

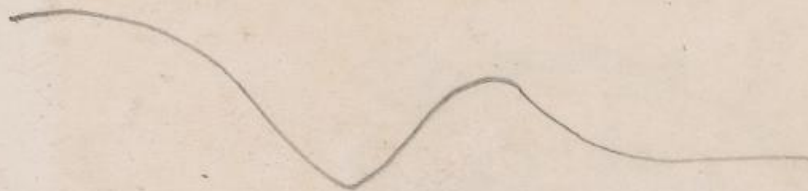
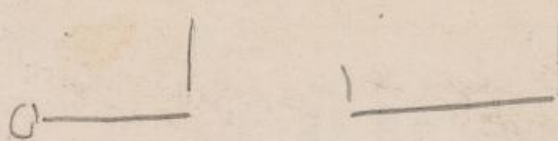
KG
11365
375

P 14

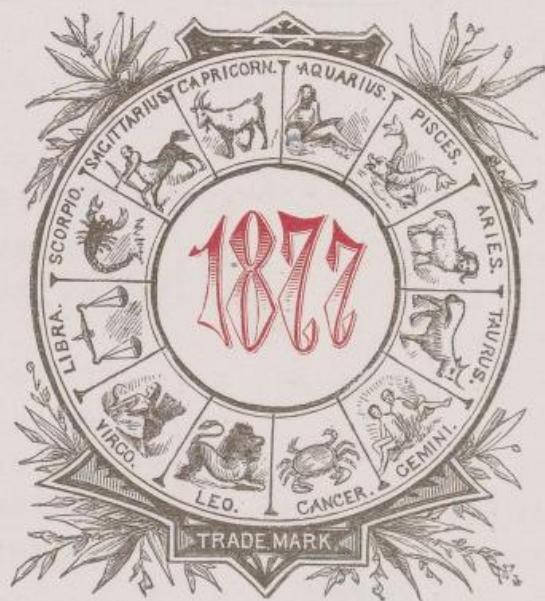
DIARY
1877.

K 6 11365-375
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; under $5\frac{7}{8}$ ounces 0.004; under
 $9\frac{7}{8}$ ounces 0.002; under $13\frac{3}{4}$ ounces 0.003; under $17\frac{5}{8}$
ounces 0.004; under $21\frac{1}{2}$ ounces 0.005.

R₁



The
STANDARD
Diary



PUBLISHED ANNUALLY
FOR THE TRADE.
1877.

KG 11365.375



Counting-House Almanac for 1877.

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

RATES OF POSTAGE.

POSTAL CARDS, costing 1 cent each, can be purchased at any Post Office, and sent to any part of the UNITED STATES or DOMINION OF CANADA.

LETTERS TO ANY PART OF THE UNITED STATES or DOMINION OF CANADA, 3 cents for each 1-2 ounce, or part thereof.

LOCAL or DROP LETTERS, 2 cents for each 1-2 ounce, at all letter-carrier offices; at other offices, 1 cent.

VALUABLE LETTERS may be registered on application at the office of mailing, and the payment of a registration fee of 10 cents, in addition to postage, on domestic letters. Fees on foreign letters variable.

TRANSIENT NEWSPAPERS AND PERIODICALS, Pamphlets, Proof Sheets, Books, Book Manuscripts, Blanks, Circulars, Engravings, Articles of Merchandise, Seeds, Cuttings, Bulbs, Roots, and other mailable matter, 1 cent for every 2 ounces or part thereof. Newspaper, Magazine, and Music Manuscripts are subject to letter postage.

NEWSPAPERS AND PERIODICALS, mailed from a known office of publication or news agency, and addressed to regular subscribers or news agents, issued weekly and oftener, two cents a pound or fraction thereof; less frequently, three cents a pound or fraction thereof. One copy of a newspaper to each actual subscriber residing within the County where the same is wholly or partly printed and published, FREE, except at letter-carrier offices.

ALL PACKAGES of mail matter not charged with letter postage must be so arranged that the same can be CONVENIENTLY examined by Postmasters; if not, letter postage will be charged.

No PACKAGE will be forwarded by mail which weighs over 4 pounds.

ALL POSTAL MATTER, for delivery within the United States and Dominion of Canada, must be PREPAID.

LETTERS TO GREAT BRITAIN or IRELAND, OR THE CONTINENT OF EUROPE, 5 cents for each 1-2 ounce. Prepayment optional. Double rates if unpaid.

POSTAL CARDS may be sent to Newfoundland, Great Britain or Ireland, the Continent of Europe, or Egypt, by adding a 1-cent postage stamp.

LETTERS TO OTHER FOREIGN COUNTRIES vary in rate according to the route by which they are sent, and the proper information can be obtained of Postmasters.

—o-o-o-o—

U. S. MONEY ORDERS.

MONEY ORDER POST OFFICES are established in all the large cities and towns, at which orders can be obtained upon any other office, at the following rates of commission:

On orders not exceeding \$15	. . . . . 10 cents.
Over \$15 " "	. . . . . 15 "
" " " "	. . . . . 20 "
" " " "	. . . . . 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	0	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	117
7 "	0	0	0	1	1	1	1	1	1	1	14	136
8 "	0	0	0	1	1	1	1	1	1	2	16	156
9 "	0	0	1	1	1	1	1	1	2	2	18	175
10 "	0	0	1	1	1	1	1	2	2	2	19	194
11 "	0	0	1	1	1	1	1	2	2	2	21	214
12 "	0	0	1	1	1	1	2	2	2	2	23	233
13 "	0	1	1	1	1	2	2	2	2	3	25	253
14 "	0	1	1	1	1	2	2	2	2	3	27	272
15 "	0	1	1	1	1	2	2	2	3	3	29	292
16 "	0	1	1	1	2	2	2	2	3	3	31	311
17 "	0	1	1	1	2	2	2	2	3	3	33	331
18 "	0	1	1	1	2	2	2	3	3	4	35	350
19 "	0	1	1	1	2	2	3	3	3	4	37	369
20 "	0	1	1	2	2	2	3	3	4	4	39	389
21 "	0	1	1	2	2	2	3	3	4	4	41	408
22 "	0	1	1	2	2	3	3	3	4	4	43	428
23 "	0	1	1	2	2	3	3	4	4	4	45	447
24 "	0	1	1	2	2	3	3	4	4	5	47	467
25 "	0	1	1	2	2	3	3	4	4	5	49	486
26 "	1	1	2	2	3	3	4	4	5	5	51	506
27 "	1	1	2	2	3	3	4	4	5	5	53	525
28 "	1	1	2	2	3	3	4	4	5	5	54	544
29 "	1	1	2	2	3	3	4	5	5	6	56	564
MON.	1	1	2	2	3	4	4	5	5	6	58	583
1 "	1	2	2	5	6	7	8	9	11	12	17	1167
2 "	1	2	4	5	7	9	11	14	16	18	175	1750
3 "	2	5	7	9	12	14	16	19	21	23	233	2330
4 "	3	6	9	12	15	18	20	23	26	29	292	2917
5 "	4	7	11	14	18	21	25	28	32	35	350	3500
6 "	4	8	12	16	20	25	29	33	37	41	408	4083
7 "	5	9	14	19	23	28	33	37	42	47	467	4670
8 "	5	11	16	21	26	32	37	42	47	53	525	5250
9 "	6	12	18	23	29	35	41	47	53	58	583	5833
10 "	6	13	19	26	32	39	45	51	58	64	642	6417
11 "	7	14	21	28	35	42	49	56	63	70	700	7000
YEAR.	7	14	21	28	35	42	49	56	63	70	700	7000

MONDAY, JANUARY 1, 1877.

	8	2	8
Barom.	29.940	29.908	29.742
Atm. Th.	25.0	27.7	28.4
Casella 3235 (wet)	16.7	23.9	23.8
No. 4	17.5	27.2	24.4
Max.	26.0 (19.0)		
Min.	16.1 (17.2)		
Dry			
Wet			
Wind	4 SW	2 W	0 calm
Clouds	4 Pm Fm 1 Pm Pm +	10 Pm	10 Pm
Aurora			
Zod. light			
Gauge	0		Cloudy Cloudy

TUESDAY, JANUARY 2, 1877.

Bar & att. therm.

8

out of sight
at 15:10

Psychr., dry & wet

Gas. 3235

No. 4

Max., unset & set

Min., — " —

Wind

Clouds

12° N

10 P. snowing

Aurora

Zod. light

gauge

WEDNESDAY, JANUARY 3, 1877.

	8	2	8
Bar. Batt. H.	29.752 out of sight, estimate 15.0	29.774 87.3	29.756 22.0
Psych. dry & wet			
Gas. 3235			
No. H	14.6	19.0	12.7
Max. unmet & wet	27.3 / 6.3		
Min. - " -	5.8 13.5		
Gauge, oz. inch.		cleared out, see snow measure.	
Wind	5 W S W	11 W S W	10 W S W
Clouds	2 P R	1 M Fm	0
Aurora			0
Zod. light			Distinct to Aries, not to Taurus.

Little snow fell after 8 A.M. Jan. 2; none fell Jan. 3. At 2 P.M. Jan. 3 snow over old crust measured in 5 places: 4, 5½, 8¾, 10, 10; mean 7.65 inches: 12 inches in cylinder 1½ inches across weigh 2½ ounces: hence rainfall for 1 inch of snow 0.1329 inches; total rainfall 1.017 inches. Snow much drifted; measure uncertain.

THURSDAY, JANUARY 4, 1877.

	8	2	$8\frac{1}{6}$
Bar. alt. th.	29.742 ^{out of sight} estimate 10.0	29.746 32.0	29.826 ^{out of sight} estimate 15.0
Psych., dry & wet			
Cas. 32.35 (wet)	3.1	10.8	9.0
No. 4	3.0	12.6	9.4
Max., unact & set	19.2 6.3		
Min., " — "	1.6 2.9		
Wind	5 WSW	8 WNW	2 W
Clouds	1 P. P. 7m	0 P.	0
Gauge, oz. inch.	0		
Aurora			None
Zod. light			Distinct to S. limit not beyond.

FRIDAY, JANUARY 5, 1877.

	8	2	8
Bar. & alt. th.	30.021 ^{out of sight,} estimate 16.0	30.095 36.5	30.187 23.4
Hy. bar., dry & wet			
Therm. 32.35 (wet)	4.3	16.6	12.0
No. 21	3.9	18.9	12.4
Max., moist & set	16.2 7.2		
Min., — " —	2.2 3.7		
Gauge, oz. & inch.	0		
Wind.	3 rd W	2 nd W	1 st W
Clouds	0 R 7m	0	0
Aurora			none
Zod. light			Distinct to Betelgeuse, faint light to the Pleiades

SATURDAY, JANUARY 6, 1877

	8	2	8
Bar. & alt. th.	30.215 18.2	30.148 24.8	30.072 26.4
Psychr., dry & wet			
Case. 3235 (wet)	6.6	27.1	28.6
No. 4	5.9	30.0	29.7
Max., unmet & set	19.9 9.0		
Min., — —	3.8 5.2		
Gauge, oz. & inch.	0		
Wind	1 SW	1 S	0 SE
Clouds	1 Rs	10 RRs; thin	10 Rr
Aurora			Cloudy
Ind. light			Cloudy

SUNDAY, JANUARY 7, 1877.

	8	2	8
Bar. & alt. th.	29.243 32.1	29.000 32.2	29.450 33.7
Psych., dry & wet			
Bar. 32.35 (wet)	38.1	39.1	36.0
No. 4	37.8	39.8	39.1
Max., sunset & set	37.6 36.0		
Min., - " -	5.2 36.9		
Gauge, oz. & inch.	12 $\frac{3}{4}$ * 1.125		
Wind	4 ^c E	12 ^c SW	8 ^c W
Clouds	10 Pm raining	10 Pm	0
Aurora			None
Zod. light			nearly to Pleiades

8⁵ A.M.
 Bar. 29.150
 Alt. Th. 31.0
 Fall in Alt. Th.
 since 8 accounted
 for by opening
 of reticula door.

* This includes $0\frac{3}{8}$ ounces of ice
 left in the bottle, to be deducted
 from the next measure.

MONDAY, JANUARY 8, 1877.

	8	2	8
Bar. alt. th...	29.745 32.2	29.624 34.9	29.406 35.0
Psychr., dry & wet			
Low. 3235 (wet)	26.5	39.1	39.9
No. 4	26.4	42.0	40.4
Max., inst. & set	42.0 27.0		
Min., " "	25.8 26.0		
Gauge, oz. & in ch.	$0\frac{1}{2}^*$ 0.044		
Wind	4 S	2 S	6 SSW
Clouds	4 Ps haze	10 Ps from thin	10 Ps
Aurora			Cloudy
Zod. light.			Cloudy

* Excluding $0\frac{3}{4}$ ounces left in bottle yesterday.

TUESDAY, JANUARY 9, 1877.

	8	2	8
Bar. & alt. th.	30.026 28.5	30.187 28.1	30.320 19.2
Psyche, dry & wet			
Cas. 3235	*14.8	(wet) 12.6	10.0
No. 4	14.3	14.7	10.7
Max. wet & alt	41.4 16.0		
Min., --	13.8 13.8		
Gauge, oz. & inch.	0		
Wind	6° NW	4° NW	1° NW
Clouds	6 Pm → R	0 R R	0
Aurora			done
Zod. light			To the Pleiades; narrow.

At 8 $\frac{1}{2}$ A.M.
 C 3235 (wet) 11.5
 No. 4 13.7

WEDNESDAY, JANUARY 10, 1877.

	8	2	8
Barom. & alt. th.	30.316 <small>out of sight estimate 15.0</small>	30.161.24.1	30.060.25.6
Psych., dry & wet			
Leas. 3235 (wet)	3.6	19.0	18.2
No. 4	3.6	21.1	18.7
Max., sunset & set	16.6 6.5		
Min., " " "	1.4 3.1		
Gauge, oz. & inch.	0		
Wind	3 N	2 NW	2 NW
Clouds	10 P R 7m (thin)	10 P R 7m	10 P R
Aurora			Cloudy
Zod. light			Cloudy

THURSDAY, JANUARY 11, 1877.

	8	2	8 11
Barom. & alt. th.	30.116 21.4	30.028 28.2	29.877 28.9
Psychr., dry & wet			29.0 (nearly dry)
Leas. 3235 (wet)	13.9	25.8	29.7
No. 4	13.2	28.2	
Max., unset & set	22.9 15.3		
Min., — " — " —	3.1 12.9		
Gauge, oz. & inch	0 1/8 0.011		
Wind	0 SW	2 SW	4 1/2 SSW
Clouds	1 R 7m	10 R R	10 R a few stars visible
Aurora			Cloudy
Zod. light			Cloudy

FRIDAY, JANUARY 12, 1877.

	8	2	8
Bar. & alt. th.	30.227 26.5	30.368 39.2	30.244 27.4
Psychr., dry & wet			dry & wet, not yet
Low. 32 35 (wet)	14.7	10.0	10.3 (wet)
No. 4	16.6	12.4	11.9
Max., sunset & wet	30.0 18.0		
Min., - " - " -	12.9 15.9		
Gauge, oz. & inch.	0		
Aurora			cloudy
Zod. light.			cloudy
Wind	5° N	4 N	3 N
Clouds	0	0 R	10 P. 7 m. a few stars visible

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SATURDAY, JANUARY 13, 1877

	8	2	8
Bar. & alt. rth.	29.750 22.0	29.848 39.1	29.801 17.8
Psych., dry & wet			
Low. 32.35 (wet)	11.8	18.4	10.0
No. 4	11.6	20.3	10.1
Max, unat. & set	18.0 13.0		
Min., " " "	7.3 11.0		
Gauge, oz. & inch.	$2\frac{3}{4}$ } $\begin{matrix} 0, 2, 4, 3; \text{ snow} \\ \text{measured inferred.} \end{matrix}$		
Aurora			None
Lod. light			To the Pleiades; not bright anywhere.
Wind	3 NW	4 WNW	1 SW
Clouds	6 B. Rs Rm → Fm → Fm ↘	0 Rs	0

84. M.
10 mm measure

$$y \text{ Rd } y > r \underline{N}$$
$$\left. \begin{array}{r} 2\frac{1}{4} \\ 2\frac{1}{4} \\ 2\frac{1}{4} \\ 1\frac{3}{4} \\ 2 \\ 2\frac{1}{4} \\ 2\frac{1}{2} \\ 2 \\ 2\frac{1}{4} \\ 2\frac{1}{2} \end{array} \right\}$$

mean 2.175

14 inches
in cylinder

16
weir 40 mms

Hence, again fall to

Pinch of screw 0.1919 inches
Total rain fall 0.417 "

Weight of same confirmed by repetition of measure at noon, when 127 inches weighed $4\frac{1}{2}$ ounces. Result preferred to measure by gauge C.

SUNDAY, JANUARY 14, 1877.

	8	$2\frac{1}{6}$	8
Bar. Hatt. th.	29.672 21.1	29.816 27.7	30.066 (20.7)
Psych., dry & wet			but prob. not used
No. 4	16.6	26.6	12.7
Gas. 3235 (wet)	16.1	25.5	11.7
Max., unsat & set	20.8 18.0		
Min., - - - -	5.3 16.1		
Gauge, g. inch.	0		
Aurora			Low arch
Lod. light			To the Pleiades
Wind	4 SW	7 WNW	1 N
Clouds	3 P P P Pm	2 M 7m	0
	Fm		

* Not settled since morning

MONDAY, JANUARY 15, 1877.

	8	2	8
Bar. by alt. th.	30.166 17.0	30.003 21.4	29.876 23.1
Psyche, dry wet			
No. 4	6.1	16.6	18.5
Coas. 32 35 (feet)	5.6	16.6 92	19.0 100
Max., moist by alt	27.0 9.0		
Min., — — —	4.6 5.1		
Gauge, oz. by inch.	0		
Aurora			
Too light			
Wind	2 N	1 N	6 N
Clouds	10 Pz	10 Pz snowing	10 Pz; snowing

Began snowing about 11 A.M.

TUESDAY, JANUARY 16, 1877.

	8	2	8
Barom. Batt. th.	29.562 23.8	29.673 25.2	30.035 28.0
Psychr., dry & wet			kind prob. stopped
No. 4	18.1	27.1	24.3
Gas. 3235 (wet)	18.2	26.0	22.8
Max., unalt & set	19.9 19.0		24.3
Min., - " - " - " -	5.1 17.2		
Gauge, g. inch.	3 1/2 0.309 { snow measured preferred }		
Aurora			cloudy
Lod. light			cloudy
Wind	3 NW	0 S	6 NW
Clouds	10 Pr	10 Pr, thin	8 Pr

Snow measured at 8 A.M. New snow heavy though not wet; not much drifted; measures taken partly in paths and partly on flat; by roof of shed at house of A. Seale: 4, 4, 4, 3 3/4, 3 1/2, 3 1/4, 3 1/2, 3 1/4, 3 1/4; mean 3.8 inches. 13 1/2 inches in cylinder 1 1/8 inches across weigh 6 1/2 pounds; hence rainfall of snow 0.3047 inches; total rainfall 4.1578 inches.

A few snowflakes about noon. 2 1/4. Sy U
Ry U

WEDNESDAY, JANUARY 17, 1877.

	8	2	8
Barom. Gatt. th.	30.214 24.3	30.486 25.6	30.513 27.1
Psy. hr., dry & wet			
No. 4	8.6	21.7	20.7
Leas. 3235 (wet)	8.6	19.0	20.0
Max., sunset & set	35.5* 12.3		
Min., " - v -	7.1 7.8		
Gauge, oz. & inch	0		
Aurora			Cloudy
Zod. light			Cloudy
Wind	2 NW	2 NW	0 SW
Clouds	8 P R s -	8 P haze	10 P

* Must have been disturbed

THURSDAY, JANUARY 18, 1877.

	8	2	8
Barom.	30.359	30.241	30.211
Alt. th.	19.1	27.0	31.7
Psychr., dry & wet			
No. 4	11.5	31.1 ⁶⁹	30.3 ⁷⁰
Leas. 3235 (wet)	12.1	28.6	28.0
Max., unset & set	22.5 14.0		
Min., " " "	7.6 11.0		
Gauge, g. & inch.	0		
Aurora			Cloudy
Zod. light			Cloudy
Wind	1 SW	1 SW	2 SW
Clouds	0	0 Rs	10 Pm

FRIDAY, JANUARY 19, 1877.

	8	2	8
Barom.	30.106	30.031	29.970
Atm. th.	31.1	38.5	36.4
Psychr., dry & wet	85	63	85
No. 4	27.5	37.2	32.3
Cas. 3235 wet	*	33.9	31.4
Max., sunset & set	34.0 29.0		
Min., " " "	11.0 27.0		
Gaug., oz. & inch	0		
Aurora			Cloudy
Zod. light			Cloudy
Wind	0 calm	0 SW	0 calm
Clouds	0 Ps	1 Ps haze	NO (Pm)

* At 8 $\frac{3}{4}$ A.M.

No. 4 28.0

Cas. 3235 27.2

y < u

SATURDAY, JANUARY 20, 1877.

	8	2	8
Barom.	29.606	29.319	29.486
Alt. th.	34.0	35.9	39.2
Psy. hr., dry & wet			
No. 4	36.0	41.9	41.5
Gas. 32 35 (wet)	35.6	41.4	39.0
Max, sunset & set	37.2 35.9		
Min, " " "	accidentally disturbed 35.4		
Gauge, oz. inch.	0 -		
Aurora			cloudy
Iod. light			cloudy
Wind	4 SSW	5 SW	6 SW
Clouds	10 Pm R/Fm	10 Pm; raining	9 Pm Fm

SUNDAY, JANUARY 21, 1877.

	8	2 $\frac{1}{3}$	8
Barom.	30.068	30.135	30.238
Atm. Th.	32.6	34.0	29.2
Psychr., dry & wet			
No. 4	20.4	28.0	20.9
bas. 3235 (wet)	20.2	* 24.9	20.0
Max., unmet & set	41.2 22.0		
Min., unmet & set	19.8 19.8		
Gauge, oz. & in ch.	0 $\frac{5}{8}$ 0.055		
Aurora			Cloudy
Zod. light			Cloudy
Wind	0 SW	4 SW	2 SW
Clouds	8 Pz Rs	10 Pz Rs	10 Pz Fm

* Not wet since morning

MONDAY, JANUARY 22, 1877.

	8	2	8
Barom.	30.260	30.151	30.100
Atm. th.	29.1	31.0	32.2
Psychr, dry & wet			
No. 4	20.9	31.9	27.8
Co. 3235 (wet)	20.2	30.2	25.3
Max, unmet & act	28.0 21.8		
Min. — —	19.1 20.1		
Gauge, oz. & inch.	0		
Aurora			Cloudy
Zod. light			Cloudy
Wind	0 SW	1 SW	1 SW
Clouds	10 Pz fog	10 Pz	9 Pz fm

TUESDAY, JANUARY 23, 1877.

	8	2	8
Barom.	30.150	30.134	30.109
Atm. th.	30.1	35.8	28.6
Psycho, dry & wet			
No. 4	24.9	27.5	19.2
Co. 3235 (wet)	23.4	24.0	18.0
Max, sunset & set	31.4 25.7	0.11 0.85	top of sun, well
Min. — — —	20.0 24.2	1.8 1.8	— — —, well
Gauge, oz. & inch.	0		
Aurora			Moonlight
Zod. light			Moonlight
Wind	1 W W SW	4 W	0 W
Clouds	10 B Fm →	1 Pm 11 Fm →	0

WEDNESDAY, JANUARY 24, 1877.

	8	2	8
Barom.	29.771	29.615	29.748
Alt. th.	21.2	27.2	23.6
Psycho, dry & wet			
No. 4	+8.2	22.7	15.8
C. 3235 (wet)	9.0	19.8	14.0
Max., moist heat	28.6	11.0	
Min., - - -	4.9	8.1	
Gauge, oz. of inch	0		
Barom.			
Zod. light			
Wind	2 S S W	4 W	7 W
Clouds	4 P R 7 m →	5 P R 7 m → N	6 P R 7 m →

* Temperature rising pretty fast. No. 4 less sensitive than C. 3235

THURSDAY, JANUARY 23, 1877.

	8	2	8
Barom.	30.011	30.0412	30.067
Att. th.	out of sight estimate 15.0	21.2	21.9
Psychn, dry & wet			
No. 44	2.0	11.8	13.1
Co. 3235 (wet)	2.0	9.6	12.2
Max, wet & set	23.7 6.0		
Min, —	1.2 2.0		
Gauge, oz. & inch.	0		
Aurora			Cloudy
Zod. light			Cloudy
Wind	11 W NW	5 NW	5 S W
Clouds	0 P & 7 m	0 P & 7 m	8 P & R

8 P.M. Halo round the moon

FRIDAY, JANUARY 26, 1877.

	8	2	8
Barom.	30.206	30.134	30.068
Alt. th.	18.2	22.8	25.8
Psychrom., dry bulb			
No. 4	6.7	27.0	23.9
6.3235 (wet)	7.1	24.0	22.5
Max., unset & act	15.4	9.3	
Min., " " "	2.0	5.7	
Gauge, oz. & inch	0		
Moon			Cloudy
Zod. light			Cloudy
Wind	0 SW	4 SW	4 S.S.W
Clouds	1 Pm 7m Rs haze	10 Pm Pm	10 Pm 7m →

SATURDAY, JANUARY 27, 1877.

Barom.	29.812	29.812	29.952
Att. th.	28.7	37.0	35.7
Psych., dry & wet			
No. 4	30.8	41.8	34.8
C. 32.35 (wet)	28.2	35.9	32.0
Max., sunset & set	32.6 30.9		
Min., — " —	5.2 30.6		
Gauge, oz. inch.	0		
Aurora			cloudy
Zod. light.			cloudy
Wind	6 SW	5 WSW	4 WNW
Clouds	0 Rs	1 Rs Rm fm	9 Rm fm

SUNDAY, JANUARY 28, 1877.

	8	2	8
Barom.	30.294	30.316	30.282
Att. th.	29.0	34.1	32.0
Psychr., dry & wet			
No. 4	14.1	21.7	21.2
Co. 3235 (wet)	13.5	19.9	20.5
Max., unset & set	42.4 16.0		
Min., " "	13.4 13.4		
Gauge, oz. hinch.	0		
Rain			
Tod. light			
Wind	4 N	2 NNE	5 SE
Clouds	0 7m	1 N 7m	10 Pm

MONDAY, JANUARY 29, 1877.

	8	2	8
Barom.	30.157	30.150	30.209
Atm. th.	29.2	31.0	32.2
Psych., dry & wet			
No. 4	25.2	33.7	29.6
Co. 3235 (wet)	25.8	30.8	29.0
Max. sunset & wet	26.0	26.9	
Min. — " —	13.3	24.9	
Gauge, oz. & inch.	0½	0.0414	
Moon			Cloudy
Tod. light			Cloudy
Wind	2 SSE	0 S	0 calm
Clouds	10 Pz	10 Pz	10 Pz

TUESDAY, JANUARY 30, 1877.

	8	2	8
Barom.	30.324	30.384	30.420
Alt. th.	30.2	38.1	36.0
Psychr., dry & wet			two parts, reduced
No. 4	25.4	37.2	30.2
Co. 3235 (wet)	25.8	34.3	30.0
Max., unmet & set	33.0 26.0		
Min., — " —	22.5 24.9		
Gauge, oz. & inch.	0		
Barograph			
Zod. light			* Moonlight
Wind	0 calm	0 NW	0 calm
Clouds	9 P. P. 7 m ↓	0	0

* At 6 1/2 P.M. distinct
zodiacal light;
vertex about 3° S W
of the Pleiades.

WEDNESDAY, JANUARY 31, 1877.

	8	2	8
Barom.	30.350	30.246	30.198
Atm. th.	30.7	37.9	37.9
Psychr; dry & wet			
No. 4	25.3	42.5	37.0
C. 3235 (wet)	26.0	38.4	35.5
Max, unsect & set	37.6 26.3		
Min, — " —	22.5 25.1		
Gauge, oz. & inch.	0		
Aurora			
Zod. light			
Wind	2 SW	2 SW	4 S.S.W
Clouds	6 R R 7m	7 R R 7m	9 R; many stars somewhat visible

no Ry.

THURSDAY, FEBRUARY 1, 1877.

	8	2	8
Barom.	30.029	29.899	29.868
Alt. th.	36.3	41.2	42.0
Psych., dry & wet			
No. 4	39.5	46.9	43.4
Co. 3235 (wet)	38.9	43.0	41.0
Max., sunset & act	43.0 39.0		
Min., — " —	25.0 38.9		
Gauge, oz. & inch.	0 $\frac{3}{4}$ 0.066		
Aurora			* Cloudy
Zod. light			* Cloudy
Wind	4 S W	5 S W	4 S W
Clouds	10 Pm 7m ↗	6 P R R 7m	9 P many stars somewhat visible

y w In BR

† Clear at 8 $\frac{1}{4}$ P.M., but
hazy; zodiacal light
seen, but no aurora.
(Entered Feb. 3, from memory.)

FRIDAY, FEBRUARY 2, 1877.

	8	2 $\frac{1}{6}$	8
Barom.	29.989	29.992	30.012
Ath. therm.	39.2	44.9	33.2
Psych., dry bulb			
No. 4	36.8	44.9	39.3
C. 3235 (wet)	35.0	44.0	38.0
Max., unshet	46.5 37.0		
Min., — " —	35.7 36.3		
Gauge, oz. inch.	0	0	
Aurora			blondy
Lod. light			blondy
Wind	4 W	4 S W	0 calm
Clouds	8 R R 7m →	5 R R 7m →	10 P stars near zenith visible

w Ry

SATURDAY, FEBRUARY 3, 1877.

	8	2	8
Barom.	30.035	30.040	30.071
Air therm.	39.5	46.2	41.7
Psyche, dry & wet			
No. 4	33.6	43.8	36.2
Co. 3235 (wet)	33.2	40.0	35.3
Max, wet & set	44.4	34.0	
Min, —	33.1	33.1	
Gauge, oz. & inch.	0		
Aurora			
Zod. light			
Wind	1 W SW	0 WNW	1 NW
Clouds	5 Pr Rs Fm	1 Rs Fm	0

w Pr

SUNDAY, FEBRUARY 4, 1877.

	8	2	8
Barom.	30.204	30.241	30.237
Att. therm.	39.1	41.3	40.0
Psych., dry & wet			
No. 4	35.3	40.7	34.1
C. 32 35 (wet)	33.2	36.0	32.0
Max, unsat & set	44.2 35.8		
Min, — " —	32.9 34.8		
Gauge, oz. & inch.	0		
Aurora			
Lod. light			None
Wind	3 N	0 WNW	0 SW
Clouds	10 R	8 Bm Fm	0

w Ry

MONDAY, FEBRUARY 5, 1877.

	8	2	8
Barom.	30.068	29.951	29.874
Alt. therm.	35.0	42.4	38.3
Psychr., dry & wet			
No. 4	27.8	41.5	32.9
C. 3235 (wet)	26.7	37.2	32.0
Max., unset & set	40.4 29.8		
Min., —	25.9 27.0		
Gauge, oz. & inch.	0		
Aurora			
Zod. light			
Wind	3 SW	5 SW	4 SW
Clouds	7 R R R Fm →	1 R	10 P some stars visible

At 8 1/2 No. 4 about 27.5
 C. 3235 " 26.5
 rag still flexible below the bulb,
 and it seems not to have
 frozen at all.

TUESDAY, FEBRUARY 6, 1877.

	8	2	8
Barom.	29.822	29.882	29.911
Ath. therm.	33.7	39.2	38.6
Psychr., dry bulb			
No. 4	29.6	38.1	32.5
C. 3235 (wet) *	27.8	33.8	* 30.8
Max., unsh. & set	41.5 31.0		
Min., — " —	26.6 29.1		
Gauge, pz. & inch.	0		
Aurora			None
Zod. light			To the Pleiades
Wind	5 WNW	6 NW	2 SW
Clouds	0 P	0 Fm Rs	0

* Apparently not frozen; in the evening it was wetted about 6 1/2 P.M.

WEDNESDAY, FEBRUARY 7, 1877.

	8	2	8
Barom.	29.823	29.768	29.779
Ath. therm.	32.8	42.0	41.7
Psych., dry & wet			
No. 4	26.1	40.5	37.9
C. 3235 (wet)	* 26.0	36.0	35.3
Max., unsat & wet	38.1 28.0		
Min., — " —	24.4 25.5		
Gauge, oz. & inch.	0		
Moon			
Zod. light			Cloudy * Cloudy
Wind	2 SW	4 W	2 SW
Clouds	0 P R	0 Fog haze	8 P R

* Not frozen; wet 15 minutes before; still at 26
5 minutes later.

* Some zodiacal light seen at 7½ P.M.;
apparently a little among the clouds at 8 P.M.

THURSDAY, FEBRUARY 8, 1877.

	8	2	8
Barom.	29.900	29.945	29.974
Ath. therm.	35.9	39.8	34.0
Psychr., dry bulb			
No. 4	30.8	33.8	27.1
le. 3235 (wet)	* 27.2	* 29.8	† 24.2
Max., unmet & set	41.0 31.6		
Min., —	25.4 30.2		
Gauge, oz. & inch.	0		
Aurora			
Zod. light			Somewhat cloudy * Rather cloudy
Wind	6 NW	7 NW	4 NW
Clouds	0 fm	0 fm Rs	3 P Rs haze

* Not frozen

‡ To the Pleiades at 7 $\frac{1}{4}$ P.M.

† Wetted at about 6 P.M.; uncertain if frozen.

FRIDAY, FEBRUARY 9, 1877.

	8	2	8
Barom.	29.980	29.996	30.070
Alt. therm.	26.6	37.2	34.6
Psychr., dry & wet			
No. 4	17.4	31.4	25.2
Co. 323 (wet)	17.7	27.1	23.1
Max., unact. & act	34.0 19.8		
Min., — —	16.2 16.8		
Gauge, oz. & inch.	0		
Aurora			
Zod. light			None
Wind	1 SW	5 NW	1 NW
Clouds	0 Rs	0 Fm	0

SATURDAY, FEBRUARY 10, 1877.

	8	2	8
Barom.	30.039	30.082	30.036
Atm. therm.	29.4	37.6	33.5
Psychr. dry & wet			
No. 4	16.1	34.4	29.4
C. 3235 (wet)	15.9	32.7	27.6
Max. unshd act	31.5	19.0	
Min. — —	13.1	15.8	
Gauge, oz. & inch	0		
Aurora			Cloudy
Zod. light			+ Cloudy
Wind	0 calm	2 SSW	5 SSW
Clouds	0 Pr Rs	2 Pm fm Rs	10 P

* Zod. light conspicuous
at 7 P.M., wide
and bright. The brighter
portion ends before reaching
the altitude of 7° N.E.;
the fainter portion
continues to the Pleiades.

SUNDAY, FEBRUARY 11, 1877.

	8	2	8
Barom.	30.199	30.265	30.235
Atm. therm.	33.0	40.6	37.5
Psychr., dry & wet			
No. 4	25.4	38.4	31.2
Co. 3235 (wet)	24.7	34.6	30.5
Max, sunset & set	35.0 27.0		
Min., — " —	15.5 25.0		
Gauge, oz. & inch.	0		
Aurora			
Zod. light			
Wind	1 NNW	0 E	1 S
Clouds	1 Rs	0 Rs	0

MONDAY, FEBRUARY 12, 1877.

