, 1879.

	8	2	8
Bar.	30.297	30.212	30,200
Att. Therm.	44.0	50.7	51.5
Psych; dry + wet.	44.0 36.1	55.6 41,8	46.8 37.8
No. H.	44.3	56.1	47.4
Max; max. + ret	61.6 44.8		
Min; — " —	33.1 44.1		
Gauge, 0.7 inches	0		
Aurora			None; some clouds
Zod. light			Cloudy
Mist	3 N	7 N	1 N.
Clouds.	0	0 Rs 7m	2 P Rs 7m

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1879phae.proj.0378

FRIDAY, APRIL 25, 1879.

	8		2		8	
Bar	30.201		30.100		30.018	
Att. Therm.	47.0		50.7		50.0	
Psych; dry & wet	45.7	41.0	47.2	38.2	45.2	37.6
No 4	46.0		47.7		45.8	
Max; max set.	56.2	45.7				
Min; — " —	39.6	45.2				
Gauge, 9 inches	0					
~~Aurora~~						
Zod. light					Cloudy	
					Cloudy	
Wind						
Mid.	0 SW		5 E		4 SE	
Clouds	10 P 7m		10 P 7m →		10 P 7m →	

A little rain about 10½ P.M.

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1879phae.proj...378

SATURDAY, APRIL 26, 1879.

	8	2	8
Bar.	29.992	30.090	30.147
Att Therm.	46.8	48.3	49.5
Psychs dry & wet.	40.2 38.6	42.1 40.1	39.8 39.3
No. 4	40.7	42.9	40.8
C. 3235	41.0	43.0	41.0
Max. wet & dry	53.8 41.0		
Min. — " —	39.1 40.2		
Gauge, 24 inches	0 3/8 0.033		
Aurora			
Zod. light.			Cloudy
			Cloudy
Wind.	3 ENE	2 E	0 SE
Clouds	10 Pm	10 Pm	8 P 7m

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1879phae.proj...378

SUNDAY, APRIL 27, 1879.

	8	2	8
Bar.	30.200	30.179	30.176
Att. Therm.	45.7	54.0	53.6
Psych; Dry + wet.	48.1 45.2	55.4 48.5	48.8 43.0
M. U	47.2	55.7	49.4
Max: since last call.	46.7 46.7		
Min; — " —	36.6 46.3		
Gauge, oz + inches	0		
Aurora			
Zod. light.			
			cloudy
			cloudy
Wind	1 SW	5 E	3 S
Clouds	7 Pcu Fm 1	5 P R S Fm	10 P

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1879phae.proj...378

MONDAY, APRIL 28, 1879.

	8	2	8
Bar.	30.099	30.002	29.998
Att. Therm.	49.6	54.0	57.3
Psych; dry & wet.	51.9 48.2	71.3 62.2	60.0 57.7
No. 4	52.3	71.7	60.5
Max; sunset & set.	61.6 51.6		
Min; — " —	44.4 51.2		
Gauge, 3 inches Rain	0		
Tod. light.			Cloudy Cloudy
Wind	1 S	3 S	3 S
Clouds.	10 P fog	6 P haze	10 P

Thunder and lightning, with rain, reported during following night.

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1879phae.proj...378

TUESDAY, APRIL 29, 1879.

	8	2 1/2	8
Bar.	30.008	29.957	29.950
Att. Therm.	64.8	58.3	58.2
Psych; dry & wet.	54.7 54.6	65.3 69.1	54.3 53.2
No. 4	55.3	66.2	54.6
Max; maximum feet.	71.4 54.2		
Min; — " —	51.0 54.2		
Gauge, 24 inches	6 1/4 0.552		
Aurora.			
Zod. light.			
			Cloudy
			Cloudy
Wind	3 SW	1 WNW	2 WNW
Clouds.	10 Pm Fm /	10 Pm Fm /	10 P fog

Afternoon rainy.

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1879phae.proj...378

WEDNESDAY, APRIL 30, 1879.

	8	2	8
Bar.	29.756	29.606	29.653
Att. Therm.	54.8	55.2	56.2
Psych: dry thrmt	50.1 50.2	56.3 56.1	56.2 54.4
No. 4	50.6	58.7	56.3
Max; max thrmt.	66.0 50.6		
Min; — " —	49.7 50.0		
Gauge, gr niches	10 0.883		
Aurora			
Zod. light			Moonlight Moonlight
Wind	3 E	6 NW	0 calm
Clouds	10 Pm fog; raining	10 Pm	0 Pm. Rs

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1879phae.proj...378

THURSDAY, MAY 1, 1879.

	8	2½	8
Bar.	29.645	29.628	29.752
Att. Therm.	53.0	58.2	54.9
Psych; Instrust	51.9 47.6	57.4 48.4	47.3 43.0
No. 4.	52.1	58.0	48.0
Max; unsel read	61.0 52.0		
Minj — " —	46.9 51.3		
Gauge, 2 inches	1 7/8 0.165		
Aurora.			
Zod. light.			Moonlight
			Moonlight
Wind	3 W	6 SW	5 SW
Clouds	5 Pm Fm →	5 — Pm M Fm →	0 Pm
			10.30 P.M.
			No. 4 44.0
			B 51.5

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1879phae.proj...378

FRIDAY, MAY 2, 1879.

	8	2	8
Bar.	29.842	29.796	29.824
Att. Therm.	45.8	54.2	55.1
Psych; dry	45.6	57.7	49.0
wet	42.0	49.9	43.6
No. 4	45.8	58.8	49.8
Max; unset	60.0		
wet	46.4		
Min; — " —	36.6		
wet	45.6		
Gauge, 2 inches	0		
Aurora.			
Zod. light			
			Cloudy
			Cloudy
Wind.	2 W	3 SSE	4 NW
Clouds	0 Pm	10 Pm N 7m →	10 Pm 7m

A few drops of rain towards night.

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1879phae.proj...378

SATURDAY, MAY 3, 1879.

	8.	2.	8
Bar.	29.877	29.867	29.910
Att. Therm.	49.7	52.7	53.8
Psych; Dynamet.	45.8 39.9	49.4 42.7	48.5 43.0
No. 4.	46.2	49.5	49.4
C. 3235	46.6	49.9	49.6
Max; nuset tach	59.0 46.9		
Min; — " —	39.9 45.7		
gauge, 3 inches	0		
Aurora.			
Zod. light.			
Wind.	2 WNW	2 NW	0 calm
Clouds	0 Pm M Fm	6 Pm M Fm → R	9 P Fm →

A few drops of rain at times

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1879phae.proj...378

SUNDAY, MAY 4, 1879.

	8	2	8
Bar.	29.920	29.814	29.782
Att. Therm.	48.2	53.8	55.0
Psych; dry rmt.	50.9 45.1	66.8 54.3	51.3 47.5
Mo. rt	50.5	67.3	52.0
Max; moist rsch.	55.1 50.5		
Min; — ,, —	37.4 50.4		
Gauge, 2 inches	0 1/8 0.011		
Aurora			
Zod. light.			Cloudy Cloudy
Wind	3 SW	7 SW	3 S
Clouds	0	8 Pn M 7m →	10 P

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1879phae.proj...378

MONDAY, MAY 5, 1879.

	8	2	8
Bar.	29.675	29.692	29.750
Att. Therm.	53.2	60.2	61.3
Psych; dry rest	58.5 55.3	72.3 58.0	59.9 52.3
No. 4	58.9	72.6	60.5
Max; maxt rest	67.0 57.8		
Min; — " —	50.1 57.9		
Gauge, 0 inches	0		
Aurora			
Zod. light.			Moonlight Moonlight
Mid.	5 W	4 W	3 SW
Clouds	6 P Laza	2 M Fm	0 P Fm

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1879phae.proj...378

TUESDAY, MAY 6, 1879.

	8	2	8
Bar.	29.858	29.855	29.948
Att. Therm.	57.6	64.8	64.3
Porch; Dry rmt.	61.0 55.3	68.3 57.1	57.6 46.3
No 4	61.3	68.9	58.2
Max; maxt rate	72.2 60.4		
Min; —— " ——	52.7 60.4		
Gauge, 2 inches	0 1/8 0.011		
Aurora.			
Zod. light			
			bloudy
			bloudy
Wind.	2 NW	1 SE	3 NW
Clouds.	5 P haze Fm	10 Pm Fm	8 Pm Fm
			(W. U.)

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1879phae.proj...378

WEDNESDAY, MAY 7, 1879.

	8	2	8
Bar.	30.026	30.032	30.114
Att. Therm.	51.6	57.3	58.9
Psych; dry therm.	51.2 43.6	61.9 49.9	54.3 45.8
No. 4	51.8	62.7	54.9
Max; wet therm.	72.3 54.2		
Min; — " —.	42.7 51.3†		
Gauge, 3 inches	0		
Aurora.			bloudy
Prod. light.			bloudy
W.			
Wind	4 NW	2 W	4 NNE
Clouds.	0 Fm in Whor.	4 Fm Rs	7 Pm Rs
	(W.U.)	(W.U.)	(W.U.)

† See note May 8

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1879phae.proj...378

THURSDAY, MAY 8, 1879

	8	2	#9
Bar.	30.234	30.260	30.350
Att. Therm.	53.4	59.8	58.3
Psych; dry & wet.	53.5 47.5	60.8 51.4	49.5 45.8
No. 14 Le. 3235	53.8	Taken away No. 6 = 61.7	No. 6 50.4
Max; maxt & rest.	63.8 54.2		
Min; — " —	42.5 x 53.2		
Gauge, & nucleus.			
Aurora			0
Zod. light			Beyond Venus
Wind.	3 N	2 E by S	1 S
Clouds.	1 Fm Rs	9 Bn Fm	0
	(W.U)	(W.U)	(W.U)

x Forgot to set it yesterday, the reading 51.3 not being made after setting, but from the end of the column of alcohol.

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1879phae.proj...378

FRIDAY, MAY 9, 1879.

	8	2	8
Bar.	30.474	30.497	30.492
Att. Therm.	50.3	59.6	61.1
Psych; dry & wet.	52.9 47.5	62.8 48.3	53.5 46.2
No. 4.	8		
6.3235	53.3	63.3	54.0
Max; max & set	63.8 52.8		
Min; — " —	45.3 52.1		
Gauge, 0 inches	0		
Aurora.			None
Zod. light.			None
Humid.	1 N	4 SE	1 SE
Clouds.	0 haze	0 Phaze	0 Rs Fm

Window out of order and cannot be shut; adjusted at 2 P.M.

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1879phae.proj...378

SATURDAY, MAY 10, 1879.

	8	2	8
Bar.	30.500	30.450	30.396
Att. Therm.	52.6	58.1	59.8
Psych; Dynamet.	55.4 49.0	59.9 48.0	52.3 45.6
No. 14			53.2
6.3235	55.8	60.0	53.1
Max; maret rret,	66.0 54.8		
Min; — " — ,	39.1 54.9		
Gauge, of rnches	0		
Aurora.			None
Zod. light.			None
Wind.	0 NW	3 E	1 S
Clouds.	2 haze	0 Rs haze	0 P Rs

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1879phae.proj.:378

SUNDAY, MAY 11, 1879.

	8	2	8
Bar.	30.350	30.296	30.261
Att. Therm.	52.7	60.3	61.6
Psych; dry thrch.	54.2 47.5	63.7 50.0	52.6 45.4
No. 4.	54.2	64.2	53.1
Max. max. thrch.	63.0 53.7		
Min; — " —	40.8 53.2		
Gauge, of rain	0		
Aurora.			None
Zod. light.			None
Wind.	1 SSW	4 E	5 SE
Clouds.	1 PRs	1 Rs	0 PRs

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1879phae.proj...378

MONDAY, MAY 12, 1879.

	8	2	8
Bar.	30.174	30.121	30.108
Att. Therm.	54.5	62.2	65.2
Psych; dry + wet.	58.5 53.3	78.3 65.7	66.8 60.8
No 4	58.4	79.0	67.3
Max; max + set.	69.0 57.6		
Min; — " —	44.7 57.8		
Gauge, 3 inches	0		
Aurora			
Fred. light			Cloudy
			Cloudy
Wind.	6 SSW	9 SW	7 SW
Clouds.	0 Rs	5 PRs haze	9 PRs 7m

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1879phae.proj...378

TUESDAY, MAY 13, 1879.

	8	2	8
Bar.	30.083	30.050	30.046
Att. Therm.	61.7	67.0	70.1
Psych; dry wash.	66.7 62.4	82.0 70.5	69.8 64.5
Mean	67.3	82.9	70.5
Max; wet sch.	78.2 66.2		
Min; — " —	57.4 66.1		
Gauge, 2 inches	0		
Aurora.			
Zod. light.			Cloudy Cloudy
Wind	3 SW	2 SW	4 SW
Clouds	9 P haze	9 P haze	9 P haze

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1879phae.proj...378

WEDNESDAY, MAY 14, 1879.

	8	2	8
Bar.	30.032	29.969	29.978
Att. Therm.	64.2	69.1	70.4
Psych; dry rust.	67.1 62.7	84.3 66.8	66.4 60.6
No. 4	67.6	84.7	67.3
Max; wet rust.	82.4 66.5		
Min; —"—	60.2 66.2		
Gauge, 3 inches	0		
Aurora.			
Wd. light.			
Wind	3 SW	6 SW	1 SW
Clouds.	7 P haze	5 P Rs haze	1 ...Fm.
			W. U

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1879phae.proj...378

THURSDAY, MAY 15, 1879.

	8.	2. 1/4	8.
Bar.	30.012	29.962	29.997
Att. Therm.	64.0	69.0	69.7
Psych; dry bulb.	67.4 62.8	76.6 65.7	69 64.6
Noon.	67.7	77.0	66.8
Max; max at set.	84.1 66.5		
Min; — " —	57.2 66.6		
Gang, grinches	0		
Aurora.			Twilight
Zod. light.			Twilight
Wind.	2 SW	9 SSW	3 S
Clouds	8 Pn 7m	5 RM 7m	4 P 7m

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1879phae.proj...378

FRIDAY, MAY 16, 1879.

	8	2	8
Bar.	29.975	29.856	29.935
Att. Therm.	66.4	67.8	67.2
Psych; dry + wet.	63.1 61.5	63.7 63.3	66.4 63.9
No. 4	63.4	64.3	67.0
Max; maxset + set.	77.0 63.7		
Min; —— " ——	60.0 63.0		
Gauge, 2 inches.	0 1/2. 0.044		
Aurora.			Cloudy
Zod. light.			Cloudy
Wind.	0 SE	0 calm	6 SW
Clouds	10 P fog	10 P fog; raining	8. P. Fm

Slight showers.

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1879phae.proj...378

SATURDAY, MAY 17, 1879.

	8	2	8
Bar.	30.059	30.050	30.066
Att Therm.	65.7	70.2	72.2
Psych; dry wet.	70.0 66.5	76.6 66.7	69.4 66.0
No. 4.	70.9	77.4	70.4
6.3235	70.1	76.8	70.0
Max; wet bulb	69.3 69.2		
Min; —"—	66.8 69.3		
Gauge; of rain	2 1/8 0.178		
Aurora.			
Zod. light.			
Wind	3 SW	3 NW	4 S
Clouds.	10 Pm M 7m —	9 Pm M 7m —	9 Pm M 7m —

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1879phae.proj...378

SUNDAY, MAY 18, 1879.

	8 1/4	2	8
Bar.	30.110	30.060	30.084
Att. Therm.	67.0	71.3	72.6
Psych; dry + wet.	69.8 66.6	77.1 69.4	67.8 65.3
No. H.	70.6	78.2	68.7
Max; must + set.	78.0 69.0		
Min; — " —	61.8 69.2		
Gauge, 2 inches.	0		
Aurora.			[illegible]
Zod. light.			[illegible]
Wind.	4 SW	6 S	6 SW
Clouds	10 Pm	10 Bm N 7m	8 Pm B 7m

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1879phae.proj...378

MONDAY, MAY 19, 1879.

	8	2	8
Bar.	30.054	29.562	29.961
Att. Therm.	68.0	67.4	67.7
Psych; dry bulb	64.3	64.0	63.4
	63.0	63.5	63.0
No. 4	64.8	64.6	64.0
Max; wet bulb	60.4		
	65.0		
Min; — " —	64.2		
	64.7		
Gauge, 24 inches	0		
Aurora.			
Zod. light.			
			Cloudy
			Cloudy
Wind.	1 S	4 E	0 E
Clouds.	10 P fog; a little rain	10 Pm; a little rain	10 Pm; gathering

Frequent showers.

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1879phae.proj...378

TUESDAY, MAY 20, 1879.

	8	2	8
Bar.	29.964	29.909	29.866
Att. Therm.	65.5	69.0	70.5
Psych, dry + wet.	67.0 65.3	66.2 64.8	66.9 65.1
No. 4.	67.5	67.3	67.8
Max; wet + ret.	66.6 66.5		
Min; — " —	60.3 66.3		
Gauge, 9 + melted	8 1/8 0.717		
aurora			Twilight
Zod. light			Twilight
Wind	2 SW	2 E	5 S
Clouds.	10 Pm 7m	10 Pm M 7m — 7m,	0 Pm

Some rain.

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1879phae.proj...378

WEDNESDAY, MAY 21, 1879.

	8	2	8
Bar.	29.706	29.642	29.867
Att. Therm.	67.2	71.7	70.9
Psych. Dry bulb.	70.7 66.5	80.0 71.8	62.2 53.1
No. 4	71.3	81.3	62.9
Max. min. test.	74.4 69.7		
Min. — " —	63.8 69.9		
Gauge, grenches.	0 5/8 0.055		
Aurora.			Twilight
Zod. light.			Twilight
Wind.	5 SW	5 SW	4 N
Clouds.	5 Pm 7m /	9 Pm M 7m —	5 Pm 7m —

Slight thunder shower about 2¼ P.M.

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1879phae.proj...378

THURSDAY, MAY 22, 1879.

	8	2	8
Bar.	30.074	30.092	30.173
Att. Therm.	60.8	64.4	64.6
Psychr. dry & wet.	56.0 47.5	59.1 51.3	49.9 47.3
Mot	56.3	59.7	50.4
Max; max. at	81.7 56.3		
Min; — " —	46.8 53.9		
Gauge, 2 inches	0 3/4 0.066		
Aurora			
Zod. light			Twilight Twilight
Wind	6 NE	6 SE	1 E.N.E.
Clouds	0	0 N 7m	0 Clear

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1879phae.proj...378

FRIDAY, MAY 23, 1879.

	8	2	8
Bar.	30,353	30,420	30,390
Att. Therm.	55,7	58,7	60,6
Psych; dry ther.	50,3 42,1	51,3 43,4	43,6 39,4
No. 4	50,7	51,7	44,7
Max; unsel ther	61,0 50,8		
Min — " —	41,8 50,1		
Gauge, zenithes	0		
Aurora.			
Nord. light.			Twilight Twilight
Wind.	11 NE	10 ENE	0 calm
Clouds.	0	1 M 7m	0 Rs

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1879phae.proj...378

SATURDAY, MAY 24, 1879.

	8	2	8 1/4
Bar.	30.237	30.120	30.044
Att. Therm.	53.5	58.9	61.3
Psych; dry + wet	54.0 45.8	54.5 44.6	51.7 43.7
No. 4	54.4	54.8	52.0
C. 3205	54.3	55.3	52.0
Max; max + wet	54.3 54.0		
Min; — " —	41.1 53.3		
Gauge, 2 inches	0		
Aurora.			
Zod. light			Cloudy. Cloudy
Wind	4 NW	5 E	3 SSE
Clouds	0	6 R M7m	10 P

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1879phae.proj...378

SUNDAY, MAY 25, 1879.