	8	2	8
Barom.	30.020	29.848	29.858
Atm. therm.	34.5	39.8	42.8
Psy. hr., dry bulb			
No. 4	31.9	45.9	35.4
C. 3235 (wet)	31.2	40.4	32.0
Max, unass. Galt	38.6	33.0	
Min., — " —	25.0	31.6	
Gauge, oz. & inch.	0		
Aurora			Cloudy
Zod. light			Cloudy
Wind	6 S	6 SW	12 W
Clouds	10 Pz	9 Pz Rs	10 Pz

yuv

TUESDAY, FEBRUARY 13, 1877.

	8	2	8
Barom.	29.956	30.000	30.146
Alt. therm.	24.0	30.4	24.6
Psychr., dry duct			
No. 4	16.3	19.0	16.4
6.3235 (wet)	14.3	15.9	14.2
Max., sunset & set	47.0 19.0		
Min., " " "	15.6 15.6		
Gauge, oz. inch.	0		
Aurora			
Iod. light			None
Wind	20 N.W	23 NNW	14 NNW
Clouds	2 fm	0 Rs fm	0

WEDNESDAY, FEBRUARY 14, 1877.

	8	2	8
Barom.	30.273	30.280	30.317
Atm. therm.	23.4	31.1	31.8
Psy. therm., dry bulb			
No. 4	16.7	29.9	26.6
C. 3235 (wet)	13.8	24.5	22.8
Max. wind set	19.6 18.0		
Min., — —	13.9 16.2		
Gauge, oz. inch.	0		
Aurora			
Zod. light			
Wind	11 NW	11 NW	2 NW
Clouds	0 Rs	0 Rs	0

THURSDAY, FEBRUARY 15, 1877.

	8	2	8
Barom.	30.291	30.218	30.163
Alt. therm.	27.9	36.0	36.8
Psych., dry & wet			
No. 4	22.6	44.9	34.6
C. 3235 (wet)	20.6	37.0	* 30.0
Max., unset & set	30.4 24.0		
Min., —	16.2 22.3		
Gauge, oz. & inch.	0		
Aurora			
Lod. light			
Wind	3 SW	7 SSW	6 SW
Clouds	4 P Rs. Fin →	10 P Rs. thin	4 P Rs. haze

* Not frozen; wetted about 6 P.M.

FRIDAY, FEBRUARY 16, 1877.

	8	2	8
Barom.	30.045	29.950	29.865
Atm. therm.	34.9	43.3	43.2
Psychr., dry & wet			
No. 4	33.7	45.4	37.3
C. 3235	+31.0	39.5	35.7
Max., sunset & set	44.6 34.0		
Min., — " —	22.2 33.3		
Gauge, oz. & inch.	0		
Aurora			xx None
Zod. light			xx Traces
Wind	4 SSW	7 SSW	4 S
Clouds	10 Pm 7m → Rs	4 haze Rs	2 P haze

+ Not frozen

xx Moonlight & clouds.

SATURDAY, FEBRUARY 17, 1877.

	8	2	8
Barom.	29.536	29.546	29.603
Att. therm.	38.3	39.0	35.9
Psych., dry bulb			
No. 21	33.2	29.6	23.8
Co. 3235 (wet)	29.9	25.5	21.1
Max., unmet & set	46.4 34.0		
Min., — —	32.5 32.5		
Gaug., oz. dish.	0		
Barom.			
Zod. light			
Wind	20 NW	18 WNW	10 WNW
Clouds	8 Pm Fm	2 Fm	5 P Fm

SUNDAY, FEBRUARY 18, 1877.

	8	2	8
Barom.	29.555	29.535	29.612
Alt. therm.	27.1	33.7	33.2
Psych., dry) wet			
No. 4	17.8	30.5	23.5
C. 3235 feet)	15.7	26.6	21.0
Max., sunset heat	34.1	19.4	
Min., — " —	13.7	17.0	
Gauge, oz. inch.	0		
Aurora			* Moonlight
Tod. light			* Moonlight
Wind	15 WNW	15 NW	10 SW
Clouds	10 Pz Rs Fm	0 Fm	0 Rs

y > 2 Rd.

* Record added Feb. 20.

MONDAY, FEBRUARY 19, 1877.

	8	2	8
Barom.	29.548	29.455	29.648
Alt. therm.	28.1	35.0	31.3
Psychr., dry bulb			
No. 4	16.0	31.1	16.3
C. 3235 (wet)	16.0	26.0	14.7
Max. sunset & set	31.4 18.0		
Min. — —	13.2 15.5		
Gaug., oz. pinch.	0		
Aurora			
Zod. light			
Wind	1 S S W	5 N W	10 N W
Clouds	3 Pz Rs Pm 7m →	0 Rs	0 7m

TUESDAY, FEBRUARY 20, 1877.

	8	2	8
Barom.	29.700	29.719	29.713
Atm. therm.	19.4	26.9	29.4
Psychr., dry wet			
No. 4	15.8	26.3	23.6
Co. 3235 (wet)	14.8	22.8	22.3
Max, unshet wet	31.0	18.0	
Min, — —	11.7	15.4	
Gauge, oz. inch.	0		
Aurora			
Zod. light			
Wind	3 NW	11 NW	1 SSW
Clouds	4 P. R. 7m	6 P. 7m — M. R.	0 P. 7m

WEDNESDAY, FEBRUARY 21, 1877.

Barom.	⁸ 29.645	² 29.646	⁸ 29.714
Ath. therm.	27.4	36.0	37.8
Psycho. dry wet			
No. 14	22.8	38.3	33.4
C. 3235 (wet)	21.8	33.0	32.9
Max. inst. heat	27.0	25.0	
Min. —	15.4	22.4	
Gage, oz. Hinch.	0		
Aurora			
Zod. light			
Wind	2 SSW	1 W	1 S
Clouds	2 Pz Ps Fm	0 Pz Ps Fm	0 haze

Moonlight
Moonlight

THURSDAY, FEBRUARY 22, 1877.

	8	2	8
Barom.	29.797	29.810	29.884
Atm. therm.	31.5	39.8	42.8
Psych., dry bulb			
No. 4	26.4	52.0	37.6
C. 3235 (wet)*	27.9	44.2	36.3
Max. moist bulb	39.1	28.0	
Min. " "	22.6	26.0	
Gauge, oz. inch.	0		
Baromet.			
Tod. height			
Wind	2 S	2 SSW	0 calm
Clouds	3 P R 7m → haze	9 P R 7m	3 P R haze

*C. 3235 rose again to 27.9, when replaced after being swung in the air outside and then brought down to 27.5

FRIDAY, FEBRUARY 23, 1877.

	8	2	8
Barom.	29.964	29.943	29.950
Alt. therm.	36.0	36.9	38.0
Psychr., dry & wet			
No. 4	27.7	36.7	33.2
6.3235 (wet)	28.3	35.9	33.0
Max., unsat & wet	51.3 28.9		
Min., —	25.1 26.9		
Gauge, oz. inch.	0		
Aurora			Cloudy
Zod. light			Cloudy
Wind	4 NE	3 NE	2 NE
Clouds	10 fog	10 Pm fog	10 Pm

SATURDAY, FEBRUARY 24, 1877.

	8	2	8
Barom.	29.698	29.544	29.513
Alt. therm.	36.1	37.1	36.7
Psych., dry & wet			
No. 4	35.6	33.0	33.2
C. 3235 (wet)	34.6	33.4	33.3
Max., unmet & wet	36.7	36.0	
Min., —	26.9	35.1	
Gauge, oz. inch	0		
Aurora			Cloudy
Twid. light			Cloudy
Wind	11 NE	8 NE	7 NE
Clouds	10 Pm	10 P snowing	10 P snowing

Rain began about 10 A.M.; soon changed to snow

712
330
664
1746

SUNDAY, FEBRUARY 25, 1877.

	8	2	8
Barom.	29.499	29.553	29.704
Atm. therm.	35.4	36.3	37.0
Psyche, dry bulb			dry bulb, reduced
No. 4	32.9	35.2	35.6
C. 3235 (wet)	32.9	34.4	33.2
Max., moist bulb	36.0	33.0	36.0
Min., —	32.0	32.2	32.0
Gauge, oz. of rain.	See below		See below
Barom.			Cloudy
Food. light			Cloudy
Wind	7 NNE	6 N	6 NNW
Clouds	10 P. snowing	10 P. snowing	10 P.

At 8 A.M. snow 3 inches deep, moist & uniform. 13 inches
 in cylinder $1\frac{1}{2}$ inches across weigh $4\frac{1}{2}$ ounces. Hence rainfall
 4 inch of snow 0.2325 inches; total rainfall 0.697 inches.
 Gauge C had $3\frac{1}{2}$ ounces of water in the bottle &
 $3\frac{3}{4}$ ounces of snow in the funnel. This makes
 in all 0.758 inches; and as some of the rain and melting
 snow yesterday must have soaked into the ground, the
 gauge measure is preferred to the snow measurement.

MONDAY, FEBRUARY 26, 1877.

	8	28	8
Barom.	29.888	29.907	29.997
Atm. therm.	34.5	39.0	40.3
Psych., dry wet			
No. 4	31.3	39.4	35.9
Co. 3235 (wet)	+ 29.2	34.8	33.3
Max., unmet fact	36.0	31.9	
Min., —	29.8	30.8	
Gauss, oz. inch.	$0\frac{3}{4}$	0.066	
Aurora			
Zod. light			
Wind	4 NW	4 NW	3 NW
Clouds	2 R 7m	6 R 7m	10 P

* Not frozen

658
352
712
722

TUESDAY, FEBRUARY 27, 1877.

	8	2	7 1/2 8
Barom.	30.204	30.200	30.145
Atm. therm.	33.7	40.1	37.1
Psych., dry bulb			
No. 4	27.2	35.0	28.8
C. 3235 (wet)	+24.3	+31.0	27.9
Max., wet bulb	39.7	28.2	
Min., - "	25.7	26.9	
Gauge, oz. inch.	0		
Barom.			
Tod. light			
Wind	4 N	3 SE	1 SE
Clouds	0 Rs	2 P Rs	1 Rs

* Not frozen. At 8^{1/2} (frozen) 28.8 25.8
 Rel. Hum. 61

+ Frozen; wet at 1 P.M.

WEDNESDAY, FEBRUARY 28, 1877.

	8	2	8
Barom.	30.056	30.000	29.961
Alt. therm.	30.3	37.8	39.0
Psychr., dry bulb			
No. 4	21.9	37.5	31.9
C. 3235 (wet)	20.4	+ 32.4	28.0
Max., sunset fast	35.6	24.0	
Min., —	20.1	21.6	
Gauge, of inch	0		
Barom			
Zod. light			
Wind	1 NW	2 NW	1 SW
Clouds	1 Rs	5 R Rs Rm	0 Rs

* Frozen

THURSDAY, MARCH 1, 1877.

	8	2	8
Barom.	29.972	30.013	30.127
Atm. therm.	32.8	40.3	41.0
Psych. dry wet			
No. 4	29.4	41.4	34.9
C. 3235 (wet)	26.4	35.0	32.0 E. S.
Max. wet of set	37.6	30.7	
Min. —	21.4	29.1	
Gay, oz. Finch.	0		
Aurora			
Zod. light			
Wind	2 WSW	10 WSW	0 calm
Clouds	0 Rs	0	0

* Pleiades in
northern edge;
light rather faint

FRIDAY, MARCH 2, 1877.

	8	2	8
Barom.	30.079	29.842	29.462
Alt. therm.	35.0	37.3	39.2
Psychr, dry wet			
No. 4	31.9	41.0	46.0
Ce. 3235 (wet)	30.4	39.0	46.0
Max., moist wet	42.3 32.6		
Min., -	25.2 31.3		
Gauge, g. inch.	0		
Kuruya			cloudy
Zod. light			cloudy
Wind	2 SE	7 SE	14 S
Clouds	10 P fog	10 Pm fm. raining	10 P raining

+ Not frozen

SATURDAY, MARCH 3, 1877.

	8	2	✓
Barom.	29.606	29.772	29.879
Att. therm.	42.0	46.0	44.5
Psych., dry wet			bad job, rejected
No 4	40.2	45.0	35.9
C. 3235 (wet)	37.3	38.9	33.8
Max., unshd. wet	47.4	40.8	
Min., —	31.5	39.8	
Gauge, oz. inch.	7 $\frac{1}{4}$	0.640	
Aurora			None
Zod. light			To the Milky Way
Wind	4 WNW	7 W	2 SW
Clouds	0 Rs	1 Rs 7m →	0

SUNDAY, MARCH 4, 1877.

	8	2	8
Barom.	29.713	29.595	29.834
Att. therm.	39.6	41.0	40.1
Psychr, dry bulb			
No. 4	38.9	45.5	34.0
C. 32 35 (wet)	38.7	44.6	30.5
Max, wet bulb	40.0		
Min, " "	31.2 38.2		
Gauge, oz. hinch.	0		
Aurora			None
Zod. light			To the Milky Way
Wind	6 SSE	6 SW	10 WSW
Clouds	10 Pm	10 Pm 7m	0 Ps.

* Not frozen; wetted about 7 Pm.

MONDAY, MARCH 5, 1877.

	8	2	8
Barom.	30.100	30.026	29.992
Air therm.	34.2	39.6	39.0
Psych. dry wet			
No. 4	25.3	35.0	30.9
C. 3235 (wet)	* 24.5	* 29.9	27.4
Max. unit heat	46.4 27.7		
Min. " "	22.5 25.4		
Gauge, oz. inch.	0 $\frac{7}{8}$ 0.077		
Aurora			Cloudy
Zod. light			Cloudy
Wind	1 W	5 SSW	1 SSW
Clouds	5 P R 7 m	7 P R 11 m	10 P

* Frozen

TUESDAY, MARCH 6, 1877.

	8	2	8
Barym.	30.042	30.056	30.079
Att. therm.	29.0	35.4	31.0
Psychr. dry & wet			
No. 4	23.2	28.2	22.2
lev. 32 35 (wet)	20.8	24.0	20.0
Max. unsat & set	35.8 27.7		
Min. - " -	21.1 22.4		
Gauge, oz. hinch.	0		
Aurora			None
Zod. light			To the Milky Way
Wind	4 W	4 W	3 SSW
Clouds	0 Rs	0 Fm	0

WEDNESDAY, MARCH 7, 1877.

	8	2	8
Barom.	29.907	29.965	30.172
Air. therm.	32.5	39.9	38.1
Psychr., dry & wet			30.9
No. 4	34.1	42.1	30.9
Co. 3235 (wet)	32.8	36.1	26.6
Max., wet & set	35.5 34.4		
Min., —	19.0 33.8		
Gauge, oz. of rain	0.		
Aurora			
Zodiac light			
Wind	7 SW	15 WNW	2 WNW
Clouds	10 P. a few snowflakes	5 M 7m —	3 P R haze

* Clouds & haze

THURSDAY, MARCH 8, 1877.

	8	2	8
Barom.	30.192	29.946	29.762
Atm. therm.	34.7	38.6	40.9
Psych., dry & wet			
No. 4	34.3	41.7	47.4
Co. 3235 (wet)	31.8	39.7	46.3
Max., unmet & set	44.3 34.9		
Min., — " —	25.1 33.8		
Gauge, oz. in ch.	0		
Aurora			Cloudy
Zod. light			Cloudy
Wind	4 E	3 E	16 S
Clouds	4 P Rs	10 P haze	8 P

FRIDAY, MARCH 9, 1877.

	8	2	8
Barom.	29.352	29.116	29.464
Atm. therm.	46.0	48.6	45.0
Psychr., dry & wet			low & high, not used
No. 4	52.5	54.7	32.60
Co. 3235 (wet)	52.3	52.0	* 30.28.2
Max., unmet & det	52.0 49.8		not done, not
Min., " "	33.8 51.2		" " " "
Gage, oz. inch.	2 $\frac{3}{8}$ 0.210		light, general
Aurora			+ None
Zod. light			To the Milky Way
Wind	25 S	25 S	7 S W
Clouds	10 Pm 7m ↑ raining	10 Pm 7m ↑ a little rain	70

At 9 $\frac{7}{12}$	A.M.	Bar.	29.303	A.M.	Th.	47.0
9 $\frac{11}{12}$	"	"	29.264	"	"	47.2
11	"	"	29.180	"	"	47.4
11 $\frac{7}{12}$	"	"	29.160	"	"	47.8
12 $\frac{3}{4}$	P.M.	"	29.147	"	"	48.0
1 $\frac{5}{12}$	"	"	29.120	"	"	48.4

+ Double anvil
 * Not frozen; melted at 7 P.M. and at 10 $\frac{1}{4}$ P.M.

SATURDAY, MARCH 10, 1877.

	8	2	8
Barom.	30.022	30.136	30.260
Atm. therm.	35.9	38.0	34.8
Psych., dry wet			
No. 4	22.6	30.8	23.6
C. 32 35 (wet)	19.9	* 25.7	21.3
Max., unsat. wet	54.3 25.6		
Min., —	21.3 22.1		
Gauss, oz. Hinch.	5 $\frac{3}{4}$ 0.474		
Aurora	None		None
Zod. light	To the Milky Way		To the Milky Way
Wind	9 NW	8 W	3 NW
Clouds	0 fm	7 Pm 7m → M	0
	* Frozen		

SUNDAY, MARCH 11, 1877.

	8	2	8
Barom.	30.417	30.352	30.344
Atmos. therm.	30.3	36.0	36.5
Psychr., dry wet			
No. 4	19.7	33.1	28.0
Co. 3235 (wet)	18.9	28.1	26.9
Max., wet wet	31.3	22.0	
Min., "		19.2	
Gauge, oz. rain.	0		
Barom.			
Zod. light			
Wind	3 WSW	5 WSW	0 S
Clouds	0	1-7m M	0

MONDAY, MARCH 12, 1877.

	8	2	8
Barom.	30.304	30.230	30.132
Atm. therm.	35.1	37.2	38.2
Psychr, dry bulb			
No. 4	33.0	37.4	36.1
C. 3235 (wet)	32.8	36.4	36.0
Max, wet bulb	34.0	33.1	
Min, —	19.1	32.1	
Gauge, oz. in ch.	0		
Barom			
Zod. light			
Wind	2 SW	9 SSW	2 SSW
Clouds	10 P moving	10 P fine snowing	10 P gentle rain

TUESDAY, MARCH 13, 1877.

	8	2	8
Barom.	29.983	30.031	30.172
Att. therm.	37.2	37.1	35.6
Psych., dry wet			cloudy, foggy
No. 4	33.3	29.5	29.9
Co. 323 (wet)	33.6	28.9	28.48
Max., moist wet	38.7	33.6	38.7
Min., — " —	32.1	32.7	32.1
Gauge, oz. in ch.	6 $\frac{1}{4}$	0.54	0.54
Aurora			cloudy
Zod. light			cloudy
Wind	5 NE	10 NE	6 N
Clouds	10 P moving	10 P	10 P

WEDNESDAY, MARCH 14, 1877.

	8	2	8
Barom.	30.130	29.957	29.824
Atm. therm.	31.7	34.1	36.4
Psych., dry wet			
No. 4	21.1	32.8	32.0
C. 3235 (wet)	20.2	31.7	* 32.8
Max., sunset wet	33.7	22.5	
Min., — " —	17.4	20.3	
Gauge, oz. inch.	0 $\frac{3}{8}$	0.033	
Barograph			Cloudy
Lod. light			Cloudy
Wind	3 N	2 E	6 E
Clouds	10 P	10 P	10 P

* Wet about 6 $\frac{1}{2}$ P.M.

THURSDAY, MARCH 15, 1877.

	8	8	2	8
Barom.	29.613	29.556	29.633	
Alt. therm.	35.5	37.7	33.9	
Psyche, dry & wet				
No. 4	32.1	32.0	28.3	
C. 3235 (wet)	* 31.7	* 27.8	23.4	
Max., unset & set	34.7 32.7			
Min., —	20.4 31.3			
Gauge, oz. & inch.	cleared out			
Aurora				
Zod. light				
Wind	5 NW	12 NW	4 NW	
Clouds	10 P	0	0	

* Frozen

10 measures of snow at 8 A.M. 10, 11, 11, 11, $9\frac{1}{2}$, 11, $10\frac{3}{4}$, 11, $10\frac{3}{4}$, 11; mean 10.7 inches. 15 inches in cylinder $1\frac{1}{8}$ inches across weigh $1\frac{1}{8}$ ounces. Hence rainfall to 1 inch of snow 0.0839 inches; total rainfall 0.898 inches. As the previous snow was much reduced by melting yesterday, and as the gauge probably lost some of it, no deduction is made from the result above.

FRIDAY, MARCH 16, 1877.

	8	2	8
Barym.	29.855	29.901	29.953
Att. therm.	30.8	34.9	35.4
Psych., dry & wet			
No. 4	21.8	28.6	26.5
Co. 3235 (wet)	20.0	23.5	25.5
Max., moist & wet	32.7	24.0	
Min., —	16.3	21.1	
Gaug., oz. & inch.	0		
Aurora			
Zod. light			
Wind	7 WSW	7 WSW	1 WSW
Clouds	70	4 P R 7 F	10 P

SATURDAY, MARCH 17, 1877.

	8	2	8
Barom.	29.950	30.038	30.109
Att. therm.	32.8	34.3	34.0
Psychr., dry & wet			
No. 4	24.6	29.7	25.0
C. 3235 (wet)	24.3	26.9	23.9
Max., unmet & set	31.0 25.4		
Min., — — —	21.2 24.0		
Gauge, oz. & inch.	cleared out		
Barora,			
Zod. light			
Wind	6 N	5 NE	5 N
Clouds	10 P a little snow	10 P M 7 m	10 P

Snow measures at 8 A.M.; $2\frac{1}{4}$, $2\frac{1}{2}$, $2\frac{1}{2}$, 2, 2, $2\frac{1}{4}$, $2\frac{3}{4}$,
 $2\frac{1}{2}$, $2\frac{1}{2}$, $2\frac{1}{2}$; mean 2.375 inches.

16 inches in cylinder $1\frac{1}{16}$ inches across weigh $2\frac{3}{8}$ ounces.

Hence rainfall to 1 inch of snow 0.0997 inches;
 total rainfall 0.237 inches.

SUNDAY, MARCH 18, 1877.

	8	2	8
Barom.	29.950	29.790	29.796
Att. therm.	29.0	28.6	27.1
Psychr. dry bulb			
No. 4	15.0	18.8	17.8
Co. 3235 (wet)	14.9	18.0	16.4
Max. wet bulb	30.9	17.0	
Min. " "	14.1	14.1	
Gauge, 3. inch.	cleared out		
Aurora			cloudy
Lod. light			Mercur. & stars
Wind	8 NNE	8 N	2 W
Clouds	10 P moving	10 P snowing	9 P. Fm

At 8 A.M. new snow lying entirely in drifts, and undistinguishable from the last snow; estimated depths of new snow 2 inches. 11 inches in cylinder $1\frac{13}{16}$ inches across weigh $1\frac{5}{8}$ ounces. Hence rainfall to 1 inch of snow 0.0992 inches; total rainfall 0.198 inches.

MONDAY, MARCH 19, 1877.

	8	2	8
Barom.	29.951	29.916	29.948
Alt. therm.	23.4	28.0	27.7
Psyche, dry & wet			
No. 24	11.6	24.0	20.7
C. 3235 (wet)	10.7	20.4	18.5
Max, unset heat	20.3 14.3		
Min., — "	8.0 11.0		
Gage, oz. H ₂ O	cleared out		
Barom			Cloudy
Zod. light			Cloudy
Wind	6 WNW	5 W	3 SW
Clouds	0	5 P ₂ R _s	10 P

At 8 A.M. no means of estimating depth of new snow except very roughly; apparently about 1 inch more since 8 A.M. yesterday. 14 inches in cylinder $1\frac{3}{16}$ inches across weigh 2 ounces. Hence rain fall to 1 inch of snow (total rainfall) 0.096 inches.

TUESDAY, MARCH 20, 1877.

	8	2	8
Barom.	30.127	30.188	30.178
Alt. therm.	26.2	32.1	32.4
Psyche, dry duct			
No. 4	16.7	29.8	24.5
6.3235 (wet)	14.9	25.0	23.3
Max., moist duct	24.8 18.1		
Min., —	11.0 16.0		
Gauge, oz. hinch.	0		
Barom.			
Zod. light			
Wind	4 NW	6 SW	1 S
Clouds	0	0	0

WEDNESDAY, MARCH 21, 1877.

	8	2	8
Barom.	30.010	29.795	29.756
Att. therm.	30.1	34.4	37.7
Psych., dry wet			
No. 4	30.6	48.2	45.0
C. 3235 (wet) * 30.0		46.2	45.2
Max., unmet Gaet	31.7 30.9		
Min., —	16.0 30.0		
Gaug., oz. inch.	0		
Aurora			
Zod. light			
Wind	5 SE	12 S	7 S
Clouds	10 P	10 Pm M 7m M	10 P

* Frozen

Showers after 10 A. M., with thunder
lightning in the afternoon.

THURSDAY, MARCH 22, 1877.

	8	2	8
Barom.	29.864	29.906	29.950
Alt. therm.	39.2	41.2	42.8
Psych., dry bulb			
North	41.3	49.8	42.8
C. 3235 (wet)	41.6	44.8	41.7
Max., unmet fact	46.5	40.7	
Min., —	30.0	40.3	
Gauge, oz. inch.	9½	0.838	
Moon or			cloudy
Zod. light			cloudy
Wind	1 WNW	0 W	0 calm
Clouds	10 Pm	10 P	10 Pm

* 1.7 lower than North at 2 P.M. March 21, but the max. was probably met all day.

FRIDAY, MARCH 23, 1877.

	8	2	8
Barom.	29.739	29.753	29.842
Att. therm.	39.9	41.2	44.3
Psych., dry wet			
No. 4	37.6	48.4	41.9
C. 3235 (wet)	38.1	44.8	41.0
Max., unset heat	48.8 37.6		
Min., — —	35.7 37.1		
Gauge, oz. in ch.	10 $\frac{3}{4}$ 0.949		
Aurora			Moon & clouds
Zod. light			Moon & clouds
Wind	6 N	3 N	0 NW
Clouds	10 Pm; a little rain	10 P Rs	5 P Rs 7m

SATURDAY, MARCH 24, 1877.

	8	2	8 ³ / ₄
Barom.	29.952	30.040	30.228 ⁴ / ₁₀
Alt. therm.	40.1	43.6	43.5
Psych., dry & wet			
No. 4	39.5	49.6	39.9
C. 3235 (wet)	39.2	44.5	36.7
Max., moist heat	49.6	39.5	
Min., — " —	34.9	38.7	
Gauge, oz. rain	0		
Aurora			
Zod. light			
Wind	0 NW	3 N	4 NW
Clouds	7 Pm 7m	10 P	0 haze

SUNDAY, MARCH 23, 1877.

	8	2	8
Barom.	30.421	30.398	30.371
Att. thermo.	39.3	42.6	42.3
Psychr. dry wet			
No. 4	36.5	37.7	37.2
C-3235 (wet)	34.1	35.8	37.28.0
Max. unset wet	49.6	37.0	
Min. —	34.3	35.9	
Gauge, oz. inch.	0		
Aurora			Cloudy
Zod. light.			Cloudy
Wind	5 E	8 E	5 E
Clouds	5 P haze 7m —	10 Pm	10 P mist

MONDAY, MARCH 26, 1877.

	8	2	8
Barom.	30.150	29.952	29.778
Atm. therm.	39.3	39.8	40.3
Psychr., dry & wet			
No. 4	35.3	38.4	39.1
C. 3235 (wet)	35.7	38.6	39.7
Max. unsat. heat	40.1	36.0	
Min. — " —	34.0	34.8	
Gaug. oz. wind.	0 1/2	0.044	
Aurora			
Zod. light			
Wind	11 ENE	11 NE	4 NE
Clouds	10 P fine rain	10 P fine rain	10 P m raining

TUESDAY, MARCH 27, 1877.

	8	2	8
Barom.	29.462	29.370	29.281
Alt. therm.	42.4	45.7	46.2
Psych., dry wet			
No. 4	48.5	48.6	43.7
C. 3235 (wet)	48.9	48.6	44.1
Max., unass. heat	48.3	47.2	
Min., — " —	34.7	48.0	
Gauge, sq. inch.	21	1.853	
Aurora			cloudy
Zod. light			cloudy
Wind	3 E	6 E	2 NE
Clouds	10 P mist	10 P fog	10 P mist

WEDNESDAY, MARCH 28, 1877.

	8	2	8
Barom.	29.110	29.084	29.099
Ath. therm.	44.2	46.9	46.4
Psych., dry & wet			
No. 4	42.7	44.7	39.9
Co. 3235 (wet)	43.2	44.9	40.0
Max., unsat & wet	50.7 43.3		
Min., —	41.0 42.1		
Gauge, oz. direct	2½ 0.241		
Aurora			
Iod. light			
Wind	1 E	4 E	6 NNE
Clouds	10 P mist	10 P mist	10 P mist

THURSDAY, MARCH 29, 1877.

	8	2	8
Barom.	29.248	29.369	29.562
Att. therm.	44.1	44.0	42.9
Psychr., dry bulb			
No. 4	36.5	42.8	32.7
C. 3235 (wet)	34.5	37.8	* 29.4
Max., unsh. wet	46.4 37.0		
Min., — " —	34.2 36.0		
Gauge, oz. inch.	1 1/2 0.132		
Aurora			
Zod. light			
Wind	7 N	7 NW	11 NW
Clouds	10 P	10 P fm	10 P

* Frozen; wetted at 6 P.M.

FRIDAY, MARCH 30, 1877.

	8	2	8
Barom.	29.776	29.878	30.089
Alt. therm.	36.1	39.0	40.3
Psych., dry & wet			
N. H	30.2	38.2	37.2
C. 3235 (wet) *	26.6	+ 32.3	33.4
Max., unact. Galt	42.8 30.6		
Min., - " -	29.2 29.7		
Gauge, oz. hinch.	0		
Aurora			None
Zod. light			To the Milky Way
Wind	15 N	6 N	1 NW
Clouds	6 Pr Rs fm v	7 Pr Rs M fm v	1 P fm

* Frozen
+ Not frozen

SATURDAY, MARCH 31, 1877.

	8	2	8
Barom.	30.334	30.346	30.360
Att. therm.	37.5	43.9	45.3
Psych. dry bulb			
No. 4	37.8	43.5	41.3
6-3235 (wet)	33.7	37.1	37.8
Max. sunset heat	39.3 38.0		
Min. — " —	29.7 36.9		
Gauge, oz. rain.	0		
Aurora			Cloudy
Zod. light			Cloudy
Wind	1 NNW	3 ESE	2 2 SE
Clouds	8 Pm Pm 7m Rs	1 P Rs	7 P

At 8 A.M. { 36.9 uncovered bulb of psychrometer } both dry
 { 37.5 covered " " " }

At 2 P.M. { 43.6
 { 43.9

At 8 P.M. { 40.9
 { 41.2

SUNDAY, APRIL 1, 1877.

	8	2	8
Barom.	30.428	30.379	30.290
Alt. therm.	41.8	43.9	44.1
Psych., dry & wet	43.8 39.0	44.1 38.9	41.0 37.1
Rel. hum.*	59 ⁺ 61 ⁺	56 ⁺ 58 ⁺	64 ⁺ 66 ⁺
No. 4	44.5	44.9	41.7
C. 3235 (wet)	40.0	40.0	38.5
Rel. hum.*	61 ⁺	58 ⁺	69 ⁺
Max. unact. & act	45.9 43.8		
Min., —	36.9 43.2		
Gauge, oz. Dirch.	0		
Aurora			Cloudy
Zod. light			Cloudy
Wind	1 S	3 SE	5 SE
Clouds	10 Pm 7m	10 P	10 Pm

11⁵/₆ P.M. { 44.3 uncorrected bulb of psychrometer } both dry { 45.0 No. 4 }
 { 44.6 covered " " " } { 45.9 C. 3235 }
 7¹¹/₁₂ P.M. { 40.9
 { 41.2

* In the lines marked rel. hum. are the relative humidities deduced (1) from the psychrometer, deducting 0.3 from the reading of the wet bulb, April 1 to 8 inclusive, afterwards 0.2[†]; (2) from the psychrometer without any deduction; (3) from No. 4 & Casella 3235 with deductions given in the general remarks on the observations of 1876 in the large record book.

† Till April 11 inclusive; then 0.3 to April 13, 8 A.M.; inclusive;

then 0.2

MONDAY, APRIL 2, 1877.

	8	2	8
Barom.	30.049	29.957	29.980
Alt. therm.	42.1	43.0	43.6
Psych. dry bulb	40.0 39.8	41.9 42.2	41.4 41.3
	95 ^{xx} 98 ^{xx}	100 ^{xx} 100 ^{xx}	96 ^{xx} 99 ^{xx}
No. 4	40.7	42.7	42.1
C. 3235 (wet)	40.8	43.0	42.0
	97 ^{xx}	99 ^{xx}	96 ^{xx}
Max. wet bulb	48.0 ⁺		
Min. " "	39.0 40.1		
Gauge, oz. inch.	1 $\frac{1}{4}$ 0.110		
Aurora			Cloudy
Tod. light			Cloudy
Wind	1 SSE	2 N	3 N
Clouds	10 P fog	10 P raining	10 P

At 7 $\frac{1}{2}$ A.M. { 40.0 uncovered bulb of psychrometer, both dry
 { 40.3 covered " " "

* Entered from memory at 2 P.M.

** See note April 1

TUESDAY, APRIL 3, 1877.

	8	2	8
Barom.	30.118	30.136	30.167
Ath. therm.	41.0	43.8	44.5
Psyche, dry wet	37.3 35.4 79 ^x 87 ^x	45.9 40.7 53 ^x 58 ^x	37.5 35.2 75 ^x 78 ^x
No. 4	37.7	41.6	38.1
C-3235 (wet)	36.1 80 ^x	41.2 57 ^x	38.0 94 ^x
Mercury, unret heat	33.0 38.0		
Min., —	34.8 37.0		
Gauge, oz. inch.	3 $\frac{3}{8}$ 0.298		
Aurora			None
Zod. light			Some clouds to the Milky Way
Wind	3 N	4 NE	0 calm
Clouds	10 P fm \angle	10 Pm M fm \angle	1 P fm

At 7 $\frac{3}{4}$ A.M. { 36.6 uncovered bulb of psychrometer } both dry
 { 36.9 covered " " }
 1 $\frac{3}{4}$ { 46.1 }
 { 46.4 }

{ No. 4 46.4
 { C. 3235 46.8

* See note April 1

WEDNESDAY, APRIL 4, 1877.

	8	2	8
Barom.	30.182	30.110	30.080
Alt. therm.	38.8	44.1	45.9
Psych. dry heat	32.9 * 29.6 60.4 ^{xx} 67 ^{xx}	39.4 35.4 61 ^{xx} 64 ^{xx}	35.8 34.9 88 ^{xx} 91 ^{xx}
No. 4	33.7	39.7	36.6
C. 3235 (wet)	* 30.2 63 ^{xx}	36.3 65 ^{xx}	36.0 89 ^{xx}
Max. unmet heat	46.9 34.0		
Min. — " —	28.4 32.0		
Gauge, oz. Finch.	0		
Aurora			Cloudy
Zod. light			Cloudy
Wind	6 NE	6 E	4 ENE
Clouds	4 Pz Rs 7m	4 Pm M 7m Rs Pz	10 P.

* Not frozen

** See note April 1




THURSDAY, APRIL 5, 1877.