	8	2	8
Bar.	29.849	29.758	29.721
Att. Therm	56.1	62.0	64.4
Psychrometer	59.0 50.6	69.8 56.9	59.4 53.8
Now	59.8	71.0	60.2
Max, minstrel	61.3 58.4		
Min — " —	46.5 58.1		
Gauge, grenches	0		
Aurora.			
Zod light			Cloudy Cloudy
Wind	2 NW	5 SE	0 calm
Clouds	1 Bm Fog haze	9 Pm M Fm haze	8 Pm Fm

A few drops of rain at times.

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1879phae.proj...378

MONDAY, MAY 26, 1879.

	8	2½	8
Bar.	29.870	29.940	30.084
Att. Therm.	58.8	59.5	60.0
Psy. ch; dry + wet.	54.1 45.3	58.7 44.2	51.3 42.7
No. 4	54.7	59.0	51.7
Max; wet + dry	71.7 54.5		
Min; —— " ——	51.2 53.6		
Gauge, 2 inches	0		
Aurora			
Zod. light.			Twilight. Twilight
Wind.	8 NW	12 N	0 calm
Clouds.	0	0 Rs	0 P. Rs

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1879phae.proj:...378

TUESDAY, MAY 27, 1879.

	8	2	8
Bar.	30.279	30.170	30.170
Att. Therm.	53.7	66.0	61.7
Psych. dry + wet.	57.9 48.1	69.0 54.6	53.2 49.7
No. 4.	54.7	69.4	53.9
Max, min + sch	54.5 57.0		
Min — " —	42.6 56.9		
Gauge, 2 inches	0		
Aurora.			
Zod. light.			
			cloudy
			cloudy
Wind.	0 NW	4 S	4 S
Clouds	1 haze	5 P 7m — haze	10 P

A little rain after 6 P.M.

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1879phae.proj...378

WEDNESDAY, MAY 28, 1879.

	8	2	8
Bar.	30.076	30.063	30.081
Att. Therm.	57.6	62.7	67.3
Psych; dry + wet.	56.4 53.6	67.3 58.6	63.3 68.3
No. 4	56.6	67.4	64.4
Max; max set + set.	69.4 56.3		
Min; — " —	49.9 55.6		
Gauge, 24 inches	0 3/8 0.033		
Aurora.			
Zod. light.			Twilight Twilight
Wind.	6 NNW	2 SE	0 calm
Clouds.	10 Pm 7 m	3 haze	1 haze P

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1879phae.proj...378

THURSDAY, MAY 29, 1879.

	8		2 1/2		8	
Bar.	30.186		30.148		30.144	
Att. Therm.	61.3		68.9		70.0	
Psych; dry & wet.	69.0	61.5	77.0	62.3	66.5	57.9
No. 4	[illegible]	70.0	77.8		67.2	
Max; maxet & set.	70.8	67.5				
Min; — " —	53.2	68.0				
Gauge, oz & inches.	0					
Aurora.					Twilight	
Zod. light					Twilight	
Wind.	0 W		4 SE		4 SW	
Clouds.	3 hazy 7m		5 M 7m — hazy		3 hazy 7m	

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1879phae.proj...378

FRIDAY, MAY 30, 1879.

	8	2	8
Bar.	30.173	30.070	30.053
Att. Therm.	63.0	69.0	70.0
Psych; Inst.	68.9 59.2	79.2 62.5	65.6 57.7
No. 4.	70.1	79.7	66.2
Max; sunset + set.	78.8 67.6		
Min; — in —	54.5 68.0		
Gauge, oz + inches.	0		
Aurora.			Colorably
Zod. lights			Colorably
Wind.	4 SW	11 SW	5 SW
Clouds.	4 P 7m haze	2 PR 8m haze	7 R 8m haze

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1879phae.proj...378

SATURDAY, MAY 31, 1879.

	8	2	8.
Bar.	30.022	29.972	29.926
Att. Therm.	65.9	72.3	78.3
Psych; dry therm.	71.5 66.7	89.1 76.5	78.3 71.5
No. 14	72.5	89.6	79.3
6.3235	71.7	89.5	78.8
May; max therm.	84.0 70.3		
Min; —,, —	61.5 70.6		
Gauge, ozs inches,	0		
Aurora.			Twilight
2nd. light.			Twilight
Wind.	4 SW	4 SW	3 SW
Clouds	7 P 7m / haze	4 PRs M 7m haze	5 P 7m haze

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1879phae.proj...378

SUNDAY, JUNE 1, 1879.

	8	2	8
Bar.	29.997	29.950	29.944
Att. Therm.	72.8	81.1	82.8
Psych. dry bulb.	78.6 71.9	91.3 74.2	81.3 72.3
No. 4.	80.3	91.9	82.1
Max; wet & dry	89.8 77.0		
Min; — " —	67.0 78.0		
Gauge, 0 inches.	0		
Aurora.			
Zod. light.			
Wind,	0 W	5 WSW	3 SW
Clouds.	1 RsM 7m haze	1 PRsM 7m	1 P 7m haze

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1879phae.proj...378

MONDAY, JUNE 2, 1879.

	8	2	8
Bar.	29.888	29.905	29.978
Att. Therm.	74.8	81.2	78.2
Psychy Dry + Wet Th.	79.5 72.3	80.0 71.6	72.4 69.6
No. 4.	81.0	80.7	73.3
Max. + Min. Th.	91.7 78.3		
Min. — " —	67.3 78.2		
Gauge + Rain	0		
Aurora.			
Zod. light			
Wind	0 W	5 N W	0 calm
Clouds	5 Ci Cs	10 Cu M 7m →	10 Cu 7m →

A little rain and thunder in the afternoon.

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1879phae.proj...378

TUESDAY, JUNE 3, 1879.

	8	2	8
Bar.	30.076	30.080	30.064
Att. Therm.	62.0	63.8	62.6
Psych: Dry wet.	51.5 51.0	52.0 51.1	50.6 50.3
No. 4	52.0	52.6	51.2
Max; wet dry.	87.9 53.0		
Min; —"—	50.7 51.8		
Gauge, 3 inches	$2\frac{3}{4}$ 0.243		
Aurora.			
Zod. light			
Wind.	4 ENE	5 NE	3 N.E
Clouds.	10 Pm; raining	10 Pm; raining	10 Pm; raining

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1879phae..proj...378

WEDNESDAY, JUNE 4, 1879.

	8	2	8
Bar.	30.016	29.878	29.833
Att. Therm.	60.1	62.2	64.4
Psych; dry wet.	53.7 53.7	64.7 64.2	61.3 60.3
No. 4.	53.8	64.7	62.1
Max; wet dt.	53.8 54.0		
Min; — 11 —	50.0 53.0		
Gauge, gouches	8 1/4 0.728		
Aurora.			
Zod. light			
Wind.	O E	5 SSW	2 SSW
Clouds	10 Pm; raining	10 Pm Fm; a little rain	4 Pm M Fm

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1879phae.proj...378

THURSDAY, JUNE 5, 1879.

	8	2	8
Bar.	29.845	29.792	29.824
Att. Therm.	61.4	68.2	70.7
Psych; dry wet.	68.3 61.8	76.5 67.9	65.8 63.8
No. 4	69.6	77.2	66.5
Max; unsh wet,	*66.5 66.2		
Min; — " —	53.0 67.0		
Gauge, of rain	4 0.353		
Aurora.			
Zod. light			
Wind.	6 SW	5 SW	0 SW
Clouds	5 Pm 7m	10 Pm M 7m →	1 P M 7m R

* Thermometer and neighboring woodwork probably damp.

A few drops of rain in the forenoon. Thunder shower about 4 P.M.

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1879phae_proj_0378

FRIDAY, JUNE 6, 1879.

	8	2	8
Bar.	29.850	29.682	29.721
Att. Therm.	66.0	68.5	70.2
Psychy Dry-wet bulb	66.4 61.2	76.1 69.3	62.4 55.6
No. 4	66.9	77.0	62.7
Max. past week	77.8 66.0		
Min. — " —	61.0 66.0		
Gauge, 4 inches above Rod. light	$5\frac{3}{8}$ 0.474		
Wind	0 W	4 SW	6 W
Clouds	10 Pm Fm →	9 Pm M Fm →	10 Pm Fm →

A few drops of rain in the forenoon. Shower with strong wind about 5 P.M.

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1879phae.proj...378

SATURDAY, JUNE 7, 1879.

	8	2	8
Bar.	29.984	29.975	30.018
Att. Therm.	58.9	61.0	62.4
Psych; Inyrsat.	52.0 41.8	59.3 47.2	55.3 48.1
No. 4.	53.2	59.8	55.9
6.3235	52.5	59.8	56.0
Max; Unset Set	76.6 52.5		
Min; — " —	44.4 51.5		
Gauge, oz inches	1/2 0.132		
Aurora.			
Zod. light.			
Winds	6 NW	8 W	2 NNW
Clouds.	5 Pm M 7m ↘	5 Pm M 7m ↘	9 Pm 7m ↘

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1879phae.proj...378

SUNDAY, JUNE 8, 1879.

	8	2	8
Bar.	30.094	29.988	29.950
Att. Therm.	56.1	62.1	66.0
Psych. Dry & wet	55.6 48.3	66.0 52.2	61.3 51.4
No. 4	57.2	66.0	61.8
Max. since last set.	61.6 54.7		
Min. — " —	43.6 54.6		
Gauge, 2 inches	0½ 0.044		
Aurora.			
Zod. light.			
Wind	3 NW	6 NW	0 WNW
Clouds	0	0	0 Rs Fms

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1879phae.proj...378

MONDAY, JUNE 9, 1879.

	8	2	8
Bar.	30.044	29.978	29.969
Att. Therm.	58.0	65.9	68.0
By ch. Thermist.	59.2 53.8	70.0 59.4	64.7 55.5
No. 4	61.1	70.9	65.2
Max; wet + set	68.5 58.9		
Min; — " —	46.9 58.9		
Gauge, 2 inches	0		
Aurora			
Zod. light			
Wind.	1 NE	3 E	1 SW
Clouds	1 Ro haze	9 P fm	10 Pm Rm

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1879phae.proj...378

TUESDAY, JUNE 10, 1879.

	8	21	8
Bar	29.957	29.840	29.910
Att. Therm	62.9	69.0	68.0
Psychr Dry Wet	62.5 59.4	81.5 73.5	58.0 56.1
No. 4.	62.8	82.3	58.8
Max Min set.	70.8 62.1		
Min " — " —	56.3 62.0		
Gauge, Gruebers Aurora.	0 1/2 0.044		
Zod. light.			
Wind	2 S	2 S	3 NNE
Clouds	10 Pm Fm	10 Pm M Fm →	10 Pm Fm →

Thermometers moved to east window on north side of West Transit Room between 8 A.M. and 2 P.M.

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1879phae.proj...878

WEDNESDAY, JUNE 11, 1879.

	8	2	8 1/4
Bar.	29.921	29.938	29.949
Att. Therm.	63.0	66.7	67.2
Psych; Dry therm.	55.4 54.3	65.7 60.6	55.8 54.1
Noth.	55.9	66.4	56.4
Max, wet & set.	81.4 56.6		
Min; — " —	53.5 55.7		
gauge, 0 inches	0 1/4 0.022		
Aurora.			
Zod. light.			
Wind	1 NE	3 E	2 E
Clouds	10 Pm	9 P haze	10 Pm

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1879phae.proj...878

THURSDAY, JUNE 12, 1879.

	8	2	8
Bar.	29.892	29.828	29.757
Att. Therm.	62.4	65.0	65.5
Psych; dry + wet.	56.0 55.1	60.9 58.5	59.4 57.8
No. 4.	56.5	61.5	60.3
Max; max. + wet	68.7 56.8		
Min; — " —	53.8 53.6		
gang, zenithes Aurora.	0 0		
Zod. light.			
Wind.	1 E	1 SE	1 E
Clouds	10 P mist	10 P fog	10 P fog

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1879phae.proj...378

FRIDAY, JUNE 13, 1879.

	8	2	8
Bar.	29.739	29.748	29.800
Att. Therm	63.9	69.3	71.0
Psych; dry + wet.	67.0 62.1	72.7 64.5	64.4 54.6
Mean	67.1	72.5	65.0
Max; max + rad.	66.2	66.2	
Min; — " —	56.0	66.2	
Gauge, 0 + inches	0	0.044	
Aurora.			
Zod. light			
Wind.	5 N	2 SE	2 NW.
Clouds.	1 Pm Tm	~~2 S~~ 1 M Tm haze	0 Rs.

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1879phae.proj...378

SATURDAY, JUNE 14, 1879.

	8	3	8
Bar.	29.870	29.784	29.745
Att-Therm.	62.1	69.8	71.5
Psych, dry + wet.	62.0 54.7	76.1 61.6	67.9 58.6
No. 4.	62.0	76.5	68.6
6, 3235	62.1	76.5	68.4
Max, wet + wet.	74.0 61.5		
Min, — " —	50.7 61.1		
Gang, ofmelo	0		
Aurora.			
Zod. light			
Wind.	2 W	5 W	3 SW
Clouds	1 Rs 7m	0 Rs 7m	10 P 7m

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1879phae.proj...378

SUNDAY, JUNE 15, 1879.

	8	2	8
Bar.	29.660	*29.599	29.526
Att. Therm.	66.5	67.0	64.4
Psych; Dry + wet.	61.0 60.5	55.8 55.7	51.9 51.6
Hyg.	61.5	56.8	52.5
Max; wet + dry	76.3 61.0		
Min — " —	60.4 60.9		
Gauge, 3 inches	1 0.084		
Aurora.			
Zod. light			
Wind	2 N	5 N	4 N
Clouds.	10 Pm; raining	10 Pm; raining	10 Pm

*Barometer falling rapidly. At 2½ P.M. 29.530
Att. therm. 67.0

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1879phae.proj...378

MONDAY, JUNE 16, 1879.

	8	2	8
Bar. att. Therm.	29.495 59.4	29.564 59.7	29.710 59.6
Psych; dry + wet.	51.6 51.6	53.0 51.6	51.5 50.2
Mean	52.0	53.3	52.1
Max; mixed tech.	62.6 52.3		
Min) —— " —	48.1 51.2		
Gauge, 2 tubes	$11\frac{3}{4}$ 1.037		
Aurora.			
2nd. light.			
Wind	1 NE	6 N	1 N
Clouds	10 Pm mist	10 Pm	10 Pm M Fm

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1879phae.proj...378

TUESDAY, JUNE 17, 1879.

	8	2	8
Bar.	29.816	29.860	29.917
Att. Therm.	57.4	63.4	64.2
Psych; dry + wet.	57.2 52.8	66.3 54.2	55.6 52.5
Nort.	57.2	66.7	56.3
Maxi, max + ret.	56.7 57.8		
Mini, — " —	48.8 56.9		
gauge, z tuichea.	0 1/4 0.011		
Aurora.			
Zod. light			
Wind.	5 NW	6 NW	0 calm
Clouds.	0	7 Pm N 7m	9 Pm 7m ↘

Slight showers afternoon.

Auroral light among clouds and some appearance of streamers about 10½ P.M.

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1879phae.proj...378

WEDNESDAY, JUNE 18, 1879.

	8	2	8
Bar.	30.030	30.081	30.136
Att-Therm.	58.3	61.9	61.3
Psych: dry & wet.	54.7 48.9	62.6 56.0	55.0 51.6
No. 4,	55.1	63.1	56.1
Max; max. act.	67.0 55.2		
Min; — " —	48.0 54.7		
gauge, 2 gauges Ansara.	0 1/4	0.022	
Zod. light			
Wind.	7 NNW	2 SE	0 calm
Clouds	1 M Fm	10 Pm M Fm	1 P Fm

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1879phae.proj...378

THURSDAY, JUNE 19, 1879.

	8	2	8
Bar.	30.258	30.278	30.243
Att. Therm.	57.6	63.4	64.3
Psych; Dry + wet.	58.0 54.3	62.7 52.5	56.5 51.0
Mean	58.1	62.8	57.2
Max; max et rad.	64.2 57.7		
Min; — " —	45.8 57.7		
Gauge, 0 z inches	0		
Aurora.			
Zod. light.			
Wind.	2 NE	3 SE	0 calm
clouds	8 M 7m	0 M 7m	0 P Rs 7m

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1879phae.proj...378

FRIDAY, JUNE 20, 1879.

	5	2	8
Bar.	30.234	30.184	30.209
Att-Therm.	58.0	65.9	67.1
Psych. dry + wet.	58.8 55.9	71.4 60.2	60.0 53.2
No. 4.	58.7	72.6	60.4
Max, minthermtt.	64.0 58.3		
Min, — " —	46.0 58.2		
Gauge, zu niedrig	0		
Aurora			
Zod. light			
Wind	1 SW	3 SE	2 S
Clouds	0	3 Nm → Rs	0 PRs 7m

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1879phae.proj...378

SATURDAY, JUNE 21, 1879.

	8	2	8
Bar	30.218	30.158	30.168
Att. Therm.	61.3	67.7	69.2
Psych; dry dust	62.9 59.0	79.6 67.0	62.3 56.0
No. 4	62.9	79.6	63.1
6.3235	63.0	79.8	63.0
Max; sunset + set	73.3 62.2		
Min " — "	53.3 62.2		
Gauge, gtuckee Arsena.	0		
Zod. light			
Wind.	4 W S W	4 S S W	4 S S W
Clouds	0	4 M Fm	1 Ro Rm

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1879phae.proj...378

SUNDAY, JUNE 22, 1879.

	8	2	8
Bar.	30.098	30.053	29.999
Att - therm.	63.8	69.0	70.4
Psych; dry & wet.	67.0 60.9	74.0 65.3	67.4 63.1
No. H.	67.2	74.5	68.0
Max; max set & read.	79.0 66.3		
Min; — " —	56.6 66.5		
Gauge, 3 miles	0		
Aurora -			
Zod. light			
Wind.	9 SW	4 W	0 SW
Clouds	5 Pm Fm →	6 P Fm	8 Pm Fm Rs

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1879phae.proj...378

MONDAY, JUNE 23, 1879.

	8	2	8
Bar.	29.985	29.984	30.044
Att. Therm.	66.6	73.2	76.8
Psychy dry-wet.	69.0 64.7	83.4 69.5	75.6 65.5
Mean	69.1	83.6	76.4
Max, wet-bulb	78.0 63.5		
Min, — " —	58.8 68.2		
Gauge, 9 inches	0		
Aurora.			
Zod. light.			
Wind	2 W	4 W S W	0 calm
Clouds	0	5 M R 7m →	0 Rs 7m

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1879phae.proj...378

TUESDAY, JUNE 24, 1879.

	8	2	8
Bar.	30.185	30.219	30.227
Att. Therm.	70.2	75.2	76.5
Psychr. Dry / Wet	70.4 / 63.4	77.5 / 67.7	71.7 / 67.1
Noyes	70.8	78.1	73.0
Max. since last	83.0	70.0	
Min. — " —	62.9	70.0	
Gauge, gravelly Aurora.	0		
Zod. light			
Wind	2 NNE	3 ESE	3 S
Clouds	0 P 7m	2 PM Rs haze	0 Rs

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1879phae.proj...378

WEDNESDAY, JUNE 25, 1879.

	8	2	8
Bar.	30.262	30.216	30.188
Att. Therm.	69.8	76.0	76.5
Psych; dry + wet.	69.8 66.8	79.2 69.5	72.3 69.7
No. 4	69.9	79.7	73.2
Max; — " —	78.3 69.3		
Min; — " —	61.1 69.0		
Gauge, gramches.	0		
Aurora.			
Zod. light.			
Wind.	4 SSW	3 ESE	4 S
Clouds.	0 Rs haze	3 Pm 7m	5 Pm 7m ↑ Rs

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1879phae.proj...378

THURSDAY, JUNE 26, 1879.

	9 ~~8~~		2		8	
Bar.	30.158		30.079		30.022	
Att. Therm.	71.2		74.7		76.0	
Psych; dry & wet	70.1	66.3	75.3	69.2	71.8	68.7
No. 4.	70.6		76.3		72.7	
Max; max reg.	81.2	70.3				
Min; — " —	65.1	70.2				
Gauge; gr. dew	0					
Aurora.						
Zod. light.						
Wind	4 SSW		6 SW		5 SW	
Clouds	10 Rn Fm		9 Rn M Fm a little rain		1 Rs Fm haze	

A few drops of rain about noon and later.

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1879phae.proj...378

FRIDAY, JUNE 27, 1879.

	8	2	8
Bar.	29.987	29.896	29.894
Att. Therm.	72.2	78.9	81.0
Psych. Dry & wet	74.8 71.2	89.8 75.3	75.2 69.0
Hair	75.1	90.3	76.2
Max. since last rec	79.0 74.0		
Min. — " —	65.3 74.2		
Gauge, 07 inches	0		
Aurora			
Zod. light			
Wind	2 W	7 SW	1 WSW
Clouds	0 Rs 7m haze	5 R M 7m haze	10 Rm 7m —

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1879phae.proj...378

SATURDAY, JUNE 28, 1879.

	10¼	2	8
Bar.	29.768	29.715	29.720
Att. Therm.	75.9	79.9	81.1
Psych; Dry + wet.	81.4 74.4	87.5 75.3	74.5 73.2
No. 4.	81.6	88.0	75.5
L. 3235			75.2
Max; maximum	90.4 80.0		
Min; — 1, — .	68.0 80.5		
Gang; ozuniches	0		
Aurora.			
Zod. light.			
Wind.	2 WSW	5 WSW	0 SW
Clouds	2 P M 7m R haze	9 P M 7m haze	10 Pm M 7m →

Slight thunder showers in the afternoon.

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1879phae.proj...378

SUNDAY, JUNE 29, 1879.

	8	2	8
Bar	29.720	29.644	29.779
Att. Therm.	75.3	78.2	75.5
Psych; Dry Bulb	72.3	82.3	62.0
Wet Bulb	70.5	74.9	61.4
No. 4	72.7	83.3	62.2
Hum; max Reading	88.8	72.4	
Min; — " —	69.3	71.9	
Gauge, Inches	2¼	0.199	13¼
Aurora.			
Prob. Lights			
[redacted]			
Wind	1 SW	2 W	4 N
Clouds	10 Pm	10 Pm N Fm	10 Pm Fm & a little rain

Thunder showers in the afternoon.

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1879phae.proj...378

MONDAY, JUNE 30, 1879.

	8	2	8
Bar.	29.899	29.966	30.038
Att. Therm.	69.6	73.3	72.5
Psych; Dry Wet.	66.8 61.0	66.5 58.8	66.3 59.8
No. 4.	67.2	66.5	67.0
Max/min set at 8 A.M.	83.5 66.0		
Min'm — 1,—	60.9 66.3		
Gauge, grass	+0		
Aurora.			
Zod. light.			
Wind	6 N	12 N	0 NW
Clouds	1 Pm	9 Pm Mo Tem	1 M Tem Rs

*At 8 P.M., June 29, gauge C 13/4 ins.
1.147 inches.

A few drops of rain.

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1879phae.proj...378

TUESDAY, JULY 1, 1879.

	8	2	8
Bar.	30.218	30.224	30.232
Att. therm.	65.3	71.3	70.0
Psychr., dry & wet	63.2 56.3	71.5 60.3	63.5 58.8
No. 4	63.4	71.8	65.0
Max., unst. & set	75.2 63.2		
Min., — " —	54.8 63.0		
Gauge, cg. & inch.	0		
Aurora			
Zod. light			Moonlight
			"
Wind	5 NNW	3 ESE	1 ESE
Clouds	0 Ro	4 Ro	5 Ro

(WH)

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1879phae.proj...378

WEDNESDAY, JULY 2, 1879.

	8	2	8
Bar.	30.233	30.150	30.086
Att. Therm.	66.0	74.9	79.0
Psych dry air wet	66.5 60.8	82.3 67.9	75.3 66.7
No. 4.	66.5	82.6	76.3
Max. since last set	72.2 66.1		
Min — " —	55.0 65.9		
Gauge, z. Frieda.	0		
Aurora			
God. Light.			
Wind	1 W	1 W	2 SW
Clouds	0	0	0

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1879phae.proj...878

THURSDAY, JULY 3, 1879.

	8	2	8
Bar.	30.049		29.943
Att. therm	72.8		82.8
Psych. dry & wet	75.1 69.5		77.6 71.9
No. 4	75.0		78.7
Max. on Set & count.	83.0 74.2		
Min " "	64.7 74.3		
Gauge 29 inches	0		
Aurora			
Zod. light			
Wind	1 W		2 SW
Clouds	4 R 7m →		4 Pm 7m haze

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1879phae.proj...378

FRIDAY, JULY 4, 1879.

	8	2	8
Bar.	29.855	29.783	29.880
Att. therm.	77.5	83.3	81.9
Psych, dry & wet	78.9 72.1	89.3 75.4	74.0 72.0
No. 4	79.0	89.7	74.8
Max, wet & set	89.8 78.3		
Min — " —	72.1 78.2		
Gauge, 24 hours	0		
Aurora			
Zod. light			
Wind	3 SW	7 SW	2 SW
Clouds	2 P Rs haze	7 P Rs Fm haze	9 P Rs Fm

Slight thundershower about 5 P.M.

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1879phae.proj...378

SATURDAY, JULY 5, 1879.

	8	2	8
Bar.	30.199	30.256	30.252
Att. Therm	71.0	73.6	72.3
Psych. dry & wet	61.4 53.8	63.9 54.9	57.0 51.3
No 4	61.7	64.4	58.3
6.3235			58.0
Max. in Set & wet	89.8 62.4		
Min — " —	54.0 61.3		
Gauge 29 & inches	1½ 0.132		
Aurora			
Zod light			
Wind	3 E	5 E	0 S
Clouds	10 Rn Tom L	0 Tom	0 Rs

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1879phae.proj...378

SUNDAY, JULY 6, 1879.

	8	2	8
Barr.	30.240	30.217	30.190
Att. Therm.	63.8	69.8	68.0
Psych. dry & wet	60.4 54.7	73.4 61.9	61.0 53.5
No. 4,	60.0	73.7	62.0
Max. on set & exact	65.0 59.8		
Min — " —	48.0 59.9		
Gauge & inches Amount	0		
Dod. Light.			
Wind	1 SE	2 S	3 S
Clouds.	3 Pc Pm Tm Rc	3 Pm M Tm	1 Pm Tm

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1879phae.proj...378

MONDAY, JULY 7, 1879.

	8	2	8
Bar.	30,195	30.165	30.117
Att. Therm	66.3	68.6	68.6
Psych dry & wet	62.3 57.8	65.9 63.2	61.8 59.5
No. 4.	62.4	66.4	62.3
Max, mint & set	74.9 62.3		
Min — " —	55.4 62.2		
Gauge, ozs & inches	0		
Aurora			
Zod. light			
Wind	5 S	1 S	3 SSW
Clouds.	10 Pm 7m →	10 Pm 7m → a little rain	10 Pm 7m →

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1879phae.proj...378

TUESDAY, JULY 8, 1879.

	8	2	8
Bar.	29.918	29.736	29.667
Att. therm	66.7	67.8	70.9
Psychr. dry wet	64.4 64.0	68.9 67.4	69.8 68.6
No. 4.	65.0	69.2	70.5
Max. wet & set	67.5 65.0		
Min — " —	61.2 64.4		
Gauges & wicks	3 3/4 0.331		
Aurora			
Zod. Light			
Wind	5 S	6 SSW	2 S
Clouds	10 Pm 7m	10 Pm	8 Pm 7m → Fm

Rain at times. Distant thunder and lightning towards the east in the evening.

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1879phae.proj...378

WEDNESDAY, JULY 9, 1879.

	8	2	8
Bar.	29.713	29.762	29.762
Att. therm.	69.2	74.4	76.4
Psych., ~~dry & wet~~ dry & wet	70.8 63.3	78.7 63.7	72.2 64.7
No. 4.	71.2	79.2	73.3
Max, mrst & set	75.2 70.7		
Min — " —	63.5 70.6		
Gauge, oz. & inches	4 3/4 0.419		
Aurora			
Zod. light			
Wind	6 NW	6 NW	0 calm
Clouds.	0 Rs 7m	1 Rs 7m	1 Rm Rs 7m

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1879phae.proj...378

THURSDAY, JULY 10, 1879.

	8		2		8	
Bar.	29.728		29.723		29.720	
Att. Therm.	70.8		76.0		78.7	
Psych. dry & wet	70.7	64.5	78.6	67.3	74.3	67.9
No. 4.	70.9		79.4		75.7	
Max. since 8 set	79.7	70.2				
Min — " —	64.0	70.3				
Gauge, 24 inches	0					
Aurora						
Zod. Light						
Wind	0 W		6 N		0 W	
Clouds	1 Pm Fm		6 Pm M Fm		10 Pm	

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1879phae.proj...378

FRIDAY, JULY 11, 1879.

	8	2	8
Bar.	29.727	29.700	29.660
Att. Therm	72.1	78.1	78.2
Psych. dry & wet	72.1 66.3	80.8 68.2	71.4 66.9
No. H.	72.4	81.3	72.3
Max. wet & dry	81.3 71.7		
Min. — " —	65.1 71.5		
Gauge g. inches	0		
Aurora			
Zod. light.			
Wind	2 N	3 ESE	3 SE
Clouds	0 Fm Haze	5 PM Fm R	10 Pm Fm

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1879phae.proj...378

SATURDAY, JULY 12, 1879.

	8	2	8
Bar.	29.701	29.809	29.879
Att. therm.	72.6	76.2	78.0
Psych dry & wet	67.0 62.5	74.9 62.7	66.2 60.4
No 4.	67.4	75.7	67.6
6.3235	67.7	75.1	67.1
Max, since last set	80.7 67.3		
Min — " —	63.2 67.0		
Gauge 24 inches	0 1/8 0.011		
Aurora			
Zod light			
Wind	3 NE	4 ESE	0 calm
Clouds.	9 P	.0 M Fm	1 P Ro

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1879phae.proj...878

SUNDAY, JULY 13, 1879.

	8	2	8
Bar.	29.952	29.970	29.975
Att. therm	68.9	75.0	79.0
Psych. dry & wet	67.8 63.0	84.1 68.8	71.8 64.2
No. 4.	67.6	84.3	72.5
Max. since 8 set	76.2 67.0		
Min — " —	56.2 67.0		
Gauge & inches	0		
Aurora			
Zod. light			
Wind	0 calm	4 S	4 SSW
Clouds.	0	0 Pm 7m	0 Rs 7m

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1879phae.proj...878

MONDAY, JULY 14, 1879.

	8	2	8
Bar.	29.958	29.936	29.935
Att. therm.	71.8	78.0	82.0
Psych. dry & wet	69.7 64.1	87.2 72.7	78.0 72.0
No. H.	70.0	87.7	78.9
Max, since 8 set.	83.9 69.6		
Min — " —	62.6 69.1		
Gauge, against	0		
Aurora			
Zod light			
Wind	2 SW	3 W	2 SSW
Clouds	6 R R R 7m	1 M 7m	0 Pm M 7m

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1879phae.proj...878

TUESDAY, JULY 15, 1879.

	8	2	8
Bar.	29.950	29.940	29.874
Att. therm.	75.6	80.9	83.6
Psych. dry & wet	76.6 71.0	82.0 72.2	80.5 73.2
No. 4.	76.9	82.8	81.2
Max. ment & set	87.9 76.2		
Min. — " —	68.4 76.0		
Gauge, 24 inches	0		
Aurora			
Zod light			
Wind	3 NNW	4 ESE	3 SW
Clouds.	0 Rs	3 Rs M 7m horiz	10 P

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1879phae.proj...378

WEDNESDAY, JULY 16, 1879.

	8	2	8
Bar.	29.824	29.785	29.759
Att. therm.	78.2	84.0	82.0
Psych. dry & wet	79.6 72.9	89.9 75.6	70.5 67.3
No. 4.	79.8	90.2	70.8
Max since last set	85.2	79.0	
Min — " —	71.3	79.0	
Gauge, oz. & inches	0		
Aurora			
Zod. light			
Wind	2 WSW	4 W	7 SW
Clouds	1 Pm Fm haze	1 Pm N Fm haze	10 Pm Fm

At 7¼ P.M. gauge C 6 ounces

Thunder shower beginning about 4 P.M., with strong squall from north of west at 4½ P.M. and moderate hail beginning about 4⅓ P.M. Several small trees, and one maple 9 inches through (on Concord Avenue near the Common) were blown down.

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1879phae.proj...378

THURSDAY, JULY 17, 1879.

	8	2	8
Bar.	29.700	29.718	29.800
Att. Therm	75.5	77.9	78.4
Psych. dry & wet	70.0 62.7	77.9 64.8	69.7 61.7
No. 4.	70.4	78.1	70.0
Max. wet & set	91.3 79.2		
Min " "	67.9 69.8		
Gauge, cy & inches	* 0		
Aurora			
God light			
Wind	4 NW	8 WNW	2 NW
Clouds,	0 P Rs 7m	5 Pm M 7m	0 1 P 7m

*At 7¼ P.M. July 16 gauge C 0.530 inches.

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1879phae.proj:378

FRIDAY, JULY 18, 1879.

	8	2	8
Barr.	29.970	30.006	30.058
Att. Therm	71.1	73.2	73.9
Psych. dry wet	63.3 58.5	68.2 60.3	60.8 58.8
No. H.	63.8	68.5	61.6
Max. since last set.	78.3 64.0		
Min — " —	60.0 63.2		
Gauge & miles	0		
Aurora			
God. light			
Wind	4 ENE	3 E	2 SSE
Clouds	9 Pm M 7m	0 Pm M 7m	9 Pm M 7m →

A little rain about 4 P.M.

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1879phae.proj..378

SATURDAY, JULY 19, 1879.

	8	2	8
Barr.	30.141	30.193	30.218
Att. therm.	68.2	72.2	71.3
Psych. dry & wet.	61.4 58.3	67.5 60.6	60.1 57.1
No. 4.	61.4	68.0	61.2
6.3235	61.7	68.0	60.9
Max. wet & set	69.2 61.3		
Min — " —	55.3 60.8		
Gauge, & inches	1 0.088		
Aurora.			
Zod. light			
Wind	4 NNW	6 ESE	0 calm
Clouds.	4 Pm Ns 7m	1 N 7m	0 Rs 7m

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1879phae.proj.:378

SUNDAY, JULY 20, 1879.

	8	2	8
Barr.	30,282	30.266	30.276
Att. Therm.	65,8	71.7	72.6
Psych. dry & wet.	63,6 60,2	76.0 64,4	63.7 58.9
No. 4.	63.5	76.6	64.8
Max. unset & set	68,3 63,2		
Min — " —	52,7 63,0		
Gauge ozonides	0		
Aurora			
Zod. light			
Wind	0 W	1 SW	4 S
Clouds.	0 haze	9 Pm N 7m →	9 Pm 7m

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1879phae.proj...378

MONDAY, JULY 21, 1879.

	8	2	8
Bar.	30.271	30.190	30.150
Att. Therm.	66.9	72.1	73.8
Psych. dry & wet	65.3 60.2	78.4 67.0	65.6 61.1
No. 4.	65.5	79.0	66.2
Max. inset & set.	77.3 65.2		
Min — " —	57.0 65.0		
Gauge, oz. & inches	0		
Aurora			
Zod. light			
Wind	5 SW	10 S	5 SSW
Clouds.	1 Pm Fm	8 Pm Fm	9 Pm Fm →

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1879phae.proj:378

TUESDAY, JULY 22, 1879.

	8	2	8
Bar.	30.038	29.994	29.969
Att. Therm	69.3	74.6	77.5
Psych. dry wet	68.9 65.1	81.4 73.0	73.7 69.0
Rel. H.	69.0	82.7	74.3
Max. since 8 set	78.9 68.7		
Min — " —	63.0 68.3		
Gauge 24 inches	0 1/4 0.022		
Aurora			
Zod. light			
Wind	4 SW	5 SW	3 SW
Clouds.	10 Pm 7m →	10 Pm 7m →	10 Pm 7m

Thunder & lightning about 10½ P.M., with a little rain.

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1879phae.proj...878

WEDNESDAY, JULY 23, 1879.

	8	2	8
Bar.	29.872	29.774	29.741
Att. Therm	72.7	74.0	75.7
Psych. dry & wet	71.6 68.9	76.0 72.0	72.2 70.7
No. 4.	71.9	76.4	72.8
Max. inset & set	83.3 71.2		
Min — " —	67.0 71.0		
Gauge, 24 inches	1 3/4 0.154		
Aurora			
Zod. light			
Wind	3 SSW	3 SW	2 SW
Clouds.	10 Pm Fm →	10 Pm Fm ↗	6 Pm Fm →

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1879phae.proj...878

THURSDAY, JULY 24, 1879.

	8	2	8
Bar.	29.896	29.950	30.036
Att Therm	72.0	75.4	77.5
Psych. dry wet	68.3 62.0	76.9 67.4	70.8 64.0
No. 4.	68.7	77.5	71.3
Max. since last set	77.0 68.3		
Min. — " —	65.0 68.0		
Gauge, 24 inches	0		
Aurora			
God. light			
Wind	7 NW	1 E	1 NE
Clouds.	0 Fm	8 M Fm — Rs	5 Fm

Some appearance of aurora about 11 P.M.
Streamers later seen by F.W.

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1879phae.proj...878

FRIDAY, JULY 25, 1879.

	8	2	9.30
Barr.	30.154		30.142
Att. therm	68.8		72.8
Psych. dry & wet	65.5 57.2		63.2 60.6
No. 4.	65.5		64.0
Max. since 8 set	78.3 66.4		
Min — " —	55.5 64.8		
Gauge, oz & inches	0		
Aurora			
Zod. light			
Wind	1 ENE	gradually clouded during P.M.	1 N.E
Clouds.	2 Rs in east		10 slightly raining
	W.U.		W.U.

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1879phae.proj.:878

SATURDAY, JULY 26, 1879.

	8	2	8
Barr.	30.060	29.994	29.902
Att Thmr	69.2	70.4	69.3
Psych, dry & wet	64.9 61.3	62.4 61.7	61.3 61.0
Hy,	65.2	62.7	61.8
6.3235	65.2	62.8	62.0
Max, wet & set	70.7 65.5		
Min — " —	61.2 65.0		
Gauge, & inches	0		
Aurora.			
Zod light			
Wind	3 E	3 ENE	4 E
Clouds	10 Pm	10 Pm; fine rain	10 Pm; fine rain

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1879phae.proj...878

SUNDAY, JULY 27, 1879.

	8 1/4	2	8
Bar.	29.758	29.790	29.848
Att. Therm.	67.3	73.0	77.2
Psych. dry & wet	63.0 61.1	81.1 74.2	76.1 71.0
No. H.	63.4	82.0	76.7
Max. mint & set.	67.0 63.1		
Min — " —	59.0 62.9		
Gauge, & inches	10 3/4 0.949		
Aurora			
Zod. light			
Wind	2 WNW	2 SW	1 SW
Clouds	9 Pm Rs Fm Fm	9 Pm M Fm →	9 Pm Fm →

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1879phae.proj...878

MONDAY, JULY 28, 1879.

	8	2	8
Bar.	29.949	29.962	29.960
Att. Thermr.	72.0	77.3	77.9
Psych. dry & wet	72.8 65.6	79.4 69.8	67.4 64.4
Ho. H.	73.1	80.0	68.7
Max. since last set	82.2 72.2		
Min — " —	62.4 72.2		
Gauge, cy. 2 inches	0		
Aurora			
Zod light			
Wind	3 NW	2 E	U E
Clouds	2 Pm Fm	1 M Fm Rs Haze	10 Pm Fm

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1879phae.proj...378

TUESDAY, JULY 29, 1879.