	8	2	8
Barom.	29.853	29.679	29.552
Alt. therm.	41.2	40.8	39.3
Psychr., dry wet	35.8 35.7 96* 97*	32.3 32.3 97* 100*	32.5 32.9 100* 100*
No. 4	36.4	33.1	33.3
C. 3235 (wet)	36.3 94*	33.1 95*	33.8 100*
Max., unmet wet	41.7 37.0		
Min., " " "	33.1 36.0		
Range, oz. inch.	0.3 0.033		
Aurora			
Zod. light			
Wind	5 NE	10 NE	6 N.
Clouds.	10 P fine rain	10 P evening	10 P evening

At 7 $\frac{5}{6}$ h. { 35.7 uncovered bulb of psychrometer took dry
36.1 covered " " "

* See note April 1

FRIDAY, APRIL 6, 1877.

	8	2	8
Barom.	29.388	29.453	29.612
Alt. therm.	39.0	42.6	44.0
Psyche, dry wet	38.0 37.0	46.9 40.6	42.0 38.6
	87 ^x 90 ^x	51 ^x 53 ^x	68 ^x 71 ^x
No. 4	38.6	47.5	42.6
C. 3235 (wet)	37.9	41.3	39.2
	88 ^x	51 ^x	68 ^x
Max., unad. wet	38.0	38.0	
Min., - " -	32.2	37.9	
Gauge, oz. inch.	11 $\frac{1}{2}$	1.015	
Aurora			
Zod. light			
Wind	7 WNW	14 NW	8 SW
Clouds	No Pm Fm  raining	10 Pm Fm 	4 Pm  Fm

* See note April 1.

SATURDAY, APRIL 7, 1877.

	8	2	8
Barom.	29.732	29.734	29.848
Atm. therm.	41.2	45.0	45.8
Psych., dry & wet	41.5 34.9 42 ^{xx} 45 ^{xx}	49.4 39.6 31 ^{xx} 33 ^{xx}	38.2 33.7 55 ^{xx} 58 ^{xx}
No. 4	41.9	50.0	39.0
C. 3235 (wet)	35.6 44 ^{xx}	40.0 30 ^{xx}	28.5
Max., unshd & set	48.0 42.0		48.0 42.0
Min., —	37.3 41.2		37.3 41.2
Gauge, oz. & inch.	0 $\frac{1}{4}$ 0.022		0 $\frac{1}{4}$ 0.022
Aurora			Cloudy
Zod. light			Cloudy
Wind	15 NW	11 NW	12 NW
Clouds	0 Rs	0 Fm	6 P

At 7 $\frac{7}{12}$ A.M. { 41.2 unshd bulb of psychrometer } both dry { No. 4 41.7
41.5 " " " " " " { C. 3235 42.2

At 1 $\frac{2}{3}$ P.M. { 49.3
49.5

49.9
50.2

* Some aurora at 10 $\frac{1}{2}$ P.M.

xx See note April 1. Casella 3235 removed for use in clock closet.

SUNDAY, APRIL 8, 1877.

	8	2	8
Barom.	29.876	29.900	30.020
Att. therm.	40.0	45.7	47.9
Psycho., dry & wet	38.3 33.7	47.4 41.8	46.6 38.9
	54 ^t 58 ^x	56 ^x 59 ^x	74 ^x 76 ^x
No. 4	38.8	47.8	42.0
C. 3235			
Max., unshd & wet	50.4	39.0	
Min., —	33.8	38.2	
Gauge, oz. & inch.	0		
Aurora			
Zod. light			
Wind	4 N	4 S E	0 calm
Clouds	0 Pm R	3 M 7m ↓	10 Pm; a few stars visible

* See note April 1

MONDAY, APRIL 9, 1877.

	8	2	8
Barom.	30.002	29.971	29.973
Alt. therm.	43.8	48.0	45.5
Psyche, dry & wet	41.3 37.5	46.9 39.3	37.8 35.5
No. 4	65 ⁺ 67 ⁺	42 ⁺ 43 ⁺	76 ⁺ 78 ⁺
Co. 3235	42.0	47.6	38.5
Max. moist & wet	50.3 42.0		
Min. — —	37.0 41.1		
Gauge, oz. direct.	0		
Aurora			
Zod. light			
Wind	8 NE	10 E	0 NE
Clouds	8 P.Rs 7m →	8 P.Rs 7m	1 P

At 7³/₄ A.M. { 40.9 uncovered bulb of psychrometer } both dry
 { 41.1 covered " " }

+ See note April 1

TUESDAY, APRIL 10, 1877.

	8	2	8
Barom.	29.944	29.874	29.898
Alt. therm.	42.0	47.1	48.2
Psych., dry wet	40.2 35.9	49.2 41.1	42.0 37.9
No. 4	60 ^x	42 ^x	64 ^x
C. 3235	40.6 62 ^x	49.7 43 ^x	42.7 66 ^x
Max., wet set	49.0 40.8		
Min., — " —	36.1 39.9		
Gauge, oz. & inch.	0		
Aurora			
Zod. light			
Wind	13 NE	3 @ NE	1 NE
Clouds.	8 Pm M 7m ✓	3 M 7m	9 Pm 7m

At 7 1/2 A.M. { 38.5 uncovered bulb of psychrometer } both dry
 { 38.8 covered " " " "
 1 5/8 P.M. { 49.8
 { 49.9

* See note April 1

WEDNESDAY, APRIL 11, 1877.

8	8	2	8 $\frac{1}{4}$
Barom.	29.837	29.802	29.830
Alt. therm.	44.4	49.1	50.2
Psych., dry & wet	45.4 38.9	47.9 41.0	43.7 39.9
	49* 50*	49* 50*	67* 69*
No. 41	46.7	48.2	44.7
C. 3235			
Max., sunset & set	50.7 45.7		
Min., —	39.2 44.9		
Gauge, oz. & inch.	0		
Aurora			Cloudy
Zod. light			Cloudy
Wind	6 NE	10 ESE	0 calm
Clouds	2 Pm N. Fm	6 Pm Fm	10 Pm Fm

At 7 $\frac{5}{8}$ A.M. { 44.3 uncovered bulb of psychrometer, both dry
 44.5 covered " " "
 At 1 $\frac{3}{4}$ P.M. { 48.9
 49.1

* See note April 1.

THURSDAY, APRIL 12, 1877.

Barom.
Atm. therm.8
29.871
44.12
29.924
44.88
30.085
42.7

Psych., dry & wet

33.0 32.0^x
86^{xx}
33.7 89^{xx}41.6 32.9
26^{xx} 28^{xx}
42.534.9 32.5
73^{xx} 76^{xx}
35.4No. 4
6.3235

Max., unsh. & set

51.9 34.6

Min., —

32.5 33.0

Gauge, oz. & inch.

0

Aurora
Zod. lightNo. 4
Traces: gone beyond
Milky Way.Wind
Clouds10 NE
10 Pm M Fm 111 N
10 P M Fm 10 NW
1 Pm FmAt 7½ A.M. { 33.4 uncovered bulb of psychrometer & both dry
33.7 covered " " "

* Frozen thoroughly for several minutes.

Occasional snow squalls.

See note April 1

FRIDAY, APRIL 13, 1877.

	8	2	8
Barom.	30.176	30.136	30.128
Atm. therm.	38.7	47.2	49.4
Psychr., dry & wet	38.6 34.6	48.9 38.8	40.5 35.9
	60* 63*	28* 30*	58* 60*
No. 4	38.6	49.4	41.4
C. 3235			
Max. insect heat	43.8 39.0		
Min. — —	30.0 38.2		
Gazze, oz. & inch.	0		
Twilight			
Wind	1 NW	4 E	2 S
Clouds	0	0	0

At 1 $\frac{3}{4}$ P.M. { 48.9 uncovered bulb of psychrometer } both dry
 { 49.1 covered " " }

* See note April 7

SATURDAY, APRIL 14, 1877.

	8	2	8
Barom.	30.084	30.057	30.030
Ath. therm.	42.1	46.9	48.2
Psychr., dry & wet	39.7 35.4 60 ^{xx} 61 ^{xx}	45.2 38.3 45 ^{xx} 47 ^{xx}	38.0 34.8 68 ^{xx} 70 ^{xx}
No. 4	40.4	45.5	38.9
C. 3235			2555.2
Max., inset & set	50.4 40.2		
Min., — " —	30.8 39.6		
Gauge, oz. & inch.	0		
Baro.			
Zod. light			
Wind	1 WSW	6 ESE	0 calm
Clouds	10 P Rs	9 P Rs	1 haze P

At 7²⁵ A.M. { 38.7 uncovered bulb of psychrometer both day
39.1 covered "

* Conspicuous arch afterwards: some appearance of streamers about 11 P.M.

* See note April 1

SUNDAY, APRIL 15, 1877.

	8	2	8
Barom.	30.000	29.978	30.003
Att. therm.	40.2	47.0	49.7
Psych., dry & wet	38.3 35.3	53.3 43.3	44.0 38.7
No. 4	70 [*] 72 [*]	36 [*] 37 [*]	56 [*] 58 [*]
6.3235	37.7	53.6	44.6
Max., unsh. & wet	47.6 38.5		
Min., " "	28.3 37.8		
Gauge, of. & inch.	0		
Aurora			
Zod. light			
Wind	0 NW	3 E	3 S
Clouds.	0 haze R.	0 M Fm	0 Fm

At 7⁵/₆ A.M. { 36.8 unsh. bulb of psychrometer } both dry
 { 36.9 unsh. " }

1⁵/₈ P.M. { 53.4
 { 53.6

* see note April 1

MONDAY, APRIL 16, 1877.

	8	2	8
Barom.	30.017	30.006	30.033
Alt. H.	43.4	51.1	52.3
Psych., dry & wet	46.6 38.7	55.0 41.9	48.1 40.2
	40° 42°	21° 22°	42° 43°
No. 4	46.7	55.8	48.7
C. 3235			38.55.3
Max., wet & dry	53.8 46.8		
Min., — —	35.4 46.1		
Gauge, of. Hinch.	0		
Aurora			Moon & clouds
Zod. light			Moon & clouds
Wind	2 N	4 E	3 SE
Clouds	2 P R	9 P M 7m	1 P 7m

At 7 $\frac{3}{4}$ { 45.3 uncovered bulb of psychrometer & both dry
 A.M. { 45.4 covered " " "
 At 1 $\frac{5}{8}$ P.M. { 56.0
 { 56.2

* See note April 1

TUESDAY, APRIL 17, 1877.

	8	2	8
Barom.	30.015	30.029	30.067
Att. therm.	46.4	48.8	49.2
Psych., dry, wet	43.9 41.5	51.4 47.1	46.3 43.2
	79° 80°	69° 70°	74° 76°
No. 4	44.3	52.0	47.1
No. 3235			
Max., unsh. wet	58.3	45.0	
Min., — —	39.1	43.9	
Gauge, oz. rain.	0		
Aurora			
Zod. light			Cloudy
Wind	2 ESE	3 S	2 SE
Clouds	10 Pm 7m	10 Pm 7m 1	10 Pm

* See note April 1

WEDNESDAY, APRIL 18, 1877.

	8	2	8
Bar.	30.097	30.105	30.098
Atm. therm.	46.6	49.6	50.8
Psychr., dry bulb	43.3 39.3	49.4 42.6	41.5 38.9
	65° 67°	51° 52°	76° 77°
Wet	43.8	49.4	42.6
6.3235			
Max., wet bulb	54.6 43.5		
Min., — " —	40.2 43.1		
Gauge, oz. & inch.	1 $\frac{3}{8}$ 0.121		
Aurora			
Zod. light			
Wind	4 ESE	6 E	6 E
Clouds	10 Pm	10 P Fm	10 P

At 7 $\frac{3}{4}$ A.M. { 42.4 uncovered bulb of psychrometer } both dry
 { 42.6 covered " " " }
 1 $\frac{5}{6}$ P.M. { 48.7
 { 48.9

* See notes April 1

THURSDAY, APRIL 19, 1877.

	8	2	8
Bar.	29.960	29.829	29.665
Att. therm.	48.1	46.8	46.2
Psych., dry bulb	40.0 39.8	40.9 41.0	41.1 41.4
	96° 98°	99° 100°	100° 100°
No. 4	40.5	41.4	41.9
C. 32 35			
Wet. bulb	50.0 40.6		
Wet. bulb	39.9 40.0		
Gauge, oz. wind.	1 $\frac{7}{8}$ 0.165		
Aurora			cloudy
Lod. light			cloudy
Wind	5 E	9 NE	1 NE
Clouds	10 Pm raining	10 Pm 7m 46 raining	10 Pm raining

* See note April 1

FRIDAY, APRIL 20, 1877.

	8	2	8
Bar.	29.530	29.483	29.452
Atm. therm.	45.6	47.6	47.0
Psyche, dry & wet	41.8 41.7	41.6 41.2	41.2 41.6
No. 41	97 ^x 99 ^x	95 ^x 96 ^x	100 ^x 100 ^x
C. 3235	42.5	42.2	42.2
Max. moist & wet	42.0 42.0		
Min. — " —	39.8 41.4		
Gauge, oz. rain.	11 0.971		
Aurora			Cloudy
Zod. light			Cloudy
Wind	0 NE	5 E	2 NW
Clouds	10 Pm mist	10 Pm fine rain	10 Pm raining

* See notes April 1

SATURDAY, APRIL 21, 1877.

	8	2	8
Bar.	29.656	29.719	29.850
Ath. therm.	45.0	49.5	49.7
Psychr., dry & wet	46.1 42.9	52.4 46.6	44.3 40.6
	74 ⁺ 75 ⁺	60 ⁺ 62 ⁺	69 ⁺ 70 ⁺
No. 4	46.3	53.1	45.0
C. 32 35 (wet)			41.4
			68 ⁺
Max., unmet fact	46.5 45.5		
Min., — — —	40.0 45.9		
Gage, oz. in ch.	3½ 0.309		
Aurora			
Zod. light			Cloudy
			Cloudy
Wind	3 W	5 SW	3 NW
Clouds	7 Pm 7m → M	10 Pm	10 Pm

* See note April 1

SUNDAY, APRIL 22, 1877.

	8	2	8
Bar.	30.109	30.143	30.208
Alt. therm.	36.1	47.9	49.9
Psych., dry heat	42.3 41.7 93 ^x 95 ^x	48.7 43.3 60 ^x 61 ^x	44.8 42.2 78 ^x 79 ^x
No. 24	42.9	49.3	45.2
C. 3235 (wet)	42.5 93 ^x	44.1 61 ^x	43.0 80 ^x
Max., unsat heat	52.7 43.0		
Min., —	39.9 42.1		
Gauge, oz. finch.	0 $\frac{1}{2}$ 0.044		
Aurora			Moon & clouds
Zod. light			Moon & clouds
Wind	8 N	4 ENE	0 E
Clouds	10 Pm Fan & mist	10 Pm	5 Pm

* See note April 1

MONDAY, APRIL 23, 1877.

	8	2	8 $\frac{2}{3}$
Bar.	30.198	30.150	30.110
Alt. therm.	44.7	52.5	56.5
Psyche., dry bulb	53.2 46.4	61.5 51.0	52.7 46.1
	55 [*] 55 [*]	42 [*] 43 [*]	55 [*] 56 [*]
No. 4	52.9	62.0	53.1
C. 3235 (wet)	47.1	51.1	47.7
	59 [*]	42 [*]	62 [*]
Max., moist bulb	52.6 52.3		
Min., " "	38.9 52.2		
Gauge, oz. pinch.	0 $\frac{1}{8}$ 0.011		
Aurora			Twilight
Zod. light			Twilight
Wind	6 NNE	3 NE	0 E
Clouds.	0 Rs Fm	0	0 Fm

At 1 $\frac{2}{3}$ P.M. { 64.7 uncovered bulb of psychrometer } both dry { No. 4 65.0
 { 64.8 covered " " " { C. 3235 65.0

* See note April 1

TUESDAY, APRIL 24, 1877.

	8	2	8
Bar.	29.940	29.912	29.874
Atm. therm.	49.7	58.6	54.9
Psyche, dry wet	51.5 46.1	55.6 47.0	47.2 45.5
No. 4	63*	46*	85*
	51.7 63*	56.0 47*	48.0 85*
6.3 235 (wet)	47.0	47.8	46.8
	65*	47*	87*
Max. unshet wet	66.2 51.4		
Min. " " "	39.2 50.7		
Gauge, oz. inch	0		
Bureau			
Zod. light			
Wind	2 NE	2 E	0 E
Clouds	9 Pm 7m	0 Pm 7m	1 Pm 7m

At 7 ⁵/₆ A.M. { 49.3 uncovered bulb of psychrometer } both dry { No. 4 49.7
 { 49.5 covered " " " { 6.3235 49.8
 At 2 P.M. { 55.8 } { 55.8
 { 55.9 } { 56.2
 At 7 ³/₄ P.M. { 47.0 } { 47.9
 { 47.4 } { 49.0

* See note April 1

WEDNESDAY, APRIL 25, 1877.

	8	2	8
Bar.	29.782	29.752	29.864
Att. therm.	49.8	56.3	58.8
Psych., dry & wet	54.3 51.1	69.3 53.0	55.5 46.9
	78 ⁺ 79 ⁺	25 ⁺ 26 ⁺	46 ⁺ 47 ⁺
No. 4	53.6	69.8	56.0
C. 3235 (wet)	50.9	53.3	48.0
	79 ⁺	26 ⁺	48 ⁺
Max., unsh. h. set	63.4 53.7		
Min., " "	39.7 53.2		
Gaug., oz. & inch.	0		
Aurora			
Lod. light			
Wind	0 calm	4 N	7 NW
Clouds	0 haze	0	1 Pm Fair

At 1⁵/₆ P.M. { 69.5 uncovered bulb of psychrometer } both dry { No. 4 69.9
 { 69.7 covered " " " } { C. 3235 70.0

* See note April 1

THURSDAY, APRIL 26, 1877.

	8	2	8
Bar.	29.928	29.870	29.970
Atm. therm.	51.8	54.9	57.0
Psych., dry & wet	51.4 42.3	61.3 45.4	54.2 42.3
	38 [*] 39 [*]	16 [*] 17 [*]	26 [*] 27 [*]
No. 4	51.6	61.7	54.8
C. 3235 (wet)	43.1	46.2	44.2
	40 [*]	17 [*]	33 [*]
Max. unat. fact	69.8 52.0		
Min. — —	43.1 50.9		
Gauge, oz. h. inch.	0		
Aurora			Moonlight
Zod. light			Moonlight
Wind	9 NW	10 NNW	1 W
Clouds	0	0	0 Fair

At 7⁵/₈ A.M. { 50.8 uncovered bulb of psychrometer } both dry { No. 4 54.1
 { 50.9 covered " " " } { C. 3235 51.4

4⁵/₆ P.M. { 60.9
 { 60.9

7⁵/₆ P.M. { 54.9
 { 55.0

61.6
 61.3
 55.2
 55.7

* See note April 1

FRIDAY, APRIL 27, 1877.

	8	2	8
Bar.	30.050	30.030	30.032
Atm. therm.	50.1	57.9	58.9
Psyche, dry wet	53.8 44.3	60.6 45.8	53.6 44.7
	39 ^x 40 ^x	20 ^x 22 ^x	42 ^x 43 ^x
No. 4	53.7	60.9	54.4
C. 323 (wet)	45.9	47.8	48.0
	47 ^x	30 ^x	57 ^x
Max. moist wet	62.4 54.0		
Min. — " —	41.1 53.1		
Gauge, oz. Finch.	0		
Barom			cloudy
Zod. light			cloudy
Wind	0 NW	5 ESE	2 S
Clouds	0 Rs	5 P Rs haze	10 P

At 7⁵/₆ A.M. { 52.7 uncovered bulb of psychrometer } both dry { No. 4 52.4
 { 52.7 covered " " " { C. 323 53.0

At 7¹/₂ P.M. { ~~53.5~~
 { ~~53.6~~

{ 54.2
 { 54.9 }

SATURDAY, APRIL 28, 1877.

	8	2	8
Bar.	30.064	30.056	30.001
Air. therm.	51.3	55.1	53.6
Psych., dry bulb	47.8 41.7 53 ^x 56 ^x	46.2 41.4 62 ^x 63 ^x	43.0 41.5 85 ^x 87 ^x
No. 4	48.4	46.9	43.7
C. 3235 (wet)	42.9 57 ^x	42.6 64 ^x	42.4 85 ^x
Max., moist bulb	64.4 49.0		
Min., " "	38.9 47.9		
Gauge, eq. inch.	0		
Aurora			cloudy
Zod. light			cloudy
Wind	11 ENE	9 E	6 E
Clouds	10 Pm 7m →	10 Pm	10 Pm a little rain

At 7 $\frac{1}{2}$ A.M. { 47.7 uncovered bulb of psychrometer } both dry { No. 4 48.2
 { 48.0 covered " " " " { C. 3235 48.8
 At 1 $\frac{1}{2}$ P.M. { 46.5
 { 46.8
 At 7 $\frac{5}{6}$ P.M. { 42.9
 { 43.4

47.2
 48.0
 43.7
 44.1

* See note April 1

SUNDAY, APRIL 29, 1877.

	8	2	8
Bar.	29.897	29.934	29.950
Alt. therm.	50.0	50.8	50.7
Psych., dry & wet	44.0 44.2 100* 100*	44.8 44.4 95* 97*	42.3 42.1 96* 99*
No. 4	44.7	45.8	43.0
C. 3235 (wet)	45.0 99*	45.0 90*	43.0 96*
Max., unmet & set	51.6 44.8		
Min., — " —	43.0 44.1		
Gauge, oz. & inch.	3 $\frac{1}{8}$ 0.276		
Aurora			
Tod. light			Cloudy
Wind	7 NE	7 NE	7 NE
Clouds.	10 P raining	10 Pm	10 P. mist

Some thunder early

* See note April 1

MONDAY, APRIL 30, 1877.

	8	2	8
Bar.	29.795	29.796	29.800
Ath. therm.	47.8	51.0	55.2
Psyche, dry & wet	41.7 41.5	55.3 54.3	50.1 48.8
No. 4	96 ^x 98 ^x	72 ^x 74 ^x	89 ^x 91 ^x
613235 (wet)	42.2	55.9	50.6
	42.3	51.9	50.0
	97 ^x	72 ^x	93 ^x
Max., unmet & wet	46.3 42.3		
Min., —	40.3 41.3		
Gauge, oz. & inch.	3 $\frac{1}{4}$ 0.287		
Aurora			cloudy
Zod. light			cloudy
Wind	6 N	2 NW	0 calm
Clouds	10 P	10 Pm	10 Pm

* See note April 1

TUESDAY, MAY 1, 1877.

	8	2	8
Bar.	29.750	29.716	29.728
Atm. therm.	52.0	52.2	52.7
Psych., dry & wet	48.5 218.2	48.7 418.0	46.4 456
	96 ⁺ 98 ⁺	93 ⁺ 95 ⁺	92 ⁺ 94 ⁺
No. 4	49.1	49.3	47.0
C. 3235 (wet)	49.0	49.0	46.7
	96 ⁺	95 ⁺	95 ⁺
Max., unmet & act	59.5 48.9		
Min., — " —	41.2 48.1		
Gauge, oz. & inch.	2 0.177		
Aurora			Cloudy
Zod. light			Cloudy
Wind	0 calm	2 E	1 E
Clouds	10 Pm fog	10 Pm fog	10 P

* See note April 1.

WEDNESDAY, MAY 2, 1877.

	8	2	8
Bar.	29.646	29.623	29.630
Att. thermometer	50.2	48.0	47.9
Psychrometer, dry & wet	41.2 41.2 98° 100°	39.7 39.8 99 100	44.0 39.4 59 60
No. 4	42.0	40.2	44.7
6.3235 (wet)	42.0 96°	40.6 100	40.0 60
Max. sunset & wet	51.0 42.0		
Min. — " —	41.1 41.1		
Gauge, oz. & inch.	3 $\frac{1}{8}$ 0.276		
Aurora			Cloudy
Light			Cloudy
Wind	4 NNW	6 N	11 NW
Clouds	10 Pm Fm raining	10 Pm raining	9 Pm Fm

* See note April 1.

xx At 10 $\frac{1}{2}$ P.M. broken aurora
 over dark clouds, with some streamers.

THURSDAY, MAY 3, 1877.

	8	2	8
Bar.	29.607	29.560	29.600
Atm. therm.	43.1	48.7	52.0
Psych., dry & wet	40.7 35.0	51.8 43.1	48.8 41.9
	‡49 ‡51	‡41 ‡42	‡50 ‡51
No. 4	41.2	52.1	49.2
l. 32 35 (wet)	35.8		42.1
	‡50		‡47
Max., moist & wet	44.6 41.3		
Min., " "	34.0 40.3		
Gauss, z. inch.	5 $\frac{1}{4}$ 0.463		
Aurora			* Cloudy
Zod. light			† Twilight
Wind	15 NW	10 NW	4 SSW
Clouds	1 M 7m	1 M 7m	2 Pm 7m

* Some aurora later. A few faint streamers about 11 P.M.

† No zodiacal light visible at 10 P.M.

‡ See note April 1

FRIDAY, MAY 4, 1877.

	8	2	8
Bar.	29.680	29.692	29.816
Att. therm.	46.8	51.0	52.7
Psychr., dry & wet	48.6 42.4 +54 +55	52.3 46.1 +57 +59	46.0 42.1 +68 +70
No. 4	49.1	53.2	46.7
C. 3235 (wet)	43.3 +56	47.0 +57	43.2 +71
Max., unat & wet	54.4 49.0		
Min., - - -	37.5 48.1		
Gauge, oz. rain.	0		
Aurora			Twilight & clouds
Zod. light			* Twilight & clouds.
Wind	2 WSW	10 WNW	1 NW
Clouds	10 Pm 7m	8 Pm 12 M 7m →	3 Pm 7m

At 7 $\frac{5}{6}$ A.M. { 47.6 uncovered bulb of psychrometer } both dry { No. 41 48.3
 { 47.9 covered " " " " } { C. 3235 48.3
 - " 1 $\frac{11}{12}$ P.M. { 53.3
 { 53.4 } 53.9
 53.9

Light shown about noon

* Zodiacal light suspected about 9 P.M.; not apparently crossing the Milky Way.

+ See note April 1

SATURDAY, MAY 5, 1877.

	8	2	8
Bar.	29.991	29.992	30.012
Alt. therm.	46.0	52.5	54.5
Psychr., dry & wet	47.5 41.0 +51 +52	60.3 46.9 +27 +28	48.9 42.5 +52 +54
No. 4	47.7	60.7	49.6
C. 32 35 (wet)	42.7 +60	49.0 +35	45.4 +67
Max., unmet & set	58.0 47.8		
Min., — " —	35.1 47.0		
Gauge, oz. & inch.	0		
Aurora			
Zod. light			
Wind	0 W	0 W	3 S
Clouds	0	5 P Rs	3 P Rs

At 7 $\frac{1}{2}$ A.M. { 46.9 uncovered bulb of psychrometer } both dry { No. 4 47.1
 { 47.1 covered " " " } C. 32.5 47.2
 { 59.9
1 $\frac{5}{8}$ P.M. { 59.9
 { 59.9

* See note April 1

SUNDAY, MAY 6, 1877.

	8	2	8
Bar.	29.986	29.938	29.904
Alt. therm.	48.8	53.8	51.7
Psych., dry & wet	46.6 41.4	52.4 45.4	44.4 42.0
	*59 *60	*52 *54	*79 *80
No. 4	47.3	52.6	45.3
C. 3235 (wet)	42.6	46.4	43.7
	*62	*56	*84
Max., unset & set	61.2 47.4		
Min., — " —	40.1 46.3		
Gauge, of. & inch.	0		
Aurora			
Zod. light			
Wind	1 ENE	1 E	0 E
Clouds	10 P	10 P	6 P Rs

Twilight & clouds
 * Twilight & clouds

Zodiacal light expected at 9 P.M.

* See note April 1

MONDAY, MAY 7, 1877.

	8	2	8 7
Bar.	29.894	29.850	29.852
Atm. therm.	46.8	53.1	55.3
Psyche, dry & wet	50.5 43.9 *53 *54	52.1 44.9 *51 *52	48.9 44.9 *69 *71
No. 4	50.5	52.7	49.3
C. 3235 (wet)	45.0 *59	46.1 *54	46.2 *75
Max., insect & set	53.4 50.7		
Min., — " —	37.3 49.9		
Gauge, oz. & inch.	0		
Aurora			Daylight
Zod. light			Daylight
Wind	3 N	5 E	1 E
Clouds	0 Pm Fm Rs	10 Pm M Fm	10 Pm Fm

At 7 $\frac{5}{8}$ A.M. { 49.4 uncovered bulb of psychrometer } both dry
 { 49.6 covered " " }

* See note April 1

TUESDAY, MAY 8, 1877.

	8	2	8
Bar.	29.827	29.815	29.835
Alt. therm.	218.1	54.3	56.0
Psyche., dry & wet	47.6 43.4 +66 +68	49.8 44.6 +62 +63	44.0 42.01 +83 +84
No. 4	48.1	49.9	44.07
C. 32 35 (wet)	44.4 +70	46.0 +69	43.01 +84
Max., unmet & set	57.9 48.4		
Min., — —	36.5 47.3		
Gauge, oz. direct.	0		
Aurora			Twilight & clouds
Zod. light			* Twilight & clouds
Wind	3 NE	6 SE	3 E
Clouds	4 P 7m haze Rs	0 P Rs M 7m	6 P Rs 7m

At 1 1/2 P.M. { 50.2 uncovered bulb of psychrometer } both dry { No. 4 50.0
 { 50.3 covered " " " } C. 32 35 51.1

* Zodiacal light suspected at 9 1/4 P.M.; but certainly not beyond Gemini

+ See note April 1

WEDNESDAY, MAY 9, 1877.

	8	2	8
Bar.	29.795	29.737	29.758
Att. therm.	48.0	49.2	49.1
Psychr., dry & wet	41.3 38.1	46.3 41.4	39.9 39.4
No. 4	+71 +72	+61 +62	+94 +95
Co. 3235 (wet)	41.9	46.8	40.7
	39.1	42.3	40.2
	+73	+63	+92
Max., unat & at	53.5 42.2		
Min., — " —	39.9 41.1		
Gauge, oz. & inch.	0		
Aurora			
Zod. light			
Wind	4 NE	8 NNE	10 NNE
Clouds	10 Pm	10 Pm	10 Pm raining

† See note April 1

THURSDAY, MAY 10, 1877.

	8	2	8 11
Bar.	29.788	29.857	30.024
Att. therm.	47.1	47.2	49.6
Psychr., dry & wet	39.4 38.6	40.6 40.6	41.3 41.0
No. 4	*91 *93	*98 *100	*96 *97
b. 323 (wet)	39.8	41.5	41.9
	39.4	41.3	42.0
	*93	*95	*97
Max, moist & wet	47.2 39.9		
Min., —	37.3 39.2		
Gauge, oz. & inch.	2 0.177		
Aurora			Cloudy
Zod. light			Cloudy
Wind	4 N	6 N	0 calm
Clouds	10 Pm 7m & raining	10 Pm 7m & raining	10 Pm

* See note April 1

FRIDAY, MAY 11, 1877. 2

	8	2	8
Bar.	30.159	30.179	30.259
Alt. therm.	47.0	52.0	54.5
Psychr., dry & wet	45.2 40.7 *63 *65	54.8 48.1 *56 *58	46.6 43.4 *74 *75
No. 4	45.9	54.9	47.4
Co. 3235 (wet)	42.2 *68	49.0 *60	46.8 *92
Max., moist & wet	44.8 44.8		
Min., —	39.1 45.1		
Gauge, 3. inch.	2 $\frac{7}{8}$ 0.254		
Aurora			Twilight & clouds
Zod. light			Twilight & clouds
Wind	2 NE	2 SE	2 SE
Clouds	10 Pm	7 Pm M 7m Rs.	2 Pm 7m Rs.

* See note April 1

* Zodiacal light suspected at about 9 P.M.; at least, the lighter part of the western sky reached higher south of Auriga than in Auriga.

SATURDAY, MAY 12, 1877.

	8	2	8
Bar.	30.302	30.271	30.3075
Ath. therm.	48.7	55.0	58.0
Psyche, dry & wet	51.7 47.7 *71 *73	65.6 52.9 *36 *37	52.7 48.2 *68 *69
No. 4	51.8	65.8	53.8
Co. 3235 (wet)	48.5 *74	54.7 *42	49.8 *71
Max., sunset & set	57.2 51.4		
Min., — " —	39.7 50.8		
Gauge, oz. Dirch.	0		
Barometer			
Lod. light			
Wind	0 calm	4 S S E	5 S
Clouds	4 P R R R	5 P m V R 7 m	0 P R R

* See note April 1

SUNDAY, MAY 13, 1877.

	8	2	8
Bar.	30.258	30.202	30.197
Atm. therm.	52.0	58.8	62.7
Psych., dry & wet	59.6 49.8	71.4 56.2	60.5 51.5
No. 4	*44	*32	*49
Co. 3235 (wet)	59.6	72.3	61.1
	*50.8	56.0	54.0
	*48	*27	*59
Max., unat & set	66.6 58.8		
Min., —	47.0 58.8		
Gauge, oz. & inch.	0		
Aurora			
Twil. light			
Wind	0 WNW	4 SW	4 SSE
Clouds	1 haze	3 haze Fin	2 P haze

* See note April 1

MONDAY, MAY 14, 1877.

	8	2	8
Bar.	30.221	30.137	30.102
Atm. therm.	55.8	61.7	67.9
Psych., dry & wet	60.3 51.8 + 51 ** 52	75.7 56.9 + 24 ** 24	* 66.8 * 55.6 ** 44 ** 45
No. 4	60.6	75.3	+ 67.1
Co. 3235 (wet)	52.6 ** 53	75.0 ** 214	* 54.0 ** 35
Max., unmet & wet	71.6 59.7		
Min., — " —	49.9 59.4		
Gauge, oz. rain.	0		
Moon			
Zod. light			
Wind	1 SW	6 W	5 W SW
Clouds	8 haze	8 haze	10 haze

+ carefully read

** see note April 1

TUESDAY, MAY 15, 1877.

	8	2	8
Bar.	30.114	30.051	30.050
Att. therm.	60.5	66.2	67.4
Psych., dry & wet	64.9 55.0 *47 *49	79.9 62.3 *31 *32	69.0 57.8 *46 *47
No. 4	65.6	80.6	69.4
C. 3235 (wet)	55.5 *47	63.2 *33	58.2 *47
Max, unat heat	75.8 64.5		
Min., — " —	58.2 64.2		
Gage, oz. in ch.	0		
Aurora			
Zod. light			
Wind	0 W	5 WNW	2 NW
Clouds	9 haze	9 haze	10 haze

At 1 1/2 P.M. { 79.9 unwarmed bulb of psychrometer } both dry { 80.7
80.1 covered " " " } C. 3235 80.1

* See note April 1

WEDNESDAY, MAY 16, 1877.

	8	2	8
Bar.	30.056	29.977	29.965
Att. therm.	62.4	68.0	67.0
Psych., dry & wet	61.1 55.1 *64 *66	75.0 65.4 *56 *57	69.6 62.5 *64 *65
No. 4	61.9	76.0	70.7
C. 323 (wet)	56.0 *64	65.7 *55	65.8 *75
Max., unmet & wet	80.4 69.2		
Min., — " —	57.4 60.9		
Spec., oz. inch.	0		
Aurora			
Zod. light			
Wind	2 WNW	5 SW	2 W
Clouds	10 haze, raining	7 haze	4 haze

Rain beginning about 7³/₄ A.M., ending soon after 8.

* See note April 1

THURSDAY, MAY 17, 1877.