	8	2	8
Barr	29.984	29.950	29.988
Att. therm.	72.6	78.6	81.4
Psych. dry & wet	73.3 70.8	85.8 73.0	76.8 73.9
W. H.	73.3	86.4	77.6
Max. wet & set	81.8 72.6		
Min — " —	63.8 72.5		
Gauge, 24 hours	0		
Aurora			
Zod. light			
Wind	2 SSW	1 WSW	2 SW
Clouds.	2 haze 7m	2 M 7m haze	5 Pm 7m

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1879phae.proj...378

WEDNESDAY, JULY 30, 1879.

	8	2	8
Bar.	30.024	30.020	30.038
Att. Therm.	75.0	80.1	82.0
Psych. dry wet.	74.0 71.5	88.0 75.5	76.7 72.0
No. H.	74.1	88.3	77.4
Max. " "	87.1 73.6		
Min. " "	69.3 73.2		
Gauge, cy. & inches	0		
Aurora			
Zod. light			
Wind	1 SW	1 SW	0 SW
Clouds.	8 Pm Fm R R haze	9 N Fm haze	9 Pm Fm 1

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1879phae.proj...378

THURSDAY, JULY 31, 1879.

	8	2 3/4	8
Bar.	30.169	30,185	30.168
Att. thrm.	75.3	80.6	80.6
Psych. dry & wet	72.0 66.3	79.3 67.8	70.7 65.0
No. 4.	72.4	80.1	72.0
Max. mint & set.	87.5 72.1		
Min — " —	67.0 71.6		
Gauge, eg & inches	0		
Aurora			
Zod. light			
Wind	2 N	4 SE	0 calm
Clouds.	5 P Rs 7m —	1 M 7m haze	2 P 7m haze

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1879phae.proj.,378

FRIDAY, AUGUST 1, 1879.

	8 1/4	2	8
Bar.	30.160	30.113	30.110
Att. therm	73.6	79.8	83.0
Psych. dry & wet	72.7 69.3	87.7 70.3	76.0 69.0
No. 4.	72.8	87.9	77.1
Max. — " —	81.1 72.0		
Min — " —	64.2 72.0		
Gauge, cyclinder	0		
Aurora			
Zod. light			Moonlight & clouds
			Moonlight & clouds
Wind	0 S W	1 W	1 S W
Clouds.	0 haze	0 M fra	1 M fra

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1879phae.proj...378

SATURDAY, AUGUST 2, 1879.

	8	2	8
Bar.	30.072	30.018	29.977
Att. Therm	76.2	83.8	85.3
Psych. dry & wet	76.8 71.7	91.0 75.2	81.3 73.2
No. H.	76.8	91.2	82.2
6.3235	77.0	91.6	82.3
Max. wet & set	88.2 76.2		
Min — " —	68.8 76.0		
Gauge, degrees	0		
Aurora			
Zod. light			Twilight 5 clouds
			Twilight 5 clouds
Wind	1 W	3 WSW	2 SW
Clouds.	1 haze Rs 7m	4M 7m — haze	1 Rs 7m —

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1879phae.proj...378

SUNDAY, AUGUST 3, 1879.

	8	2	8
Bar.	29.950	29.922	29.902
Att. thermn	79.2	83.0	83.8
Hygr. dry & wet	77.0 71.5	86.0 75.0	75.6 68.0
No. 4.	77.4	86.4	76.5
Max. inst. ext	90.7 77.1		
Min — " —	73.5 76.7		
Gauge, 4 inches	0		
Auroras			Twilight & clouds
Zod. light			Twilight & clouds
Wind	1 W	2 W	1 W
Clouds	10 Pm 7m →	7 Pm Rs 7m →	2 Rs M 7m

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1879phae.proj...378

MONDAY, AUGUST 4, 1879.

	8	2	8
Bar.	29.952	29.946	29.928
Att. therm.	70.3	80.8	81.2
Psy cl. dry & wet	73.2 66.6	81.0 68.4	73.3 67.9
Ho. th.	73.4	82.1	74.2
Max. inst. ext.	88.5 73.0		
Min — " —	67.4 72.3		
Gauge, cy & inches			
Aurora			
Zod. light			Cloudy
			Cloudy
Wind	1 NNW	3 SE	0 S
Clouds.	9 PRS 7m	10 Pm 7m →	10 Pm; a few drops of rain.

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1879phae.proj...378

TUESDAY, AUGUST 5, 1879.

	8	2	8
Bar.	29.900	29.848	29.850
Att. therm	75.7	81.9	83.6
Psych. dry & wet	72.4 68.2	86.7 72.3	77.3 70.7
No. 4	72.7	87.3	78.2
Max. inst & set	83.9 72.0		
Min — " —	66.0 71.9		
Gauge, &c & under	0		
Aurora			
Zod. light			Twilight & clouds
			Cloudy
Wind	1 SW	2 WSW	2 SW
Clouds.	1 Rs Fm	5 Rs Fm →	0 Pm Rs Fm

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1879phae.proj...378

WEDNESDAY, AUGUST 6, 1879.

	8	2	8
Bar.	29.800	29.775	29.790
Att. therm.	77.8	85.7	83.0
Psy. dr. dry & wet	77.2 71.9	85.1 65.2	76.3 64.0
No. H.	72.4	85.5	77.1
Max. mer. & set.	86.8 76.9		
Min — " —	71.4 76.4		
Gauge ag. & index	0		
Aurora			
Fog light			Cloudy Cloudy
Wind	3 W	10 WNW	3 W
Clouds.	0 haze	1 Rs R 7m	5 Pm 7m

A few drops of rain reported to have fallen about 3 A. M.

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1879phae.proj.:378

THURSDAY, AUGUST 7, 1879.

	8	2	8
Bar.	29.930	29.884	29.875
Att. therm	72.2	76.3	78.8
Psych. 2 inches	62.3 53.3	78.3 61.6	66.1 60.7
No. H.	62.6	78.5	67.2
Max unset ort	85.2 62.9		
Rain — " —	57.0 62.1		
Gauge 2 inches	0		
Aurora			
Zod light			Twilight 2 clouds
			Twilight 2 clouds
Wind	6 NW	1 W	1 SW
Clouds.	6 P Rs Fm →	7 Pm Fm →	1 Rs Fm

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1879phae.proj...378

FRIDAY, AUGUST 8, 1879.

	8	2	8
Barr.	29.814	29.800	29.842
Att. therm.	72.4	72.6	71.8
Psych. dry & wet.	64.7 63.5	66.1 61.4	60.8 60.3
No. H.	65.3	66.4	61.3
Max. in set & set	78.2 65.7		
Min — " —	61.3 65.0		
Gauge, & inches	0 3/8 0.033		
Aurora			Cloudy
God. light.			Cloudy
Wind	0 calm	6 E	1 NE
Clouds.	10 Pm fog	10 Pm	10 Pm; a little fine rain.

A little rain previous night

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1879phae.proj...378

SATURDAY, AUGUST 9, 1879.

	8ª	2	8
Barr.	29.894	29.896	29.942
Att. Therm	68.7	71.0	72.8
Psych. dry & wet	62.3 58.7	71.4 63.7	62.8 61.6
No. 41	62.6	72.2	64.2
6-3235	62.8	71.8	64.0
Max. wet & set	67.5 62.8		
Min — " —	58.1 62.2		
Gauge, cg & index	0 1/8 0.011		
Aurora			Cloudy
Zod. light			Cloudy
Wind	3 NW	0 SE	0 E
Clouds.	10 Pm Fm	10 Pm M Fm	10 Pm Fm

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1879phae.proj...378

SUNDAY, AUGUST 10, 1879.

	8	2	8
Barr.	29.962	29.970	30.038
Att. Therm.	66.9	70.9	73.1
Psyd. dry & wet	59.9 52.9	70.4 59.5	62.5 58.4
No. H.	60.0	70.6	63.8
Max. since 8 set	71.9 60.0		
Min — " —	55.0 59.5		
Gauge, eg & indus	0		
Aurora			
Zod. light			Twilight 8 hours Twilight
Wind	3 NNW	2 ENE	1 SE
Clouds.	1 Pa R 7m	5 M 7m	0 Pm 7m

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1879phae.proj...378

MONDAY, AUGUST 11, 1879.

	8	2	8
Bar.	30.057	30.163	30.121
Att. Therm.	64.7	72.1	74.6
Psychr. dry & wet	60.3 56.7	757 613	65.0 57.2
No. 4.	60.0	75.6	66.1
Max. wet & set	72.3 59.8		
Min — " —	52.0 59.5		
Gauge, grinder	0		
Aurora			Clouds & haze
Zod light			Clouds & haze
Wind	0 calm	1 E	1 SE
Clouds.	0 haze	1 haze Fm	1 P Rs haze

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1879phae.proj...378

TUESDAY, AUGUST 12, 1879.

	8	2	8
Bar.	30.162	30.139	30.127
Att. Therm.	65.4	74.6	76.5
Psych. dry & wet	64.9 61.7	78.2 69.1	71.3 68.3
No. 4.	64.9	79.1	72.7
Max. wet & set	75.2 64.4		
Min — " —	56.9 64.1		
Gauge & inches	0		
Aurora			
Zod. light			Cloudy Cloudy
Wind	0 calm	3 E	2 SSE
Clouds.	1 haze	H M ~~Cloudy~~ Fair → haze	3 Pm Fair haze

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1879phae.proj...378

WEDNESDAY, AUGUST 13, 1879.

	8	2	8
Bar.	30.100	30.028	30.005
Att. Therm.	70.6	78.2	78.3
Psychr. dry & wet	68.0 65.3	83.9 70.7	70.2 62.9
Rel. H.	68.0	84.5	71.0
Max. since obs.	81.3 67.7		
Min " "	61.0 67.1		
Gauge & inches	0		
Aurora			
Zod. light			
Wind	2 SW	3 SW	5 SSW
Clouds.	2 haze	5 M 7m haze	7 P Rs

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1879phae.proj...378

THURSDAY, AUGUST 14, 1879.

	8	2	8
Bar.	29.850	29.742	29.794
Att. Therm	72.0	78.9	78.3
Psych. dry & wet	71.4 67.5	84.4 71.4	71.0 67.1
Mo. th.	71.8	84.4	72.0
Max. under & set	85.0 71.2		
Min. — " —	64.7 71.0		
Gauge, oz. & inches	0		
Aurora			
Zod. light			Cloudy Cloudy
Wind	7 SW	7 SSW	2 SW
Clouds.	9 Pm M 7m	5 M 7m large	9 Pm 7m

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1879phae.proj...378

FRIDAY, AUGUST 15, 1879.

	8	2	7
Barr.	30.018	30.077	30.134
Att. Therm.	69.7	73.2	75.0
Psych. dry & wet.	62.9 55.0	70.3 59.7	63.3 56.6
No. 4.	63.1	71.0	64.5
Max. in set & set	84.8 63.2		
Min. — " —	60.1 62.8		
Gauge, 2 inches	0		
Aurora			
Zod. light			
Wind	7 N	2 NE	0 ESE
Clouds.	7 Pr Rs	6 Pr Rs M Fm → Nmb	10 Pm Fm →

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1879phae.proj...378

SATURDAY, AUGUST 16, 1879.

	8	2	8
Barr.	30.204	30.119	29.996
Att. Therm.	67.7	67.2	65.7
Psych. dry & wet	56.3 56.8	56.3 54.9	55.3 54.9
No. 4.	58.6	56.9	56.0
Max. on set & Set.	71.0 69.0		
Min — " —	56.6 58.1		
Gauge, 24 & 8 inches	0 1/8 0.011		
Aurora			Cloudy
God. light			Cloudy
Wind	1 ENE	3 SE	6 E
Clouds.	10 Pm; raining	10 Pm 7m raining	10 Pm; raining

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1879phae.proj...378

SUNDAY, AUGUST 17, 1879.

	8	2	8
Bar.	29.958	29.989	30.037
Att. Therm.	63.1	63.1	64.2
Psych. dry and wet	55.7 55.3	58.1 56.9	56.0 55.8
Sea H.	56.1	58.4	56.6
Max. since Set.	63.0	56.0	
Min. — " —	54.6	55.6	
Gauge gain. Aurora	9 3/8	0.794	
Zod. light			Cloudy Cloudy
Wind	3 NNE	3 NE	1 NE
Clouds.	10 Pm mist	10 Pm	10 Pm mist

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1879phae.proj...378

MONDAY, AUGUST 18, 1879.

	8	2	8
Barr.	30.039	29.970	29.754
Att. Therm.	63.1	63.2	65.1
Psych. dry bulb	58.9 59.0	61.1 60.3	59.5 59.5
Mo. H.	59.2	61.5	60.1
Max unset obst	58.6 58.6		
Min — " —	55.2 58.6		
Gauge, ozonides	1 7/8 0.165		
Aurora			
Zod. light.			Cloudy Cloudy
Wind	1 NE	2 N	4 N
Clouds.	10 Pm fog; raining	10 Pm	10 P; raining

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TUESDAY, AUGUST 19, 1879.

	8	2	8
Bar.	29.740	29.881	30.040
Att. Therm	64.1	70.8	71.3
Psych dry bulb	64.5	60.4	73.3	64.3	64.6	58.7
No. 4.	64.7	73.7	65.0
Max. unset set	62.8*	62.7
Min — " —	58.0	64.0
Gauge gradient	46	4.060
Aurora			None
Zod. light			None
Wind	7 NW	6 WNW	3 NW
Clouds.	2 Pm Fm	2 10 Fm	0 Pm

* Wet.

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1879phae.proj..378

WEDNESDAY, AUGUST 20, 1879.

	8	2	8
Barr.	30.158	30.121	30.111
Att. Therm.	61.8	69.3	72.7
Psychr. dry & wet	60.5 55.8	73.5 59.8	65.0 61.0
No. H.	60.4	73.7	66.4
Max. since 8 set	73.5 60.0		
Min — " —	52.8 59.9		
Gauge & inches	0		
Aurora			None
Zod. light			None
Wind	1 W	1 NW	0 calm
Clouds.	1 Pm 7m	0 7m	0 Pm 7m

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1879phae.proj...378

THURSDAY, AUGUST 21, 1879.

	8	2	8
Barr.	30.110		30.002
Att therm	65.7		75.7
Psych. dry wet	65.1 63.0		71.3 66.8
No. 4.	65.2		71.9
Max. unset wet	74.2 64.8		
Min — " —	58.1 64.4		
Gauge 2 inches	0		
Aurora			
God. light			
Wind	1 WSW.		3 SW
Clouds.	1 haze Rs		9 P Fine

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1879phae.proj...378

FRIDAY, AUGUST 22, 1879.

	8	2	8
Bar.	29.899	29.818	~~29~~
Att. therm	70.6	81.3	
Psych. dry & wet	70.3 68.0	84.6 76.2	
No 4.	70.7	84.5	
		85.0	
Max — since set	82.0 70.1		
Min. — " —	64.1 70.0		
Gauge. & index	0		
Aurora			
Zod. light			
Wind	2 W S W	5 S W	
Clouds	10 Pm 7m —; a little rain	1 Pm slight haze.	

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1879phae.proj...378

SATURDAY, AUGUST 23, 1879.

	7 3/4 8	2	8
Bar.	29.668	29.658	
Att. therm	74.3	81.0	
Psyche, dry & wet.	73.0 69.3	82.2 71.3	
No. 4.	73.5	82.8	
Max. since last set	54.5 73.2		
Min. — " —	69.5 72.5		
Gauge of circles			
Aurora			
Zod. light			
Wind	N 5 W 6	S. W. 6. W. 3.	
Clouds.	10 P.M. also slight haze	4 Cum. Str.	

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1879phae.proj - 378

SUNDAY, AUGUST 24, 1879.

	8 3/4	2	8
Bar.	29.748		
Att. Therm.	71.6		
Psych. dry & wet	73.1 67.2		
No. 4	73.4		
Max. wet & dry	83.1 72.7		
Min — " —	61.2 72.5		
Gauge oz & inches.			
Aurora			
Zod. light.			
Wind	S by S 3		
Clouds	2 Pm		

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1879phae.proj...378

MONDAY, AUGUST 25, 1879.

	8	2	8
Barr.	29.798	29.826	
Att. Therm	67.5	73.5	
Psych dry bulb	63.0 59.3	69.5 61.5	
No. 4.	63.2	70.0	
Max max to set	80.8 63.6		
Min — " —	59.8 62.3		
Gauge of melo			
Aurora			
Zod. light			
Wind		S. E. 4.	
Clouds.		3 Cum. Str.	

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1879phae.proj...378

TUESDAY, AUGUST 26, 1879.

	8	2 3h 30m	8
Bar.	29.940	29.976	30.002
Att. Therm.	66.6	64.2	64.7
Psych dry & wet	59.4 √57.3	61.3 √56.8	57.0 √54.2
No. 4.	59.6	62.1	57.6
Max. — set	73.3 59.√		
Min — " —	58.6 59.0		
Gauge & index	7 g. 0.618		
Aurora			
Zod. light			
Wind	N.E.E. 5	E. N. E. 7.	N.E. 3
Clouds	10 P m	11 Cir. Cum.	3

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1879phae.proj..378

WEDNESDAY, AUGUST 27, 1879.

	9¼ A	2, 30	7¾ P
Barr.	30.040	30.046	30.070
Att. Ther	63.5	65.2	65.1
Psych dry bulb	61.6 57.5	61.8 57.6	58.8 56.9
Abs. H.	62.0	62.5	59.4
Max. since last set	63.6 61.7		
Min — " —	52.7 61.3		
Gauge & inches Amount	0		
Cond. light			
Wind	N E 15 10	E by S. E. 7.	N. E 2
Clouds.	10 P m	8 Cum. Str.	10 P m

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1879phae.proj..378

THURSDAY, AUGUST 28, 1879.

	6	2	8
Barr.	30.100	30.100	30.095
Att. Therm.	60.2	67.2	67.0
Psych. dry & wet	~~59.4 56.7~~ ~~56.8 59.1~~	65.4 59.6	55.4 54.0
Sto. H.	59.5	66.1	56.2
Max. wet & set	63.1 59.3		
Min. — " —	50.5 58.7		
Gauge 24 inches	0		
Aurora			
Zod. light			Moonlight Moonlight
Wind	N.E. 6	3 ESE	0 NE
Clouds.	0	1 M Fm	0 P haze

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1879phae.proj...378

FRIDAY, AUGUST 29, 1879.

	8	2	8
Bar.	30.042	29.969	29.920
Att. Therm.	59.8	68.8	71.8
Psych. dry ~~wet~~	58.1 55.3	70.3 → 68.2	67.4 65.6
No. 4.	57.3	75.3	67.8
Max ~~wet~~ dry set	66.0 57.5		
Min — " —	50.0 57.1		
~~Aurora~~ Gegenschein under	0		
~~Aurora~~ ~~Zodiacal light~~ Zodiacal light			Moonlight and clouds Moonlight and clouds
Wind	0 calm	1 SW	0 SW
Clouds	1 P Fm	6 M fm → haze	1 P haze

* Lightning without thunder in the northeast about 8 P.M.
Rain about 10 P.M.

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1879phae.proj...378

SATURDAY, AUGUST 30, 1879.

	8	2	8
Bar.	29.964	29.978	29.993
Att. therm	65.2	68.6	71.3
Psych. dry & wet	62.0 58.1	70.3 64.8	64.0 58.7
No. 4.	62.3	70.2	64.7
6.3235	62.1	70.4	64.8
Max. since last obs.	76.0 62.0		
Min — " —	57.0 61.6		
Gauge 2 inches	1/8 0.099		
Aurora			
Zod light			Moonlight
			Moonlight
Wind	6 N	4 SE	0 N
Clouds	2 Pm 7m	4 M 7m \ haze	0

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1879phae.proj.378

SUNDAY, AUGUST 31, 1879.