	8	2	8
Bar.	29.895	29.950	29.991
Att. therm.	65.0	71.0	67.0
Psychr., dry & wet,	69.4 64.9	66.5 60.2	54.7 51.5
No. 4	+77	+66	+78
C. 3235 (wet)	70.0	66.8	55.2
Max. unsat & set	65.2	61.0	53.0
Min. " " "	+76	+70	+78
Gauss, g. inch.	78.0 69.0		
Aurora	59.4 68.7		
Tod. light	0 $\frac{3}{4}$ 0.066		
Wind	4 W	4 ESE	0 ENE
Clouds	5 P. B. R. S. Fm	10 P. M. P.	9 P. Fm →

At 1 $\frac{11}{12}$ P. M. { 63.6 uncovered bulb of psychrometer } both dry { 56.4 64.3 }
 { 63.6 covered " " " } { 63.235 65.7 }

* See note April 1

FRIDAY, MAY 18, 1877.

	8	2	8
Bar.	30.012	29.900	29.766
Ath. therm.	60.8	66.4	66.1
Psych., dry & wet	57.0 54.2	65.7 59.4	67.6 65.9
No. 4	*81 *82	*66 *67	*90 *90
C. 3235 (wet)	57.9	66.5	68.1
	54.6	60.6	66.4
	*77	*69	*90
Max., sunset & set	80.8 57.4		
Min., — " —	48.3 55.9		
Gauge, g. & inch.	0		
Aurora			
Zod. light			
Wind	0 calm	0 E	7 SW
Clouds	5 haze P	10 P M \ 7 m \	3 P M 7 m

At 7 $\frac{5}{6}$ A.M. { 55.0 uncovered bulb of psychrometer } both dry { No. 4 56.3
 { 55.3 covered " " " } { C. 3235 53.0 evidently damp
 1 $\frac{11}{12}$ P.M. { 66.0
 { 66.3

A little rain, thunder, and lightning at times

* See note April 1

SATURDAY, MAY 19, 1877.

	8	2	8
Bar.	29.856	29.919	29.936
Atm. therm.	66.5	72.1	71.9
Psych., dry & wet	72.8 63.4 *55 *57	70.5 61.2 *55 *56	65.6 59.7 *68 *69
No. 4	73.3	71.0	66.1
Co. 3235 (wet)	64.2 *58	62.5 *60	61.8 *77
Max., unmet & wet	72.6 72.1		
Min., — " —	55.9 72.2		
Gauge, oz. & inch.	0 $\frac{1}{4}$ 0.022		
Aurora			
Lod. light			Moontlight
Wind	9 N	4 E	5 S
Clouds	11 haze fm & Rs	5 Rs Rs fm	1 P fm

At 7 $\frac{3}{4}$ A.M. { 72.2 uncovered bulb of psychrometer } both dry { No. 4 72.8
 { 72.4 covered " " " } { Co. 3235 72.8
 At 1 $\frac{3}{4}$ P.M. { 70.3
 { 70.5 } 70.8
 { 71.0 }

* See note April 1.

SUNDAY, MAY 20, 1877.

	8	2	8
Bar.	29.859	29.821	29.828
Att. therm.	65.7	68.1	69.4
Psychr., dry & wet	69.4 63.1	70.0 63.9	65.2 60.4
N. 4	*68 *69	*69 *70	*73 *74
C. 3235 (wet)	70.1	70.8	65.8
	64.0	65.0	63.1
	*70	*71	*85
Max, unmet & act	76.1 68.8		
Min, - "	59.6 68.4		
Gauge, oz. Dirch.	0		
Aurora			
Zod. light			
Wind	1 NNE	0 E	0 calm
Clouds	10 Pm	10 Pm	10 Pm

* See note April 1

MONDAY, MAY 21, 1877.

	8	2	8
Bar.	29.928	29.822	29.750
Att. therm.	62.3	65.0	64.9
Psychr., dry & wet	52.4 49.2	59.8 52.8	56.0 53.6
No. 4	+77	+58	+83
Co. 3235 (wet)	53.3	60.3	56.7
	50.6	54.1	55.0
	+79	+58	+87
Max., unmet & set	75.0	54.0	
Min., - "	49.7	52.5	
Gauge, oz. & inch.	0		
Aurora			
Zod. light			
Wind	3 NE	4 E	5 SE
Clouds	10 Pm	10 Pm	10 Pm raining

*See note April 1

TUESDAY, MAY 22, 1877.

	8	2	8
Bar.	29.554	29.480	29.594
Att. therm.	60.4	63.6	60.4
Psych., dry & wet	58.2 56.9 +85 +86	57.1 57.2 +99 +100	49.9 48.2 +86 +87
No. 4	58.7	57.7	50.7
C. 3235 (wet)	57.7 +91	57.8 +98	49.0 +85
Max., unmet & wet	63.0 58.5		
Min., — v —	52.2 57.8		
Gauge, oz. & inch.	1 0.1088		
Aurora			Cloudy
Ind. light			Cloudy
Wind	5 S	3 E	4 N
Clouds	10 Pm	10 Pm ^{7m} raining	10 Pm

* See note April 1.

WEDNESDAY, MAY 23, 1877.

	8	2	8
Bar.	29.631	29.674	29.730
Alt. therm.	56.4	62.7	60.8
Psych., dry & wet	57.3 49.4 *51 *52	59.3 51.4 *53 *54	54.0 51.2 *80 *81
No. 4	57.6	59.8	54.8
C. 3235 (wet)	50.1 *53	52.9 *57	53.0 *85
Max., unact & set	66.8 57.0		
Min., — " —	46.3 56.6		
Gauge, oz. & inch.	3 $\frac{3}{8}$ 0.298		
Barora			
Lod. light			Cloudy Cloudy
Wind	5 N E	4 S E	0 calm
Clouds	0	5 Pm M 7m haze	10 Pm 7m

* See note April 1

THURSDAY, MAY 24, 1877.

	8	2	8
Bar,	29.730	29.750	29.808
Atm. thermo.	56.0	55.2	54.8
Psychr., dry & wet	45.9 45.8	45.2 45.0	47.6 46.2
No. 4	*98 47.3	*97 46.1	*87 48.0
C. 3235 (wet)	47.0	46.0	47.0
	*95	*96	*89
Max., uncorrected	62.1 47.4		
Min., —	46.0 46.6		
Gauge, oz. inch.	9 0.794		
Aurora			Cloudy
Lod. light			Cloudy
Wind	3 ESE	4 NE	6 NW
Clouds	10 Pm 7m raining	10 Pm 7m raining	10 Pm 7m

Rather clear at 10 P.M.

* See note April 1

FRIDAY, MAY 23, 1877.

	8	2	8
Bar.	29.832	29.820	29.858
Atm. therm.	53.0	56.0	57.3
Psychr., dry & wet	46.7 45.2 *86 *88	54.5 49.7 *68 *69	48.2 48.2 *98 *100
No. 4	47.5	55.2	49.7
Co. 3235 (wet)	46.0 *85	50.7 *69	49.0 *93
Max., inst. fact	48.3 47.7		
Min., —	43.4 46.6		
Gauge, oz. & inch.	5 $\frac{3}{4}$ 0.507		
Aurora			Cloudy
Zod. light			Cloudy
Wind	2 N	3 WNW	1 E
Clouds	10 Pm 7m ↓	9 Pm 7m	10 Pm 7m ↓ a little rain

Showers at times

* See note April 1

SATURDAY, MAY 26, 1877.

	8	2	8
Bar.	29.951	29.987	30.034
Atm. therm.	52.8	55.5	58.2
Psych., dry & wet	50.4 47.4 *77 *79	57.8 52.6 *67 *68	51.4 49.7 *87 *88
No. 4	51.3	59.5	52.0
C. 3235 (wet)	48.0 *74	54.0 *65	51.3 *93
Max., wet & dry	55.0 50.2		
Min., —	42.4 50.0		
Gauge, oz. & inch.	3 $\frac{7}{8}$ 0.344		
Aurora			Cloudy
Zod. light			Cloudy
Wind	4 N	1 SE	2 E
Clouds	10 Pm 7m	10 Pm 7m	10 Pm 7m

Showered about 5 $\frac{1}{2}$ P.M. and in the evening.

* See note April 1

SUNDAY, MAY 27, 1877.

	8	2	8
Bar.	30.165	30.199	30.215
Atm. therm.	54.2	59.1	60.7
Psychr., dry & wet	50.2 46.7 +73 +75	56.1 50.4 +63 +64	51.3 47.4 +66 +67
No. 4	50.7	56.8	52.4
C. 3235 (wet)	47.0 +71	51.0 +62	50.0 +81
Max., unset & set	60.9 50.8		
Min., —	46.8 50.0		
Gauge, oz. & inch.	1 1/4 0.110		
Aurora			
Lod. light			Twilight Twilight
Wind	4 NE	3 E	2 SE
Clouds	10 Pm 7m L	10 Pm 7m	0 Pm 7m Rs

* See note April 1

MONDAY, MAY 28, 1877.

	8	2	8
Bar.	30.258	30.212	30.200
Ath. therm.	54.0	63.7	66.4
Psychrom dry & wet	58.5 52.4 *63 *64	73.8 60.8 *43 *43	62.7 57.9 *72 *73
No. 4	59.8	74.0	63.7
613235 (wet)	53.0 *57	62.1 *47	59.0 *74
Max., unsh. & set	60.6 58.0		
Min., — —	43.2 57.4		
Gauge, oz. & inch.	0		
Aurora			*Twilight
Zod. light			Twilight
Wind	4 W	4 W S W	4 S S W.
Clouds	0 Rs 7m haze	1 M 7m Rs	0 7m Rs

* See note April 1

† At 10½ P.M. brilliant aurora in flashes, forming a corona, and appearing half way to the southern horizon from the zenith. Color only white. It soon disappeared.

TUESDAY, MAY 29, 1877.

	8	2	8
Bar.	30.246	30.203	30.157
Atmosphere.	60.2	70.5	70.6
Psychr., dry & wet	67.1 60.0 *63 *64	77.9 61.6 *34 *35	66.7 60.2 *66 *66
No. 4	68.1	78.8	67.0
Co. 3235 (wet)	60.3 *61	63.0 *37	62.0 *74
Max., unat. heat	76.0 65.8		
Min., " "	59.4 66.0		
Gauge, of wind.	0		
Aurora			
Zod. light			Twilight
Wind	0 WSW	4 SW	5 SSW
Clouds	0 haze	2 M 7m	0 haze P 7m

At 1 $\frac{5}{6}$ P.M. { 78.4 uncovered bulb of psychrometer } both day No. 4 79.1
 { 78.5 covered " " " } Co. 3235 78.8

* See note April 7

WEDNESDAY, MAY 30, 1877.

	8	2	8
Bar.	30.114	30.058	29.994
Ath. therm.	63.1	72.7	73.2
Psych., dry & wet	67.6 60.2 †62 †63	80.9 65.7 †40 †41	69.0 61.6 †62 †63
No. 24	69.0	81.1	69.8
6.3235 (wet)	60.7 †59	68.0 †48	63.7 †69
Max., sunset & set	78.9 66.2		
Min., —	55.6 66.2		
Gauge, oz. & inch.	0		
Aurora			Twilight
Zod. light			Twilight
Wind	1 W S W	0 W	5 S S W
Clouds	1 haze	4 M 7 m haze	1 P 7 m haze

Horizontal cloud of auroral light above and west of Cassiopeia at about 10 P.M.

† See note April 1

THURSDAY, MAY 31, 1877.

	8	2	8
Barom.	29.991	30.000	30.012
Ath. therm.	66.0	74.9	76.0
Psychr, dry & wet	71.2 62.5 *58 *59	82.9 66.6 *38 *39	71.6 64.4 *63 *65
No. 4	72.6	84.0	72.7
C. 3235 (wet)	63.4 *57	68.8 *43	67.0 *72
Max, unat & wet	82.0 70.1		
Min, — " —	57.6 70.2		
Gauge, oz. & inch.	0		
Aurora			cloudy
Zod. light			cloudy
Wind	1 NW	0 S	3 S
Clouds	5 P haze	5 P 7m haze	5 P 7m haze

* See note April 1

FRIDAY, JUNE 1, 1877.

	8	2	8
Bar.	30.124	30.139	30.132
Alt. therm.	68.2	80.3	79.4
Psychr., dry & wet	73.4 66.0 *65 *65	85.9 70.7 *43 *44	71.2 65.9 *73 *74
No. 4	74.7	86.9	73.0
Co. 3235 (wet)	66.6 +63	72.0 +46	67.3 +72
Max., unset & set	83.2 72.1		
Min., - " - "	60.6 72.0		
Gauge, oz. dish.	0		
Aurora			cloudy
Zod. light			cloudy
Wind	1 SW	1 W SW	0 calm
Clouds	4 haze fm	H haze	5 PkPs haze

At 7¹¹/₁₂ A.M. { 72.8 uncovered bulb of psychrometer } both dry (No. 4. 73.8
 { 73.3 covered " " " } Co. 3235 72.6

* See note April 1

SATURDAY, JUNE 2, 1877.

	8	2	8
Bar.	30.130	30.054	30.027
Ath. therm.	71.0	77.0	78.7
Psychr, dry & wet	72.9 67.2 *72 *72	86.8 70.5 *H1 *41	72.9 63.1 *54 *55
No. 4	74.1	87.8	74.0
C. 3235 (wet)	*68.2 73	72.0 *44	*66.0 63
Max., unsh. & set	86.3 72.5		
Min., — " —	63.4 72.1		
Gauge, g. Dineh.	0		
Aurora			cloudy
Lod. light			cloudy
Wind	0 W	3 SW	10 SSW
Clouds	5 haze	5 P 7m haze	4 P 7m haze

At 1 ¹¹/₁₂ P.M. { 86.9 uncovered bulb of psychrometry both dry { No. 4 88.1
87.1 covered " " " " { C. 3235 87.2

* See note April 1

SUNDAY, JUNE 3, 1877.

	8	2	8
Bar.	29.970	29.913	29.840
Att. therm.	69.4	76.9	77.0
Psych., dry & wet	71.9 63.8 *61 *62	79.7 67.7 *50 *51	70.0 63.8 *68 *69
No. 4	73.6	80.2	70.9
C. 3235 (wet)	64.5 *58	68.9 *54	65.4 *73
Max., unmet & set	87.1 71.5		
Min., — " —	61.1 71.1		
Gauge, oz. & inch.	0		
Aurora			
Zod. light			
Wind	4 NW	1 ESE	1 E
Clouds	5 PRs haze	4 haze	10 Pm 7m

* See note April 1

MONDAY, JUNE 4, 1877.

	8	2	8
Bar.	29.809	29.800	29.828
Alt. therm.	71.0	76.3	75.0
Psych., dry & wet	70.7 63.3 +64 +64	76.4 59.9 +32 +33	69.3 58.8 +49 +50
No. 4	71.3	77.1	69.8
63235 (wet)	63.9 +64	60.5 +33	60.3 +55
Max., unad. & set	81.6 70.7		
Min., — —	65.4 70.0		
Gauge, oz. inch.	0		
Moon			
Zod. light			
Wind	5 W	15 W	2 W
clouds	10 P 7m	5 haze 7m.	2 P haze

* See note April 1

TUESDAY, JUNE 3, 1877.

	8	2	8
Bar.	29.884	29.870	29.864
Alt. therm.	66.6	72.6	72.6
Psychr., dry & wet	66.4 58.0 *56 *57	73.5 64.5 *58 *59	65.0 60.2 *73 *74
No. 4	68.3	74.8	66.0
6.3235 (wet)	58.8 *53	66.0 *60	62.0 *79
Max., unsat & wet	77.8 66.3		
Min., - " -	56.5 65.6		
Gauge, oz. & inch.	0		
Aurora			
Zod. light			
Wind	4 NW	0 WSW	1 NW
Clouds	2 PRs	10 Pm	10 Pm

* See note April 1

WEDNESDAY, JUNE 6, 1877.

	8	2	8
Bar.	29.850	29.809	29.872
Att. Therm.	67.8	68.2	66.3
Psych., dry & wet	60.4 58.4 +87 +88	68.8 65.9 +84 +85	55.7 56.0 +100 +100
No. 4	60.8	69.5	56.2
C. 3235 (wet)	59.0 +89	66.6 +86	56.6 +100
Max., unmet heat	76.0 61.0		
Min., " "	58.8 60.3		
Gauge, oz. inch.	1.4 0.110		
Aurora			
Zod. light			
Wind	2 E	6 SSE	4 NE
Clouds	10 Pm	10 Pm	10 Pm heavy rain

Shower about 5½ P.M.; ~~and~~ others at about 7 P.M. and later; some thunder & lightning.

* See note April 1

THURSDAY, JUNE 7, 1877.

	8	2	8
Bar.	29.933	29.928	29.948
Alt. therm.	62.5	64.2	64.4
Psychr., dry & wet	55.8 55.7	57.8 57.5	57.4 57.2
No. 4	*98 *99	*97 *98	*97 *99
C. 3235 (wet)	56.1	58.5	58.0
Max., inset & set	56.1	58.0	58.0
Min., — " —	+97	+97	+97
Gauge, oz. inch.	69.7 / 56.0		
Aurora	54.2 55.2		
Zod. light	18½ 1.632		
Wind	5 NE	6 ENE	3 NE
Clouds	10 Pm mist	10 Pm mist	10 Pm mist raining

Much rain about noon

* See note April 1

FRIDAY, JUNE 8, 1877.

	8	2	8
Bar.	29.992	30.020	30.054
Atm. therm.	61.5	64.7	66.4
Psych., dry & wet	57.5 57.3	66.4 64.3	59.3 58.1
No. 4	*97 58.1	*87 67.1	*91 59.9
C. 3235 (wet)	57.9	65.0	59.2
	*96	*89	*95
Max., unmet & set	59.6 57.4		
Min., — " —	54.7 57.1		
Gauge, oz. & inch.	2 $\frac{7}{8}$ 0.254		
Bar. & light			
Wind	1 N	0 NE	0 E
Clouds	10 Pm mist	10 Pm fog	10 Pm fm ←

* See note April 1.

SATURDAY, JUNE 9, 1877.

	8	2	8
Bar.	30.050	30.000	29.948
Ath. therm.	63.3	68.8	71.2
Psych., dry & wet	60.6 59.4 *91 *93	72.0 67.0 *75 *76	69.0 67.0 *88 *90
No. 4	61.0	72.8	70.0
6.3235 (wet)	60.0 *94	68.0 *77	67.9 *89
Max., unmet fact	67.0 61.0		
Min., —	57.0 60.4		
Gauge, oz. & inch.	0 $\frac{1}{4}$ 0.022		
Aurora			
Zod. light			
Wind	1 E.	4 E	4 S
Clouds	10 Pm fog	10 Pm 11 Pm ↑	10 Pm 7m ↑

* See note April 1.

SUNDAY, JUNE 10, 1877.

	8	2	8
Bar.	29.812	29.760	29.840
Alt. therm.	67.9	72.9	73.6
Psychr., dry & wet	71.8 69.6 *88 *89	78.6 73.2 *75 *76	71.3 67.7 *81 *82
No. 4	72.0	80.2	71.8
C. 3235 (wet)	69.7 *88	74.7 *77	68.2 *82
Max., unsect & set	76.0 71.0		
Min., — " —	60.3 70.9		
Gauge, oz. wind.	0		
Aurora			
Zod. light			
Wind	4 SSW	6 SSW	4 SW
Clouds	10 Pm 7m	10 Pm 11 Pm	10 Pm 7m →

* see notes April 1.

MONDAY, JUNE 11, 1877.

	8	2	8
Bar.	30.110	30.130	30.121
Att. therm.	66.2	68.4	68.9
Psych., dry & wet	61.3 54.5 +61 +62	67.6 60.2 +67 +63	61.3 57.8 +79 +80
No. 4	62.7	68.7	62.3
Co. 3235 (wet)	55.8 +89	60.19 +61	59.0 +81
Max., unmet & wet	79.8 61.9		
Min., — " —	55.8 60.9		
Gauge, oz. & inch.	0		
Aurora			
Zod. light			
Wind	0 calm	0 S E	1 S S E
Clouds	10 Pm Fm	10 Pm Fm	9 Pm Fm Rs

+ See note April 1.

TUESDAY, JUNE 12, 1877.

	8	2	8
Bar.	30.250	30.281	30.252
Ath. therm.	62.9	68.6	69.0
Psych., dry bulb	64.2 68.2	67.2 58.5	62.8 61.2
	*77 65.5 *78	*85 *56	*90 *91
No. 4		67.7	63.4
C. 32 35 (wet)	60.8	59.6	62.4
	*75	*59	*94
Max., sunset bar	69.2 64.0		
Min., - " -	53.8 63.9		
Gauge, oz. rain	0		
Aurora			
Zod. light			
Wind	2 SE	5 SE	1 ESE
Clouds	8 P. 7m	9 P. 7m	10 Pm

* See note April 1

A few drops of rain in the evening.

WEDNESDAY, JUNE 13, 1877.

	8	2	8
Bar.	30.268	30.230	30.200
Ath. Therm.	65.1	70.8	73.1
Psych., dry & wet	64.0 61.3 *84 *85	77.0 71.3** *73 *74	67.8 63.9 *79 *80
No. 4	64.8	77.6	68.7
6.3235 (wet)	61.0 *79	69.4 *64	64.9 *80
Max., unset & set	70.7 64.0		
Min. — " —	58.6 63.4		
Gauge, oz. & inch.	0		
Barom			
Zodi. light			
Wind	1 SW	5 S	7 SW
Clouds	10 Pm	0 P M 7m	0 Pm

** Probably evaporated too quickly
although wet only 5 minutes before. Still damp,
but not wet.

* See note April 1

THURSDAY, JUNE 14, 1877.

	8	2	8
Bar.	30.147	30.078	30.197
Att. therm.	67.9	74.8	74.7
Psych., dry & wet	72.5 + 67.7	82.6 71.0	69.8 65.0
	+76 +77	+53 +54	+75 +76
No. 4	+74.1	83.8	70.7
C. 3235 (wet)	67.9	71.7	66.0
	+71.1	+53.1	+77
Max., unshd & set	77.4 71.4		
Min., " "	60.6 71.2		
Gauge, oz. & inch.	0		
Aurora			
Lod. light			
Wind	8 SW	4 WSW	8 SW
Clouds	0 P.M. fm Rs	10 P.M. M fm	10 P.M. M fm

* See note April 1.

† The morning sun probably makes both No. 4 and the wet bulb of the psychrometer stand too high. They are both near the eastern side of the shelter. Possibly the wet bulb may not have been wet enough, but this is not likely.

A little rain & thunder about 4 P.M.

FRIDAY, JUNE 15, 1877.

	8	2	8
Bar.	30.227	30.169	30.112
Air. therm.	69.7	75.2	76.5
Psych., dry & wet	73.5 61.9 *48 *48	76.2 63.6 *45 *47	73.0 68.9 *79 *80
No. 4	74.4	76.7	74.0
C. 3235 (wet)	63.1 *50	64.5 *48	70.0 *81
Max., unset & set	83.9 73.0		
Min., — " —	63.4 73.2		
Gauge, oz. & inch.	0.8 0.011		
Aurora			
Lod. light			
Wind	1 E	6 E	4 S
Clouds	9 Pm Fm	7 Pm Fm	10 Pm Fm

* See note April 1

SATURDAY, JUNE 16, 1877.

	8	2	8
Bar.	29.955	29.836	29.808
Att. therm.	71.0	73.4	74.9
Psych., dry & wet	69.3 67.6 *90 *91	77.9 72.2 *74 *75	72.9 70.6 *88 *89
No. 4	70.1	79.4	73.9
C. 3235 (wet)	68.0 *89	72.8 *71	71.1 *86
Max., unsat & sat	80.4 69.5		
Min., — " —	66.3 69.0		
Gaug., oz. in ch	0.5 0.055		
Bar. —			
Lod. light			
Wind	7 S	6 SW	3 SW
Clouds	10 Pm 7m raining	10 Pm 7m →	9 Pm 11 Pm 7m

* See note April 1

SUNDAY, JUNE 17, 1877.

Bar.	8 29.928	2 29.954	8 30.050
Atm. therm.	70.4	72.9	73.7
Psyche, dry & wet	71.0 61.8 +56 +57	76.4 60.6 +34 +35	67.7 56.8 +46 +47
No. 4	72.4	76.8	68.4
6-3235 (wet)	62.4 +54	61.7 +38	57.8 +47
Max., sunset & set	79.2 70.6		
Min., — " —	64.1 70.1		
Gauge, oz. & inch.	0		
Aurora			
Zod. light			
Wind	6 NNW	11 NW	0 calm
Clouds	0 7m	0 7m	0 7m

* See note April 1

MONDAY, JUNE 18, 1877.

	8	2	8
Bar.	30.169.	30.104	30.032
Ath. therm.	66.1	72.8	74.2
Psych., dry & wet	70.7 60.3 *50 *51	80.3 64.6 *38 *39	67.6 59.4 *58 *59
No. 4	72.9	79.9	68.7
Co. 3235 (wet)	61.4 *48	66.0 *44	61.9 *66
Max., unsat & wet	77.0 69.6		
Min., — " —	53.2 69.2		
Gauge, oz. & inch.	0		
Barometer			
Lod. light			
Wind	0 WNW	7 S W	4 S S W
Clouds	0 Rs Fm	0 Rs Fm	0 P Rs

* See note April 1

TUESDAY, JUNE 19, 1877.

Bar.	29.877 ⁸	29.806 ²	29.888 ⁸
Atm. therm.	69.0	75.0	81.1
Psych., dry & wet	74.4 68.8	84.8 75.7	77.2 65.2
No. 14	^{*73} 76.0 ^{*74}	^{*63} 85.7 ^{*64}	^{*49} 78.0 ^{*49}
Co. 3235 (wet)	69.0	76.0	66.1
	^{*68}	^{*63}	^{*50}
Max., moist & wet	79.4 73.5		
Mini., —	61.8 73.2		
Gauge, oz. in ch.	0		
Aurora			
Led. light			
Wind	6 SW	6 W	4 WNW
Clouds	9 Pm 7m	4 M 7m	2 Pm 7m

*See note April 1

WEDNESDAY, JUNE 20, 1877.

	8	2	8
Bar.	30.194	30.175	30.126
Atm. therm.	68.9	72.0	72.9
Psychr., dry bulb	63.6 53.2	73.9 57.3	64.2 58.2
	*45 *45	*29 *30	*66 *68
No. 4	65.8	74.4	65.3
C. 3235 (wet)	53.9	58.9	59.7
	*39	*34	*70
Max., unmet & set	86.3 63.3		
Min., — " —	55.2 62.8		
Gauge, oz. & inch.	0		
Aurora			
Lod. light			
Wind	3 N	0 W	7 SSW
Clouds	0 P Rs	0	0 Rs. Fur

*See note April 1

THURSDAY, JUNE 21, 1877.

	8	2	8
Bar.	30.028	29.873	29.718
Ath. therm.	65.8	70.3	72.0
Psych., dry & wet	67.5 60.1 *62 *63	72.7 63.3 *55 *57	68.4 64.5 *79 *80
No. 4	69.6	73.9	69.2
C. 3235 (wet)	60.5 *56	63.5 *53	65.1 *79
Max., unset & set	75.6 67.0		
Min., —	52.2 66.1		
Gauge, oz. & inch.	0		
Aurora			
Lod. light			
Wind	4 SW	6 SW	4 SW
Clouds	0 Rs 7m	10 Pm 7m	10 Pm 7m → a few drops of rain

* See note April 1

FRIDAY, JUNE 22, 1877.

	8	2	8
Bar.	29.632	29.717	29.898
Att. therm.	70.2	71.0	68.8
Psych., dry & wet	68.5 63.4	69.5 56.0	60.0 51.5
No. 4	*73 69.1 *74	*37 69.5 *37	*51 *52
C. 32 35 (wet)	62.7	70.0	60.2
	*68	57.0	52.6
		*39	*55
Max., moist & wet	76.9 68.9		
Min., — " —	65.2 68.0		
Gauge, sq. & inch.	2 0.177		
Aurora			
Lod. light			
Wind	11 NNW	15 NNW	6 NW
Clouds	8 Pm M 7m Pm	3 M 7m Pm	1 P 7m

* See note April 1

	11 A.M.	5 P.M.
Bar	29.694	29.782
Att. th.	70.5	71.3
Psych.	69.8 58.4	67.3 54.9
No. 4	70.3	67.8
C. 32 35 (wet)	59.2	55.8
Wind	17 NW	13 NNW
Clouds	4 M 7m	1 M 7m Pm

North Meridian Mark examined 5 to 6 P.M. It was visible in the East Equatorial, just east of the upper part of my house, close to the West Woodford flagstaff, on the east of the flagstaff; the ridgepoles of the houses on the northwest corner of College Hill hid the lower part of the house by the flagstaff just mentioned. The comet seeker showed that from the floor of the dome the view of the meridian mark was cut off by these houses on College Hill, although the pole on the mark could still be seen. Nothing can now be seen the mark through the Cooke transit circle or from any part of the lower story of the Observatory.

SATURDAY, JUNE 23, 1877.

	8	2	8
Bar.	30.106	30.016	29.982
Att. therm.	61.1	66.8	70.7
Psych., dry bulb	61.2 51.3	72.0 56.1	63.7 53.6
	*44 *45	+130 *31	+45 *46
No. 4	62.4	72.6	64.4
C. 3235 (wet)	51.9	57.0	55.0
	*43	*31	*49
Max., moist & act	71.3 61.0		
Min., — " —	47.3 60.3		
Gauge, oz. & inch.	0		
Aurora			
Zod. light			
Wind	8. N.W.	3 W	7 S.W.
Clouds	0	1 P Rs 7m	1 P Rs 7m

* See notes April 1

	11 A.M.	5 P.M.
Bar.	30.072	29.994
Att. th.	62.0	70.9
Psych.	69.0 53.8	72.2 56.2
No. 4	68.6	72.8
C. 3235 (wet)	55.0	57.3
Wind	1 WNW	4 WSW
Clouds	0 Rs	5 R Rs 7m

SUNDAY, JUNE 24, 1877.

	8	2	8
Bar.	29.940	29.850	29.824
Att. therm.	64.4	69.6	72.0
Psych., dry & wet	65.4 57.6	76.8 65.4	67.4 62.7
No. 4	*58 66.6	*50 77.8	*71 68.4
C. 323 (wet)	58.1	66.5	64.2
	*57	*52	*78
Max., inset & set	73.2 64.9		
Min., — " —	54.1 64.1		
Gauge, oz. & inch.	0		
Barom.			
Zod. light			
Wind	5 SW	6 SW	6 SSW
Clouds	9 P R	8 P Rm Rs M fm	1 P R

* See note April 1

MONDAY, JUNE 25, 1877.

	8	2	8
Bar.	29.753	29.736	29.798
Atm. therm.	68.2	73.9	79.5
Psychr., dry & wet	74.0 68.8 *75 *76	83.2 70.8 *51.0 *52	78.2 65.7 *47 *48
No. 4	75.1	84.0	78.9
C. 3235 (wet)	69.0 *72	71.2 *51	66.8 *50
Max., sunset & set	78.5 73.3		
Min., —	62.9 73.2		
Gauge, oz. inch.	0		
Aurora			
Zod. light			
Wind	8 SW	5 WSW	6 WSW
Clouds	10 Pm 7m	8 Pm P M 7m	5 Pm M 7m —

* See note April 1

TUESDAY, JUNE 26, 1877.W

	8	2	8
Bar.	29.949	29.918	29.914
Ath. therm.	71.8	73.0	70.3
Psych., dry & wet	67.5 58.4 *53 *55	62.9 57.1 *67 *67	60.4 58.4 *87 *88
No. 4	68.0	63.5	60.9
Co. 3235 (wet)	59.6 *58	58.0 *70	59.3 *90
Max., inset & set	86.0 68.0		
Min., — " —	63.0 67.3		
Gauge, oz. direct.	0		
Aurora			
Zod. light			
Wind	4 E NE	5 NE	3 NE
Clouds.	10 Pm 7m	10 Pm	10 Pm 7m →

* See note April 1

WEDNESDAY, JUNE 27, 1877.

	8	2	8
Bar.	29.988	30.047	30.058
Att. therm.	65.8	70.0	70.2
Psych., dry wet	60.9 54.9 *65 *66	66.8 57.5 *52 *53	60.0 54.5 *66 *68
No. 4	61.4	67.1	60.4
C. 3235 (wet)	56.0 *67	58.8 *58	56.5 *75
Max., unsh. wet	70.6	61.6	
Min., - " -	54.2	60.9	
Gauge, oz. inch.	0		
Aurora			
Zod. light			
Wind	2 E	3 E	2 SE
Clouds	10 Pm	9 Pm Fm	1 Pm Fm

* See note April 1

At 1 $\frac{1}{2}$ P.M. { 66.5 uncovered bulb of psychrometer both days } 67.2 No. 4
 { 66.7 covered " " " } 67.8 C. 3235

THURSDAY, JUNE 28, 1877.

	8	2	8
Bar.	30.100	30.090	30.110
Atm. therm.	63.7	69.8	70.7
Psychr., dry & wet	65.2 59.8	71.1 61.6	64.5 56.1
No. 4	*70	*54	*55
6.3235 (wet)	66.7	71.9	65.1
	60.0	63.0	57.3
	*66	*58	*57
Max., unmet & set	68.9 64.2		
Min., — " —	50.8 63.8		
Gauge, oz. Hinch.	0		
Barometer			
Tod. light			
Wind	1 S	4 E	6 S
Clouds	9 P R 7m	10 P m M 7m	10 P m 7m

* See note April 1

FRIDAY, JUNE 29, 1877.

	8	2	8
Bar.	30.143	30.098	30.140
Att. therm.	66.0	70.8	72.2
Psychr., dry wet	70.4 60.0	78.5 63.3	60.8 53.3
No. 4	*50 *51	*38 *39	*56 *58
6.3235 (wet)	72.5	79.0	61.7
	60.5	65.0	56.4
	*46	*43	*67
Max., unsat wet	†81.0 69.0		
Min., —	55.7 69.0		
Gauge, oz. inch.	0		
Barom.			
Lod. light			
Wind	4 S	6 SW	4 S
Clouds	7 Pm. Fair	1 Pm. P. Fair	1 P. Rain

* See note April 1

† Perhaps error for 71.0; see record for June 28

SATURDAY, JUNE 30, 1877.

	8 10	2	8
Bar.	30.136		
Att. therm.	65.1		
Psych., dry & wet	62.6 56.2		
	*64 *64		
No. 4	61.8		
Co. 3235 (wet)	58.0		
	*78		
Max., inset & set	78.9 55.2		
Min., —	54.2 61.2		
Gauge, oz. & inch.			
Barometer			
Zod. light			
Wind	Rainy 1		
Clouds	8		
	clear in wet		

* See note April 1

SUNDAY, JULY 1, 1877.

Bar.	8 29.871	2 29.806	8 29.726
Atm. therm.	67.8	69.7	73.0
Psych., dry bulb	67.8 64.4 +81 +82	76.9 71.5 +75 +75	70.4 68.4 +89 +90
No. 4	68.5	77.7	71.2
6.32.35 (wet)	65.0 +82	72.0 +75	69.0 +89
Max., sunset bar	75.8 68.0		
Min., - "	56.9 67.3		
Gauge, oz. hinch.	+0.088		
Aurora			
Zod. light			
Wind	8 S	11 S	9 SSW
Clouds	10 Pm Fm	10 Pm Fm M	10 Pm Fm

* See note April 1

† Part of the rain fell before 8 A.M., June 30

Clear for a time about 5 P.M.

MONDAY, JULY 2, 1877.

	8	2	8
Bar.	29.728	29.807	29.890
Att. therm.	69.7	73.7	72.4
Psych., dry wet	74.7 66.0 *60 *61	72.6 61.6 *49 *50	66.1 60.0 *67 *68
No. 4	76.2	73.2	66.7
6.3235 (wet)	66.8 *59	62.3 *51	60.9 *70
Max., moist & sat	79.0 71.5		
Min., — " —	62.2 73.2		
Gauge, oz. inch.	8 $\frac{1}{8}$ 0.783		
Barom.			
Lod. Light			
Wind	5 WSW	9 WNW	3 W
Clouds	0 PM 7m Rs	5 PM 7m —	7 PM 7m Rs

* See note April 1

TUESDAY, JULY 3, 1877.

	8	2	8
Bar.	29.994	29.941	29.900
Alt. therm.	67.5	73.1	75.4
Psychr., dry & wet	70.0 62.6 *63 *64	82.0 68.7 *47 *48	70.5 64.8 *71 *72
No. 4	71.3	82.9	71.7
C. 3235	63.1 *61	69.5 *48	67.0 *77
Max., unmet feet	75.7 69.7		
Min., --	58.4 69.0		
Gauge, oz. & inch.	0		
Aurora			
Zod. light			
Wind	1 WSW	5 SW	3 SSW
Clouds	10 P 7m	9 Pm 7m	8 P 7m R

5 P.M.

Bar. 29.908
 Alt. th. 75.7
 Psychr. 78.9 66.8
 No. 4 80.0
 C. 3235 (wet) 67.9
 Wind 3 SW
 Clouds 5 P R

* See note April 1

WEDNESDAY, JULY 4, 1877.

	8	2	8
Bar.	29.918	29.942	29.978
Att. therm.	69.8	72.0	73.8
Psychr., dry & wet	62.1 58.0	75.6 62.9	66.2 61.3
No. 4	x76	x45	x73
	63.4	75.9	67.4
Co. 32 35 (wet)	58.9	64.0	63.9
	x75	x49	x82
Max., unshd & shd	82.0 63.0		
Min., - - -	61.8 62.7		
Gaug., oz. & inch.	0.5 0.055		
Aurora			
Zod. light			
Wind	8 NE	5 NE	0 E
Clouds	10 Pm a little rain	1 Pm M Fm	0 Fm Rs

11 A.M.
 Bar. 29.944
 Att. th. 69.1
 Psychr. 69.5 62.2
 No. 4 69.9
 Co. 32 35 (wet) 63.1
 Wind 4 NE
 Clouds 4 Pm Fm Rs

* See note April 1
 At 1 $\frac{1}{2}$ P.M.
 Uncovered bulb of psychrometer 75.5
 Covered " " " 75.5 } all day.
 No. 4 75.8
 Co. 32 35 75.8

THURSDAY, JULY 5, 1877.

	8	2	8
Bar.	30.010	29.956	29.900
Ath. therm.	66.0	73.1	76.8
Psych., dry & wet	70.8 60.2 +50 +50	82.9 65.5 +34 +35	71.5 65.9 +72 +73
No. 4	72.7	83.8	72.7
C. 3235 (wet)	60.8 +47	67.0 +38	68.0 +78
Max., unmet & set	76.7 70.0		
Min., — " —	57.9 69.5		
Gauge, oz. & inch.	0 $\frac{1}{8}$ 0.011		
Aurora			
Lod. light			
Wind	1 NW	0 WSW	3 S
Clouds	3 R R R	9 R R	9 P R

At 1 $\frac{1}{2}$ P.M. { 83.2 uncovered bulb of psychrometer } both dry { No. 4 83.9
 { 83.4 covered " " " } { C. 3235 83.1 }

* See note April 1

FRIDAY, JULY 6, 1877.

	8	2	8
Bar.	29.906	29.920	29.965
Alt. therm.	69.7	72.2	71.0
Psychr., dry & wet	61.3 60.7	71.2 62.3	64.3 61.8
	+95 +97	+57 +58	+85 +86
No. 4	62.8	71.9	65.0
C. 3235 (wet)	61.4	63.6	62.3
	+91	+61	+85
Max., unmet & act	84.6 61.0		
Min., — " —	59.9 61.4		
Gauge, oz. & inch.	2 $\frac{7}{8}$ 0.254		
Aurora			
Zod. light			
Wind	3 S	6 ENE	4 N
Clouds	10 Pm 7m raining	10 Pm 7m	9 Pm 7m

* See note April 1

SATURDAY, JULY 7, 1877.

	8	2	8
Bars	30.073	30.093	30.104
Atm. therm.	67.3	73.6	72.2
Psychr. dry & wet	67.9 62.1 *69 *70	71.6 63.9 *63 *63	63.3 59.7 *79 *80
No. 4 6.3235 (wet)	69.0 *69	72.4 *65	64.5 *86
Max., inside & out	72.2 67.6	0.10 5.14	67.6 62.0
Min., — " —	58.8 61.1	47.5 51.2	61.1 58.8
Gauge, oz. & inch.	0.8 0.011	0.7 0.011	0.7 0.011
Aurora			
Zod. light			
Wind	2 NE	2 S.E. E	1 E
Clouds	1 fm / 100	1 M fm / 100	1 P R fm

* See note April 1

SUNDAY, JULY 8, 1877.

	8	2	8
Bar.	30.062	29.992	29.943
Atm. therm.	67.0	72.2	74.0
Psy. chr., dry & wet	71.1 65.5 +71 +73	79.6 67.5 +50 +50	70.6 63.3 +64 +64
No. 4	72.2	79.8	71.2
6.3235 (wet)	66.0 +70	68.2 +52	65.0 +70
Max., sunset & set	74.0 70.6		
Min., — " —	58.8 70.2		
Gauge, oz. & inch.	0		
Aurora			
Zod. light			
Wind	7 SSW	10 SW	5 SSW
Clouds	10 Pm	10 Pm	10 Pm Fm N

* See note April 7

MONDAY, JULY 9, 1877.

	8	2	8
Bar.	29.811	29.73.6	29.66.7
Ath. therm.	70.2	74.7	74.1
Psych., dry & wet	71.2 67.6 +81 +82	78.5 73.7 +77 +78	69.4 69.0 +97 +98
No. 44	71.9	80.2	70.4
6.3235 (wet)	68.0 +81	74.6 +77	69.4 +95
Max. unset & set	82.4 71.0		
Min. — " —	65.3 70.6		
Gauge, oz. & inch.	0		
Aurora			
Zod. light			
Wind	2 SW	2 SW	4 SW
Clouds	10 Pm Fm	10 Pm Fm a little rain	9 Pm Fm

* See note April 1

Rain after 2 P.M., with a little thunder & lightning

TUESDAY, JULY 10, 1877.

	8	2	8
Bar.	29.718	29.762	29.809
Alt. therm.	71.7	77.0	75.9
Psychr., dry & wet	74.1 70.8 +83 +84	74.2 71.0 +84 +85	68.2 66.0 +87 +88
No. 41	75.0	+77.0	69.7
b. 3235 (wet)	71.2 +83	71.7 +77	67.7 90
Max., moist & set	81.6 73.0		
Min., — " —	66.9 73.3		
Gauge, g. inch.	5 1/4 0.463		
Bar. —			
Lod. light			
Wind	41 SW	2 WNW	0 SE
Clouds	10 Pm	10 Pm 7m raining hard	5 M Pm 7m

+ See note April 1

+ Thermometers falling, so No. 41 lags as usual.

Green 835 2 P.M. 8 P.M.
 Bar. 29.788 29.836
 Alt. th. 77.3 74.8
 Corrected 29.658 29.712
 1.68 29.633 29.683
 corrected
 Diff. .025 .029

Thunder shower at 2 P.M.

WEDNESDAY, JULY 11, 1877.

	8	2	8
Bar.	29.924	29.933	29.958
Alt. therm.	71.2	75.7	78.4
Psychr., dry & wet	70.8 64.9 *70 *71	83.0 72.8 *59 *59	74.2 65.5 *60 *60
No. 4	72.0	83.8	74.9
Co. 3235 (wet)	65.8 *70	74.0 *62	67.3 *65
Max., unret. & act	+85.9 70.2		
Min., — " —	62.9 70.0		
Gauge, oz. & inch.	5 $\frac{5}{8}$ 0.496		
Aurora			
Zod. light			
Wind	0 calm	2 SSW	1 SW
Clouds	9 P Rs Fm	7 Pm Fm	10 Pm Fm

* See note April 1

+85.9 is correct. At
2 P.M. yesterday the
temperature had fallen
considerably.

Green 835	8	2	8
Bar.	29.952	29.960	29.976
Alt. H.	71.1	76.5	77.9
Corrected	29.838	29.832	29.843
N. 68	29.810	29.807	29.824
corrected			
Diff.	.028	.025	.019

THURSDAY, JULY 12, 1877.

	8	2	8
Bar.	30.032	30.031	30.031
Atm. therm.	72.4	76.2	79.1
Psychr., dry & wet	70.2 59.6 +49 +50	78.3 63.3 +39 +39	71.4 63.0 +59 +60
North	71.4	79.0	72.8
6.3235 (wet)	60.2 +48	64.8 +43	67.1 +72
Max., unmet & set	83.0 69.8		
Min., — " —	64.2 69.2		
Gauge, oz. & inch.	0		
Aurora			
Zod. light			
Wind	5 NW	0 NW	1 SW
Coloreds	0 P	1 M Fm P R	1 P R, M Fm

* See notes April 1

Green 835 8 2 8
 Bar. 30.055 30.058 30.053
 Atm. 71.7 77.0 77.9
 Corrected 29.938 29.928 29.920
 N. 68 corrected 29.914 29.904 29.896
 Diff. .024 .024 .024

FRIDAY, JULY 13, 1877.

	8	2	8
Baz.	30.002	29.950	29.954
Atm. therm.	71.5	75.8	77.0
Psych., dry & wet	68.5 61.1 +62 +63	75.5 64.2 +57 +57	68.2 60.8 +62 +63
No. 4	69.4	76.3	68.7
6.3235 (wet)	61.8 +63	66.1 +55	62.9 +70
Max., sunset & set	79.9 68.5		
Min., — " —	61.7 68.0		
Gauges, oz. & inches			
Barom.			
Zod. light			
Wind	4 NW	2 SE	2 NE
Clouds	0	3 M 7m	8 Pm 7m M

* See note April 7.

SATURDAY, JULY 14, 1877.

	8	2	8
Bar.	29.984	29.980	29.992
Alt. therm.	70.0	73.0	73.6
Psych., dry & wet	64.7 57.0 *58 *59	74.5 63.5 *51 *52	66.4 66.1 *66 *67
No. 4	65.3	75.1	67.8
C. 3235 (wet)	57.8 *58	64.8 55	64.0 *80
Max., sunset & set	lost 64.7		
Min., — " —	58.0 63.9		
Gauge, oz. & inch.	0		
Aurora			
Zod. light			
Wind	7 N	5 SE	1 SE
Clouds	4 Pm 7m Pm	4 M 7m	0 Pm 8m

* See note April 1

	11 A.M.	5 P.M.
Bar.	29.984	29.980
Alt. th.	70.2	75.6
Psych.	70.7 59.5	71.9 60.1
No. 4	71.2	73.0
C. 3235 (wet)	60.6	62.4
Wind	5 N	1 SE
Clouds	9 Pm 11 Pm	1 M 7m

A few drops of rain early.

SUNDAY, JULY 15, 1877.

	8	2	8
Bar.	30.035	30.006	29.976
Alt. therm.	66.8	74.3	77.8
Psychr., dry & wet	70.4 62.0 *59 *59	78.8 64.4 *41 *42	74.6 66.4 *62 *63
No. 4	71.1	79.6	75.6
6.3235 (wet)	62.8 *60	65.2 *42	69.0 *70
Max., unmet & set	74.7 70.0		
Min., — " —	57.3 69.4		
Gauge, g. inch.	0		
Lunar			
Zodiac light			
Wind	1 WNW	1 NW	1 W
Clouds	8 P R R thin	9 P m M 7 m	8 P m 7 m

* See notes April 1

11 A.M. — 5 P.M.

Bar.	30.023	29.980
Alt. th.	70.0	77.0
Psychr.	76.4 61.8	80.3 67.6
No. 4	77.1	81.2
6.3235 (wet)	62.9	68.9
Wind	1 WNW	0 WNW
Clouds	3 P R R 7 m	1 P m 7 m R

MONDAY, JULY 16, 1877.

	8	2	8
Bar.	29.968	29.981	29.953
Att. therm.	73.0	75.1	76.9
Psychr., dry & wet	73.9 68.9	75.8 70.3	72.5 69.3
No. 4	+75 *76	+74 *75	+83 *84
6.3235 (wet)	75.1	77.0	73.7
	69.6	71.9	70.9
	+75	+78	+87
Max. inset & set	80.9 73.7		
Min. - "	65.7 73.0		
Gauge, oz. inch.	0		
Bar. light			
Wind	0 SE	1 SSW	2 SSW
Clouds.	9 Pm Fm	9 Pm Fm	0 haze Fm

11 $\frac{1}{2}$ A.M. 5 P.M.

* See note April 1

Bar.	30.008	29.951
Att. th.	74.3	76.2
Psychr.	76.4 71.0	79.5 71.2
No. 4	77.8	80.6
6.3235 (wet)	71.9	72.2
Wind	1 SE	2 SSW
Clouds	10 Pm Fm	2 Pm Fm

A few drops of rain about noon.

TUESDAY, JULY 17, 1877.

	8	2	8
Bar.	29.970	29.909	29.886
Alt. therm.	73.7	75.9	77.4
Psych., dry & wet	72.4 70.8 +91 +92	82.9 77.2 +75 +76	73.6 71.9 +91 +91
No. 4	73.2	83.9	74.3
C. 3235 (wet)	71.6 +93	77.8 +76	72.8 +94
Max., insect & set	79.4	72.8	
Min., —	69.1	72.1	
Gauge, 3. inch.	0		
Aurora			
Zod. light			
Wind	2 S	5 S	3 SW
Clouds	10 Pm fog	10 Pm fm	10 Pm; a little rain

11 A.M. — 5¹/₄ P.M.

* See note April 1

Bar.	29.876
Alt. th.	77.6
Psych.	78.3 73.9
No. 4	78.4
C. 3235 (wet)	74.7
Wind	5 S
Clouds	10 Pm

WEDNESDAY, JULY 18, 1877.

	8	2	8
Bar.	29.997	29.962	29.956
Alt. therm.	72.9	78.3	80.2
Psychr., dry & wet	75.1 68.9 *71 *71	87.0 74.8 *54 *54	75.7 72.0 *82 *82
No. 4	75.8	87.6	76.7
C. 3235 (wet)	69.6 *73	75.9 *57	73.0 *84
Max., unset & set	83.0 74.5		
Min., —	64.3 74.1		
Gauge, oz. & inch.	0		
Bar. v. v. v.			
Tod. light			
Wind	6 W SW	6 SSW	8 S
Clouds	1 P R s 7m	6 P R s 7m P R s	10 P m 7m P r

11 A.M. 5 P.M.

*See note April 1

Bar.	29.990	29.950
Alt. th.	74.3	80.7
Psychr.	83.7 70.7	83.5 73.6
No. 4	84.1	84.6
C. 3235 (wet)	71.5	74.9
Wind	2 WSW	7 S
Clouds	1 P R s 7m	9 P R s 7m

THURSDAY, JULY 19, 1877.

	8	2	8
Bar.	29.869	29.771	29.836
Atm. therm.	75.7	77.8	78.3
Psychr., dry & wet	76.6 72.4	81.7 74.7	70.7 69.0
No. 4	*79	*69	*90
6.3235 wet	77.5	82.3	71.7
	73.0	75.1	69.9
	*80	*71	*93
Max., unset & set	86.8 76.3		
Min., —	70.2 76.1		
Gauge, oz. & inch.	0		
Aurora			
Zod. light			
Wind	6 S	10 SSW	4 S
Clouds	10 Pm M. Fm	10 Pm M. Fm	10 Pm Fm

11 A.M. 5 P.M.

* See note April 1

Bar.	29.811	29.799
Atm. th.	76.7	78.7
Psychr.	80.3 74.1	78.8 73.6
No. 4	81.1	79.7
6.3235 (wet)	74.7	74.1
Wind	6 S	13 SSW
Clouds	10 Pm M. Fm	10 Pm M. Fm

FRIDAY, JULY 20, 1877.

	8	2	8
Bar.	29.864	29.885	29.913
Atm. therm.	74.6	77.2	77.4
Psychr., dry & wet	72.7 70.3 +87 +88	81.2 73.4 +67 +67	72.7 70.8 +90 +91
No. 4	73.7	82.5	73.5
C. 3235 (wet)	71.0 +88	73.9 +66	71.3 +90
Max., sunset & wet	82.3 73.0		
Min., —	68.6 72.2		
Gauge, 3. inch.	1 0.088		
Barom.			
Lod. light			
Wind	6 S	6 S	4 SSW
Clouds	10 Pm Fm	10 Pm M Fm	10 Pm Fm

	11 A.M.	5 P.M.
Bar.	29.884	29.906
Atm. th.	75.6	78.0
Psychr.	78.6 74.0	74.8 71.3
No. 4	79.0	75.8
C. 3235 (wet)	75.7	72.3
Wind	6 S	4 SSW
Clouds	10 Pm Fm	10 Pm Fm

* See note April 1

C. 29563, 2 P.M. 81.0

5 — — 74.7

SATURDAY, JULY 21, 1877.

	8	2	8
Bar.	30.006	30.049	30.099
Att. therm.	74.4	77.4	78.6
Psychr., dry wet	73.7 71.4 *88 *89	82.9 75.5 *69 *69	74.9 72.3 *86 *87
No. 4	74.6	84.6	75.7
C. 3235 (wet)	72.0 *88	76.4 *68	73.0 *88
Max., moist wet	82.0 73.6		
Min., —	68.4 73.1		
Gauge, oz. inch.	1 $\frac{5}{8}$ 0.143		
Baran			
Zod. light			
Wind	4 SSW	4 SSW	3 S
Clouds	10 Pm 7m	10 Pm M 7m	10 Pm 7m

	11 A.M.	5 $\frac{1}{4}$ P.M.
Bar.	30.044	30.068
Att. th.	75.7	78.7
Psychr.	77.2 73.5	77.9 73.7
No. 4	78.5	78.9
C. 3235 (wet)	74.4	74.8
Wind	3 SSW	4 S
Clouds	10 Pm 7m	10 Pm 7m

* See note April 1

C. 29563, 2 P.M., 83.0

SUNDAY, JULY 22, 1877.

	8	22	8
Bar.	30.202	30.217	30.234
Att. therm.	75.0	78.9	81.1
Psychr., dry & wet	75.1 67.9 *66 *67	80.3 70.0 *56 *57	75.4 69.0 *70 *71
No. 4	75.3	81.0	76.4
C. 3235 (wet)	68.5 *69	71.6 *62	72.1 *81
Max., current & set	83.3 74.6		
Min., — " —	69.1 74.2		
Gauge, oz. & inch.	0		
Barora			
Lod. light			
Wind	2 N	2 ESE	2 SE
Clouds	1 Br Rs Fm	1 Br M Fm	9 Br Fm R Rs

* See note April 1

	11 A.M.	5 P.M.	
Bar.	30.212	30.221	
Att. th.	76.0	81.2	
Psychr.	80.8 68.4	78.4 66.5	
No. 4	81.9	79.1	
C. 3235 (wet)	69.5	68.0	
Wind	3 NNE	3 E	
Clouds	9 Br Fm M	9 Br Fm M R Rs	

C. 29563, 2 P.M. 80.0
5 P.M. 78.4

MONDAY, JULY 23, 1877.

	8	2	8
Bar.	30.265	30.244	30.201
Att. therm.	76.0	77.8	79.8
Psych., dry wet	75.8 68.6 *66 *68	80.5 70.2 *57 *58	73.9 67.3 *68 *69
No. 4	76.5	81.1	74.7
C. 3235 (wet)	69.1 *68	70.9 *59	69.0 *73
Max., wet & rel	83.7 75.6		
Min., —	68.0 75.0		
Gauge, oz. Hinch.	0		
Humid.			
Zod. light			
Wind	2 WNW	1 NW	3 WSW
Clouds	9 P. 7m	8 P 7m	9 P P. 7m

* See note April 1

11 A.M. — 5 P.M.

Bar.	30.204
Att. th.	79.4
Psych.	80.9 68.9
No. 4	81.8
C. 3235 (wet)	69.8
Wind	0 WNW
Clouds	9 P 7m

C. 29563, 2 P.M., 79.8

TUESDAY, JULY 24, 1877.

	8	2	8
Bar.	30.209	30.132	30.050
Atm. therm.	73.4	77.2	80.1
Psychr., dry & wet	71.4 63.6 +62 +63	80.7 63.9 +35 +35	74.7 66.0 +60 +61
No. 4	72.0	81.3	75.4
6.3235 (wet)	64.6 +65	64.9 +37	67.6 +65
Max., insect & wet	81.6	71.2	
Min., - - -	64.9	70.8	
Gage, oz. & inch.	0		
Humidity			
Lod. light			
Wind	2 NNW	4 NW	4 WSW
Clouds	7 P. Rs	1 P. Rs	0 P. Rs Fm

* See note April 1

	11 A.M.	5 P.M.
Bar.	30.198	30.068
Atm. th.	74.5	80.2
Psychr.	76.8 64.6	81.7 66.4
No. 4	77.5	82.4
6.3235 (wet)	65.6	67.5
Wind	0 NW	2 W
Clouds	5 P. Rs Fm	0 haze Fm

WEDNESDAY, JULY 25, 1877.

	8	2	8
Bar.	29.913	29.860	29.892
Atm. therm.	72.6	79.2	80.7
Psych., dry bulb	75.2 65.9 *58 *58	89.0 71.8 *40 *40	71.8 66.2 *72 *73
No. 4	75.5	89.6	73.2
C. 3235 (wet)	66.9 *62	72.9 *42	67.2 *72
Max., unsh. Azet	81.6 74.5		
Min., —	65.7 74.3		
Gage, oz. inch.	0		
Bar. range			
Tod. light			
Wind	1 W	6 NW	4 NE
Clouds	1 haze fm	4 M fm PRs	1 PRs fm

* See note April 1

THURSDAY, JULY 26, 1877.

	8	2	8
Bar.	29.920	29.877	29.935
Ath. therm.	72.8	78.8	78.6
Psych., dry wet	68.8 65.4 *81 *82	78.2 69.9 *63 *64	66.5 64.5 *88 *89
No. 4	69.9	79.4	67.2
C. 32 35 (wet)	66.0 *80		
Max., unmet bet	89.0 69.0		
Min., — " —	61.3 68.0		
Gauge, oz. inch.	0		
Aurora			
Zod. light			
Wind	0 NNW	3 ESE	4 ENE
Clouds	7 P _m haze	6 P _m 7 _m R & R	8 P_m 4 P _m M

* See note April 1.

FRIDAY, JULY 27, 1877.

	8	2	8
Bar.	30.115	30.170	30.182
Alt. therm.	71.0	71.8	71.7
Psyche, dry bulb	62.1 61.2 +94 +95	64.8 62.5 +86 +87	62.7 61.5 +91 +93
No. 41 6.3235 (wet)	62.7	65.2	63.2
Max., unmet. wet	85.2 63.0	89.5 89.8	88.5 88.5
Min., -	61.1 61.9	61.1 61.9	61.1 61.9
Gauge, oz. rain	0	0	0
Sun. light			
Wind	2 NE	4 E	3 E
Clouds	10 Pm	10 Pm	10 Pm

* See note April 1

SATURDAY, JULY 28, 1877.

	8	2	8
Bar	30.108	30.049	30.000
Ath. therm.	69.5	70.8	71.4
Psych., dry bulb	63.7	67.8	64.6
	+92	+85	+90
No. 4	62.4	65.3	63.1
C. 3235	64.2	68.5	65.1
	+92	+87	+92
Max., moist & wet	66.6		
Min., " "	61.7		
Gauge, oz. direct.	0		
Bar. v. v.			
Tod. light			
Wind	2 E	1 E	1 E
Clouds	10 Pm a little rain	10 Pm fog	10 Pm fog

* See note April 1

Some rain in the afternoon

SUNDAY, JULY 29, 1877.

	8	2	8
Bar.	29.953	29.936	29.898
Att. therm.	69.8	73.1	75.0
Psychr., dry & wet	65.4 64.7	73.3 68.9	67.1 66.1
No. 4	+95	+78	+94
C. 3235	65.9	74.1	67.8
Max., unset & set	69.8 66.0		
Min., —	63.1 65.1		
Gauge, oz. inch.	2 1/8 0.188		
Aurora			
Zod. light			
Wind	2 E	4 E	0 E
Clouds	10 Pm fog	10 Pm M 7m	9 Pm 7m

* see note April 1

MONDAY, JULY 30, 1877.

	8	2	8
Bar.	29.893	29.900	29.945
Alt. therm.	71.7	73.0	74.3
Psychr., dry & wet	68.2 67.1	72.0 71.3	69.5 68.3
No. 4	+93 68.9	+95 72.8	+93 70.1
6.3235			
Max., sunset & wet	76.6 68.7		
Min., — " —	65.0 67.8		
Gauge, oz. & inch.	0		
Bar.			
Zod. light			
Wind	1 E NE	1 E NE	2 E NE
Clouds	10 Pm	10 Pm a little rain	10 Pm

Forenoon rainy

* See note April 1

TUESDAY, JULY 31, 1877.

	8	2	8
Bar.	30.085	30.146	30.200
Att. therm.	71.0	75.0	74.7
Psychr., dry bulb	66.7 65.0	73.3 67.6	66.4 64.8
	+90 *91	*72 *73	*90 *91
No. 4	67.3	73.8	66.9
C. 3235			
Max., sunset & set	74.3 67.0		
Min., — " —	64.0 66.2		
Gauge, oz. inch.	0 $\frac{7}{8}$ 0.077		
Barom.			
Lod. light			
Wind	5 N	5 ENE	4 E
Clouds	10 Pm	10 Pm 7m	9 Pm 7m

* See note April 1

The top of the mercury in the cistern of barometer Norman 68, hung in the northeast corner of the West Transit Room, is 2 feet 9 inches above the level of the floor of that room, and that floor is 8 inches above the floor of the entry, at the foot of the dome stairs, making the cistern 37 feet 4 inches above this floor, according to a record in books 4 and 5. H. headed 171 and 207. This makes the cistern about 79 feet above the sea. See note at end of this book.

WEDNESDAY, AUGUST 1, 1877.

	8	2	8
Bar.	30.294	30.305	30.293
Atm. therm.	70.0	72.6	72.2
Psych., dry bulb	64.9 64.4	71.4 65.8	64.7 63.4
No. 4	*96 65.4	*72 71.7	*92 65.1
C. 3235			
Max., sunset & wet	74.2 65.5		
Min., — " —	63.3 64.6		
Gauge, oz. rain.	0 $\frac{1}{8}$ 0.011		
Aurora			Cloudy
Zod. light			Cloudy
Wind	3 NE	5 E	1 E
Clouds	10 Pm mist	9 P M Fm	10 Pm Fm

* See note April 1.

THURSDAY, AUGUST 2, 1877.

	8	2	8
Bar.	30.262	30.218	30.124
Att. therm.	69.2	72.9	73.2
Psychr., dry bulb	67.2 62.0	67.5 61.6	63.9 61.9
	*72 *73	*68 *70	*87 *89
No. 4	67.3	67.9	64.5
C. 3235			
Max., wet bulb	73.2 67.3		
Min., —	61.0 66.5		
Gauge, of inch.	0		
Shower			cloudy
Tod. light			cloudy
Wind	3 NE	5 E	4 NE
Clouds	1 Pm 7m	2 Pm 7m M 7m	10 Pm 7m

* See note April 1

FRIDAY, AUGUST 3, 1877. 2

	8	2	8
Bar.	29.951	29.846	29.804
Ath. therm.	69.9	73.9	76.0
Psychr., dry wet	65.6 64.5	77.3 70.7	69.7 66.4
No. 4	+93 66.0	+70 78.2	+92 70.4
C. 3235			
Max., unmet wet	71.0 65.9		
Min., " "	62.4 65.0		
Gauge, oz. inch.	0		
Bar. gra			
Zod. light			Twilight clouds
Wind	4 NE	1 ESE	2 SE
Clouds	10 Pm fog	0 0 0 8 M Fin Fin	0 Pm M Rs

* See note April 1

SATURDAY, AUGUST 4, 1877.

	8	2	8
Bar.	29.834	29.830	29.898
Atm. therm.	70.4	75.0	75.1
Psych., dry & wet	70.4 62.5 +61 +62	78.8 62.4 +73.4 +63.5	68.3 58.9 +53 +54
No. 4	70.7	79.3	68.8
C. 3235			
Max., sunset & set	78.0 70.3		
Min., - "	61.0 69.8		
Gauge, oz. & inch.	0		
Bar. & a			
Lod. light			Twilight
Wind	7 NNW	6 NW	5 NW
Clouds	0 P. Fm	1 M Fm	0 P. Fm

* See note April 1

SUNDAY, AUGUST 3, 1877.

Bar.	29.926	29.842	29.874
Atm. therm.	66.3	74.3	74.2
Psychr., dry, wet	66.5 57.5 +53 +55	77.5 60.5 +131 +32	68.4 58.3 +50 +50
No. 4	+66.3	78.2	69.0
6.3235			
Max, sunset & set	79.6 66.5		
Min., — " —	55.2 66.0		
Gauge, oz. & inch.	0		
Aurora			Cloudy
Zod. light-			Cloudy
Wind	3 W	4 WNW	7 NW
Clouds	0 P Fm	5 M Fm P	10 Pm Fm

* See note April 1.

+ Low reading noticed & verified.

MONDAY, AUGUST 6, 1877.

	8	2	8
Bar.	29.850	29.814	29.844
Att. therm.	69.0	74.4	76.0
Psych., dry & wet	69.6 60.5 +55 +56	77.1 62.0 +38 +38	70.7 61.0 +54 +54
No. 4	70.0	77.7	71.0
C. 0235			
Max., unsat & wet	78.8 69.2		
Min., — " —	61.1 68.7		
Gauge, oz. & inch.	0		
Aurora			Cloudy
Zod. light			Cloudy
Wind	3 W	6 NW	0 calm
Clouds	5 Pm 7m → M P	9 M 7m →	5 P 7m

* See note April 1

TUESDAY, AUGUST 7, 1877.

	8	2	8
Bar.	29.828	29.790	29.730
Att. therm.	70.2	73.8	76.7
Psychr. dry & wet	71.6 65.3 *69 *69	80.7 71.7 *61 *63	73.2 69.8 *83 *84
No. 4	72.0	81.2	74.2
Co. 32 3 5			
Max., unshd & set	78.5 71.0		
Min., — " —	62.7 70.5		
Gauge, oz. & inch.	0		
Aurora			Cloudy
Lod. light			Cloudy
Wind	2 SW	7 SW	6 SW
Clouds	10 Pm	8 M 7m haze	6 P 7m

* See notes April 1

WEDNESDAY, AUGUST 8, 1877.

	8	2	8
Bar.	29.743	29.749	29.782
Att. therm.	71.4	78.3	75.0
Psych., dry & wet	73.0 67.3	86.6 72.3	68.4 66.1
No. 4.	+72	+47	+87
C. 3235	73.1	88.1	69.0
Max., sunset & set	83.2 72.8		
Min., — " —	63.7 72.1		
Gauge, of rain.	0		
Humid.			
Zod. light			
Wind	0 SW	2 ENE	1 ENE
Clouds	1 haze fm Rs	9 P M fm →	5 M fm

* See note April 1

THURSDAY, AUGUST 9, 1877.

	8	2	8
Bar.	29.826	29.822	29.768
Atm. therm.	70.3	72.2	72.0
Psych., dry & wet	65.9 65.6	68.2 66.6	65.1 65.2
No. 4	+97 66.6	+90 68.8	+99 66.0
b. 32 35			
Max., moist & wet	89.2 66.7		
Min., - - -	64.2 65.5		
Gauge, g. & inch.	0		
Aurora			behind
Zod. light			behind
Wind	2 NE	2 E	3 NE
Clouds	10 Pm mist	10 Pm	10 Pm

* See note April 1

Afternoon rainy with some thunder
and lightning; very little wind.

FRIDAY, AUGUST 10, 1877.

	8	22	8
Bar.	29.741	29.758	29.850
Atm. therm.	68.9	71.7	74.0
Psych., dry & wet	62.9 62.5	72.9 68.4	63.8 64.0
No. 4	+97	+78	+100
C. 3235	63.7	75.0	64.4
Max, unshd & set	69.5 63.0		
Min., — " —	61.0 62.2		
Gauge, oz. & inch.	7½ 0.662		
Aurora			None; some clouds
Iod. light			Twilight & clouds
Wind	2 N	1 NW	0 calm
Clouds	10 Pm	4 Pm M haze	6 Pm 7m

* See note April 1.

Thunder shower 6¾ to 7 P.M.; distant thunders previously.

SATURDAY, AUGUST 11, 1877.

	8	2	8
Bqr.	29.964	29.951	30.014
Att. therm.	69.0	75.0	76.8
Psychr., dry & wet	64.9 63.3	80.8 68.8	72.0 65.4
No. 4	*90 66.4 *91	*51 80.8 *52	*67 72.4 *68
Lo. 3235			
Max., unact & act	76.0 64.0		
Min., — " —	59.8 64.4		
Gauge, q. & inch.	6 $\frac{3}{4}$ 0.596		
Aurora			None; some clouds
Iod. light			None
Wind	0 calm	7 W S W	0 calm
Clouds	7 Pm 7m	3 M 7m	0 Pm 7m

* See note April 1.

Shower 3 $\frac{1}{4}$ to 3 $\frac{3}{4}$ P.M. with a little thunder

SUNDAY, AUGUST 12, 1877.

	8	2	8
Bar.	30.059	30.025	29.994
Ath. therm.	69.0	76.8	77.7
Psych., dry & wet	69.6 63.2 +67 +68	83.5 71.7 +53 +54	73.8 67.1 +68 +69
No. 4	69.7	84.2	74.5
C. 3235			
Max., unsect & set	80.8 69.2		
Min., - " -	60.1 69.0		
Gauge, oz. & inches	0.5 0.055		
Aurora			Cloudy
Zod. light			Cloudy
Wind	2 S W	6 S S W	6 S
Clouds	2 P. P. Fm	6 P. P. M. Fm haze	6 P. Fm

* See note April 1

MONDAY, AUGUST 13, 1877.

	8	2	8
Bar.	29.958	29.931	29.924
Att. therm.	72.3	75.4	76.0
Psychr., dry bulb	69.8 68.7	78.8 74.4	72.4 71.0
No. 4	*98 *99	*79 *80	*92 *93
C. 3235	70.4	80.3	73.3
Max., uncut wet	83.8 70.0		
Min., —	66.1 69.1		
Gauge, oz. & inch.	0 1/8 0.011		
Aurora			Cloudy
Zod. light			Cloudy
Wind	2 SSW 2 S	1 S	2 S
Clouds	10. Pm. Fm.	10 Pm. M. Fm. a little rain	10 Pm. a little rain

* See note April 1

A little rain at times

TUESDAY, AUGUST 14, 1877.