	8	2	8
Bar.	29.984	29.940	29.952
Att. therm	64.9	70.4	73.8
Psychrometer	63.2 57.9	75.5 62.4	69.0 63.0
Mo. H.	63.6	75.9	69.5
Max. since set	70.5	63.0	
Min — " —	56.0	62.8	
Gauge of winds	0		
Aurora			
Zod. light			Moonlight
			Moonlight
Wind	6 NW	3 WNW	0 calm
Clouds	0	0	0

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1879phae.proj...378

MONDAY, SEPTEMBER 1, 1879.

	8	2	8
Bar.	29.956	29.935	29.949
Att. therm.	67.2	74.8	77.4
Psych. dry & wet.	65.4 62.0	83.3 74.4	72.7 70.0
No. 4.	65.4	83.8	73.1
Max. inset & set	76.2 65.0		
Min — " —	58.1 64.9		
Gauge, 0 & inches	0		
Aurora			
Zod. light			Moonlight & haze Moonlight & haze
Wind	0 calm	2 SSW	2 SSW
Clouds.	0 haze	1 haze	4 haze

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1879phae.proj...378

TUESDAY, SEPTEMBER 2, 1879.

	8	2	8
Bar.	29.975	29.979	30.064
Att. therm	71.9	77.7	79.1
Psych dry out	71.5	84.1	74.3
" wet	68.4	76.1	68.7
No. 4	71.8	84.7	75.2
Max. " out	83.7	71.0	
Min — " —	64.5	70.8	
Gauge, oz & inches	0		
Aurora			
Zod. light			
			Cloudy
			Cloudy
Wind	0 S	3 SW	4 NW
Clouds.	10 haze	8 P Rs haze	10 Pm

8 P.M. Some lightning and a little thunder.
A few drops of rain later

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1879phae.proj...378

WEDNESDAY, SEPTEMBER 3, 1879.

	8	2	8
Bar.	30.054	30.023	30.012
Att. therm	73.0	74.5	74.7
Sydn. dry & wet	68.1 67.1	74.7 70.1	64.6 64.2
No. 4.	68.6	75.3	65.4
May unset & set	65.2 68.5		
Min — " —	65.9 67.9		
Gauge oz & inches	0		
Aurora			
God. light			Cloudy Cloudy
Wind	2 NE	2 NE	2 NE
Clouds.	10 Pm fog	8 Pm fm ∫ haze	10 Pm fog

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1879phae.proj...378

THURSDAY, SEPTEMBER 4, 1879.

	8	2	8
Bar.	29.850	29.774	29.844
Att. thermr.	70.2	70.7	70.8
Psych. dry & wet	63.0 62.6	66.8 66.1	63.0 62.9
No. 4.	63.5	67.3	63.8
Max. ouet. set.	75.0 63.7		
Min — " —	62.3 63.0		
Gauge 2 inches	7/8 0.629		
Aurora			
Zod. light			Cloudy
			Cloudy
Wind	6 ESE	1 E	6 N
Clouds.	10 Pm mist	10 Pm mist	10 Pm

Rain previous night.

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1879phae.proj...378

FRIDAY, SEPTEMBER 5, 1879.

	8	2	8
Bar.	29.962	29.954	30.036
Att. therm	70	71.6	71.8
Psych. dry & wet.	61.5 60.0	69.8 59.1	60.7 56.5
No. 4.	61.7	70.2	61.2
Max in set & set	67.2 61.9		
Min — " —	57.5 61.0		
Gauge & inches	0 1/8 0.011		
Aurora			0
Zod. light			0
Wind	3 NW	8 NW	1 NW
Clouds.	6 Pm 7m ↘	2 Pm 7m ↘	0
			Wlob

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SATURDAY, SEPTEMBER 6, 1879.

	9 ~~8~~		2		8
Bar.	30.116		30.086		
Att. therm	63.2		68.6		
Psych. dry & wet	58.2	53.0	68.4	59.4	
No. 4.	58.0		68.6		
Max. inst. & set	70.7	60.8			
Min. — " —	50.2	57.5			
Gauge 99 inches	0				
Aurora					
Zod. light					
Wind	1 N		1 NW		
Clouds.	0		0		
	W.U.				

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1879phae.proj...378

SUNDAY, SEPTEMBER 7, 1879.

	8	2	8
Bar,	30.110	30.070	
Att therm	65.6	70.8	
Psych dry & wet	63.4 1 61.2	73.5 64.5	
No 4.	63.7	73.7	
Max wet & set	69.8 63.4		
Min — " —	56.1 63.0		
Gauge gr. index	0		
Aurora			
Zod. light			
Wind	1 SW	1 SW	
Clouds.	5 Pm Fm → huge	10 Pm N Fm → Fm	

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1879phae.proj...378

MONDAY, SEPTEMBER 8, 1879.

	8	2	8,15
Bar.	29.822	29.768	29.805
Att therm	70.0	72.2	71.7
Psych. dry & wet	67.1 66.5	73.9 67.6	65.6 60.5
Alc. th.	67.7	74.2	66.8
Max inset out	74.3 67.3		
Min — " —	63.0 67.0		
Gauge of 2 inches	2 5/8 0,232		
Aurora			0
Zod. light			0
Wind	6 SW	2 WSW	2 SW
Clouds,	10 Pm Fm / some rain	5 Pm M Fm / Rs	0

W.C.

Thunder shower previous night

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1879phae.proj...378

TUESDAY, SEPTEMBER 9, 1879.

	8	2	7½
Barr.	29.921	29.962	30.044
Att Temp.	63.3	67.8	69.0
Psych. dry & wet	57.4 53.8	67.4 59.2	61.3 57.8
No. 4	57.6	67.6	62.3
Max. wet & dry	74.5 57.7		
Min. — " —	51.3 56.9		
Gauge oz & inches	1⅛ 0.099		
Aurora			
Zod light			None; some clouds
			None; some clouds
Wind	3 W	2 WNW	0 W
Clouds,	0	10 Pm M 7m	3 Pm 7m

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1879phae.proj...378

WEDNESDAY, SEPTEMBER 10, 1879.

	8	2	8
Barr.	30.212	30.248	30.317
Att. therm	62.8	68.6	69.0
Psych. dry & wet	57.7 53.2	67.5 56.0	60.0 58.3
Sky. t.	58.0	67.7	60.9
Max. in set & set	68.0 58.0		
Min — " —	52.8 57.6		
Gauge & inches	0		
Aurora			
Zod. light			
Wind	1 N	5 N	0 calm
Clouds.	7 Cu Fm →	2 M Fm →	9 Fm

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1879phae.proj...378

THURSDAY, SEPTEMBER 11, 1879.

	8	2	8
Barr.	30.360	30.349	30.337
Att. Therm	59.2	67.5	67.8
Psych dry & wet	55.0 52.7	61.1 56.0	58.1 56.5
Rel. H.	55.1	61.4	58.8
Max. since last set	67.6 55.4		
Min — " —	49.5 54.4		
Gauge & inches	0		
Aurora			
God. light			Cloudy Cloudy
Wind	1 N	1 NNE	0 N
Clouds.	7 Pm Fm 1	9 Pm M Fm 1	5 Pm Large

A little rain 1 to 2 P.M.

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1879phae.proj...378

FRIDAY, SEPTEMBER 12, 1879.

	8	2	8
Bar.	30.277	30.214	30.183
Att. therm	58.6	66.8	68.4
Psych. dry and wet	53.0 52.2	66.8 57.6	57.9 55.0
No. 4.	53.2	66.9	58.8
Max. since last set.	66.2 53.5		
Min — " —	47.8 52.7		
Gauge eg a inches	1¼ 0.110		
Aurora			None
Zod. light			None
Wind	0 W	0 calm	2 S
Clouds	0	5 Pm N 7m →	0

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1879phae.proj...378

SATURDAY, SEPTEMBER 13, 1879.

	8	2	8
Barr.	30.116	30.080	30.100
Att therm	63.0	67.8	67.4
Psychrometer	57.8 56.3	69.0 58.0	60.8 57.0
No. 4.	57.3	69.6	61.6
6.3235	58.0	69.7	61.2
Max. inst o set	68.8 57.3		
Min — " —	49.2 57.0		
Gauge 0 inches	0		
Aurora			
Zod. light			Cloudy Cloudy
Wind	0 S	2 SSW	2 S
Clouds.	7 Pr Rs 7m →	9 Pm 7m →	9 P

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1879phae.proj...378

SUNDAY, SEPTEMBER 14, 1879.

	8	2	8
Barr.	29.959	29.916	29.912
Att. therm	65.1	66.7	66.2
Psych. dry & wet	65.2 63.4	66.5 63.9	60.2 59.4
No. 4.	65.3	66.8	60.6
Max. — " —	69.1 65.0		
Min — " —	56.7 64.7		
Gauge 24 inches	0 1/2 0.044		
Aurora			Cloudy
Zod. light			Cloudy
Wind	5 S	1 SSW	0 SW
Clouds.	10 Pm	10 Pm Fm S	9 Pm

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1879phae.proj...378

MONDAY, SEPTEMBER 15, 1879.

	8	2	8
Barr.	30.130	30.164	30.192
Att. therm	59.1	67.4	68.4
Psych dry wet	55.3 52.5	67.2 60.3	58.8 57.7
No. 4.	55.5	67.4	59.8
Max. in set o set	68.2 55.4		
Min — " —	51.8 54.9		
Range 24 inches	2½ 0.221		
Aurora			None
Zod light			None
Wind	1 WSW	1 W	0 S
Clouds	0 Rs	5 M Fm →	1 Pm Fm Frags

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1879phae.proj.:378

TUESDAY, SEPTEMBER 16, 1879.

	8	2	8
Barr.	30.068	29.950	29.888
Att. Therm	62.8	64.6	64.7
Psych dry & wet	57.5 57.0	60.4 57.0	57.7 57.8
No. 4	57.9	60.9	58.2
Max. since last	68.7 58.0		
Min — " —	52.8 57.2		
Gauge & inches	0		
Aurora			
Zod. light			Cloudy
			Cloudy
Wind	0 calm	3 ENE	0 calm
Clouds.	10 P fog; raining	10 Pm 7m	10 P mist

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1879phae.proj...378

WEDNESDAY, SEPTEMBER 17, 1879.

	8	2	8
Barr.	29.794	29.827	30.006
Att therm	63.7	70.2	66.6
Psych. dry bulb	65.0 63.6	69.8 58.1	60.0 52.5
No. 4	65.3	70.2	60.0
Max. max set	64.7 64.7		
Min — " —	56.3 64.5		
Gauge gauges	0 7/8 0.077		
Aurora			None
Zod. light			None
Wind	6 SSW	5 WSW	0 W
Clouds.	9 Cu Fm	1 N Fm	0

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1879phae.proj...378

THURSDAY, SEPTEMBER 18, 1879.

	8	2 1/4	7 1/4
Barr.	30.141	30.130	30.132
Att. therm	58.1	66.8	67.8
Psych dry & wet	53.6 49.5	70.0 59.3	61.8 56.0
Mod. 4	53.4	70.3	62.2
Max wet & set	71.2 54.0		
Min — " —	46.4 52.9		
Snow gauge inches	0		
Aurora			
Zod. light			Cloudy Cloudy
Wind	2 SW	4 S	3 S
Clouds.	0 P Rs haze	1 haze	10 Rn

A little rain about 10 P. M.

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1879phae.proj...378

FRIDAY, SEPTEMBER 19, 1879.

	8	2	8
Barr.	30.162	30.184	30.250
Att. therm	63.8	67.0	65.8
Psych dry & wet	58.0 57.5	65.4 55.5	55.0 52.9
No. 4	58.6	65.7	56.0
Max on set oset	69.3 58.5		
Min — " —	52.7 58.0		
Sauge og a inches	0 1/4 0.022		
Aurora			None; haze
Zod. light			None; haze
Wind	1 NW	3 NW	0 NW
Clouds	10 Pm 7m	1 R M 7m	2 haze

A little rain early.

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1879phae.proj...378

SATURDAY, SEPTEMBER 20, 1879.

	8	2	8
Barr.	30.270	30.238	30.315
Att. therm	59.4	64.9	66.0
Psych. dry & wet	50.8 49.5	66.0 58.2	56.9 54.0
Sto. 4.	51.0	66.8	57.4
6.3235	51.4	66.5	57.9
Max. on set of Ht	65.7 51.4		
Min — " —	45.0 50.1		
Gauge & index	0		
Aurora			
Zod. light			None; some clouds Moonlight and clouds
Wind	1 NW	3 S	3 NE
Clouds.	4 P Rs Fm haze	7 PM Fm haze	1 Pm Fm

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1879phae.proj...378

SUNDAY, SEPTEMBER 21, 1879.

	8	2½	8
Barr.	30.390	30.396	30.427
Att. therm	52.2	62.3	63.2
Psych. dry & wet	45.2 44.8	61.3 56.3	53.6 52.2
No. 4.	45.8	61.9	54.4
Max. wet & dry	67.0 46.3		
Min — " —	42.5 45.0		
Sunspots & marks	0		
Aurora			
Zod. light			Cloudy
			Cloudy
Wind	1 NW	1 E	0 calm
Clouds.	6 Pr Fm →	9 Pr Fm	9 P

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1879phae.proj...378

MONDAY, SEPTEMBER 22, 1879.

	8	2	8
Bar.	30.364	30.276	30.179
Att. therm.	58.3	60.8	60.2
Pzdr. dry air	52.6 51.8	56.9 53.5	53.6 52.2
Nor. 4.	53.0	57.7	54.0
Max. in set to set	62.3 53.4		
Min — " —	44.9 52.2		
Large g o miles	0		
Aurora			
Zod. light			
			Cloudy
			Cloudy
Wind	2 N	4 SE	2 N
Clouds.	10 Pm 7m; a few drops of rain	10 Pm 7m; a little rain	10 Pm

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1879phae.proj...378

TUESDAY, SEPTEMBER 23, 1879.

	8	~~2~~ 3	8
Barr.	30.066	29.988	30.018
Att. Therm	58.5	65.9	66.3
Psych. dry & wet.	53.6 51.6	69.5 63.7	61.2 59.8
No. 4.	53.9	69.8	61.7
Max in set & set	58.9 54.2		
Min — " —	52.1 53.2		
Gauge, eg & inches	0 1/4 0.022		
Aurora			
Zod. light			Moonlight & clouds
			Moonlight & clouds
Wind	3 NW	1 SSW	3 SSW
Clouds	10 Rm	2 Haze Rs Fm	3 Phaze

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1879phae.proj...378

WEDNESDAY, SEPTEMBER 24, 1879.

	8	2 3/4	8
Bar.	29.902	29.800	29.910
Att. therm	62.3	67.1	64.2
Psych. dry & wet	59.5 59.2	56.8 55.7	51.8 51.7
No. 4	59.7	57.8	53.0
Max — " —	69.0 59.7		
Min — " —	53.1 59.0		
Large gaseous Aurora	0		
Zod. light			Moonlight
			Moonlight
Wind	0 SSW	16 NNW	0 SW
Clouds.	10 P fog	10 Pm; raining	0 Fm →

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1879phae.proj...378

THURSDAY, SEPTEMBER 25, 1879.

	8	2	8
Barr.	30.151	30.194	30.264
Att. therm	52.3	58.2	57.4
Psych. dry & wet	41.8 37.0	51.8 43.3	44.0 40.6
No. 4	42.3	52.4	44.7
Max & set & rt	73.0 43.0		
Min — " —	41.0 41.9		
Range & winds	2 3/4 0.24 3		
Aurora			
Zod. light			Moonlight
			Moonlight
Wind	7 NNW	6 NNW	1 N
Clouds,	0	1 Fm ↘	0 Rs

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1879phae.proj...378

FRIDAY, SEPTEMBER 26, 1879.

	8		2		8	
Barr.	30.399		30.388		30.417	
Att. thm	49.6		58.4		58.3	
Psych. dry bulb	39.7	38.2	55.5	47.9	47.0	44.1
No. 4	39.9		55.9		48.0	
Max in set o at	52.5	40.3				
Min — " —	34.8	39.2				
Large g. inches	0					
Aurora						
Zod. light					Moonlight	
					Moonlight	
Wind	2 NNW		2 ESE		2 SE	
Clouds,	0 haze		1 haze Fm		0	

A little white frost this morning.

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1879phae.proj...378

SATURDAY, SEPTEMBER 27, 1879.

	8		2		8	
Barr.	30.448		30.387		30.365	
Att therm	52.6		58.8		57.4	
Psychrometer	42.7	42.5	58.0	51.5	49.2	46.6
Mer. 4.	42.8		58.3		50.0	
C. 3235	43.9		58.6		50.0	
Max since set	56.0	43.6				
Min — " —	36.3	42.3				
Gauge 0 index	0					
Aurora						
Zod. light					Moonlight	
					Moonlight	
Wind	0 SW		3 E		2 S	
Clouds	0 haze		0 haze		0	

A little white frost this morning.

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1879phae.proj...378

SUNDAY, SEPTEMBER 28, 1879.

	8	2	8
Barr	30.364	30.293	30.301
Att. therm	52.0	61.0	61.0
Psych dry & wet	47.0 46.7	64.5 57.9	55.8 54.8
No. 4	46.9	65.1	56.6
Max. on set & set	58.6 47.2		
Min — " —	40.7 46.3		
Sargent index	0		
Aurora			
Zod light			Cloudy Moonlight and clouds
Wind	1 SW	3 S	2 S
Clouds.	6 Pm Fm Cirro	10 Pm Fm —	5 Pm Fm Cirro

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1879phae.proj...378

MONDAY, SEPTEMBER 29, 1879.

	8	2	8
Barr.	30.320	30.262	30.245
Att. Ther	58.2	65.7	65.6
Psych. dry & wet	58.7 57.2	71.6 64.6	61.2 59.0
No. 4,	58.9	71.9	62.3
Max. in set & set	65.0 58.3		
Min — " —	46.1 58.0		
Gauge g. & indus	0		
Aurora			
Zod light			Cloudy
			Cloudy
Wind	3 S	5 SSW	3 SSW
Clouds.	8 Pm Fm	9. P	7 P

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1879phae.proj...378

TUESDAY, SEPTEMBER 30, 1879.

	8	2	8
Barr.	30.231	30.192	~~30.050~~
Att. therm	61.0	71.4	~~60.6~~
Psych dry & wet	59.6 58.1	78.5 68.1	
Rel. H.	59.6	79.0	
Max. & min ☉ set.	72.0 59.3		
Min — " —	55.9 58.9		
Sunsp. & indic.	0		
Aurora			
Zod. light.			
Wind	3 W	4 W	
Clouds.	5 P Rs haze	3 P Rs	

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1879phae.proj...378

WEDNESDAY, OCTOBER 1, 1879.

	8	2	8
Bar.			
Att. Therm.			
Psych. dry & wet			
No 41.			
Max. & min set & set			
Min —"—			
Gauge. 0.0 inches			
Aurora			
Zod light			
Wind			
Clouds.			

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1879phae.proj...378

THURSDAY, OCTOBER 2, 1879.

	8	2	8
Bar.			
Att. Therm.			
Rgd. dry & wet.			
No. H			
Max. sunset & set			
Min — " —			
Gauge 9 & 0 inches			
Aurora			
God light			
Wind			
Clouds.			

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1879phae.proj...878

FRIDAY, OCTOBER 3, 1879.

	8	2	7 1/4 8
Bar.			29.957
Att. Therm.			72.5
Psych. dry & wet.			69.3 57.0
No. 4.			69.8
Max. in set & set			
Min. — " —			
Gauge. & inches			
Aurora			
Zod. light			
Wind			6 SW.
Clouds.			10 Pm

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1879phae.proj...378

SATURDAY, OCTOBER 4, 1879.

	7 3/4 8	2	8
Bar.	30.014		
Att. therm.	63.0		
Psych. dry & wet.	54.9 49.0		
No. 41.	55.0		
Alcoh. max & min	82.2 54.9		
Min — " —	51.8 — 54.2		
Gauge. 0 & inches.	0		
Aurora			
Zod. light.			
Wind	4 N.W		
Clouds.	0 haze		

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1879phae.proj...378

SUNDAY, OCTOBER 5, 1879.