	8	2	8
Bar.	29.894	29.88.0	29.912
Att. therm.	73.0	77.4	79.0
Psychr., dry & wet	71.3 69.9 +92 +93	82.7 73.6 +62 +63	73.9 71.6 +88 +89
No. 41	71.8	83.8	74.9
b. 3235			
Max., inst. & act	79.2 71.4		
Min., — " —	68.0 70.5		
Gauge, oz. & inch.	1 $\frac{1}{8}$ 0.099		
Aurora			cloudy
Zod. light			cloudy
Wind	1 S	3 SW	3 S
Clouds	10 Pm	9 Pm M Fm →	10 Pm Fm

* See note April 1

WEDNESDAY, AUGUST 15, 1877.

	8	2	8
Bar.	29.925	29.901	29.856
Air therm.	74.5	76.0	75.8
Psych., dry & wet	74.3 72.4 +90 +91	74.9 71.1 +81 +82	69.8 69.0 +95 +96
No. 4	74.8	76.1	70.7
C. 3235			
Max., moist & wet	83.4 74.2		
Min., — " —	68.9 73.5		
Gauge, q. & inch.	0		
Aurora			cloudy
Zod. light			cloudy
Wind	1 S	0 SW	0 calm
Clouds	10 Pm	10 Pm	10 Pm fog

Occasional showers.

* See note April 1

THURSDAY, AUGUST 16, 1877.

	8	2	8
Bar.	29.822	29.800	29.828
Air therm.	73.0	77.8	78.6
Psych., dry bulb	69.9 68.8	80.8 72.3	72.4 68.8
No. 4	⁺⁹³ 71.1 ⁺⁹⁴	⁺⁶⁴ 81.3 ⁺⁶⁵	⁺⁸² 73.3 ⁺⁸²
C. 3235			
Max., unmet & set	76.2 69.0		
Min., —	66.2 68.6		
Expos., oz. & inch.	11 0.971		
Aurora			Moonlight & clouds
Zod. light			Moonlight & clouds
Wind	0 WNW	3 WSW	1 S
Clouds	10 Pm 7m	5 M 7m → Pm	1 Pm 7m Ps

* See note April 1
 † Some auroral light about
 midnight.

FRIDAY, AUGUST 17, 1877.

	8	2	8
Bar.	29.886	29.866	29.894
Att. therm.	72.2	78.9	79.0
Psych., dry & wet	71.6 68.4 *83 *84	82.7 71.4 *55 *55	72.8 68.4 *78 *79
No. 4	71.6	84.0	73.7
6.3235			68.0
Max., sunset & set	81.0 71.3		
Min., " "	65.3 70.8		
Gauge, oz. dirch.	0		
Aurora			cloudy
Zod. light			cloudy
Wind	2 SW	4 SSW	0 SSW
Clouds	0 Fm	8 M Fm R	5 Pm Fm

* See note April 1

Imperfect lunar halo about 10 P.M.

SATURDAY, AUGUST 18, 1877.

	8	2	8
Bar.	29.952	29.973	29.964
Att. therm.	72.0	77.7	74.9
Psychr., dry & wet	69.0 67.0 +88 +90	72.0 68.5 *82 *83	66.0 65.7 *97 *98
No. 4	69.9	73.7	67.1
C. 3235			
Max., unsect fast	83.4	69.1	
Min., —	64.0	68.1	
Gauge, oz. inch.	0		
Aurora			Cloudy
Zod. light			Cloudy
Wind	1 SW	1 E	0 calm
Clouds	2 P. 7m haze	+ 10 P. 7m a little rain	10 P. 7m

* See note April 1
 † Thunder-shower beginning
 at 2 P.M. lasted till
 about 2½; rest of
 afternoon somewhat
 rainy.

SUNDAY, AUGUST 19, 1877.

	8	2 $\frac{1}{2}$	8
Bar.	30.001	30.000	30.004
Att. therm.	70.0	76.7	77.7
Psychr., dry & wet	67.5 65.5 +88 +89	75.5 69.6 +72 +73	70.0 67.9 +87 +89
No. 4	67.4	76.2	70.9
6.3235			
Max., unret & act	81.2 66.6		
Min., — " —	60.0 66.7		
Gauge, oz. & inch.	3 $\frac{7}{8}$ 0.342		
Aurora			Moonlight
Zod. light			Moonlight
Wind	0 W	5 E	0 calm
Clouds	0 haze	2 M 7m	0 Pm 7m

* See note April 1

MONDAY, AUGUST 20, 1877.

	8	2	8
Bar.	30.034	30.058	30.051
Atm. Therm.	71.3	77.0	76.9
Psych., dry & wet	67.8 65.9 *89 *90	74.3 68.4 *71 *72	67.3 66.1 *92 *94
Wet	68.0	74.8	68.4
6.3235			
Max., inset & act	78.7 68.0		
Min., —	61.1 67.0		
Gauge, oz. & inch.	0		
Aurora			
Zod. light			Cloudy
Wind	0 S S E	4 E. S E	0 calm
Clouds	0 haze R	7 R R M Fm	10 Pm fog

* See note April 1

TUESDAY, AUGUST 21, 1877.

	8	2	8
Bar.	30.084	30.085	30.100
Atm. therm.	71.8	77.2	74.5
Psychr., dry bulb	68.4 65.9 *86 *87	76.9 67.1 *57 *57	67.9 65.7 *87 *88
No. 4	68.8	77.3	68.6
63235			
Max., wet bulb	77.7 68.4		
Min., —	61.8 67.6		
Gauge, oz. inch	0		
Aurora			Cloudy
Zod. light			Cloudy
Wind	0 E	4 E	0 E
Clouds	7 Pm Pz Rs Fm	6 Pm M Fm	10 Pm M Fm

* See note April 1

WEDNESDAY, AUGUST 22, 1877.

	8	2	8
Barr.	30.094	30.067	30.058
Atm. therm.	71.2	77.8	78.1
Psychr., dry & wet	69.4 66.8 *86	76.2 66.3 *56	69.8 66.3 *88
No. 4	69.6	76.5	70.7
b. 3235			
Max., sunset & set	78.8 69.4		
Min., — " —	62.6 68.5		
Gauge, oz. & inch.	0		
Aurora			
Zod. light			
Wind	0 SE	3 E	0 calm
Clouds	3 P R M Fm haze	1 M Fm haze	0 P R M Fm haze

* See note April 1

THURSDAY, AUGUST 23, 1877.

	8	2	8
Bar.	30.066	30.078	30.104
Ath. therm.	71.7	78.0	79.8
Psych., dry bulb	70.0 68.0	83.4 72.5	72.8 69.4
	+89	+56	+82
No. 4	70.1	83.8	73.5
C. 3235			
Moan, wet bulb	79.0 70.0		
Moan, " "	62.0 69.1		
Gauge, oz. & inch.	0		
Barom.			cloudy
Zod. light			cloudy
Wind	1 S	0 calm	0 SE
Clouds	0 haze Rs	3 M 7m haze	5 P haze

* See notes April 1

Large halo round moon
at 10 1/2 P.M., about 45° across.

FRIDAY, AUGUST 24, 1877.

	8	2	8
Bar.	30.122	30.105	30.099
Alt. therm.	74.0	79.7	80.6
Psychr., dry & wet	72.6 69.9 +86 +87	85.9 71.6 *46 *47	75.8 70.1 *73 *74
No. 44	73.3	87.1	76.5
6.3235			
Max., moist & sat	83.0 72.5		
Min., —	65.8 71.9		
Gauge, oz. & inch.	0		
Aurora			
Lod. light			cloudy cloudy
Wind	0 SE	4 WNW	3 SW
Clouds	9 Pm 7m	9 Pm 11 7m	10 Pm 7m

* See note April 1

Small colored halo round moon about 11½ P.M.;
about 5° across.

SATURDAY, AUGUST 25, 1877.

	8	2	8
Bar.	30.105		30.092
Atm. therm.	75.0		76.0
Psychr., dry bulb	75.1 72.1		72.3 70.9
	+8.5 +8.6		+9.2 +9.3
W. H.	76.0		73.2
C. 3235			
Max., sunset & set	86.2 75.0		
Min., ~ "	67.8 74.4		
Gauge, oz. & inch.	0		
Moon			Cloudy
Zod. light			Cloudy
Wind	1 SSW		0 S
Clouds	10 Pm Fm		10 Pm raining

* See note April 1

Day showery, following night raining.

SUNDAY, AUGUST 26, 1877.

	8	$2\frac{1}{2}$	8
Bar.	30.090	30.113	30.164
Atm. therm.	72.0	78.9	78.9
Psychr., dry & wet	70.4 69.4	79.4 73.5	70.4 69.2
No. 4	*94 *95	*73 *74	*93 *94
Co. 3235	70.9	80.1	71.0
Max., unat & set	79.2 69.8		
Min., —	67.6 69.4		
Gauge, oz. & inch.	17½ 1.544		
Aurora			cloudy
Zod. light			cloudy
Wind	0 S	1 SE	1 NE
Clouds	10 Pm fog	1 M 7m	10 Pm

* See note April 1

Shower, preceded by distant thunder, about 4½ P.M. Afterwards some lightning without thunder. Thunder & lightning in the evening.

MONDAY, AUGUST 27, 1877.

	8	2	8
Bar.	30.242	30.200	30.198
Att. therm.	73.0	76.0	78.3
Psychr., dry & wet	65.5 64.4	77.8 71.8	68.4 68.3
No. 4	⁺⁹³ 66.1 ⁺⁹⁴	⁺⁷² 78.3 ⁺⁷³	⁺⁹⁸ 69.1 ⁺⁹⁹
6.3235			
Max., unret & set	79.7 66.1		
Min., — " —	63.6 65.0		
Gauge, oz. & inch.	1 $\frac{1}{4}$ 0.110		
Baroza			cloudy
Zod. light			cloudy
Wind	0 N	1 SSW	2 S
Clouds	10 Pm fog	0 P M 7m haze	5 P 7m

* See note April 1

Shower 7 to 7 $\frac{1}{2}$ P.M. with some thunder & lightning,
 preceded by thunder-showers to the north, with ^{fresh} wind NNW to NNE
 upper clouds stationary, lower clouds from SW.

TUESDAY, AUGUST 28, 1877.

	8	2	8
Baz	30.206	30.164	30.136
Att. therm.	72.4	78.7	81.0
Psych., dry & wet	71.8 69.4 *87 *88	84.8 72.6 *52 *53	76.7 70.9 *73 *74
No. 4	71.8	85.3	77.3
Co. 3235			
Max., inset & set	79.8 70.8		
Min., —	64.2 70.8		
Gauge, oz. in ch.	1 $\frac{3}{8}$ 0.121		
Barom.			None; some clouds
Tod. light			None; some clouds
Wind	0 SW	3 W SW	5 S
Clouds	2 P fm haze	5 M fm → haze	0 P fm haze

* See note April 1

WEDNESDAY, AUGUST 29, 1877.

	8	2	8
Bar.	30.058	29.959	29.937
Mt. therm.	75.1	79.0	78.9
Psych., dry & wet	72.8 68.8 *80 *81	83.4 76.0 *69 *70	71.3 70.0 *92 *93
No. 41	73.4	84.7	72.0
C. 3235			
Moon, sunset & set	85.0 72.8		
Moon, — " —	68.0 72.1		
Gauge, oz. & inch.	0		
Aurora			
Zod. light			cloudy
Wind	3 NNW	6 SW	2 SW
Clouds	10 Pm 7m	8 Pm 7m M	10 Pm; a few stars visible

* See note April 1

Slight showers towards night. Much lightning without thunder in the evening.

THURSDAY, AUGUST 30, 1877.

	8	22	8
Bar.	29.964	29.988	29.956
Att. therm.	73.9	76.5	76.0
Psych., dry & wet	70.5 64.4 +69 +70	76.4 64.1 +47 +48	67.5 59.9 +61 +62
No. 11	70.8	76.7	68.0
Co. 3235			
Max., unmet fast	84.2 70.5		
Min., —	64.0 70.0		
Gauge, oz. & inch.	0 $\frac{5}{8}$ 0.055		
Aurora			None
Zod. light			None
Wind	4 NW	4 NW	0 NW
Clouds	0	2 1/4 fm	0

* See note April 1

FRIDAY, AUGUST 31, 1877.

	8	2	8
Bary	30.084	30.012	29.946
Att. therm.	66.8	74.6	76.9
Psychr., dry & wet	64.1 58.9	78.4 66.9	71.7 67.2
No. 4	+71	+51	+77
C. 3235	64.0	78.9	72.3
Max., inset & set	77.0 64.0		
Min., — "	54.5 63.3		
Gauge, oz. & inch.	0		
Moon			
Zod. light			Cloudy
Wind	0 calm	4 SW	6 SW
Clouds	0 Pm haze	3 M 7m haze	10 Pm

* See note April 1

SATURDAY, SEPTEMBER 1, 1877.

	8	2	8
Bar.	29.769	29.747	29.752
Atm. therm.	74.0	75.0	75.5
Psychr., dry & wet	72.7 69.5	77.0 70.8	68.0 64.8
No. 41	83		
C. 3235	73.4	78.4	68.7
Max., insect heat	79.7 73.0		
Min., — " —	63.3 72.0		
Gauge, oz. inch.	0		
Moon			
Lod. light			None; some clouds
Wind	4 SW	4 SW	1 W
Clouds	10 Pm Fan	9 Pm 11 Pm →	2 Pm haze

Much heat lightning about 8 P.M.

SUNDAY, SEPTEMBER 2, 1877.

	8	2	8
Bar.	29.782	29.750	29.750
Alt. therm.	68.5	70.0	71.8
Psychr., dry & wet	62.9 59.1	69.2 60.3	59.9 56.5
No. H	63.7	69.8	60.2
C. 3235	63.7		255.2
Max., unact & set	77.3 63.5		
Min., — " —	59.9 62.5		
Gauge, oz. & inch.	1.8 0.099		
Humidity			None
Zod. light			None
Wind	2 N	0 N E	0 calm
Clouds	10 Pm 7m	8 Pm 11 7m Rs	0 Pm Rs

MONDAY, SEPTEMBER 3, 1877.

	8	2	8
Barr.	29.684	29.725	29.820
Atto & therm.	65.0	66.7	67.1
Psychr., dry wet	61.0 57.6	64.6 54.9	57.5 50.8
No. 4	61.1	64.7	58.1
6.3235			55.0
Max., sunset feet	70.1 61.2		
Min., — " —	54.2 60.1		
Gauge, oz. inch.	0 $\frac{3}{4}$ 0.066		
Aurora			None; some clouds
Zod. light			None
Wind	3 W	5 NW	1 S
Clouds	4 Pm Pm Fm Rs	3 Pm M Fm —	0 Pm

TUESDAY, SEPTEMBER 4, 1877.

	8	2	8
Bar.	29.942	30.000	30.081
Atm. therm.	61.8	68.3	70.8
Psychr., dry & wet	59.0 53.7	70.5 60.6	63.0 59.8
No 41	59.0	71.5	64.2
6.3235			
Max., inst. & act	66.3 59.3		
Min., — " —	50.0 58.5		
Gauge, oz. & inch.	0		
Moon			None
Zod. light			None
Wind	6 SW	5 W	0 S S
Clouds	0 Pm 7m	7 Pm 11 7m →	0

Many meteors about midnight, mostly pretty bright, with trains. They came from at least two radiant one in the east the other in the west; but other work prevented any estimate of their exact places.

WEDNESDAY, SEPTEMBER 3, 1877.

	8	2	8
Bar.	30.150	30.136	30.182
Atm. therm.	66.0	73.0	72.9
Psycho., dry bulb	65.7 62.5	77.2 65.5	66.4 62.7
No. 4	* 65.5	77.8	67.1
6.3235			
Max., sunset	72.0 65.6		
Min., "	57.9 65.0		
Gauge, g. inch.	0		
Barom.			
Ind. light			Cloudy
Wind	4 SW	10 S	4 S
Clouds	0	3 P. R. M. Fm /	7 Pm haze

* No. 4 noted to be lower than the dry bulb.

Evening hazy & rather cloudy, with heat
lightning.

THURSDAY, SEPTEMBER 6, 1877.

	5	2	8
Bar.	30.260	30.300	30.316
Air therm.	68.5	68.0	67.3
Psych., dry bulb	64.8 59.4	60.9 57.8	57.9 54.8
No. 4	62.2	61.4	58.2
b. 3235			
Moist., wet & set	77.3 62.2		
Moist., - " -	58.2 61.1		
Gauge, oz. & inch	0		
Chlorine			
Zod. light			Cloudy
Wind	6 E N E	6 E	4 E
Clouds	10 Pm. Fair	10 Pm	10 Pm; stars somewhat visible

FRIDAY, SEPTEMBER 7, 1877.

	8	2	8
Bar.	30.278	30.250	30.212
Atm. therm.	63.6	63.9	63.0
Psych., dry & wet	56.5 55.1	57.9 54.5	56.2 53.9
No. 4	56.9	58.4	56.5
6.3235			
Max., unist. & wet	62.4 57.3		
Min., — " —	54.5 56.0		
Gauge, oz. & inch.	0		
Aurora			+ cloudy
Zod. light			cloudy
Wind	4 NE	4 NE	4 NE
Clouds	10 Pm Fair	10 Pm Fair	10 Pm

* A little light in or between clouds in the north about 8½ P.M., possibly auroral.

A few drops of rain at times.

SATURDAY, SEPTEMBER 8, 1877.

	8	2	8
Bar.	30.144	30.146	30.108
Att. therm.	60.7	65.2	65.0
Psychr., dry & wet	55.3 51.7 *76 *77	63.0 55.8 *59 *60	56.7 52.0 *70 *71
No. 4	55.7	63.8	57.0
C. 3235 (wet)	52.7 *78	56.6 *59	53.0 *73
Max., unmet & wet	59.8 56.0		
Min. — "	50.5 54.8		
Gauge, oz. & inch.	0		
Humidity			Cloudy
Zod. light			Cloudy
Wind	6 NNE	7 NE	4 N
Clouds	9 Pm Pm 7m Pm Pm	9 Pm M 7m	10 Pm

At 7⁵⁷/₆₀ A.M.

Unwound bulb 55.2
Covered " 55.4
No. 4 55.6
C. 3235 55.9
all bulbs dry

* See note April 1.
C. 3235 replaced

SUNDAY, SEPTEMBER 9, 1877.

	8	2	8
Bar.	30.050	30.050	30.059
Alt. therm.	60.2	65.6	66.8
Psyche, dry wet	56.7 51.6 *67 *68	67.5 57.6 *49 *51	60.0 57.5 *84 *85
No. 4	57.0	68.0	60.6
C.3235	52.3 *68	58.8 *55	58.3 *86
Max., wet wet	65.7 57.1	60.3 59.2	61.0 59.2
Min., "	52.0 56.0	8.42 3.05	" "
Gauge, oz. inch.	0	0	0
Moon			Cloudy
Lod. light			Cloudy
Wind	5 N	4 NE	0 calm
Clouds	10 Pm 7m	10 Pm 7m	2 Pm 7m

At 7¹⁴ A.M. 1¹⁵ P.M.

* See note April 1

Uncovered 56.0 67.2
 Covered 56.1 67.4
 No. 4 56.3 67.9
 C.3235 56.4 67.9

all dry

MONDAY, SEPTEMBER 10, 1877.

	8	2	8
Bar.	30.109	30.090	30.102
Atm. therm.	60.0	67.1	69.5
Psychr., dry & wet	58.8 56.2 *83 *84	72.7 62.1 *51 *52	60.9 57.6 *80 *82
Nat. H	+58.6	73.1	61.7
C. 3235 (wet)	57.0 *88	63.8 *58	60.0 *90
Max., unat. heat	69.0	59.0	
Min., — " —	51.0	58.2	
Gauge, oz. & inch.	0		
Aurora			None; some clouds
Zod. light			None; some clouds
Wind	1 NNW	4 SE	0 E
Clouds	0	6 R R R	0 Pm

* See note April 1

+ Lower than dry bulb probably because both are rising.

TUESDAY, SEPTEMBER 11, 1877.

Bar	8 30.144	2 30.138	8 30.169
Atm. & therm.	64.1	69.9	71.1
Psych., dry bulb	62.7 59.1 *79 48	76.6 64.3 *47 48	65.2 60.7 *75 76
No. 4	63.1	77.0	65.8
C. 3235 (wet)	59.8 *81	65.9 *53	62.3 *81
Max., sunset heat	72.9 62.8		
Min., — " —	55.0 62.0		
Gauge, oz. in ch.	0		
Aurora			None; some clouds
Zod. light			Moonlight & clouds
Wind	0 SW	1 SW	3 S
Clouds	6 Pz Pm 7m Pz	1 Pz Pz Pm	0 Pm

* See note April 1

WEDNESDAY, SEPTEMBER 12, 1877.

	8	2	8
Bar.	30.219	30.178	30.155
Atm. therm.	65.9	72.1	74.2
Psychr., dry & wet	65.4 62.3 +82 +83	80.3 69.7 +55 +56	70.0 66.5 +81 +82
No. 4	65.3	81.1	70.9
6.3235 (wet)	62.9 +87	71.1 +60	67.5 +83
Max., sunset & set	76.5 65.2		
Min., — " —	57.1 64.5		
Gauge, oz. & inch.	0		
Barom.			
Zod. light			
Wind	1 WSW	2 S	3 SW
Clouds	5 Pm Pz Rs Fm	9 Pm Fm M	2 Pm Pz P Fm

Moonlight & clouds
Moonlight & clouds

* See note April 1

At 11¹¹/₁₂ P.M.

Uncovered bulb 80.4
Covered " 80.6
No. 4 81.1
6.3235 80.6
Dry

Bright meteors rather frequent
in the evening

THURSDAY, SEPTEMBER 13, 1877.

	8	2	8
Bar	30.102	30.042	30.055
Atm. therm.	67.4	74.8	77.9
Psychr., dry & wet	67.5 63.2	81.5 71.4	74.3 68.9
No. 4	+77	+58	+74
C. 3235 (wet)	67.8	81.8	74.7
	63.9	72.1	70.0
	+80	+61	+79
Max., unsect & act	80.6		
Min., —	60.8		
Gauge, oz. & inch.	0		
Aurora			
Zod. light			
Wind	1 WSW	1 WSW	1 SW
Clouds	3 R Rs Fin	1 M Fin Rs	0

At 7 $\frac{1}{2}$ A.M.
 Uncovered bulb 67.0
 Covered .. 67.2
 No. 4 67.2
 C. 3235 67.2
 Dry

* See note April 1

Meteors rather frequent
 in the evening.

FRIDAY, SEPTEMBER 14, 1877.

	8	2	8
Bar.	30.113	30.106	30.108
Atm. therm.	71.5	77.0	75.5
Psychr., dry & wet	70.3 67.0 *82 *83	73.3 65.6 *63 *64	64.6 63.2 *91 *92
No. 4	70.4	74.0	65.2
C. 3235 (wet)	67.7 *86	66.8 *66	65.0 *99
Max., unret. & ret	82.0 70.0		
Min., — " —	64.2 69.3		
Gauge, oz. & inch.	0		
Rain			Moonlight
Tod. light			Moonlight
Wind	2 NW	4 E	0 calm
Clouds	2 PRs haze	3 P fm haze	0 haze

* See note April 1

At 1 $\frac{1}{2}$ P.M.
 Uncovered bulb 73.7
 Covered " 73.9
 No. 4 74.1
 C. 3235 74.7
 Dry

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SATURDAY, SEPTEMBER 15, 1877.

	8	2	8
Barp.	30.11.2	30.087	30.102
Att. therm.	69.4	78.5	75.3
Psych., dry & wet	67.3 65.8	82.8 72.1	69.6 67.6
No. 4	+90	+57	+88
b. 3235	67.4	83.5	70.5
	66.2	74.7	69.1
	+94	+66	+94
Max., inset & set	78.5 67.3	82.8 72.1	69.6 67.6
Min., — " —	60.6 66.3	59.2 54.3	60.6 54.3
Gaug., oz. & inch.	0	0	0
Baro.			
Ind. light			
Wind	0 calm	6 S	4 S
Clouds	1 B. in haze	0 M Fm	0

* See note April 1

At 1 $\frac{3}{4}$ P.M.
 Uncovered bulb 83.4
 Covered " 83.5
 No. 4 83.9
 b. 3235 83.7
 Dry

SUNDAY, SEPTEMBER 16, 1877.

	8	2	8
Bar.	30.120	30.066	30.064
Att. therm.	72.2	76.8	76.9
Psychr., dry & wet	72.4 69.9 +87 +88	81.3 73.4 +66 +67	72.4 70.8 +91 +92
No. 4	73.0	82.3	73.2
C. 0235 (wet)	70.5 +84	74.0 +67	71.9 +95
Max., unmet & set	83.2 72.3		
Min., — " —	66.2 71.8		
Gauge, oz. & inch	0		
Bar. & light			Moondlight & clouds
Wind	5 SSW	7 SSW	5 SSW
Clouds	10 Pm	7 Pm M 7m Pm	6 P 7m

* See note April 1

MONDAY, SEPTEMBER 17, 1877.

	8	2	8
Bay.	30.016	29.919	29.886
Atm. therm.	72.9	77.0	77.0
Barom., dry & wet	71.5 69.5 +89 +90	79.8 74.0 +74 +75	72.2 70.7 +91 +92
No. 4	72.0	80.4	72.9
C. 3235 (wet)	70.0 +91	74.5 +76	71.4 +94
Max. insect & set	82.0 71.4		
Min., —	66.8 70.8		
Gauge, oz. inch.	0		
Aurora			Cloudy
Zod. light			Cloudy
Wind	3 SW	6 S	6 S
Clouds	10 Pm	8 Pm M Fm ✓	8 P M Fm

+ See note April 1

Occasional showers. Some rain following night.

TUESDAY, SEPTEMBER 18, 1877.

	8	2	8
Bar.	29.868	29.885	29.993
Ath. therm.	70.1	70.3	66.9
Psych., dry & wet	58.9 54.6 *73 *74	66.7 55.4 *43 *44	56.8 50.9 *63 *64
No. 4	59.3	67.0	57.3
C. 3235 (wet)	55.2 *73	56.1 *45	52.3 *67
Max., unat & set	82.9 59.0		
Min., — " —	54.7 58.2		
Gauge, oz. & inch.	3½ 0.309		
Aurora			Moonlight
Zod. light			Moonlight
Wind	6 NW	7 NNW	1 NW
Clouds	10 Pm Fm	0 P Fm	0 Fm

* See note April 1

WEDNESDAY, SEPTEMBER 19, 1877.

	8	2	8
Bar.	30.083	30.056	30.069
Att. therm.	60.3	62.8	62.4
Psychr., dry duct	54.7 49.4 +65 +66	62.8 53.0 +47 +48	56.0 51.8 +73 +74
No. 24	55.0	63.6	56.1
b. 3235 (wet)	50.1 +66	54.6 +50	53.0 +78
Max., unmet fast	66.8 56.1		
Min., — " —	46.8 53.9		
Gauge, oz. inch.	0		
Aurora			+ Moonlight
Zod. light			Moonlight
Wind	4 NW	1 WNW	0 WNW
clouds	7 PzRs	9 P	1 P 7m

* See note April 1

* Aurora at 2 A.M. Sept. 19 seen
by L. Waldo

THURSDAY, SEPTEMBER 20, 1877.

	8	2	8
Bar.	30.076	30.040	30.017
Att. therm.	59.3	67.0	66.6
Psych., dry wet	55.0 52.3 *81 *82	69.9 57.6 *42 *43	59.0 55.2 *76 *77
No. 4	55.1	70.2	59.5
C. 3235 (wet)	53.2 *85	59.5 *49	57.0 *82
Max., unat. wet	64.1 55.5		
Min., " "	45.8 54.1		
Gauge, oz. inch.	0		
Barom.			
Iod. light			cloudy cloudy
Wind	1 SW	4 S	3 S
Clouds	7 P. Pm. P. Fm.	3 P. P. P. M. Fm.	10 P. some stars visible

* See note April 1

At 1 $\frac{5}{6}$ P. M.

Uncovered bulb 69.7
Covered " 69.8
No. 4 70.0
C. 3235 70.0

Dry

Imperfect lunar halo
at 8 P. M. about 45° across.

FRIDAY, SEPTEMBER 21, 1877.

	8	2	8
Bar.	29.880	29.814	29.932
Att. therm.	61.4	65.2	61.5
Psychr., dry wet	53.6 52.6	63.4 55.3	51.7 46.5
No. 4	*92	*51	*63
	53.7	64.0	52.5
C. 32 35 (wet)	53.2	56.0	47.7
	*94	*56	*65
Max., insect fast	70.0	54.3	
Min., -	47.1	53.0	
Gauge, oz. inch.	0		
Aurora			
Zod. light			
Wind	0 calm	9 NW	12 NW
Clouds	1 Pm 7m	10 Pm 7m	2 Pm 7m

* See note April 1

A few drops of rain about 1 P.M. A little thunder about 1½ P.M.

SATURDAY, SEPTEMBER 22, 1877.

	8	2	8
Bar.	30.086	30.129	30.207
Ath. therm.	53.2	59.8	59.2
Psychr., dry & wet	49.5 42.6 *50 *52	61.3 47.9 *28 *29	50.8 45.0 *59 *60
No. 4	49.7	61.5	51.5
C. 3235 (wet)	43.6 *54	48.9 *31	47.0 *66
Max., unret. & act	67.7 50.5		
Min., " " "	43.6 49.0		
Gauge, oz. & inch.	0		
Aurora			Moonlight
Zod. light			Moonlight
Wind	8 NW	9 NNW	1 WNW
Clouds	0	0	0

* See note April 1

At 7 $\frac{5}{8}$ A.M.
 Uncovered bulb 48.8
 Covered " 49.1
 No. 4 49.1
 C. 3235 49.8
 Dry

SUNDAY, SEPTEMBER 23, 1877.

	8	2 3 $\frac{1}{4}$	8
Bar.	30.254	30.162	30.176
Atm. therm.	54.9	64.7	66.9
Psychr., dry & wet	50.4 45.4 *63 *65	73.2 58.5 *35 *36	62.9 57.0 *67 *67
No. 4	49.9	73.6	63.4
C. 3235 (wet)	46.9 *75	59.8 *40	58.2 *71
Max., sunset & act	61.4 50.5		
Min., — "	41.3 49.7		
Gauge, oz. & inch.	0		
Aurora			Moontlight & clouds
Lod. light			Moontlight & clouds
Wind	3 SW	4 SW	2 SW
Clouds	0	0 P	0 P Fan

* See note April 1

At 7 $\frac{5}{6}$ A.M.

Uncovered bulb 49.6

Covered " 49.6

No. 4 49.0

C. 3235 49.9

Dry

MONDAY, SEPTEMBER 24, 1877.

	8	2	8
Bar.	30.200	30.158	30.186
Alt. therm.	59.8	68.0	70.4
Psych., dry wet	57.4 52.9 *71 *72	77.9 61.7 *34 *35	65.0 59.1 *68 *68
No. 4	57.1	77.9	65.6
C. 3235 (wet)	54.0 *78	63.2 *40	60.9 *75
Max., unset wet	73.0 57.7		
Min., —	49.6 56.8		
Gauge, oz. inch.	0		
Barometer			
Lod. light			Moonlight
Wind	1 SW	1 SW	0 S
Clouds	0 P haze	0	0

* See note April 1

	At 7 $\frac{5}{6}$ A.M.	At 1 $\frac{5}{6}$ P.M.
Unwired bulb	56.0	77.4
Covered "	56.0	77.5
No. 4	56.0	77.7
C. 3235	56.4	77.6
Dry		

TUESDAY, SEPTEMBER 25, 1877.

	8	2	8
Bar.	30.188	30.155	30.151
Air therm.	63.0	72.4	73.1
Psych., dry wet	59.9 57.5 *84 *85	79.4 65.3 *43 *43	67.3 62.7 *75 *76
No. 4	59.7	79.7	67.9
6.3235 (wet)	58.3 +91	66.9 +54	64.0 +80
Max., sunset	78.0	60.0	
Min., —	54.4	59.0	
Gauge, oz. inch.	0		
Moon			Moonlight
Star light			Moonlight
Wind	1 SW	4 S	3 S
Clouds	0 Rs haze	0 Rs haze	0 haze

At 1 $\frac{5}{6}$ P.M.

*See note April 1

Uncovered bulb 79.2
Covered " 79.4
No. 4 79.6
6.3235 79.7
Dry

WEDNESDAY, SEPTEMBER 26, 1877.

Bar.	30.149	30.098	30.086
Atm. therm.	66.2	74.4	73.0
Psychr., dry & wet	65.2 62.0 *81 *83	79.4 67.3 *50 *50	68.3 62.5 *70 *70
No. 4	65.0	80.1	68.8
G. 3235 (wet)	62.9 *88	68.6 *53	63.5 *73
Max., moist & wet	79.2 65.2		
Min., — " —	59.0 64.3		
Gauge, oz. & inch.	0		
Aurora			
Lod. light			Moonlight
Wind	4 SW	4 SW	5 S
Clouds	2 P Rs fm haze	9 P Rs	0

* See note April 1

THURSDAY, SEPTEMBER 27, 1877.

	8	2	8
Bar.	30.218	30.248	30.271
Att. therm.	67.5	70.9	64.4
Psych., dry & wet	62.8 56.3 *63 *64	63.6 56.4 *59 *60	56.6 53.4 *78 *80
No. 4	63.2	64.1	57.3
C. 3235 (wet)	57.2 *65	57.7 *63	56.0 *89
Max. unsat. wet	79.8 63.0		
Min. — "	60.2 62.2		
Gage, z. h. inch.	0		
Moon			Thick haze
Zod. light			Thick haze
Wind	4 NNW	6 E	0 calm
Clouds	10 Pm 7m	1 P Rs haze	2 P haze

* See note April 1

FRIDAY, SEPTEMBER 28, 1877. 2

Bar.	30.281	30.196	30.133
Alt. therm.	63.2	65.3	66.0
Psych., dry & wet	60.7 57.6 *81 *82	63.9 61.3 *84 *85	63.6 62.9 *95 *96
No. 4	60.9	64.6	64.3
B. 3235 (wet)	58.7 *87	62.1 *86	63.7 *97
Max. wet & dry	68.3 61.2		
Min. — " —	55.2 60.4		
Gauge, oz. & inch.	0		
Aurora			cloudy
Lod. light			cloudy
Wind	3 E	1 E	3 SE
Clouds	10 Pm	10 Pm	10 Pm

* See note April 1

A little rain in the afternoon

SATURDAY, SEPTEMBER 29, 1877.

	8	2	8
Bar.	30.198	30.175	30.156
Alt. therm.	65.0	68.8	64.6
Psychr., dry & wet	59.4 54.7 *71 *72	63.2 50.0 *31 *32	52.4 50.4 *85 *86
No. 4	59.8	63.4	53.0
6.3235 (wet)	55.8 *76	51.4 *36	52.0 *91
Max., insect heat	65.3 59.8		
Min., — " —	59.0 59.0		
Gauge, oz. inch.	0 $\frac{3}{8}$ 0.033		
Aurora			None; some clouds
Zod. light			None; some clouds
Wind	3 NE	4 E	0 calm
Clouds	10 Pm Fm Rs	1 P Rs Fm	0 P haze

* See note April 1

SUNDAY, SEPTEMBER 30, 1877.

	8	2	8
Bar.	30.233	30.204	30.224
Att. therm.	59.0	64.8	65.0
Psych., dry & wet	48.4 47.4 *91 *93	66.4 54.2 *39 *40	57.3 52.4 *68 *70
No. 4	48.4	66.9	57.9
6.3235 (wet)	48.0 *94	55.8 *43	54.0 *74
Max., unass. bar.	64.2 49.5		
Min., —	41.8 47.8		
Gauge, oz. inch.	0		
Moon			None
Zod. light			Vertex near Jupiter between branches of Milky Way
Wind	0 NE	2 ESE	4 SW
Clouds	0 haze	0 haze	0

* See notes April 1

MONDAY, OCTOBER 1, 1877.

	8	2	8
Bar.	30.203	30.141	30.134
Att. therm.	59.0	68.0	68.7
Psych., dry & wet	57.6 54.4 +79 +80	74.8 63.0 +48 +48	62.4 59.5 +82 +83
No. 4	57.3	75.1	63.2
6.3235 (wet)	55.0 +82	64.1 +52	60.5 +85
Max., moist & wet	67.0 57.7		
Min., —	47.8 56.8		
Gauge, oz. Rain.	0		
Barogr.			
Lod. light			None about as yesterday
Wind	6 SW	6 SSW	5 SSW
Clouds	0	0	0

Q

* See note April 1

At 1 $\frac{5}{6}$ P.M.

Uncovered bulb	74.7
Covered "	74.8
No. 4	74.9
6.3235	75.0
Dry	

+ Yellowish light ~~at~~ not sparkling, in S.W. 18 obliquely upwards & eastwards between branches of Milky Way, rising to altitude of head of Sagittarius on reaching the eastern branch.

TUESDAY, OCTOBER 2, 1877.

	8	2	8
Bar.	30.120	30.080	30.151
Atm. therm.	62.4	69.8	69.3
Psych., dry & wet	59.6 57.4 +85 +86	76.9 67.4 +58 +59	57.0 56.3 +94 +95
No. 4	59.5	77.3	57.9
C. 3235 (wet)	58.1 +91	68.9 +63	57.2 +94
Max., unmet & set	74.8 59.9		
Min., —	54.0 58.9		
Gauge, oz. & inch.	0		
Aurora			Cloudy
Lod. light			Cloudy
Wind	3 SW	4 SE	1 N
Clouds	0	0 haze	10 Pm mist

* See note April 1

WEDNESDAY, OCTOBER 3, 1877.

	8	2	8
Bar.	30.135	30.102	30.113
Att. therm.	64.0	65.3	65.9
Psych., dry & wet	57.7 56.1 +89 *90	63.4 59.4 *77 *78	57.7 56.0 *94 *95
No. 4	58.1	63.8	58.0
b. 3235	57.3 *93	60.5 *82	57.0 *91
Max., unsat & set	76.7 58.5		
Min., -"	55.0 57.2		
Gauge, oz. rain	0		
Aurora			
Iod. light			
Wind	0 NW	2 E	7 E
Clouds	10 Pm fog	10 Pm fog	10 Pm

* See note April 1

THURSDAY, OCTOBER 4, 1877.

	8	2	8
Bar.	29.923	29.723	29.609
Atm. therm.	63.0	65.8	67.5
Psychr., dry & wet	57.8 57.2 *95 *96	73.0 67.9 *75 *76	66.6 64.6 *88 *89
No. 4	58.2	73.5	67.2
C. 3235 (wet)	57.9 *95	68.5 *76	65.5 *90
Max., unset bar	62.3 58.6		
Min., — " —	35.7 57.4		
Gauge, oz. & inch.	0 $\frac{3}{4}$ 0.066		
Aurora			Cloudy
Lod. light			Cloudy
Wind	3 E	6 S	4 SE
Clouds	10 Pm mist	10 Pm M Fm	10 Pm

* See note April 1

A few drops of rain during the day. Heavy rain most of the following night.

FRIDAY, OCTOBER 5, 1877.

	8	2	8
Bar.	29.487	29.613	29.876
Atm. therm.	61.1	62.1	59.6
Psych., dry & wet	52.2 51.3	56.8 47.0	47.5 41.1
No. 4	*93 *94	*41 *42	*51 *53
6.3235 (wet)	52.0	57.1	48.1
	52.0	47.9	42.2
	*97	*43	*54
Max., unsh. & wet	72.6 52.7		
Min., - " -	51.3 51.7		
Gauge, oz. & inch.	38½ 3.398		
Barometer			
Lod. light			None
Wind	11 N	15 N	Suspected between
Clouds	10 Pm 7m 1	0 P R	branches of 8 east
			of Wilkes Way
			8 N
			0

* See note April 1

At 1½ P.M.

Uncovered bulb	56.7
Covered "	56.8
No. 4	56.9
6.3235	57.1
Dry	

SATURDAY, OCTOBER 6, 1877.

	8	2	8
Bar.	30.112	30.146	30.298
Att. therm.	54.0	58.3	55.5
Psyche, dry & wet	43.9 39.5 *62 *64	56.6 44.9 *31 *32	45.5 40.7 *61 *63
No. 4	43.8	56.9	46.0
b. 3235 (wet)	41.0 *74	46.1 *35	42.1 *67
Max. sunset heat	57.6 45.4		
Min. " "	37.0 43.3		
Gage, oz. inch.	0		
Moon			
Zod. light			None suspected as yesterday; rather perhaps over head of Sagittarius.
Wind	1 W	7 NW	0 NW
Clouds	0	0 M 7m	0

* See note April 1

SUNDAY, OCTOBER 7, 1877.

	8	2	8
Bar.	30.458	30.450	30.473
Atm. therm.	52.8	59.7	55.9
Psych., dry bulb	41.1 38.4	57.8 48.8	45.5 41.7
No. 4	*74	*46	*69
6.3235 (wet)	40.9	58.3	46.4
	39.6	50.9	44.3
	*185	*54	*81
Max., unsat. bulb	56.8 42.2		
Min., —	33.9 40.5		
Gauge, oz. inch.	0		
Aurora			None
Zod. light			Suspected as yesterday
Wind	0 calm	2 SE	0 SW
Clouds	0	2 M fm	0 P

* See note April 1

White frost this morning

MONDAY, OCTOBER 8, 1877.

	8	2	8
Bar.	30.4187	30.436	30.385
Atm. therm.	52.3	58.0	58.8
Psych., dry wet	40.4 40.2	53.3 46.4	51.6 47.9
	*96 *98	*54 *55	*73 *74
No. 4	40.4	53.7	52.1
b. 3235 (wet)	40.9	47.6	49.1
	*100	*58	*77
Max., unmet bet	58.2 42.0		
Min., " "	34.0 39.9		
Gauge, 3.5 inch.	0		
Aurora			Cloudy
Zod. light			Cloudy
Wind	0 NW	6 E	5 E
Clouds	5 P M 7 m haze	10 P m M 7 m	10 P; a few stars visible.

* See note April 1

TUESDAY, OCTOBER 9, 1877.

	8	2	8
Bar.	30.274	30.150	30.050
Att. therm.	59.3	59.2	60.8
Psych., dry & wet	52.6 51.9 *94 *95	53.8 53.8 *99 *100	57.3 57.5 *100 *100
No. 4	53.2	55.0	57.9
Co. 3235 (wet)	52.8 *94		
Max., insect heat	57.0 52.8		
Min., " "	39.8 52.4		
Gauge, oz. hinch.	0.5/8 0.055		
Aurora			cloudy
Zod. light			cloudy
Wind	4 S E	4 E S E	1 E
Clouds	10 Pm to raining	10 Pm raining	10 Pm, mist

* See note April 1

At 5 P.M. rain gauge examined
& emptied. 8 ounces; 0.706 inches.

WEDNESDAY, OCTOBER 10, 1877.

	8	2	8
Bar.	30.108	30.056	30.051
Alt. therm.	59.9	64.0	64.9
Psych., dry & wet	52.9 52.1	63.9 55.5	53.6 52.5
No. 4	*93 53.1	*54 64.1	*91 54.8
C. 3235			
Max., unset & set	57.9 53.2		
Min., — " —	51.1 52.2		
Gauge, oz. & inch, [†] 1	0.088		
Bar. & clouds			Bar. & clouds
Wind	2 NW	3 NW	0 calm
Clouds	4 Pm R R R	4 M Fm	1 P R R large

* See note April 1

† Collected yesterday 5 P.M. 0.706 inches
 Bottom 8 A.M. 0.088 "
 Total 0.794 "

THURSDAY, OCTOBER 11, 1877.

	8	2	8
Bap.	30.002	29.876	29.876
Alt. therm.	57.8	59.0	58.8
Psych., dry & wet	48.0 47.5	57.2 55.6	51.3 51.2
	*95 *96	*95 *96	*98 *99
No. 4	48.7	57.6	52.2
6.3235			
Max., insect bar	65.0 49.2		
Min., " "	43.2 47.3	47.2 57.0	
Gauge, oz. inch.	0		
Aurora			
Zod. light			
Wind	0 calm	1	1
Clouds	10 Pm fm fog	10	10 Cloudy Rainy

* See note April 1

Observations by W. Upton from 2 P.M. Oct. 11 to 2 P.M. Oct. 24 both inclusive. During this time, the readings of the maximum after setting are readings of the upper end of the continuous column of mercury, increased by 10.5 to allow for the length of the detached portion and of the air bubble by which it is separated from the continuous column; the force of the wind is entered on a scale of 10 instead of in miles per hour.

FRIDAY, OCTOBER 12, 1877.

	8	2	8.45
Bar.	29.810	29.788	29.87
Atm. therm.	56.2	58.4	58.0
Psycho., dry bulb	47.5 46.5	57.9 51.0	57.5 9 PM 47.3
	*91 *92	*58 *59	*69 *71
No. 4	48.3	57.9	52.0
6. 3 2 3 5			55.0
Max., sunset heat	57.2	50.0	5. PM 0.72
Min., — " —	46.8	47.5	0.10 8.50
Gauge, oz. 1 inch.	8.7	0.768	4.00 8.00
Aurora			4.00 8.00
Zod. light			4.00 8.00
Wind	1 W	2 W	2 W
Clouds	10 Raining	6 Clearing	2 Clearing

*See notes April 1

Rain gauge emptied 9 A.M.

SATURDAY, OCTOBER 13, 1877.

	8	2	8
Bar.	30.062	30.100	30.209
Att. therm.	54.4	58.9	57.0
Psych., dry & wet	46.0 43.0 *75 *77	57.5 49.5 *51 *52	49.0 47.8 *83 *84
No. 4	46.6	57.8	49.5
6.3235			
Max., unset & set	58.0 45.5		
Min., — " —	42.8 46.0		
Gauge, oz. & inch.			
Aurora			
Zod. light			
Wind	1 NW	2 N by W	0
Clouds	0	0	2 Rs in East

Atmosphere
unusually clear.

* See note April 1

SUNDAY, OCTOBER 14, 1877.

	8	3	8
Bar.	30.256	30.200	30.234
Atm. therm.	51.5	55.5	56.4
Psych., dry & wet	41.5 41.0	54.5 50.5	51.3 50.4
No. 4	+94 +96	+73 +74	+93 +94
b. 3235	42.0	55.5	52.3
Max., inst. & act	58.5* 41.5		
Min., — " —	37.0 41.3		
Gauge, oz. & inch.			
Aurora			
Zod. light			
Wind	1 W	0 NW	1
Clouds	0. Rm. lower W	10	2 Clear

+ See note April 1

* Forgot yesterday to
adjust after reading
hence instrument
shows no change

MONDAY, OCTOBER 15, 1877.

	8	2	8 9
Bar.	30.258	30.208	30.152
Atm. therm.	55.0	60.2	60.5
Psych., dry & wet	50.7 49.8 *93 *94	60.5 55.3 *68 *69	56.2 54.6 *88 *90
N. 4	50.6	61.0	56.8
C. 3235			2550.2
Max., unact. & set	57.5 51.5	57.5 51.5	57.5 51.5
Min., — " —	41.5 50.5	41.5 50.5	41.5 50.5
Gauge, oz. & inch.			
Aurora			
Zod. light			
Wind	0 W	1 ESE	2 E(?)
Clouds	0 Haze at horizon	1 Rs at horizon	10 Sprinkling

* See note April 1

TUESDAY, OCTOBER 16, 1877.

Bar.	29.964	29.786	30.044
Atm. therm.	60.8	63.8	60.5
Psych., dry & wet	57.8 58.2 *100 *100	70.0 60.0 *52 *53	45.5 43.5 *82 *84
No. 4	58.5	70.3	46.5
6.3235			
Max., unset & set	62.0 57.7		
Min., — —	50.5 57.8		
Gauge, oz. & inch.	$\frac{1}{2}$.044		
Aurora			
Zod. light			
Wind	0 SW	4 NW	5 NE
Clouds	10 Fable Pm	5 Pm in N Black clouds	10

2.30 Slight shower

*See note April 1

WEDNESDAY, OCTOBER 17, 1877.

	8	2	8
Bar.	30.146	30.055	30.100
Atm. therm.	50.8	56.2	50.1
Psych., dry wet	42.5 39.5 *73 *75	58.5 45.7 *27 *28	58.5 45.7 *27 *28
No. 4	42.5	58.8	58.8
b.3235			
Max., unset fast	70.0 42.5	58.5 45.7	58.5 45.7
Min., "	37.8 42.5	58.5 45.7	58.5 45.7
Gauge, oz. inch.	$\frac{6}{8}$.066		
Aurora			
Zod. light			
Wind	2 NW	3 NW	2 NW
Clouds	3 Res all about	0	2

* See note April 1

THURSDAY, OCTOBER 18, 1877.

	8		2		8
Bar.	30.054		30.014		30.026
Att. therm.	50.2		58.0		58.2
Psych., dry & wet	42.5 38.8 *68 *69		60.0 47.5 *31 *32		49.5 45.0 *65 *67
No. 4	42.0		60.0		50.2
6.3235					50.2
Max., unsat & wet	53.5 43.0				
Min., " "	36.5 42.0				
Gauge, oz. & inch.					
Moon					
Zod. light					
Wind	0 W		2 N.W		0 E (?)
Clouds	0 Rs about horizon		0 Rm in N horizon		1 Rs scattering

*See note April 1

FRIDAY, OCTOBER 19, 1877.

	8	2	8
Bar.	30.02	29.938	29.986
Atm. therm.	55.5	58.7	61.0
Psycho., dry & wet	51.5 49.2 *83 *84	67.8 63.2 *75 *76	54.5 53.0 *88 *90
No. 4	51.5	68.5	55.5
6.3235			
Max., sunset & set	62.2 51.0		
Min., — " —	43.8 50.0		
Gauge, oz. & inch.			
Aurora			
Zod. light			
Wind	0 W	3 SW	2 NE
Clouds	10	10	10

* See note April 1

SATURDAY, OCTOBER 20, 1877.

	8	2	8
Bar.	30.025	56.2 30.050	30.068
Atm. therm.	57.5	56.2	55.2
Psychr., dry bulb	45.5 45.5 + 98 + 100	44.3 44.3 + 98 + 100	42.5 43.2 + 100 + 100
No. 4	46.2	44.8	42.8
6.3235			
Max, unset bar	62.2* 45.5	5.5 45.5	45.5 45.5
Min, " —	44.0 45.2	2.5 8.0	45.5 45.5
Gauge, oz. in ch.			
Aurora			
Zod. light			
Wind	2 NE	2 NE	1 NE
Clouds	10 Raining	10 Raining	10 Raining

* Not adjusted yesterday

+ See note April

SUNDAY, OCTOBER 21, 1877.

	8	2	8
Bar.	29.980	29.878	29.810
Att. therm.	54.5	55.5	55.5
Psych., dry wet	42.5 41.5 *90 *91	46.5 42.5 *67 *69	42.5 41.5 *90 *91
No. 4	43.0	47.5	43.5
C. 3235			
Max., unact. wet	48.2	42.2	
Min., —	40.8	42.5	
Gauge, oz. inch.			
Aurora			
Zod. light			
Wind	2 NE	3 NE	2 NE
Clouds	10 Raining	10	10 Raining

* See note April 1

MONDAY, OCTOBER 22, 1877.

	8	2	8 9
Bar.	29.548	29.532	29.772
Ath. therm.	50.5	47.5	45.5
Psych., dry & wet	36.5 36.5	35.5 36.0	36.5 36.2
	*98 *100	*100 *100	*95 *97
No. 4	37.5	36.5	37.8
6.3235			
Max., unsat & wet	46.5 37.0		
Min., — " —	35.5 36.5		
Gauge, oz. & in ch.			
Aurora			
Lod. light			
Wind	5 NE	4 NNE	1 W
Clouds	10 Raining	10 Raining	5

* See note April 1

Clearing during the evening.
 Becomes wholly clear about 10 o'clock.

TUESDAY, OCTOBER 23, 1877.

	8	2	\$10.20
Bar.	29.916	29.877	29.930
Atm. therm.	45.2	53.5	53.5
Psychr., dry & wet	37.5 35.2 †76 †78	56.8 48.0 †46 †47	49.2 47.5 †86 †87
No. 4	58.0	57.3	49.5
6.3235			78.50.2
Max., unset & set	46.0 37.0		
Min., — " —	32.5 37.8		
Gauge, oz. & inch.	17.0 1.500 ⁺		
Aurora			
Lod. light			
Wind	2 SW	3 WSW	2 SW
Clouds	1 in horizon	0	0

* = Rain fall during
Sat. Sun. and Mon.

† See note April 1

WEDNESDAY, OCTOBER 24, 1877.

	8	2	8
Bar.	29.978	29.923	29.919
Air, therm.	52.5	60.0	60.5
Psych., dry & wet	52.2 48.2 *71 *73	66.5 55.5 *45 *45	58.8 57.5 *91 *92
No. 4	52.5	67.0	59.0
Co. 3235			
Max, unact feet	58.5 52.0		
Min., —	37.5 51.8		
Gauge, g. 1/2 inch.			
Aurora			Cloudy
Zod. light			Cloudy
Wind	3 WSW	3 WSW	3 S
Clouds	0 Haze in East	2 Very hazy	10P; a few stars visible

* See note April 1

THURSDAY, OCTOBER 25, 1877.

	8	2	8
Bar.	29.935	29.874	29.944
Att. therm.	58.1	57.7	55.0
Psychr., dry & wet	48.9 47.8 *90 *92	49.9 47.9 *84 *86	36.0 36.4 *100 *100
No. 4	49.5	50.6	37.2
C. 3235 (wet)	48.9 *93	49.0 *86	37.4 *97
Max. unsat & wet	66.7 50.3		
Min., —	48.1 48.5		
Gauge, oz. & in.	0		
Barbra			Cloudy
Zod. light			Cloudy
Wind	3 NE	0 E	6 N
Clouds	10 Pm	10 Pm	10 Pm, raining

* See note April 1

A few drops of rain at times, more towards night.

FRIDAY, OCTOBER 26, 1877.

	8	2	8
Bar.	30.081	30.066	30.037
Alt. therm.	50.1	50.3	50.7
Psychr., dry & wet	34.7 32.7 *78 *80	39.8 35.3 *58 *60	37.5 34.1 *66 *68
No. 4	35.3	40.4	38.1
C. 3235 (wet)	33.9 *80	36.4 *60	35.4 *70
Max., unset & set	51.3 36.0	54.6 30.3	51.3 30.3
Min., — " —	33.8 34.7	30.6 34.0	30.6 34.0
Gauge, oz. & inch.	0.7 0.077	0 0	0 0
Moon			Cloudy
Lod. light			Cloudy
Wind	4 NNE	4 NE	3 NNE
Clouds	10 Pm Fm R	10 Pm Fm	10 P

* See note April 1

SATURDAY, OCTOBER 27, 1877.

	8	2	8
Bar.	29.968	29.961	29.981
Att. therm.	46.7	52.1	45.4
Psych., dry & wet	32.9 30.0	43.7 36.9	35.2 33.7
	+69 +71	+44 +46	+83 +85
No. 4	33.3	44.2	36.1
b. 3235 (wet)	30.9	38.6	35.8
	+71	+52	+92
Max., unset & set	40.8 34.8		
Min., — " —	30.4 33.0		
Gauge, oz. & inch.	0		
Baroza			
Zod. light			None
			between N. & S. W. & W. & Capricornus.
Wind	3 N	0 N	0 calm
Clouds	1 Pm 7m R R	0	0

* See note April 1

SUNDAY, OCTOBER 28, 1877.

	8	2	8
Bar.	30.120	30.134	30.176
Ath. therm.	43.4	51.6	47.5
Psydr., dry & wet	38.1 [†] 29.6 +82 +84	48.8 41.4 +46 +47	40.0 [†] 38.0 +80 +82
No. 4	31.3	49.0	40.9
C. 3235 (wet)	[†] 30.5 +86	43.2 +56	[†] 40.2 +90
Max., unset & set	24.3 32.6	5.52 5.62	leaf thermometer
Min., — " —	28.6 31.0	8.52 0.18	— " —
Gauge, oz. & inch.	0	0	leaf thermometer
Baron			As yesterday
Tod. light			
Wind	0 calm	0 calm	0 S.E.
Clouds	1 fm. Rs.	0 Rs.	0

* See note April 1

[†] Wetted at 7¹/₃ A.M. Neither frozen.

[‡] Wetted at 7¹/₄ P.M.; both thoroughly wet when read.

Heavy white frost this morning.

MONDAY, OCTOBER 29, 1877.

	8	2	8
Bar.	30.078	29.871	29.895
Atm. therm.	49.0	54.4	58.0
Psych., dry & wet	53.4 52.7 +94 +95	64.7 58.8 +68 +68	59.7 56.8 +81 +82
No. 4	53.5	65.2	59.8
6.3235 (wet)	53.1 +94	59.4 +69	57.9 +86
Max., unmet & set	53.2 53.2		
Min., — —	31.0 52.8		
Gauge, oz. & inch.	0		
Aurora			
Zod. light			
Wind	5 SSW	12 SW	8 SW
Clouds	10 Pm Fm ✓	10 Pm Pm M Fm ✓	5 P haze

* See note April 1

TUESDAY, OCTOBER 30, 1877.

Bar.	29.996	29.932	30.003
Att. therm.	53.5	57.0	53.4
Psych., dry & wet	47.7 43.4 *66 *67	57.3 46.9 *38 *39	45.3 40.5 *61 *62
No. 4	48.0	57.4	46.2
6.3235 (wet)	44.5	48.0	43.3
	*71	*43	*74
Max., sunset & set	65.0 48.6		
Min., — " —	46.2 47.1		
Gauge, oz. & inch.	0		
Aurora			None; some haze
Zod. light			Haze and clouds
Wind	3 WNW	7 W	0 E
Clouds	10 Pm 7m Rs	6 Pm Pm M. 7m →	0 Pm haze

* See note April 1

WEDNESDAY, OCTOBER 31, 1877.

	8	2	8
Bar.	29.982	29.806	29.764
Att. therm.	47.8	51.9	51.9
Psych., dry & wet	36.3 35.4 *89 *91	54.7 48.3 *58 *59	43.0 43.4 *100 *100
No. 4	36.9	55.5	43.7
6.3235 (wet)	36.2 *89	50.0 *61	44.3 *100
Max., unset & set	57.0 37.9		
Min., — "	31.8 36.1		
Gauge, oz. & inch.	0		
Aurora			Cloudy
Zod. light			Cloudy
Wind	1 N	3 S	0 N
Clouds	9 P Rs - fm	10 Pm fm M	10 Pm, raining

* See note April 1

White frost this morning,
Rain beginning about 3 P.M.

THURSDAY, NOVEMBER 1, 1877.

	8	2	8
Bar.	29.930	29.989	30.072
Att. therm.	48.3	54.0	50.0
Psychr., dry & wet	37.3 36.7 *92 *94	50.6 43.4 *49 *50	44.7 41.0 *69 *71
No. 4	37.7	50.8	45.1
C. 3235 (wet)	37.9 *97	44.5 *54	43.3 *82
Max., unass. set	56.6 38.0		
Min., — " —	35.3 37.2		
Gauge, oz. & inch.	6 0.530		
Aurora			Cloudy
Lod. light			Cloudy
Wind	2 NW	2 WNW	0 calm
Clouds.	0	5 M 7m →	9 P 7m

* See note April 1

Some white frost this morning.

FRIDAY, NOVEMBER 2, 1877.

	8	32	8
Bar.	29.909	29.520	29.300
Att. therm.	49.0	50.0	54.0
Psych., dry & wet	45.2 43.3 *83 *85	52.1 52.1 *99 *100	55.7 55.7 *99 *100
No. 4	45.3	52.5	56.2
6.3235 (wet)	44.1 *87	52.8 *99	56.2 *97
Max., unset best	51.0 46.0		
Min., —	37.0 44.8		
Gauge, oz. & inch.	0		
Aurora			cloudy
Zod. light			cloudy
Wind	3 S E	10 S S E	2 S S W
Clouds	10 Pm 7m	10 Pm 7m M raining	10 Pm raining

* See note April 1

Rain beginning about 9 A.M.

At 5 P.M.	5 $\frac{1}{3}$ P.M.
Bar. 29.223	29.202
Att. th. 52.4	53.2
Wind 25	
Clouds 10 Pm 7m M	raining.

SATURDAY, NOVEMBER 3, 1877.

	8	2	8
Bar.	29.597	29.707	29.881
Att. therm.	50.8	55.4	52.2
Psychr., dry & wet	45.4 40.4 *60 *61	50.3 40.6 *33 *34	42.8 37.1 *51 *53
No. 4	45.5	50.5	43.3
C. 3235 (wet)	41.4 *64	41.6 *37	38.2 *55
Max., unset & set	60.0 46.3		
Min., — " —	42.8 45.0		
Gauge, oz. & inch.	9 $\frac{3}{4}$ 0.860		
Aurora			None; some clouds
Zod. light			Visible near & Capr.
Wind	13 SW	13 W	8 WSW
Clouds	0 Pm	5 M 7m →	0 Pm

* See note April 1

2 $\frac{1}{2}$ A.M. Nearly clear; aurora without streamers; long belts of dark cloud from northeast to southwest, not traceable high in the sky, but conspicuous near the horizon especially in the northeast, where they radiated from a vanishing point in the aurora.

At 7 $\frac{3}{4}$ A.M.

Uncovered bulb 44.3
Covered " 44.6
Max. 44.4
Min. 41.4

At 1 $\frac{1}{2}$ P.M.

50.4
50.6
50.8
51.1

SUNDAY, NOVEMBER 4, 1877.

	8	2	8
Bar	30.144	30.174	30.286
Atm. therm.	45.9	51.0	46.5
Rachn., dry wet	37.3 33.5 +62 *63	45.4 37.7 +40 +42	38.5 34.2 +59 +60
No. 4	37.4	45.9	39.1
C. 3235 (wet)	37.4 34.8 *71	38.8 *42	36.0 *67
Max., unset wet	52.0 38.6		
Min., — " —	34.3 37.0		
Gauge, oz. inch.	0		
Aurora			
Zod. light			
Wind	5 W	6 NW	0 W
Clouds	0	0 M 4m	1 Phage

Clouds & haze
Apparently as yesterday
some haze

* See note April 1

At 7½ A.M.

Uncovered bulb	35.6
Covered	36.0
No. 21	35.8
C. 3235	36.8

MONDAY, NOVEMBER 3, 1877.

	8	2	8
Bar.	30.227	30.022	29.804
Alt. therm.	43.7	47.1	50.7
Psychr., dry & wet	38.6 36.4 *77 *79	51.0 47.8 *83 *84	54.2 52.2 *85 *86
No. 4	38.7	51.5	54.8
C. 3235 (wet)	37.4 *83	48.8 *84	53.0 *85
Max., unmet & wet	46.8 39.7		
Min., —	31.7 38.2		
Gauge, oz. & inch.	0		
Aurora			Cloudy
Zod. light			Cloudy
Wind	2 SSE	9 S	10 S
Clouds	10 P	10 Pm 7m A	10 Pm 7m

* See note April 1

Some white frost this morning
Some rain towards night.

TUESDAY, NOVEMBER 6, 1877.

	8	2	8
Bar.	29.736	29.961	30.167
Alt. therm.	52.0	47.0	40.0
Ryder., dry bulb	42.2 39.1 +72 x73	34.6 +28.6 x42 x44	30.9 & 26.9 x56 x58
No. 4	42.8	35.1	31.2
C. 3235 (wet)	40.0 x73	+29.2 x41	\$28.0 x61
Max., wet bulb	55.6 43.2		
Min., —	38.2 42.0		
Gauge, oz. inch.	2 $\frac{7}{8}$ 0.254		
Aurora			+ None
Zod. light			+ Half through Capr.
Wind	16 NW	20 NNW	1 W
Clouds	10 Pm 7m	5 Pm 7m	0

* See note April 1

At 1 $\frac{2}{3}$ P.M.
 Uncovered bulb 34.1
 Covered " 34.6
 No. 4 34.7
 C. 3235 35.0
 Apparently dry

Summ snow 11 to 11 $\frac{1}{2}$ A.M.
 § Melted at 7 $\frac{1}{2}$ P.M.; not frozen at 8.
 + Melted at 1 $\frac{2}{3}$ P.M.; not frozen.
 ‡ Joining belt of galactic light from
 the Pleiades to Aquila.
 Two meteors at 8 P.M. downwards through
 Aquila.

WEDNESDAY, NOVEMBER 7, 1877.

	8	2	8
Bar.	30.411	30.405	30.426
Att. therm.	38.7	49.1	45.2
Psych., dry & wet	30.4 [†] 28.3 75 [†] 77	47.9 40.1 [†] 42 [†] 44	36.1 34.1 [†] 78 [†] 80
No. 4	30.4	48.0	37.2
b. 3235 (wet)	[†] 29.3 [†] 83	41.6 [†] 51	36.6 [†] 89
Max., unact. & set	43.4 32.0		
Min., — " —	25.8 30.3		
Gauge, g. & inch.	0		
Aurora			None
Lod. light			As yesterday.
Wind	1 W	2 SW	0 SW
Clouds	0	0	0 haze

* See note April 1

	At 7 ⁷ / ₁₂ A.M.	1 ⁵ / ₁₂ P.M.	
Uncovered bulb	28.3	47.3	† Melted at 7 ⁷ / ₁₂ A.M.; not frozen at 8.
Covered "	28.6	47.4	
No. 4	28.6	47.2	
b. 3235	29.7	47.6	
Apparently dry			

THURSDAY, NOVEMBER 8, 1877.

	8	2	8
Bar.	30.389	30.216	30.012
Att. therm.	42.6	47.0	50.4
Psych., dry & wet	33.8 33.4 *94 *96	55.2 50.6 *69 *71	56.9 52.4 *71 *72
No. 4	34.2	55.8	57.1
C. 32 35 (wet)	34.1 *94	51.9 *73	53.1 *73
Max., unsat & act	48.3 35.1		
Min., — " —	30.0 33.3		
Gauge, oz. & inch.	0		
Aurora			Cloudy
Zod. light			Cloudy
Wind	0 SW	4 S	9 S
Clouds	10 Pm 7m ↗	10 Pm 7m ↗	10 Pm

* See note April 1

A little rain towards night; more before
next morning.

FRIDAY, NOVEMBER 9, 1877.

	8	2	8
Bar.	29.631	29.633	29.792
Att. therm.	55.0	58.4	60.1
Psych., dry & wet	62.2 61.8 *97 *98	63.6 62.5 *92 *94	55.5 50.9 *70 *71
No. 4	62.8	64.3	55.8
C. 3235 (wet)	63.0 *100	63.2 *94	52.5 *76
Max., unshd at	63.0 +61.3		
Min., — " —	33.3 62.0		
Gauge, oz. & inch.	9 ⁵ / ₈ 0.849		
Aurora			Cloudy
Zod. light			Cloudy
Wind	10 SSW	2 WNW	0 N
Clouds	10 Pm Fm! a little rain	10 Pm Fm	1 Pm Fm

* See note April 1
† Colder in E. Transit Room than outside.

Forenoon rainy; afternoon & evening partly clear.

SATURDAY, NOVEMBER 10, 1877.

	8	2	8
Bar.	30.166	30.244	30.289
Atm. therm.	62.0	50.0	48.0
Wet bulb, dry bulb	38.8 36.7 *79 +81	38.0 35.1 *71 +73	37.5 36.1 *85 +86
No. 4	39.4	38.7	38.2
C. 32 35 (wet)	37.8 +81	36.0 +70	37.1 +85
Max., unshd bet	65.4 40.2		
Min. — —	38.4 38.6		
Gauge, oz. inch,	2 $\frac{7}{8}$ 0.254		
Aurora			Cloudy
Zod. light			Cloudy
Wind	7 N	9 NE	7 NE
Clouds	10 Pm 7m 7m	10 Pm 7m	10 P

* See note April 1

A few drops of rain towards night

SUNDAY, NOVEMBER 11, 1877.

	8	2	8
Bar.	30.208	30.1414	30.092
Att. therm.	43.0	45.1	45.3
Psych., dry bulb	31.8	36.8	33.4
	$\times 74$	$\times 57$	$\times 76$
No. 4	32.2	37.8	34.0
C. 3235 (wet)	30.3	33.8	32.1
	$\times 76$	$\times 58$	$\times 76$
Max., sunset	41.4	38.1	
Min., —	31.2	31.8	
Gauge, oz. inch.	0		
Aurora			Cloudy
Zod. light			Cloudy
Wind	5 N	4 NE	0 NE
Clouds	6 P 7m, 7m/ uncertain, which are highest; probably the first	10 Pm 7m, 7m/ 7m/	9 P 7m

* See note April 1

† Not frozen

MONDAY, NOVEMBER 12, 1877.

	8	2	8
Bar.	30.046	29.951	29.988
Alt. thermo.	42.3	45.6	44.5
Psych., dry bulb	29.2 [†] 27.5 *79 [†] 81	41.0 36.1 *56 *57	39.4 35.9 *67 *68
No. 4	29.7	41.8	39.9
C. 3235 (wet)	[†] 28.2 *78	37.1 *56	37.5 *74
Max., unmet bet	37.8 31.0		
Min., — " —	27.1 29.1		
Gauge, oz. rain	0		
Aurora			
Zod. light			Cloudy Cloudy
Wind	3 NW	1 NW	0 SW
Clouds	0 Pz Rs	5 Pm Fm	10 P

* See note April 1
† Not frozen

At 7¹²/₁₂ A.M.
Uncovered bulb 28.3
Covered " 28.7
No. 4 28.8
C. 3235 29.5
Apparently dry

TUESDAY, NOVEMBER 13, 1877.

	8	2	8
Bar.	30.168	30.254	30.344
Alt. therm.	40.4	48.7	41.1
Psych., dry & wet	31.5 + 27.8 *60 *62	39.7 33.5 *43 +45	32.4 + 29.4 *67 *69
No. 4	32.0	40.1	33.1
C. 3235 (wet)	+28.5 +59	34.8 *49	+32.1 +84
Max., unset heat	42.9 33.6		
Min., — " —	29.1 31.3		
Gauge, oz. & inch.	0	0	0
Aurora			Moonlight
Lod. light			Moonlight
Wind	8 NW	2 NW	0 calm
Clouds	0	0	0

* See note April 1
+ Not frozen

At 7⁵/₁₆ full.
Uncovered bulb 30.7
Covered " 31.2
No. 4 31.3
C. 3235 31.9
Apparently dry

WEDNESDAY, NOVEMBER 14, 1877.

	8	2	8
Bar.	30.396	30.301	30.278
Att. therm.	38.1	48.0	48.0
Psych., dry wet	29.3 † 28.5	51.5 215.1	45.3 43.7
	*89 *91	*55 *56	*86 *87
No. 4	29.8	51.8	45.8
6.3235 (wet)	† 29.6	46.0	44.6
	*92	*59	*87
Max., unset heat	40.2 31.0		
Min., —	25.8 29.3		
Gauge, oz. inch.	0		
Aurora			Cloudy
Zod. light			Cloudy
Wind	1 SSW	10 SW	8 SW
Clouds	8 P Pm Fm	1 P Pm Fm	7 P Fm →

* See note April 1
† Not frozen

White frost this morning.
Indications of lunar halo 45° across
at 8^h 5m P.M.