	8	2	8
Bar.			
Att. therm			
Psych. dry & wet.			
No. 4.			
Max. wet & dry			
Min — " —			
Gauge & winds			
Aurora.			
Zod. light.			
Wind			
Clouds.			

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1879phae.proj...378

MONDAY, OCTOBER 6, 1879.

	8	2	8
Bar.	30.286		30.386
Att. therm	63.0		62.0
Psych. dry & wet	52.9 52.2		53.4 51.7
Ho. H.	53.2		54.0
Max. unset & set.	74.7 54.5		
Min — " —	50.2 52.4		
Gauge. 3 circles	0		
Aurora			
Zod. light.			
Wind	3 NEE		
Clouds.	10 P		10 Pm

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1879phae.proj...378

TUESDAY, OCTOBER 7, 1879.

	8		2		8	
Bar.	30.372		30.249		30.236	
Att. therm.	59.8		66.3		68.1	
Psych. dry & wet	53.5	51.5	71.4	62.6	63.6	60.0
No. 4	54.0		71.6		64.4	
Max. unset & set	55.4	54.4				
Min. — " —	52.0	53.1				
Gauge 4 inches.	0					
Aurora						×Suspected; hazy
Zod light						Hazy
Wind	1 SW		5 WSW		1 SW	
Clouds.	10 Pm		1 haze		1 haze	

×Distinct soon afterwards; gone again at 8 3/4 P.M. Sky dark below.

108.0
71.6
128.8
308.4
61.68

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1879phae.proj...378

WEDNESDAY, OCTOBER 8, 1879.

	8	2	8
Barr.	30.206	30.122	30.097
Att. therm.	64.0	73.1	74.2
Psych. dry & wet	63.9 60.8	82.5 70.3	69.9 64.5
No. H.	64.1	83.0	70.6
Max. in set ort.	71.8 63.7		
Min — " —	53.1 63.3		
Gauge. & inches	0		
Aurora			None; hazy
Zod. light			None; hazy
Winds	1 W	1 WSW	0 SW
Clouds.	3 Pr Rs haze	6 Pr Fm — haze	2 haze

126.2
163.0
171.2
353.4
70.48

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1879phae.proj...378

THURSDAY, OCTOBER 9, 1879.

	8	2	8
Barr.	30.098	30.084	30.118
Att. therm	68.1	72.4	71.3
Psych dry & wet.	65.7 63.0	74.5 68.1	64.5 64.5
No. 4.	65.9	75.4	65.3
Max. inset & ext	82.2 65.7		
Min — " —	62.3 65.0		
Gauge oz & inches	0		
Aurora			
Zod. light			Cloudy Cloudy
Wind	1 NNW	1 E	0 E
Clouds.	8 Pr Fm	9 Pr Fm	10 P

131.8
75.4
130.6
337.8
67.56

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1879phae.proj...378

FRIDAY, OCTOBER 10, 1879.

	8	2	8
Bar.	30.225	30.224	30.284
Att. therm.	66.2	66.0	65.2
Psych dry & wet	59.1 59.2	61.1 59.3	57.7 57.5
No. H.	58.8	61.9	58.0
Max in set & set	76.3 59.0		
Min — " —	57.6 58.0		
Gauge. 24 & 0 inches	0		
Aurora			
Zod. light			
			Cloudy
			Cloudy
Wind	3 NE	1 E	2 NE
Clouds,	10 P mist	10 P fog	10 P fog

117.6
61.9
116.0
295.5
59.10

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1879phae.proj...378

SATURDAY, OCTOBER 11, 1879.

	8	2	8
Bar.	30.379	30.350	30.300
Att. thrm.	61.1	60.6	60.6
Psych. dry & wet	51.8 51.9	53.3 51.4	52.5 51.6
No. 4	52.4	53.8	53.4
6.3235	52.7	54.0	53.4
Max. — " —	61.6 52.9		
Min — " —	51.8 51.8		
Sunspots	0 3/4	0.066	
Aurora			
Zod. light			Cloudy
			Cloudy
Wind	5 NE	2 ENE	0 calm
Clouds.	10 Pm mist; fine rain	10 Pm	10 Pm

1048
538
1068
265-4
53.08

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1879phae.proj...378

SUNDAY, OCTOBER 12, 1879.

	8	2	8
Barr.	30.228	30.125	30.118
Att. therm.	59.1	62.0	63.3
Psych. dry & wet	54.7 54.3	66.5 63.3	55.9 55.1
No. 4.	55.0	67.0	56.6
Max. min. to set	54.7 54.9		
Min — " —	51.3 54.2		
Quantity of ozone	$0\frac{3}{8}$ 0.033		
Aurora			Hazy
Zod. light			Hazy
Wind	0 SE	1 S	2 E
Clouds	10 Pm	10 Pm Fm	5 haze

1100
670
1132
2902
58.04

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1879phae.proj...378

MONDAY, OCTOBER 13, 1879.

	8	2	8
Barr.	30.158	30.132	30.133
Att. therm	61.1	67.0	62.8
Psych dry & wet	60.0 58.4	63.8 57.3	53.8 44.0
No. 4.	60.0	64.3	54.7
Max. in set & set	67.1 59.7		
Min — " —	54.0 59.0		
Gauge, Cirrus & nebus	0		
Aurora			None
Zod. light			None
Wind	Fl N	2 SE	1 N
Clouds.	6 Pm Fm ↘	0 haze	0

120.0
64.3
109.4
293.7
58.74

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1879phae.proj...378

TUESDAY, OCTOBER 14, 1879.

	8	2	8
Bar.	30.138	30.091	30.119
Att. thrm.	53.8	61.2	62.1
Psych. dry & wet.	49.9 42.7	67.4 48.7	57.7 46.5
Abs. Hy.	50.2	67.7	58.2
Max. since last set.	67.0 50.0		
Min — " —	44.0 49.4		
Gauge. zero index	0		
Aurora			None suspected
Zod. light.			
Wind	H NW	10 N	1 N
Clouds.	0 Pi Ri	0 Ri	0 Haze

1004
677
1164
2845
56.90

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1879phae.proj...378

WEDNESDAY, OCTOBER 15, 1879.

	8	2	8
Bar.	30.067	29.976	30.032
Att. therm.	56.3	65.7	66.0
Psych. dry & wet;	54.3 46.5	73.2 60.1	58.4 54.0
No. 41	54.24	73.5	59.2
Max. in set & set.	67.0 54.2		
Min — " —	46.2 53.8		
Gauge. 3 & inches	0		
Aurora			
Zod. light			Hazy Hazy
Wind	1 W	2 NW	0 NE
Clouds.	7 Pm Fm haze	7P haze	6 haze

108.8
73.5
118.4
300.7
60.14

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1879phae.proj...378

THURSDAY, OCTOBER 16, 1879.

	8	2	8
Bar.	30.042	30.050	30.123
Att. therm.	60.8	69.2	69.7
Psych. dry & wet	63.9 61.0	76.9 68.5	66.4 66.2
No. 4.	64.1	77.2	67.0
Max. on ct & ct.	74.0 63.3		
Min — " —	53.0 63.1		
Gauge. 0 & index	0		
Aurora,			
Zod light			Cloudy Cloudy
Wind	0 W	1 E	2 S
Clouds.	6 P haze	4 haze	8 P haze

128.2
77.2
134.0
339.4
67.88

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1879phae.proj...378

FRIDAY, OCTOBER 17, 1879.

	8	2	8
Bar.	30.272	30.238	30.250
Att. therm	65.1	65.1	64.3
Psych. dry & wet.	59.7 56.4	61.3 58.6	58.6 55.7
Mo. H.	60.3	61.9	58.9
Max. unset. & set.	77.2 60.0		
Min — " —	59.4 59.4		
Gauge, 2 & inches	0		
Aurora			
Zod. light			
			Cloudy
			Cloudy
Wind	4 ESE	3 E	1 SE
Clouds.	10 P	10 P	10 P

120.6
61.9
117.8
300.3
60.06

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1879phae.proj...378

SATURDAY, OCTOBER 18, 1879.

	8	2	8
Bar.	30.150	30.020	29.979
Att. therm	61.0	64.6	65.0
Psych. dry & wet	53.4 53.9	68.5 63.3	62.3 61.1
No. 41	55.7	68.9	62.8
6.3235	56.0	68.9	63.0
Max. wet & dry	61.8 55.7		
Min — " —	52.2 55.0		
Gauge oz. & inches.	0		
Aurora			
Zod. light.			cloudy
			cloudy
Wind	4 SE	4 S	4 S
Clouds.	10 P fog	6 PRs 7m	10 P

Some rain in the evening.

111.4
68.9
125.6
305.9
61.18

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1879phae.proj...378

SUNDAY, OCTOBER 19, 1879.

	8	2	8
Bar.	29.812	29.889	30.027
Att. therm.	63.7	62.2	51.0
Psych. dry & wet	57.3 57.2	52.8 46.3	41.1 36.0
No. 4.	57.6	53.3	41.9
Max. max set & set	68.7 57.3		
Min — " —	55.0 57.0		
Gauge. oz. & inches	2 7/8 0.254		
Aurora			
Zod. light.			None Morning Aft
Wind	0 calm	13 NW	5 NW
Clouds.	10 Pm; raining	2 Pm Fm	0 Fm

1152
53.3
83.8
252.3
50.46

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1879phae.proj...378

MONDAY, OCTOBER 20, 1879.

	8		2		8	
Bar.	30.144		30.106		30.180	
Att. therm.	46.8		53.4		53.2	
Psych. dry & wet.	36.7	32.8	50.5	40.3	43.8	39.5
No. 4.	37.3		50.7		44.8	
Max. inset & ext.	59.4	37.8				
Min — " —	33.6	36.8				
Gauge, 2 & 9 inches	0					
Aurora						
Zod. light.					Moonlight	
					Moonlight	
Wind	6 NNW		5 NW		0 W	
Clouds	0		0 Rs		0	

A little white frost this morning.

74.6
50.7
89.6
214.9
42.98

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1879phae.proj...378

TUESDAY, OCTOBER 21, 1879.

	8	2	8
Bar.	30.184	30.148	30.170
Att. therm.	47.0	61.0	61.1
Psych. dry & wet	44.3 41.7	65.7 50.6	56.4 48.9
Rel. H.	44.6	65.9	57.0
Max. inset & set.	51.2 44.6		
Min — " —	36.6 43.7		
Gauge, 0.8 inches	0		
Aurora			
Zod. light			Cloudy
			Cloudy
Wind	3 W	3 WSW	2 S
Clouds.	0	6 PRs	9P

Fragment of lunar halo
7 to 8 P.M.

89.2
65.9
114.6
269.1
53.82

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1879phae.proj...378

WEDNESDAY, OCTOBER 22, 1879.

	8	2	8
Bar.	30.231	30.169	30.159
Att. therm.	57.7	60.0	61.4
Psych. dry out	55.0 54.4	65.3 60.5	59.7 58.1
No. 4.	55.2	65.5	60.0
Max. wet 8 oct	65.7 55.0		
Min. — " —	43.7 54.3		
Gauge .9 0 inches	0 ¼ 0.022		
Aurora			Cloudy
Zod. light			Cloudy
Wind	0 S	3 S	1 S
Clouds	10 Pm 7m ; a little mist.	10 Pm 7m	10 Pm 7m

110.4
65.5
120.0
295.9
59.18

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1879phae.proj...378

THURSDAY, OCTOBER 23, 1879.

	8	2	8
Barr.	29.949	29.847	29.832
Att. therm.	61.0	66.3	65.5
Psych. dry & wet,	63.3 62.9	70.9 64.4	60.3 54.1
No. 4.	63.6	71.8	60.8
Max. unset & set,	65.0 62.8		
Min. — " —	54.2 62.7		
Gauge, oz. & inches	0¼ 0.022		
Aurora			
Zod. light			Cloudy
Wind	7 SW	5 SW	3 NW
Clouds	10 Pm Fm	9 Pm Fm	10 Pm Fm →

127.2
171.8
121.6
3206
64.12

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1879phae.proj...378

FRIDAY, OCTOBER 24, 1879.

	8	2	8
Bar.	29.928	29.986	30.178
Att. therm.	53.5	53.1	49.7
Dy th. shyd wet.	42.3 38.0	41.0 34.2	34.0 29.8
Mn. H.	42.8	41.6	34.8
Max. inset ofst.	71.0 43.3		
Min — " —	41.2 42.0		
Gauge. 30 inches	0		
Aurora			
God. light			Moonlight Moonlight
Wind	6 NW	14 NW	4 NW
Clouds.	0 Bm 7m	10 Bm M. 7m →	0

85.6
41.6
69.6
196.8
39.36

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1879phae.proj..378

SATURDAY, OCTOBER 25, 1879.

	8	2	8
Bar.	30.484	30.508	30.630
Att. therm.	43.7	44.2	40.6
Psych. dry & wet	28.8 25.5	36.4 29.3	28.3 24.8
No. 4.	29.4	37.1	29.4
C. 3235	29.8	37.7	29.9
Max. since & set	45.7 30.5		
Min — " —	26.2 28.9		
Gauge oz & inches	0		
Aurora			
Fod. light.			Moonlight. Moonlight.
Wind	5 NW	6 NW	0 SW
Clouds.	0	2 M 7m	0

A little white frost this morning.

58.8
37.1
58.8
154.7
30.94

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1879phae.proj...378

SUNDAY, OCTOBER 26, 1879.

	8 1/4	2	8
Bar.	30.685	30.547	30.600
Att. therm.	41.0	50.0	41.0
Psych. dry & wet	27.2 24.9	52.6 40.0	40.9 34.2
No. 4.	27.7	52.4	44.3
Max. unset & set	37.8 29.0		
Min — " —	22.5 27.1		— " —
Gauge cy. inches	0		
Aurora			Moonlight
God. light.			
Wind	1 S W	4 S W	5 S W
Clouds.	0	0	0

A little white frost this morning.

55.4
52.4
82.6
190.4
38.08

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1879phae.proj.378

MONDAY, OCTOBER 27, 1879.

	8	2	8
Bar.	30.259	30.096	30.660
Att. therm	45.8	55.9	54.2
Psych. dry & wet	42.4 39.0	57.7 47.7	47.5 44.4
No. 4.	42.8	56.0	48.1
Max. unset & set	52.8 43.2		
Min. — " —	27.1 42.0		
Gauge 9.0 inches	0		
Aurora			
Zod. light			
			cloudy
			cloudy
Wind	6 SW	8 SSW	4 SW
Clouds	0 Rs	8 Pa Rs 7m	8 Rs 7m

A little white frost this morning.

A few drops of rain after 11 P.M.

85.6
58.0
96.2
239.8
47.96

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1879phae.proj..378

TUESDAY, OCTOBER 28, 1879.

	8	2 1/2	8
Bar.	29.796	29.451	29.806
Att. therm	50.8	53.8	54.2
Psych. dry & wet	48.9 47.6	53.7 53.8	47.6 47.6
No. 4.	48.7	54.1	48.4
Max. unset & set	57.9 48.7		
Min — " —	42.1 48.0		
Gauge oz & inches	0		
Aurora			
Zod. light			Cloudy Cloudy
Wind	0 E	5 SE	0 calm
Clouds.	9 Pm Fm	10 Pm Fm a little rain	10 Pm Fm

97.4
54.1
96.4
247.9
49.58

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1879phae.proj...378

WEDNESDAY, OCTOBER 29, 1879.

	8	2	8
Bar.	29.250	29.402	29.526
Att. therm.	50.8	58.7	56.1
Psych. dry & wet.	50.6 45.1	57.2 47.6	47.8 44.2
No 4.	50.9	57.7	45.3
Max. since last set	58.0	56.0	
Min — " —	45.5	49.9	
Gauge. oz & inches	4 1/8	0.364	
Aurora			
Zod. light			Moonlight Moonlight
Wind	11 W	9 W	1 SW
Clouds.	9 Cu Fm	3 haze Fm	0 P

101.8
57.7
96.6
256.1
51.22

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1879phae.proj.:378

THURSDAY, OCTOBER 30, 1879.

	8 1/4	2	8
Bar.	29.532	29.520	29.656
Att. therm.	52.7	58.1	52.500
Psych. dry & wet	49.4 44.5	55.6 44.2	45.6 40.7
No. 4.	49.7	56.0	46.3
Max. wet & set	57.5 50.0		
Min. — " —	46.0 49.0		
Gauge in inches	0		
Aurora			
God. light			
Wind	3 SW	12 W	6 W
Clouds.	1 Pm 7m	5 M 7m →	0

99.4
56.0
92.6
248.0
49.60

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1879phae.proj...378

FRIDAY, OCTOBER 31, 1879.

	8	2	8
Bar.	29.795		29.976
Att. therm.	46.0	[illegible]	48.3
Psych. dry & wet.	40.3 35.0		37.2 32.3
No. 4.	40.9		37.9
Max. unset & set.	56.0 41.2		
Min — " —	39.0 40.2		
Gauge. oz & inches	0		
Aurora			Moonlight
God. light			Moonlight
Wind	8 W		10 W
Clouds.	0		0

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1879phae.proj.:378

SATURDAY, NOVEMBER 1, 1879.

	8	2	5
Bar.	30.109	30.114	30.[illegible]00
Att. therm.	43.3	48.0	[illegible]
Psych. dry & wet	33.1 29.7	40.7 32.7	32.7 29.9
Alt. 4.	33.6	41.5	34.3
C. 3235	34.1	41.7	33.8
Max. wet & set	47.7 35.9		
Min — " —	29.5 33.0		
Gauge. 03 inches	0		
Aurora			Moonlight
Zod. light			Moonlight
Wind	5 SW	11 W	3 SW
Clouds.	0 Pri 7m	3 M 7m	0

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1879phae.proj...378

SUNDAY, NOVEMBER 2, 1879.

	8 1/4	2	8
Bar.	30.288	30.166	30.088
Att. therm.	40.0	45.9	46.2
Psyd. dry & wet	29.0 26.8	41.6 3[illegible]	36.6 32.7
No. 4.	29.5	42.2	37.7
Max. in set & set	42.0 30.5		
Min — " —	24.8 29.0		
Gauge. oz & inches	0		
Aurora			
Zod. light.			Cloudy Cloudy
Wind	1 WSW	2 SW	1 SE
Clouds.	2 RRs	10 Pm 7m →	10 Pm 7m

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1879phae.proj:378

MONDAY, NOVEMBER 3, 1879.

	8	2	8
Bar.	29.862	29.682	29.692
Att. therm	43.0	42.8	~~42.4~~
Psych. dry & wet	34.4 34.0	37.0 36.8	31.4 31.7
No. 4.	34.9	37.8	32.1
Max. unset & set	44.0 36.4		
Min — " —	29.0 34.3		
Gauge. 24 hours	1⅞ 0.165		
Aurora			Steady
Zod. light.			Cloudy
Wind	6 SE	4 SE	5 NW
Clouds.	10 P; raining	10 P; a little rain	10 P; snowing

Snow early, changing to rain; snow again late in the day.

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1879phae.proj...378

TUESDAY, NOVEMBER 4, 1879.

	8	2	6
Bar.	30.010	30.060	30.192
Att. therm.	35.7	40.0	39.1
Psych. dry wet	26.3 25.2	29.9 27.9	33.0 31.5
No. 4.	26.7	30.6	23.8
Max. unset oset	38.2 27.5		
Min — " —	24.0 25.7		
Gauge. oz & inches	4 3/4 0.419		
Aurora			None
Zod. light.			Suspected
Wind	2 NW	5 NW	4 NW
Clouds.	0 Fm	0	0

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1879phae.proj...378

WEDNESDAY, NOVEMBER 5, 1879.

	8½	2	8
Bar.	30.386	30.390	30.393
Att. thermr.	32.0	40.0	34.8
Psych. dry & wet	21.2 20.2	31.0 26.5	23.3 22.7
No. 4.	21.7	31.8	24.4
Max. in set & set	30.6 23.0		
Min — " —	17.1 21.0		
Gauge oz & inches	0		
Aurora			None
Zodl. light			somewhat visible
Wind	2 NW	4 NW	1 NW
Clouds.	0	6 fm	haze

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1879phae.proj..378

THURSDAY, NOVEMBER 6, 1879.

	8	2	8
Bar.	30.344	30.248	30.220
Att. therm.	32.8	35.2	36.8
Psych. dry & wet.	22.3 22.5	31.4 31.1	30.7 30.4
No. 4.	23.0	32.2	30.8
Max. in set & Set.	31.4 24.2		
Min — " —	18.7 22.6		
Gauge. 24 hours	0 5/8 0.058		
Aurora			
Zod. light			
Wind	2 NW	1 N	1 NW
Clouds.	10 R; snowing	10 R; snowing	10 R

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1879phae.proj.:378

FRIDAY, NOVEMBER 7, 1879.

	6	2	6
Bar.	30.238	30.284	30.330
Att. therm.	37.0	40.7	~~41.8~~
Psych. dry & wet	30.9 31.1	38.0 35.9	32.3 32.0
Abs. H.	31.6	38.8	33.2
Max. wet & dry	32.2 32.0		
Min —"—	22.2 31.2		
Gauge. oz & inches	1 7/8 0.165		
Aurora			None
Zod. light			Indistinct
Wind	3 N	3 N	0 NW
Clouds.	10 R; moving	9 Cu 7m	0 fog

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1879phae.proj...378

SATURDAY, NOVEMBER 8, 1879.

	8	2	8
Bar.	30.318	30.260	30.266
Att. therm.	37.6	46.8	46.9
Psych. dry & wet	34.4 34.6	51.0 45.5	47.7 45.6
No. 4	34.9	51.0	48.3
6.3235	35.3	51.7	48.6
Max. in set & set	39.0 35.2		
Min — " —	38.0 34.2		
Gauge oz & inches	0		
Aurora			
Zod. light.			Cloudy Cloudy
Wind	2 SW	5 SW	5 S
Clouds.	3 PRs Fm	9 Pm Fm →	8 P

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1879phae.proj..378

SUNDAY, NOVEMBER 9, 1879.

	8	2	8
Bar.	30.242	30.127	30.693
Att. thermn	46.7	53.8	54.7
Psych. dry & wet	50.9 49.8	64.3 58.0	57.7 55.5
No. 4.	51.3	64.8	58.1
Max. in set & set	50.7 50.3		
Min — " —	34.1 50.2		
Gauge. q & inches	0		
Aurora			
Zod. light			Cloudy Cloudy
Wind	2 SW	7 SW	5 SW
Clouds.	10 Pm Fm — Fm	8 Pm Fm /	7 P

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1879phae.proj..378

MONDAY, NOVEMBER 10, 1879.

	8	2 1/4	8
Bar.	30.096	30.110	30.164
Att. Therm.	55.5	60.0	52.5
Psych. dry & wet	57.3 53.8	59.2 49.3	47.0 41.8
No. 4	57.4	59.7	47.4
Max. — & set.	64.6 56.9		
Min. — " —	50.0 56.6		
Gauge, oz & inches	0		
Aurora			
Zod light			Strong Indistinct; rather near Jupiter.
Wind	3 W	5 NW	5 NW
Clouds.	0 Rs 7m	0 Rs 7m	0

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1879phae.proj.:378

TUESDAY, NOVEMBER 11, 1879.

	8	2	6
Bar.	30.250	30.176	30.044
Att. Therm	45.0	51.0	51.1
Psych. dry & wet	39.9 36.7	48.2 42.3	45.8 43.0
No. 4.	40.4	48.8	46.3
Max. inset oset	60.0 40.2		
Min. — " —	38.0 39.6		
Gauge, 0 inches	0		
Aurora			
Zod light			Cloudy Cloudy
Wind	1 W	0 NE	5 SE
Clouds.	0 Rs 7m	9 P 7m	10 P

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1879phae.proj...378

WEDNESDAY, NOVEMBER 12, 1879.

	8	2	8
Bar.	29.789	29.769	29.739
Att. Therm	50.8	56.8	58.2
Psych. dry & wet,	51.7 51.1	68.4 61.5	60.4 59.9
No. 4.	52.0	68.5	61.0
Max. max set & set,	51.7 51.7		
Min — " —	39 3 51.2		
Gauge, oz & inches	0 1/4 0.022		
Aurora			
Zod light			Cloudy Cloudy
Wind	0 calm	5 W	0 calm
Clouds.	7 Pm Fm →	10 P Fm →	8 P

A little rain towards night.

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1879phae.proj.:378

THURSDAY, NOVEMBER 13, 1879.

	8	2	8
Bar.	29.909	30.100	30.212
Att. Therm	52.4	50.0	49.2
Psych. dry & wet	40.2 39.9	42.5 40.9	41.2 41.5
No. 4.	40.6	43.3	41.8
Max. since 8 set.	68.0	42.0	
Min — " —	40.1	40.1	
Gauge, oz & inches	6	0.530	
Aurora			
Zod. light			
Wind	7 NNE	4 N	1 NNE
Clouds.	10 Pm Fra	10 Pm Fra	10 P½ a little rain.

Cloudy
Cloudy

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1879phae.proj...378

FRIDAY, NOVEMBER 14, 1879.

	6	2	6
Bar.	30.218	30.069	29.956
Att. Therm.	47.8	49.9	51.3
Psych. dry & wet.	44.0 44.4	51.6 49.1	52.1 51.2
No. 4.	44.7	52.1	52.4
Max. inset & set.	44.4 44.5		
Min — " —	40.1 44.0		
Gauge oz & inches	0 3/8 0.033		
Aurora.			
Zod. Light			Cloudy Cloudy
Wind	1 S	5 S	3 S
Clouds	10 P, mist	10 Pn 7m P	10 P

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1879phae.proj.:378

SATURDAY, NOVEMBER 15, 1879.

	8	2	8
Bar.	29.716	29.529	29.490
Att. Therm.	56.0	59.8	62.3
Psych. dry & wet	57.7 58.8	67.2 61.5	63.0 60.6
No. 4.	60.0	67.4	63.3
6.323 5		67.3	63.2
Max. inset & set.	60.2 58.8		
Min — " —	44.0 57.2		
Gauge, 24 inches	0 1/8 0.011		
Aurora			
Zod. Light			Cloudy Cloudy
Wind	3 SW	9 SW	8 SW
Clouds.	10 Rm Fm → Fm	10 Rm Rm Fm → Fm	10 Rm

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1879phae.proj...378

SUNDAY, NOVEMBER 16, 1879.

	8	2	9
Bar.	29.753	29.799	29.965
Att. Therm.	54.7	58.2	52.8
Psych. dry & wet	48.0 46.0	57.2 46.0	46.8 41.2
No. 4.	48.3	57.3	47.4
Max. unset & set.	66.9 49.0		
Min — " —	46.3 47.8		
Gauge. 9 a inches	0		
Aurora.			None
Zod. Light			Vertex near Jupiter
Wind	2 SW	7 WNW	4 W
Clouds.	0	2 N Fm. —	0

Meteor seen by Prof. W. Everett at Lexington about 9 P.M. Appeared just below Jupiter and ran southwards over fifteen degrees, ending with a vivid green ball of fire. See his letter of Nov. 17.

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1879phae.proj...378

MONDAY, NOVEMBER 17, 1879.

	8	2	8
B. air.	30.200	30.200	30.210
Att. Therm	48.8	53.5	51.8
Psych. dry & wet	40.6 37.9	50.4 42.0	43.2 39.5
No. 4,	41.0	50.9	44.0
Max. inset & ext,	57.0 41.2		
Min — " —	37.8 40.3		
Gauge, q.d inches	0		
Aurora			
Zod. Light			Cloudy Cloudy
Wind	1 W	3 NW	0 W
Clouds.	0	5 Pt Pm 1 Fm →	6 P

A little white frost this morning.

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1879phae.proj...378

TUESDAY, NOVEMBER 18, 1879.

	8	2	8
Bar.	30.068	29.865	29.814
Att. Therm.	48.1	47.9	43.2
Psych. dry & wet,	41.2 41.2	34.7 34.9	29.5 29.6
No. 4.	41.7	35.3	30.1
Max. inset & set,	51.0 42.0		
Min — " —	39.0 41.2		
Gauge, oz & inches	0½ 0.044		8¼
Aurora			Cloudy
Zod. Light			Cloudy
Wind	2 NE	6 NE	7 N
Clouds.	10 Pm raining	10 P; rain and snow	10 P; snowing

A little snow on the ground at 8 P.M.

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1879phae.proj.:378

WEDNESDAY, NOVEMBER 19, 1879.

	8 1/4	2	8
Bar.	29.963	29.908	29.8212
Att. Therm.	39.7	41.7	42.0
Psych. dry & wet.	27.5 26.4	34.0 31.8	33.7 32.7
No. 4.	28.3	34.8	34.1
Max. inset & set.	42.1 29.3		
Min. — " —	25.7 27.9		
Gauge. 2 inches	*2		
Aurora			
Zod. Light			Cloudy Cloudy
Wind	3 N	0 W	5 SE
Clouds.	10 P 7m	10 P 7m	10 P

* Nov. 18, 8 P.M., Gauge C 8 1/4 ozs., 0.728 inches.
19 8 A.M. " " 2 " 0.177 "
In all 0.905 "

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1879phae.proj...378

THURSDAY, NOVEMBER 20, 1879.

	8	2	8
Bar.	29.275	29.121	29.244
Att. Therm	41.0	40.0	39.0
Psych. dry & wet	31.9 32.3	31.8 32.0	25.2 23.8
Hor. H.	32.7	32.4	25.9
Max. unset & set.	34.8 33.3		
Min —— " ——	27.9 32.2		
Gauge. 9 a.m. inches	1 3/4 0.154		
Aurora, Zod. Light			Cloudy Cloudy
Wind	8 N	3 NW	8 NW
Clouds.	10 P; snowing	10 P; snowing	10 P; a little snow

Rain early, changing to snow.

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1879phae.proj...378

FRIDAY, NOVEMBER 21, 1879.

	8 1/4	2	8
Bar.	29.634	29.780	30.004
Att. Therm	29.0	26.9	27.5
Psych. dry wet	12.0 10.5	15.8 13.5	13.6 12.5
No. 4.	12.4	16.5	14.0
Max. inset oset	33.5 14.0		
Min. —"—	11.3 11.9		
Gauge, q° inches	2 1/2 0.221		
Aurora,			Moonlight
Zod. Light			Moonlight
Wind	12 NW	9 NW	0 calm
Clouds.	1 Rs fm	0.	0

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1879phae.proj...378

SATURDAY, NOVEMBER 22, 1879.

	8	2	8
Bar.	30.282	30.249	30.194
Att. Therm.	26.2	39.2	33.9
Psych dry & wet.	Below graduations	26.7 23.9	23.5 22.3
No. 4.	11.0	27.0	24.1
6.3235	11.3	27.8	24.7
Max. in set & set	18.0 13.0		
Min — " —	8.2 10.5		
Gauge, oz & inches	0		
Aurora			
Zod. Light			Moonlight and clouds Moonlight and clouds
Wind	1 W	2 S	2 SSE
Clouds.	0	0 Rs	4 P Rm 7m

Lunar halo 6¼ P.M.; Jupiter on inside edge. Saturn ¾ of the distance from the moon to the inside edge.

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1879phae.proj...378

SUNDAY, NOVEMBER 23, 1879.

	8 1/4	2	8
Bar.	29.887	29.721	29.820
Att. Therm	34.2	37.5	39.0
Psy cl. dry wet	33.5 33.7	40.3 37.9	34.5 32.3
No. 4.	33.9	41.0	35.0
Max, inset o set	33.8 33.8		
Min — " —	10.3 33.4		
Gauge, 30 inches	0 1/4 0.022		
Aurora			Moonlight-
Zod. Light			Moonlight-
Wind	0 SSE	3 SW	0 SW
Clouds.	10 P fog	9 Pm Fm	0 Fm

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1879phae.proj...378

MONDAY, NOVEMBER 24, 1879.

	8	2	8
Bar.	30.115	30.200	30.244
Att. Therm.	34.3	45.2	31.6
Psych. dry & wet	25.3 22.2	30.5 25.6	22.8 21.4
No. 4.	25.9	31.2	23.6
Max. unst & set	41.8 26.7		
Min. — " —	24.6 25.3		
Gauge. oz & inches	0		
Aurora			
Zod. Light			Moonlight Moonlight
Wind	3 WNW	4 NW	0 SW
Clouds.	0 Fm	0 Rs	0 Rs

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1879phae.proj...378

TUESDAY, NOVEMBER 25, 1879.

	8½	2	8
Bar	30.027	29.888	30.084
Att. Therm.	31.1	36.7	39.8
Psych. dry wet	28.8 27.8	43.8 39.0	36.5 33.3
No. 4.	29.2	44.0	37.1
Max. inset & set	31.0 29.5		
Min — " —	21.41 28.8		
Gauge. 0 inches	0		
Aurora			
Zod. light			Moonlight and clouds
Wind	0 SSW	5 SW	Moonlight 3 SW
Clouds,	10 R Rs Pm Fm	9 Pm Fm 1	1 P Rs

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1879phae.proj...378

WEDNESDAY, NOVEMBER 26, 1879.

	8	2	8
Bar.	30.284	30.316	30.401
Att. Therm.	36.2	40.7	38.2
Psych. dry & wet	29.7 27.7	39.0 33.0	30.8 29.8
No 4.	30.2	39.6	31.7
Max. mnt & set.	44.6 30.4		
Min — " —	28.0 29.6		
Gauge, eg. & inches	0		
Aurora			
Zod. Light			Moonlight
			Moonlight
Wind	0 W	5 NNW	0 N
Clouds.	0 P	0	1 P fm

Lunar halo 9 P.M.; α Tauri in the ring, about half a degree outside of inner edge.

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1879phae.proj.378

THURSDAY, NOVEMBER 27, 1879.

	8 1/4	2	8
Bar.	30.449	30.344	30.271
Att. Therm.	36.0	38.0	39.3
Psy. ch. dry & wet	29.0 27.2	37.4 34.4	39.5 38.3
Min. T.	29.7	38.4	40.0
Max. unset & set.	39.3 30.2		
Min — " —	26.8 29.3		
Gauge, 24 inches			
Aurora			
Zod. Light			Cloudy Cloudy
Wind	1 NW	0 calm	2 SE
Clouds.	10 R R M 7m	10 P fog	10 Pm

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1879phae.proj...378

FRIDAY, NOVEMBER 28, 1879.

	8	2	8
Bar.	30.096	29.958	29.850
Att. Therm.	40.0	42.9	46.5
Psych. dry & wet.	41.8 41.6	54.3 51.3	55.4 53.1
No. 4.	42.2	54.6	55.7
Max. inset & Set.	41.6 41.6		
Min — " —	29.1 41.1		
Gauge & index	0		
Aurora			
Zod. Light			Cloudy
			Cloudy
Wind	2 SSW	5 SSW	10 SSW
Clouds.	10 Pm Fm	10 Pm	10 Pm

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1879phae.proj..378

SATURDAY, NOVEMBER 29, 1879.

	8	2	8
Bar.	29.604	29.607	29.785
Att. Therm	50.1	52.8	42.8
Psych. dry & wet.	52.0 52.1	45.3 41.3	32.9 29.2
No. 21,	52.8	45.9	33.7
6.3235	53.0	46.1	34.0
Max. in set & set,	56.0 52.0		
Min. — " —	41.1 52.0		
Gauge. 24 inches	4 1/4 0.375		
Aurora.			Moonlight
Zod. Light.			Moonlight
Wind ~~Clouds~~.	0 SSW	6 W	6 W
Clouds.	10 Pm; raining	10 Pm fm →	0 fm

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1879phae.proj...378

SUNDAY, NOVEMBER 30, 1879.

	8 1/2	2	6 3/4
Bar.	30.120	30.264	30.370
Att. Therm.	29.0	36.8	31.0
Psych. dry & wet.	21.7 19.3	27.2 21.2	23.5 19.7
No. 4.	22.6	27.9	24.2
Max. unset & set.	56.0 23.0		
Min. — " —	21.1 22.0		
Gauge. oz. & inches	0 5/8 0.055		
Aurora.			Moonlight
Zod. Light.			Moonlight
Wind	5 W	8 NW	5 NW
Clouds.	0 Pn Rs	0	0

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1879phae.proj...378

MONDAY, DECEMBER 1, 1879.

	8	2	8
Bar.	30.328	30.151	30.135
Att. Therm.	23.9	37.0	37.4
Psychr. dry & wet	17.5 16.8	39.2 31.2	34.0 31.0
No. 4	18.1	39.8	34.7
Max. in set & set	28.0 18.8		
Min — " —	14.7 17.1		
Gauge. 9 & inches	0		
Aurora			
Zod. Light			Moonlight & clouds Moonlight
Wind	1 SSW	9 SW	3 SW
Clouds.	9 Pr Rs Fm —	8 Pr Fm →	2 Pr Rs

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1879phae.proj...378

TUESDAY, DECEMBER 2, 1879.

	8	2	8
Bar.	30.150	30.078	30.068
Att. Therm.	36.8	51.8	43.8
Psych. dry & wet.	32.5 29.2	48.4 40.0	42.8 39.1
No. 4.	32.9	48.6	43.5
Max. unset & set	39.6 33.2		
Min — " —	17.2 32.5		
Gauge. a.m. & inches	0		
Aurora			
Zod. Light.			Cloudy Cloudy
Wind	0 SW	5 SSW	1 SW
Clouds.	7 Pn Rs 7m —	1 Pn Rs	10 P

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1879phae.proj...378

WEDNESDAY, DECEMBER 3, 1879.

	8 1/4	2	8
Bar.	30.100	30.092	30.088
Att. Therm.	42.7	51.7	46.3
Psych. dry & wet.	38.2 37.0	48.6 42.7	40.5 40.5
No. H.	38.7	49.1	41.1
Max. unset & set.	48.7 39.0		
Min. — " —	32.2 38.2		
Gauge. & inches	0		
Aurora			
Zod. Light			Cloudy Cloudy
Wind	0 SW	2 E	0 N
Clouds.	9 P Rs.	3 P Rs haze	10 P

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1879phae.proj...378

THURSDAY, DECEMBER 4, 1879.

	8	2	8
Bar.	30.036	30.156	30.299
Att. Therm.	43.0	56.9	47.0
Psych. dry & wet	35.2 35.5	51.2 45.9	39.0 36.9
Hor. H.	36.0	51.7	39.6
Max. unset & set.	50.0 36.2		
Min — " —	35.6 35.6		
Gauge, oz & inches	1½ 0.132		
Aurora			
Zod. Light			None; haze Indistinct; haze
Wind	0 W	5 NW	1 NW
Clouds.	5 P Fm	1 M Fm Rs	0 haze

Rain early in the morning

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1879phae.proj...378

FRIDAY, DECEMBER 5, 1879.

	8	2	8
Bar.	30.413	30.410	30.386
Att. Therm.	35.7	41.4	41.7
Psych. dry & wet	26.5 26.0	39.0 35.9	35.4 34.1
Solar.	27.2	39.8	36.2
Max. unset & set	53.0 28.0		
Min. — " —	26.3 26.7		
Gauge, 24 hours	0		
Aurora			
Zod. Light			Cloudy. Cloudy
Wind	3 N.	2 E.	2 E
Clouds.	0 haze	10 Pm 7m —	7 R 7m

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1879phae.proj..378

SATURDAY, DECEMBER 6, 1879.

	8		2		8	
Bar.	30.262		30.100		29.910	
Att. Therm.	40.6		42.7		43.3	
Psych. dry & wet	38.4	37.5	41.4	41.6	44.9	45.5
No. 4	39.0		42.0		45.5	
C. 3235	39.3		42.1		46.0	
Max. unset & set	39.6	39.0				
Min — " —	26.7	38.3				
Gauge, & inches	0					
Aurora						
Zod. Light.						
Wind	3 ESE		4 E		4 E	
Clouds.	10 P		10 P	mist	10 P	

Rain towards night.

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1879phae.proj...378

SUNDAY, DECEMBER 7, 1879.

	8	2	8
Bar.	29.487	29.710	29.891
Att. Therm.	49.1	53.7	49.6
Psychr. dry & wet	53.0 51.61	52.3 45.0	43.2 40.3
Hor. H.	53.6	52.7	43.8
Max. in set & set	57.3 53.3		
Min — " —	38.2 52.8		
Gauge, in & inches	5¼ 0.463		
Aurora			Suspected
Zod. Light			Vertex between Jupiter & Saturn; indistinct
Wind	3 W	5 W	2 W
Clouds.	1 Pm Fm	0 Fm	0

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1879phae.proj...378

MONDAY, DECEMBER 8, 1879.

	8	2	8 1/2
Bar.	30.050	30.109	30.204
Att. Therm.	45.1	45.8	46.0
Psych. dry & wet.	41.5 39.3	43.9 43.3	40.1 37.2
No. 4.	41.8	44.7	40.7
Max. unsit & set.	54.0 42.0		
Min — " —	36.2 41.1		
Gauge, cy & inches	0		
Aurora			
Zod. Light.			Cloudy Cloudy
Wind	1 SW	0 WSW	2 NW
Clouds.	10 Pm 7m →	10 P; raining	10 P

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1879phae.proj...378

TUESDAY, DECEMBER 9, 1879.

	8 1/4	2	8
Bar.	30.440	30.496	30.521
Att. Therm	39.1	55.4	42.0
Psych. dry & wet	29.2 27.6	35.5 31.9	29.1 27.3
No. 4	29.9	36.4	29.9
Max. max set & set	45.7 30.7		
Min — " —	28.9 29.2		
Gauge, 2 inches	1 0.088		
Aurora			
Zod. Light			Suspected Somewhat visible
Wind	2 NNE	5 NE	2 NW
Clouds.	0	1 7m Rs	0

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1879phae.proj...378

WEDNESDAY, DECEMBER 10, 1879.

	8 1/4	2	7 1/4
Bar.	30.396	30.218	30.098
Att. Therm.	38.1	40.8	42.6
Psych. dry & wet	30.0 29.1	43.7 41.5	43.9 44.2
Rel. H.	30.7	44.2	44.5
Max. since last set.	37.3 31.7		
Min — " —	27.0 30.2		
Gauge, q.s. inches.	0		
Aurora			
Zod. Light			Cloudy Cloudy
Wind	3 N	2 SSE	6 SE
Clouds.	10 P	10 P	10 P

A little rain.

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1879phae.proj...378

THURSDAY, DECEMBER 11, 1879.

	8	2	8
Barr.	29.716	29.661	29.796
Att. Thermn.	48.0	51.7	51.3
Psych. dry & wet	57.7 57.1	61.1 58.5	44.9 40.1
Hy. Ht.	58.2	61.2	45.6
Max. unset & set.	57.2 54.4		
Min — " —	30.2 56.2		
Gauge. & inches	1¼ 0.110		
Aurora			
Zod. Light.			Cloudy Cloudy
Wind	10 SSW	9 SW	1 W
Clouds.	10 Pm Fm ~~Fm~~	10 Pm Fm	10 P

A little rain.

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1879phae.proj...378

FRIDAY, DECEMBER 12, 1879.

	8	2	8
Bar.	29.986	30.091	30.253
Att. Therm.	45.0	58.7	41.2
Psych. dry & wet	35.7 31.9	36.9 30.7	28.2 25.1
Rad. Th.	36.5	37.6	28.9
Max. in set & set.	61.0 37.0		
Min — " —	36.0 36.0		
Gauge. q. & inches	0 1/8 0.011		
Aurora			None
Zod. Light			Faint
Wind	4 WNW	6 NW	0 N
Clouds	10 P	1 Rs M Fm	0

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1879phae.proj...378

SATURDAY, DECEMBER 13, 1879.

	8	2	6
Bar.	30.552	30.600	30.659
Att. Therm.	35.1	40.0	38.5
Psych. dry & wet	20.0 19.1	29.9 26.2	27.1 24.6
No. 4.	20.7	30.4	27.9
C. 3235	21.4	31.0	28.3
Max. max set & set.	37.4 23.0		
Min — " —	20.0 20.6		
Gauge. q. & inches	0		
Aurora			
Zod. Light			
			Cloudy Cloudy
Wind	1 N	2 N	1 N
Clouds.	1 P Fm →	5 P Ra Rm Fm →	10 P

3½ P.M. Fragment of solar halo, colored, with indefinite parhelion.

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1879phae.proj...378

SUNDAY, DECEMBER 14, 1879.

	8	2	8
	9½		
Bar.	30.498	30.272	29.970
Att. Therm.	36.3	37.9	38.8
Psy. ch. dry & wet	29.5 29.1	36.6 36.3	37.5 37.9
No. 4.	29.91	37.4	38.1
Max. since last set.	31.0 31.0		
Min — " —	20.4 29.9		
Gauge, & inches	0		
Aurora			
Zod. Light.			Cloudy Cloudy
Wind	1 N	7 ESE	6 E
Clouds.	10 P; raining	10 P m 7 m <; raining	10 P; raining

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1879phae_proj...378

MONDAY, DECEMBER 15, 1879.

	8	2	8
Bar.	29.584	29.460	29.511
Att. Therm.	40.0	41.2	40.9
Psych. dry & wet.	34.2 34.7	40.5 39.9	35.7 35.0
Mo. M.	34.8	41.0	36.4
Max. in set of set.	41.3 35.3		
Min — " —	29.5 34.5		
Gauge, 2 inches	11¼ 0.993		
Rivera			
Zod. Light			None; some clouds Cloudy
Wind	0 NW	1 W	2 W
Clouds.	10 P fog	10 Pm Fm — Fm	8 P Fm

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1879phae.proj...378

TUESDAY, DECEMBER 16, 1879.

	8 9¼	2	8
Bar.	29.822	29.940	29.945
Att. Therm.	35.4	52.8	38.0
Psych. dry & wet	32.8 28.5	34.8 29.7	29.0 26.7
Hor. H.	33.3	35.6	29.8
Max. inset & set	40.9 33.4		
Min — " —	31.1 32.8		
Gauge, g. & inches	0		
Aurora			
Zod. Light			
Wind	7 W	7 W	1 W
Clouds.	0 7m	1 M 7m →	9 B

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WEDNESDAY, DECEMBER 17, 1879.

	8 1/4	2	8
Barr.	29.789	29.883	30.000
Att. Therm	37.2	51.0	37.3
Psych. dry & wet	31.0 29.3	36.4 31.5	29.7 26.6
Min. Th.	31.6	37.3	30.3
Max wet & set	35.2 32.3		
Min " "	28.3 31.1		
Gauge, & inches Reserva	0		
Zod. light			Morning Mountain
Wind	1 SW	6 W	3 NW
Clouds	10 P Sm →	2 Pm Sm	2 Pa Sm →

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1879phae.proj...378

THURSDAY, DECEMBER 18, 1879.

	8 9 1/4	2	8
Bar.	30.273	30.209	30.318
Att. Therm.	21.1	35.4	30.2
Psych. dry & wet.	12.3 11.0	19.7 16.1	15.3 13.9
No. 4.	12.9	20.3	16.2
Max. unset & set.	39.0 14.0		
Min — " —	10.9 12.7		
Gauge, eg & inches	0		
Aurora			
Zod. Light			Moonlight Moonlight
Wind	5 NW	5 N	1 S
Clouds.	0	0	0

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1879phae.proj...378

FRIDAY, DECEMBER 19, 1879.

	9¼	2	8
Bar.	30.306	30.262	30.263
Att. Therm.	30.0	31.8	32.4
Psych. dry & wet	24.5 24.6	27.4 26.7	25.1 23.9
No. 4.	25.3	28.0	25.8
Max. on set & sit.	25.4 25.7		
Min — " —	12.2 24.8		
Gauge, q. & inches,	+		
Aurora			Cloudy
Zod. Light			Cloudy
Wind	3 NW	4 NE	3 N
Clouds.	10 R; cumuly	10 P Fml	10 P

+ About ¼ of an inch of snow on the ground.

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1879phae.proj...378

SATURDAY, DECEMBER 20, 1879.

	~~8~~	9¼	2	8
Bar.	29.942		29.830	29.900
Att. Therm	32.0		44.1	36.9
Psych. dry & wet	25.0	25.0	36.1 34.8	35.3 32.7
Horiz.	25.5		36.7	35.9
6.3235	26.0		38.2	36.3
Max. unset & set.	28.1	26.0		
Min. — " —	23.0	25.0		
Gauge. oz. & inches.	×			
Aurora				
Zod. Light.				Cloudy Cloudy
Wind	0 NW		0 S	1 W
Clouds.	10 P; a little clear		7 P Rm Fm →	10 P

× Bottle and funnel with contents weigh 14 oz ¾ ounces. Contents not thawed out, as sleet was falling at the time. Bottle and funnel together weigh 14 ounces.

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SUNDAY, DECEMBER 21, 1879.

	8 1/4	2	8
Bar.	30.311	30.450	30.587
Att. Therm.	18.7	26.7	20.2
Psych. dry & wet	Below graduation	Below graduations	Below graduations
No. 4.	3.2	4.3	1.2
6.3235	3.8	5.0	2.0
Max. min set & set.	39.0 5.5		
Min — " —	2.7 2.7		
Gauge. g. & index	1 3/4 0.066		
Aurora			Moonlight and clouds
Zod. Light			Moonlight and clouds
Wind	9 N	5 N	6 N
Clouds.	1 P Fm	4 Pa Rs	7 Pa Fm

× No increase from yesterday.

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MONDAY, DECEMBER 22, 1879.

	8	2	8
Bar.			
Att. Therm.			
Psych. dry & wet			
No. 4.			
Max. unset & set			
Min — " —			
Gauge oz. & inches			
Aurora			
Zod. Light			
Wind			
Clouds.			

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1879phae.proj...378

TUESDAY, DECEMBER 23, 1879.

	8	3 1/4	8
Bar.		30.339	
Att. Therm.		28.3	
Psych. dry & wet			
No. 4.		29.7	
Max. in set & set			
Min — " —			
Gauge oz. & inches			
Aurora			
Zod. Light			
Wind			
Clouds		9 P.	

3 1/4 P.M. Yesterday cold and snowy. Snow now appears to be about 4 inches deep and of about medium weight. Say 0.15 inches rainfall to the inch of snow; this would make the rainfall 0.60 inches.
7 P.M. Lunar halo

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1879phae.proj...378

WEDNESDAY, DECEMBER 24, 1879.

	8 10.30	2 1h 30	8 1/2
Bar.	29.~~978~~	29.844	29.860
Att. Therm	30.9	32.2	33.2
Psy cle. dry & wet	37.6 38.0	36.5 37.1	32.5 32.8
No. 4.	38.0	37.7	33.2
Max. wet & set	37.8 37.4		
Min — " —	0.6 37.3		
Gauge oz & inches	* 8 oz.		
Aurora			
Zod. Light			
Wind	3	5 N	0
Clouds.	10 P raining.	Nimbus - slightly rainy - sky wholly cloudy.	10 : more visible tho' clouds

*. the melted snow and rain. gauge cleaned out

Note Jan. 3, 1880. There was a little rain early Dec. 24, but the amount was trifling. It can hardly have been as great as 0.1 inches. The 8 ounces snow and rain found in the gauge correspond to a rainfall of 0.796 inches. This is approximately confirmed by the estimate of the snow made Dec. 23 and that of the rain made in this note, and may be taken as the rainfall to be entered in the record.

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1879phae.proj...378

THURSDAY, DECEMBER 25, 1879.

	9	2	8
Bar.	29.824		~~29.956~~
Att. Therm.	34.3		
Psych. dry & wet	36.2 35.0		
No. 4.	36.5		
Max. in set & set.	38.5 36.3		
Min — " —	32.2 36.2		
Gauge. oz. & inches			
Aurora			
Zod. Light			
Wind	2 W		
Clouds.	10 P		

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FRIDAY, DECEMBER 26, 1879.

	8	2	8
Bar.	29.956		30.058
Att. Therm.	telegr. 20°		23.5
Psychr. dry & wet	telegr. telegr.		telegr. telegr.
			7.3
Rain	0.3		
Max. wet & set	37.3 10.2*		
Min — " —	0.0 0.3		
Gauge, cy & inches			
Aurora			Moonlight
Zod. Light			Moonlight
Wind	5 N.W		1
Clouds.	0		0

* The detached part was hard to move, and I held the thermometer in my hand some time.

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SATURDAY, DECEMBER 27, 1879.

	8 9	2	8
Bar.	30.188		30.146
Att. Therm.	21.5		27.0
Psych. dry & wet	Telegr. telegr.		18.0 16.5
No. 4.	14.0		18.5
Max. mint & set	14.8 14.8		
Min. — " —	0.3 — 13.8		
Gauge, oz. & inches			
Aurora			morning 11 moonlight
Zod. Light			
Wind	1 N S W		1
Clouds	10 P haze.		haze in horizon

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1879phae.proj...378

SUNDAY, DECEMBER 28, 1879.

	9	2	8
Barr.	30.164		
Att. Therm	28.2	3	
Psych. dry & wet			
No. 4	28.5		
Max. wet & dry	28.5 28.5		
Min — " —	13.7 27.9		
Gauge & Indus Aurora			
Zod. Light			
Wind	NW		
Clouds	10 P		

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1879phae.proj...378

MONDAY, DECEMBER 29, 1879.

	9	2	8
Bar.	29.860		
Att. Therm	33.2		
Psych. dry & wet	34.0 33.4		
No. 4.	34.8		
Max. — & set	40.2 34.7		
Min — " —	27.8, 34.1		
Gauge. g & inches	*		
Aurora			
God. Light			
Wind	NSW 3		clouds
Clouds.	10 Pm raining		

* Ev. the gauge at 7.30 and found about a quarter of an ounce of water. Let this remain.

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1879phae.proj...378

TUESDAY, DECEMBER 30, 1879.

	8	2	8
Bar.	29.828		
Att. Therm.	39.0		
Psych. dry & wet	40.0 & 39.2		
No. 4.	40.6		
Max. unset & set.	44.0 40.5		
Min — " —	33.8 40.0		
Gauge q & inches	2q.*		
Aurora			
Zod. Light			
Wind	3 W 2 W		
Clouds.	8 M.F.M.		

* Note Jan. 3, 1880. 2 ounces answers to a rainfall of 0.177 inches. This presumably includes the amount found Dec. 29, 7½ A.M.

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WEDNESDAY, DECEMBER 31, 1879.

	8 9	2	8
Bar.	30.534		
Att. Therm.	20.2		
Psych. dry & wet.	bd. 9p bd. 3r		
No. 4.	7.8 8.7		
Max. unset & set.	43.7 7.5		
Min — " —	4.8 7.2		
Gauge. cz & index			
Aurora			
Zod. Light			
Wind	6 N		
Clouds.	10 P; a little snow		

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1879phae.proj...378

Monday, March 17, 1879.

Comparison of thermometers, scales attached, in a glass vessel of water. ~~8 inches high.~~ When the thermometers rest on the bottom of the vessel the water reaches to the following degrees of their scales.

Psychrometer		No. 4	C. 3235	Max.	Min.
Dry	Wet				
90	85	65	50	100	60

Comparisons in clock room.

Temperature of room by Casella 15196.

No.	Time	Temp.	Psychrometer Dry	Psychrometer Wet	No. 4	C. 3235	Max.	Min.
1	11h 30m *	60 †	98.9	97.7	99.1	99.0	97.7	97.1
2	11. 35	63 †	96.4	96.2	96.5	95.7	96.1	96.0
3	11 40	67	94.8	95.0	95.0	94.6	94.0	94.8
4	11 45	65	93.0	93.2	93.8	93.4	93.0	92.8
5	11 50	64	92.2	92.3	93.0	92.5	91.6	92.1

*1st comparison untrustworthy, as door was opened by persons passing near thermometers.

† Thermometer still below temperature of room.

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1879phae_proj_0378

MEMORANDA.

Monday, March 17, 1879.

Comparisons continued. After the third comparison ~~on~~ on the last page, Casella 15196 was hung farther from the warm water than before, and began to fall. After the sixth comparison, it was put into the water.

No.	Time.	Temp.	Peychrometer Dry	Wet	No. 4	Casella 3235	Max.	Min.
6	12h 25m	70 C. 15196	84.1	84,3	84.7	84,5	84.0	84.0
7	12 35	83.3	83,0	83,2	83.7	83,2	83.0	82.8
8	1 25	67.0	67,3	67.3	67,4	67,5	66,9	66,6
9	1 38	63.3	63,4	63,4	63.6	63,6	62,9	63,0
10*	1 44	54.0	53.3	53,4	54,2	53.0	53,2	53,3
11	1 55	38.8	38,5	38.6	38,9	39,0	38,4	38,2
12	3 0	32,4	31,9	32,2	32.3	32,9	32,0	32,0

In the last comparison the bulb of the maximum thermometer and the lower part of its scale were enclosed in a lump of snow so that it could be set; the other thermometers were in a mixture of snow and water in the glass vessel.

* 10th comparison in clock room, where the temperature was probably too high. Later comparisons in E. Transit Room.

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1879phae.proj...378

Saturday April 19, 1879. Clearing off between 8 & 9 ; cirri & cirrostratus light among clouds in the north ; at 9h 20m P.M. sudden extension of auroral light, rapidly spreading over dark sky (apparently clouded) near northern horizon, always with a sharp ~~boundary below, between the light and the~~ but irregular and varying boundary of the lower edge of the light. This settled into a few minutes into the usual arch over dark sky becoming irregular with streamers about 9½ P.M. Faint low arch visible two hours later.

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Mean temperature.

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1						
2					123 ✓	1894.3
3			69.8		124 ✓ 139 ✓	149.1 1245.2
4	55.0				113 ✓	1490.3
5					110 ✓ 149 ✓	
6	53.2		54.0		117 ✓	1451.7
7	54.0	71.6	64.4	61.68	151 ✓ 145 ✓	161.7 1290.6
8	64.1	83.0	70.6	70.48	124 ✓	2490.4
9	65.9	75.4	65.3	67.56	111 ✓ 122 ✓	1490.3 2580.0
10	58.8	61.9	58.0	59.10	131 ✓	6560.7 1312.14
11	52.4	53.8	53.4	53.08	464.797	
12	55.0	67.0	56.6	58.04	154.92 51.64	
13	60.0	64.3	54.7	58.74	1549.30 154.92	10328
14	50.2	67.7	58.2	56.90	1394.28	62.10 107.84
15	54.4	73.5	59.2	60.14	124.192	272.92
16	64.1	77.2	67.0	67.88	62.096	54.58 mean temp. for month
17	60.3	61.9	58.9	60.06	1241.92 248.384	
18	55.7	68.9	62.8	61.18	1490.304	1312.14
19	57.6	53.3	41.9	50.46	161.3	306.74
20	37.3	50.7	44.8	42.98	53.77	1005.40 59.14
21	44.6	65.9	57.0	53.82	161310	mean temp. Oct. 23 in. 473.98
22	55.2	65.5	66.0	59.18	16131	5914
23	63.6	71.8	60.8	64.12	1451.79	1005.28
24	42.8	41.6	34.8	39.36		
25	29.4	37.1	29.4	30.94	109.345	
26	27.7	52.4	41.3	38.08	54.67	
27	42.8	56.0	48.1	47.96	109340	
28	48.7	54.1	48.2	49.58	21868	
29	50.6	57.7	48.3	51.22	1312.08	
30	49.7	56.0	46.3	49.60		
31	40.9		37.9			

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