THURSDAY, NOVEMBER 15, 1877.

	8	2	8
Bar.	30.248	30.1216	30.169
Atm. therm.	47.1	54.2	53.4
Psychr., dry & wet	45.1 44.6 *94 *96	62.6 53.9 *52 *53	52.7 50.6 *84 *86
No. 4	45.2	63.0	54.0
G. 3235 (wet)	45.2 *97	54.9 *54	51.7 *82
Max., sunset & set	51.7 46.0		
Min., — " —	29.2 44.8		
Gauge, oz. & inch.	0		
Aurora			Cloudy
Zod. light			Cloudy
Wind	2 SSW	12 SW	2 SW
Clouds	6 P. Rs 7m	7 P. Pm. P. 7m	10 Pm 7m

* See note April 1

Lunar corona about 6 P.M.; afterwards
hole 45° across.

FRIDAY, NOVEMBER 16, 1877.

	8	2	8
Bar.	30.079	30.010	30.080
Att. therm.	52.0	57.0	55.5
Psychrom., dry & wet	54.8 53.8	63.3 58.0	53.7 52.9
No. 4	⁺⁹² 55.0 ⁺⁹³	⁺⁷⁰ 63.8 ⁺⁷⁰	⁺⁹³ 54.2 ⁺⁹⁴
C. 3235 (wet)	54.5	58.8	54.0
	⁺⁹⁴	⁺⁷³	⁺⁹⁶
Max., unass. & set	62.8 54.8		
Min., — " —	44.6 54.0		
Gauge, oz. direct.	0		
Aurora			Cloudy
Zod. light			Cloudy
Wind	5 S	10 SSW	1 SSW
Clouds	9 P R Pm Fm Fm	8 Pm M Fm Fm	9 P Fm

* See note April 1

Some rain 9 to 10 A.M.

Lunar halo 45° across about 7 P.M.

SATURDAY, NOVEMBER 17, 1877.

	5	2	5
Bar.	30.118	30.081	30.046
Atm. therm.	51.4	58.9	54.3
Psychr., dry & wet	41.1 39.6 *85 *87	53.1 47.7 *64 *65	42.4 42.1 *96 *97
No. 4	41.8	53.5	43.7
C. 3235 (wet)	40.6 *86	49.3 *69	44.0 *99
Max., inst. & act	63.4 42.8		
Min., — " —	40.2 41.0		
Gauge, oz. & inch.	0 $\frac{3}{8}$ 0.033		
Aurora			
Zod. light			
Wind	1 N	1 SE	0 calm
Clouds	6 P R 7 m R	7 P 7 m	2 fog

~~8.5 to 9.0~~ Fog
Fog & moonlight

* See note April 1

At 7 $\frac{11}{12}$ A.M.

Uncovered bulb 40.9

Covered " 41.3

No. 4 41.4

C. 3235 42.0

Apparently dry

A little rain in the
following night

SUNDAY, NOVEMBER 18, 1877. 2

	8	2	8
Bar.	29.804	29.817	29.876
Att. therm.	50.0	52.9	47.3
Psych., dry & wet	43.5 43.7 +100 +100	42.6 35.4 +39 +41	34.7 +30.1 +55 +57
No. 4	43.8	43.2	35.1
C. 3235 (wet)	44.5 +100	36.2 +40	+30.9 +56
Max., unat & set	54.2 44.2		
Min., — " —	39.8 43.0		
Gauge, oz. & inch.	0.38 0.033		
Kurova			
Zod. light			
Wind	2 SSE	8 WNW	8 WNW
Clouds	10 Pm 7m \searrow 7m	9 Pm 7m \rightarrow	0 7m

* See note April 1
+ Not frozen

MONDAY, NOVEMBER 19, 1877.

	8	2	8
Bar.	30.066	30.112	30.228
Atm. therm.	42.0	51.8	43.3
Psych., dry & wet	31.9 + 28.2	36.8 + 30.8	30.0 + 26.4
No. 4	32.4	37.3	30.7
C. 3235 (wet)	+ 29.0	+ 31.8	+ 27.1
	* 60	* 48	* 57
Max., unmet & set	49.6 33.8		
Min., — " —	31.0 32.0		
Gauge, oz. & inch.	0		
Aurora			
Zod. light			
Wind	4 NW	11 NW	10 NW
Clouds	0 Pm fm	0 fm	0 Rs

At 7 $\frac{7}{12}$ A.M. At 2 $\frac{5}{6}$ P.M.

Uncovered bulb	31.5	36.6
Covered "	31.8	37.1
No. 4	31.9	37.2
C. 3235	32.8	37.9

Apparently dry

* See note April 1
† Not frozen

TUESDAY, NOVEMBER 20, 1877.

	8	2	8
Bar.	30.401	30.450	30.526
Atm. therm.	38.0	50.0	42.5
Rychn., dry & wet	24.4 22.8 *76 *79	34.8 29.9 *53 *54	27.0 24.9 *73 *75
No. 4	24.8	38.2	27.6
C. 3235 (wet)	23.4 *75	30.4 *51	25.9 *74
Max., sunset & set	37.8 27.0		
Min., —	23.2 24.2		
Gauge, oz. & inch.	0		
Aurora			
Zod. light			
Wind	3 NNW	4 NW	2 NW
Clouds	0 P	3 P 7m	0 P

* See note April 1

At 7 $\frac{1}{2}$ A.M.
 Uncovered bulb 23.8
 Covered " 24.4
 No. 4 24.2
 C. 3235 25.0

Apparently dry

WEDNESDAY, NOVEMBER 21, 1877.

	8	2	8
Bar.	30.598	30.568	30.544
Att. therm.	38.3	39.8	40.1
Psych., dry & wet	23.0 22.4 +89. 91	32.3 29.7 +72. 74	31.5 29.6 +78. 80
No. 4	23.9	33.0	32.1
6.3235	23.0 +82	+32.8 +93	30.7 +81
Max., unsat & wet	35.1 26.0		
Min., — " —	23.1 23.1		
Gauge, oz. & inch.	0		
Barometer			
Tod. light			Cloudy
Wind	4 N	2 NE	3 NE
Clouds	2 Pm Fm	10 P	10 P

* See note April 1
 † Frozen; wetted half an hour
 before, but probably not settled
 after freezing.

THURSDAY, NOVEMBER 22, 1877.

	8	2	8
Bar.	30.2199	30.452	30.437
Atm. therm.	39.7	43.8	43.4
Psych., dry & wet	30.7 29.5 +85 +87	40.9 36.5 +60 +61	35.8 34.0 +80 +82
No. 4	31.3	41.9	36.7
6.3235 (wet)	+32.0 +100	38.6 +67	36.0 +88
Max., unmet & wet	33.0 32.0		
Min., — " —	23.1 30.6		
Gauge, oz. & inch.	0		
Aurora			Cloudy
Zod. light			Cloudy
Wind	1 NNW	3 @ SE	1 SE
Clouds	10 P	5 P 7 m P m	10 P

* See note April 1
† See note Nov. 21,

A few snowflakes on the ground at 8 A.M.

FRIDAY, NOVEMBER 23, 1877.

	8	2	8
Bar.	30.436	30.419	30.422
Alt. therm.	30.9	54.4	46.8
Psychr., dry & wet	31.9 31.5 *94 *96	44.4 41.1 *72 *73	40.8 39.0 *82 *84
No. 4	32.5	44.8	41.2
6.3235 (wet)	32.1 *90	42.1 *75	40.0 *86
Max., moist & wet	42.4 33.5		
Min., " "	30.4 32.0		
Gauge, oz. & inch.	0		
Barom.			
Zod. light			Cloudy
Wind	2 N	4 E	2 E
Clouds	7 Pm Fm	1 P Rs Fm	10 P Fm ←

+ See note April 1

SATURDAY, NOVEMBER 24, 1877.

	8	2	8
Bar.	30.402	30.357	30.336
Ath. therm.	45.3	47.0	48.2
Psych., dry & wet	43.2 40.4 *75 *77	45.6 43.3 *80 *82	43.5 41.8 *84 *85
No. 4	43.7	46.3	44.0
C. 3235 (wet)	41.3 *77	44.0 *79	42.5 *84
Max, unmet & set	45.5 44.0		
Min., — " —	31.8 43.0		
Gauge, g. inch.	0		
Aurora			Cloudy
Zod. light			Cloudy
Wind	4 ENE	4 ENE	8 ENE
Clouds	10 Pm 7m <	10 Pm 7m <	10 P

* See note April 1.

SUNDAY, NOVEMBER 25, 1877.

	8	2	8
Bar.	30.132	30.028	29.969
Att. therm.	46.8	47.1	47.7
Psych., dry & wet	44.8 43.0 *84 *85	43.9 44.2 *100 *100	48.0 48.2 *100 *100
No. 4	45.3	44.6	48.8
C. 3235 (wet)	43.9 *85	45.0 *100	48.8 *97
Max., unret & ret	46.0 45.5		
Min., — —	42.6 44.3		
Gauge, oz. & inch.	0		
Aurora			Cloudy
Zod. light			Cloudy
Wind	11 ENE	9 ENE	8 E
Clouds	10 Pm Fm —	10 Pm Fm — raining	10 P raining

* See note April 1

Began raining about 10½ A.M.

MONDAY, NOVEMBER 26, 1877.

	8	2	8
Bar.	29.926	29.838	29.828
Atm. therm.	49.2	52.8	55.0
Psych., dry wet	49.8 50.0 *100 *100	53.4 53.4 *99 *100	55.8 55.8 *99 *100
No. 4	50.3	54.0	56.3
6.3235 (wet)	50.8 *100	54.0 *97	56.2 *97
Max., unsat wet	51.4 50.1		
Min., —	42.7 49.2		
Gauge, oz. inch	28 $\frac{1}{4}$ 2.493		
Aurora			Cloudy
Zodiac light			Cloudy
Wind	0 E	4 ESE	9 SE
Clouds	10 Pm fog raining	10 Pm fog raining	10 P a little rain

* See note April 1

TUESDAY, NOVEMBER 27, 1877.

	8	2	8
Bar.	29.850	29.897	29.979
Att. therm.	54.7	60.3	54.2
Psych., dry & wet	55.0 54.7 *97 *98	57.3 51.1 *61 *62	49.0 47.5 *87 *89
No. 4	55.5	57.6	49.7
6.3235 (wet)	55.4 *97	52.0 *64	48.3 *87
Max., unsat & sat	58.8 55.6		
Min., —	49.3 54.2		
Gauge, oz. & inch.	16 $\frac{5}{8}$ 1.467		
Aurora			cloudy
Zod. light			cloudy
Wind	3 S	6 SW	6 S
Clouds	5 Pm Fm R	5 P Fm /	10 P some fog

* See note April 1

WEDNESDAY, NOVEMBER 28, 1877.

	8	2	8
Bar.	29.944	29.960	30.038
Atm. therm.	55.2	60.4	53.0
Psych., dry & wet	47.5 46.5 +91 +92	52.1 41.9 +33 +34	44.2 39.3 +59 +60
No. 4	47.7	52.4	45.0
6.3235 (wet)	47.2 +93	43.3 +39	41.4 +68
Max., sunset & set	57.5 418.1		
Min., — " —	46.0 47.0		
Gauge, oz. & inch.	0		
Aurora			
Zodiac light			Cloudy Cloudy
Wind	2 S	6 SW	1 S
Clouds	6 P 7m is	1 P 7m	8 P haze

* See note April 1

THURSDAY, NOVEMBER 29, 1877.

	8	2	8
Bar.	29.859	29.571	29.524
Att. therm.	51.0	49.4	47.2
Psych., dry & wet	39.6 39.5	37.6 37.6	33.9 34.1
No. 4	⁺⁹⁷ 40.5 ⁺⁹⁹	⁺⁹⁸ 38.5 ⁺¹⁰⁰	⁺¹⁰⁰ 34.6 ⁺¹⁰⁰
C. 3235 (wet)	40.6	38.8	35.0
	⁺⁹⁷	⁺⁹⁸	⁺⁹⁹
Max., sunset & at	53.8 41.0		
Min., — " —	39.0 39.2		
Gauge, oz. & inch.	1 ⁵ / ₈ 0.143		
Aurora			cloudy
Zod. light			cloudy
Wind	1 S	3 NNE	1 NW
Clouds	10 Pm fog raining	10 Pm Fan raining	10 P. snowing

* See note April 1

FRIDAY, NOVEMBER 30, 1877.

	8	2	8
Bar.	29.497	29.518	29.636
Att. therm.	43.7	45.0	41.5
Psych., dry wet	31.9 31.9 *98 *100	33.1 29.8 *66 *68	30.3 28.1 *74 *76
No. 4	32.8	33.5	31.0
C. 3235 (wet)	32.9 *96	34.0 *71	29.0 *74
Max, unsat wet	41.2 33.0		
Min., — " —	32.1 32.1		
Gauge, oz. inch.	7 $\frac{3}{4}$ 0.684		
Aurora			None
Zod. light			Perceptible but faint, vertices near Saturn
Wind	4 NW	5 WNW	7 WNW
Clouds	9 P $\text{Fm} \rightarrow \text{Fm}$	9 P $\text{Fm} \rightarrow$	0 P Rs

* See note April

A little snow on the ground this morning, and
a few snowflakes falling till about 8 A.M.

SATURDAY, DECEMBER 1, 1877.

	8	2	8
Bar.	29.824	29.909	30.065
Alt. therm.	37.0	43.8	33.8
Psyche, dry & wet	28.9 26.7	32.0 † 27.3	23.0 † 20.0
	×73 ×75	×50 †52	×57 †60
No. 4	29.2	32.6	23.6
C. 3235 (wet)	27.9	† 28.7	11° 21.0
	×180	×56	×59
Max, moist & wet	34.0 30.8		
Min., —	27.6 28.8		
Gauge, oz. in ch.	0		
Aurora			None
Zod. light			As yesterday
Wind	3 W	§6 NW	4 NW
Clouds	1 P Rs Fm	§4 P Fm → Fm	0

See note April 1

† Not frozen; wetted over half an hour before.

‡ Frozen.

§ Recorded from memory at 8 P.M.

11° Wetted $\frac{3}{4}$ of an hour previously; perhaps now too dry.

SUNDAY, DECEMBER 2, 1877.

	8	2	8
Bar.	30.288	30.352	30.370
Atm. therm.	29.3	46.9	31.3
Psych., dry & wet	13.4 13.1 *91 *94	25.7 22.6 *59 *62	20.3 18.7 *73 *76
No. 4	13.9	26.2	21.0
6.3235 (wet)	13.3 *80	23.5 *60	20.0 *79
Max., sunset bet	33.9 17.1		
Min., — —	12.7 13.1		
Gauge, 3/4 inch.	0		
Aurora			A little big Mt., possibly auroral.
Zod. light			Its yesterday
Wind	5 N	2 NW	0 N
Clouds	0 P	0 M fm	0

* See note April 1

+ Vertex a little above
 S-west of Saturn,
 joining the belt
 of faint galactic light
 extending from the
 Pleiades to Aquila.

MONDAY, DECEMBER 3, 1877.

	8	2	8
Bar.	30.357	30.243	30.190
Atm. therm.	29.0	48.9	37.9
Psych., dry & wet	17.7 17.3 *90 *93	36.0 †34.3 *55 *57	32.1 †29.4 *70 *72
No. 4	18.0	36.8	32.3
C. 2235 (wet)	17.8 *84	†32.8 *59	†30.6 *78
Max., moist fact	26.5 21.0		
Min. —	13.1 17.2		
Gauge, 3.4 inch.	0		
Barom			
Local light			Sees light from yesterday but less distinct.
Wind	3 SW	7 SSW	8 SW
Clouds	5 P. fm —	3 P. fm —	0

* See note April 1
 † Frozen
 ‡ Apparently not frozen

TUESDAY, DECEMBER 4, 1877.

	8	2	8
Bar.	30.293	30.249	30.224
Atm. therm.	34.6	46.5	42.0
Psych., dry wet	26.9 25.7	43.1 37.4	36.6 34.8
	+83 +85	+51 +53	+81 +82
No. 14	27.2	43.4	37.3
6.3235 (wet)	26.8	39.2	37.1
	+89	+62	+93
Max., insect feet	37.0 29.0		
Min., — " —	17.3 26.7		
Gauge, oz. Rain.	0		
Aurora			Cloudy
Zod. light			Cloudy
Wind	1 WSW	1 SW	1 S
Clouds	5 PRs 7m →	9 P	10 P

* See note April 1

Rain in the following night.

WEDNESDAY, DECEMBER 3, 1877.

	8	2	8
Bar.	30.050	29.834	29.640
Atm. therm.	41.3	43.3	47.6
Psychr., dry & wet	39.4 39.6 *100 *100	54.8 54.7 *98 *99	56.7 56.5 *97 *99
No. 4	40.2	55.2	57.0
6.3235 (wet)	40.5 *99	55.0 *96	57.0 *97
Max., unshd & wet	43.6 40.1		
Min., —	26.4 39.2		
Gauge, oz. & inch.	4 1/4 0.375		
Aurora			Cloudy
Zod. light			Cloudy
Wind	0 calm	11 S	17 S
Clouds	10 Pm fog	10 Pm fm ↑ a little rain	10 P raining

*See notes April 1

THURSDAY, DECEMBER 6, 1877.

	8	2	8
Bar.	29.425	29.518	29.681
Att. therm.	49.8	55.9	46.1
Psych., dry & wet	42.9 44.0 +91 +92	42.5 36.7 +51 +52	40.0 35.7 +60 +62
No. 4	45.1	42.8	40.4
C. 3235	44.9 +92	37.8 +55	37.0 +65
Max., sunset & set	58.0 46.0		
Min., — " —	39.0 44.8		
Gauge, oz. & inch.	4 $\frac{1}{4}$ 0.375		
Aurora			Cloudy
Zod. light			Cloudy
Wind	4 WSW	7 W	7 SW
Clouds	10 P. Fm	15 M Fm —	10 Pm

+ See note April 1
A few drops of rain about 11 A.M.

FRIDAY, DECEMBER 7, 1877.

	8	2	8
Bar.	30.106	30.164	30.187
Ath. therm.	41.3	54.0	42.2
Psych., dry & wet	28.4 24.9 *58 *60	34.0†27.9 *40 *42	26.9†24.5 *69 *71
No. 4	29.0	34.1	27.8
C. 3235 (wet)	25.8 *59	†29.0 *47	†27.0 +84
Max., inst. & act	46.1 30.8		
Min., — " —	28.3 28.3		
Gaug., oz. & inch.	0		
Aurora			None
Zod. light			Apparently to Aquarius
Wind	10 NW	4 W	0 S
Clouds	0 Fm	4 P Fm →	1 P haze

* See note April 1
† Not frozen

SATURDAY, DECEMBER 8, 1877.

	8	2	8
Bar.	30.032	29.980	30.027
Ath. therm.	38.8	54.9	44.8
Psychr., dry & wet	32.5†32.0	43.0 35.7	34.6†31.2
No. 4	^{x92} 32.9 ^{x94}	^{x39} 43.3 ^{x41}	^{x65} 35.0 ^{x67}
C. 3235 (wet)	†32.9	36.9	†32.8
	^{x95}	^{x44}	^{x73}
Max., sunset & set	35.0 33.4		
Min., — " —	26.0 32.4		
Gauge, oz. & inch.	0		
Barom.			
Zod. light			None Probably a little; but sky hazy
Wind	2 SW	6 W	0 calm
Clouds	0 Rs haze	1 M 7m	0 haze P.

* See note April 1
† Not frozen

SUNDAY, DECEMBER 9, 1877.

	8	2	8
Bar.	30.098	30.157	30.235
Atm. Therm.	37.1	49.6	36.3
Psych., dry & wet	27.9 † 26.5 *81 *83	32.0 † 27.5 *52 *54	27.1 24.1 *62 *64
No. 4	28.2	32.6	27.8
C. 3235 (wet)	† 28.9 *100	† 29.0 *59	25.6 *69
Max., sunset & set	43.3 29.4		
Min., — " —	26.9 27.9		
Gauge, oz. & inch.	0		
Aurora			Moonlight
Zod. light			Moonlight
Wind	3 WSW	5 NW	1 SW
Clouds	0 P haze	4 M fm	0

* See note April 1

† Not frozen; melted at 1 P.M.
‡ Frozen.

MONDAY, DECEMBER 10, 1877.

	8	2	8
V Bar.	30.294	30.156	30.041
Atm. therm.	31.2	34.4	36.0
Psychr., dry & wet	19.1 19.1 *97 *100	32.9 29.7 *66 *68	31.7 31.7 *98 *100
No. 4	19.4	33.6	32.4
C. 3235 (wet)	19.8 *98	32.0 *79	32.8 *99
Max., sunset & set	35.0 21.0		
Min., — " —	18.8 18.9		
Gauge, g. inch.	0		
Aurora			
Zod. light			
Wind	0 calm	3 SSE	0 calm
Clouds	6 PRs	10 Pz 7m	10 Pz cloudy

* See note April 1

At 7 $\frac{2}{3}$ A.M.

Uncovered bulb 17.8

Covered " 18.5

No. 4 18.7

C. 3235 19.1

Apparently dry

Snow began about 6 P.M.

TUESDAY, DECEMBER 11, 1877.

	8	2	8 7
Bar.	30.062	29.854	29.810
Att. therm.	35.3	39.2	37.8
Psych., dry & wet	26.2 26.0 *95 *98	33.9 32.5 *83 *85	37.5 36.2 *88 *87
No. 4	26.8	34.6	37.8
C. 3235 (wet)	27.0 *96	33.7 *85	37.0 *87
Max., unset & set	34.3 27.9		
Min., — " —	18.9 26.1		
Gauge, oz. & inch.	0½ 0.0414		
Aurora			Cloudy
Zod. light			Cloudy
Wind	0 calm	2 ESE	2 SW
Clouds	9 P. 7m →	10 P	10 P. 7m →

* See note April 1

Beginning to snow about 10½ A.M.,
but hardly any fell.

WEDNESDAY, DECEMBER 12, 1877.

	8	2	6 ⁵ 4
Bar.,	30.088	30.152	30.212
Att. therm.,	39.1	47.5	42.2
Psychr., dry & wet	34.7 †31.8 *69 *71	43.3 36.7 *45 *47	35.6 31.9 *62 *64
No. 4	35.0	43.9	36.2
C. 3235 (wet)	†32.8 *73	38.0 *49	34.6 *79
Max., sunset & set	41.4 35.7		
Min., — " —	25.9 34.7		
Gauge, oz. & inch.	0		
Aurora			
Zod. light			
Wind	3 NW	5 WNW	1 N
Clouds	0 P	2 W fm	1 P

* See note April 1
† Not frozen

A little snow in the following night

THURSDAY, DECEMBER 13, 1877.

	8	2	8
Bar.	29.844	29.489	29.548
Atm. therm.	37.6	41.0	44.4
Psych., dry wet	34.5 33.6 +88 +91	48.5 44.5 +69 +71	42.1 37.6 +60 +62
No. 4	35.0	49.2	42.8
C. 3235 (wet)	34.8 +93	45.6 +71	39.0 +64
Max., unet wet	44.0 35.7		
Min., — —	25.8 34.8		
Gauge, oz. in ch.	0 $\frac{1}{8}$ 0.011		
Aurora			
Zod. light			
Wind	2 S E	3 W SW	10 S W
Clouds	10 P a little rain	10 Pm 7m →	1 P 7m

* See notes April 1

FRIDAY, DECEMBER 14, 1877.

	8	2	8
Bar.	29.953	30.012	30.146
Att. therm.	38.0	50.2	37.0
Psych., dry & wet	26.8 22.9 +52 +54	27.9 22.9 +40 +43	25.0 22.1 +61 +63
No. 4	27.3	28.5	25.3
G. 3235 (wet)	23.7 +52	24.0 +44	23.0 +64
Max., unmet bar	49.4 29.0		
Min., — " —	26.5 26.7		
Gauge, oz. inch.	0		
Aurora			Moonlight & Clouds
Zod. light			Moonlight & Clouds
Wind	9 NW	28 NW	2 WNW
Clouds	0 fm	0 Rs	2 P

* See note April 1

	At 7 $\frac{1}{2}$ A.M.	At 1 $\frac{1}{2}$ P.M.
Uncovered bulb	26.8	27.9
Covered "	27.4	28.4
No. 4	27.2	28.6
G. 3235	28.0	29.0
Apparently dry		

SATURDAY, DECEMBER 15, 1877.

	8	2	8 $\frac{1}{2}$
Bar.	29.952	29.899	29.829
Atm. therm.	35.4	47.0	44.0
Psychr., dry & wet	34.0 31.9 *76 *78	49.8 39.8 *31 *32	42.9 36.2 *44 *45
No. 4	35.2	50.0	43.3
C. 3235 (wet)	32.9 *72	41.6 *39	37.5 *49
Max., unmet & set	34.5 34.9		
Min., — " —	23.5 34.1		
Gauge, g. inch.	0		
Aurora			
Zod. light			
Wind	1 W	2 W	4 SW
Clouds	10 P 7m Rs	9 P 7m Rs	* 9 P Rs

* See note April 1

** Halo ^{across} 45° round moonAt 1 $\frac{5}{6}$ P.M.

Uncovered bulb 49.6

Covered " 49.9

No. 4 49.8

C. 3235 50.1

Apparently dry

A little rain in the following night

SUNDAY, DECEMBER 16, 1877.

	8	2	8
Bar.	29.839	29.978	30.176
Att. therm.	43.8	57.2	46.3
Psychr., dry & wet	48.3 43.2	52.8 44.0	38.1 35.4
No. 4	*61 *63	*42 *43	*73 *74
6.3235 (wet)	48.6	53.1	38.8
	44.4	45.0	37.2
	*66	*45	*81
Max., unset & set	50.6 48.0		
Min., — " —	34.0 48.1		
Gauge, g. inch.	0 $\frac{1}{8}$ 0.011		
Aurora			Moonlight
Zod. light			Moonlight
Wind	2 W S	5 NW	0 calm
Clouds	9 R R 9 P	0 R 7 m	0 R

* See note April 1

MONDAY, DECEMBER 17, 1877.

	8	2	8
Bap.	30.070	29.895	30.070
Att. therm.	39.8	55.8	
Psych., dry & wet	33.6 32.9 *90 *93	53.6 47.4 *58 *60	
No. 4	33.5	53.8	
Co. 3235 (wet)	33.9 *99	48.7 *64	
Max., unmet & set	53.3 35.0		
Min., " "	29.0 33.5		
Gauge, oz. inch.	0		
Aurora			
Zod. light			
Wind	3 SW	10 SW	
Clouds	5 P R R Fm →	0 haze R	

* See note April 1

TUESDAY, DECEMBER 18, 1877.

	$8 \frac{1}{2}$	$2 \frac{1}{3}$	8
Bar.	30.518	30.613	30.604
Att. therm.	38.8	51.2	36.5
Rychr, dry & wet	23.7 20.7 *58 *60	29.0 24.9 *52 *55	25.9 24.5 *80 *82
No. 4	24.0	29.7	26.8
C. 3235 (wet)	21.5 *61	26.0 *54	25.5 *78
Max., unsat & wet	54.8 26.0		
Min., — "	22.8 23.8		
Gauge, oz. Finch.	0		
Aurora			Cloudy
Zod. light			Cloudy
Wind	5 N	5 NNE	2 NE
Clouds	0 Rs 7m	0 p Rs 7m	10 p m 7m ←

* See note April 1

WEDNESDAY, DECEMBER 19, 1877.

	8	2	8
Bar.	30.463	30.244	30.153
Atm. therm.	38.0	40.9	43.4
Psych., dry & wet	31.0 31.2 *100 *100	45.1 40.5 *62 *64	44.8 42.7 *81 *83
No. 4	31.8	45.7	45.3
Co. 3235 (wet)	32.9 *100	41.7 *6st	43.4 *82
Max., unset & set	31.7 32.4		
Min., — —	23.6 31.2		
Gauge, oz. & inch.	0		
Aurora			
Zod. light			
Wind	0 S	6 SW	11 SW
Clouds	10 P	10 P	9 P fm →

* See note April 1

A few snowflakes about
9 A.M.
A few drops of rain in the
afternoon.

THURSDAY, DECEMBER 20, 1877.

	8	2	8
Bar.	30.116	30.233	30.425
Att. therm.	44.0	57.5	42.3
Psyche, dry & wet	45.7 43.8 *84 *85	48.4 48.4 42.0 *52 *54	33.5† 30.9 *73 *75
No. 4	46.2	48.9	34.4
C. 3235 (wet)	44.8 *86	42.9 *54	†32.2 *73
Max., unmet & set	46.0 46.0		
Min., —	31.1 45.4		
Gauge, oz. inch.	0		
Aurora			Moonlight
Zod. light			Moonlight
Wind	4 W	13 N	2 NNE
Clouds	6 P Fm Rs	1 P M Fm Rs	0 P

* See note April 1
† Not frozen

At 1 $\frac{5}{8}$ P.M.

Unwound bulb 48.8
Covered " 49.0
No. 4 49.1
C. 3235 49.6

Apparently dry

FRIDAY, DECEMBER 21, 1877.

	8	2	8
Bar.	30.592	30.574	30.541
Att. therm.	36.4	47.8	41.2
Psych., dry & wet	21.1 20.3 *86 *88	32.8 27.0 *41 *43	30.3 27.0 *63 *65
No. 4	21.8	33.4	31.1
C. 3235 (wet)	20.9 *80	29.0 *52	29.0 *72
Max., sunset & set	53.9 23.9		
Min., — " —	21.0 21.0		
Gauge, oz. inch.	0		
Aurora			
Zod. light			
Wind	3 N	1 NW	0 calm
Clouds	0 R, 7m	7 P R, 7m	10 P

* See note April 1

SATURDAY, DECEMBER 22, 1877.

	8	2	8
Bar.	30.436	30.367	30.392
Att. therm.	39.1	40.7	41.0
Psych., dry & wet	33.0 30.5	39.3 34.6	33.0 †34.5
No. 4	*73 33.5	*55 40.0	*83 33.5
C. 3235 (wet)	32.9	35.8	† 32.2
	*88	*58	*82
Max., unmet & set	33.6 34.0		
Min., —	20.9 32.9		
Gauge, g. inch.	0		
Aurora			
Zod. light			Moonlight † Moonlight
Wind	0 calm	3 NW	0 NW
Clouds	10 P Fm	10 P	0 P

* See note April 1
 † Same zodiacal light
 at 6 P.M. Brightness
 of Venus made it a
 little doubtful.
 ‡ Not frozen.

SUNDAY, DECEMBER 23, 1877.

	8	2	8
Bar.	30.483	30.470	30.400
Ath. therm.	36.7	54.7	40.0
Psych., dry & wet	26.3 25.9 *93 *95	38.7 33.5 *51 *53	31.1 †29.0 *77 *78
No. 4	26.8	39.0	31.5
C. 3235 (wet)	26.8 *94	35.0 *59	†30.7 *86
Max., unmet & set	40.4 28.3		
Min., —	26.0 26.0		
Gauge, oz. & inch.	0		
Aurora			None
Zodiac light			Distinct, not bright; vertices about $\frac{1}{3}$ of the way from Saturn to Mars.
Wind	1 NW	1 N	0 calm
Clouds	0	0	0

* See note April 1
† Not frozen

MONDAY, DECEMBER 24, 1877.

	8	2	8
Bar.	30.296	30.212	30.174
Att. thermo.	35.0	50.3	41.6
Psych., dry & wet	23.4 23.4 *97 *100	41.4 35.4 *47 *49	31.1 29.3 *79 *81
No. 4	24.0	41.9	31.9
6.3235 (wet)	24.0 *93	37.0 *54	30.0 *76
Max., unat. wet	39.7 25.4		
Min., — " —	23.0 23.2		
Gauge, oz. inch.	0		
Aurora			None
Zod. light			To Mars
Wind	1 NNW	2 NE	0 NE
Clouds	0 R 7m haze	1 PR R 7m	0 haze

* See note April 1

TUESDAY, DECEMBER 25, 1877.

	8	2	8
Bar.	30.100	30.050	29.982
Att. therm.	35.8	52.5	38.1
Psych., dry & wet	23.8 23.4	38.0 33.3	29.4 + 28.6
No. 4	*92 25.3	*54 38.4	*89 30.2
C. 3235 (wet)	24.1	34.9	+30.3
	*78	*63	*96
Max., unat & wet	41.9 26.0		
Min., — " —	23.1 23.8		
Gauge, oz. & inch.	0		
Aurora			None
Zod. light			To Mars; dim
Wind	3 N	0 N	0 calm
Clouds	0 haze	0	0

* See note April 1
 † Not frozen

At 7³/₄ A.M.

Uncovered bulb 23.7

Covered " 24.3

No. 4 24.0

C. 3235 24.0

C. 3235 possibly not
 dry & covered bulb probably dry

WEDNESDAY, DECEMBER 26, 1877.

	8	2	8
Bar.	29.914	29.900	29.901
Att. thermo.	35.7	52.4	39.4
Psychr., dry & wet	25.0 +24.5 *91 *94	40.4 34.6 *48 *50	31.5 30.1 *83 *85
No. 4	25.7	40.5	32.1
6.3235 (wet)	26.1 *99	36.1 *57	31.0 *84
Max., unmet & set	39.0 26.7		
Min., — " —	23.3 25.0		
Gauge, 3.5 in.	0		
Surrounding			None
Zod. light			To Mars; dim
Wind	0 calm	0 calm	0 NW
Clouds	6 P 7m →	0 Rs	0

* See note April 1

+ Not frozen

THURSDAY, DECEMBER 27, 1877.

	8	2	8
Bar.	29.948	29.947	29.978
Atm. thermo.	35.8	48.8	43.4
Psych., dry & wet	23.9 23.6 *93 *96	43.4 37.7 *52 *54	33.5 32.2 *84 *86
No. 4	24.3	43.5	34.1
C. 3235 (wet)	24.3 *94	39.0 *59	33.4 *87
Max., unset & set	40.9 26.0		
Min., — " —	23.0 23.6		
Gauge, oz. & inch.	0		
Aurora			None, (some light on fog, probably from lamps).
Zod. light			No Mars; dim
Wind	1 NNW	0 N	0 calm
Clouds	0 haze	0	1 fog

* See note April 1

FRIDAY, DECEMBER 28, 1877.

	8	2	8
Vap.	30.053	30.048	30.091
Att. therm.	36.0	42.0	42.1
Psydr., dry & wet	25.7 25.3 *92 *95	40.6 36.5 *62 *64	30.7 †30.1 *91 *94
No. 4	26.1	40.9	31.6
C. 3235 (wet)	26.0 *92	38.4 *74	†31.0 *88
Max., unset & set	43.8 28.0		
Min., — "	23.5 25.4		
Gauge, g. rain.	0		
Aurora			None
Zod. light			To Mars
Wind	1 N	2 NE	0 N
Clouds	0 haze	0	0

* See note April 1
† Not frozen

SATURDAY, DECEMBER 29, 1877.

	8	2	8
Bar.	30.047	29.966	29.938
Att. therm.	35.1	39.4	43.2
Psych., dry & wet	22.8 22.8	40.4 35.9	31.2 T30.9
	*97 *100	*59 *61	*95 *97
No. 4	23.0	40.6	32.6
6.3235 (wet)	23.5	37.2	T32.1
	*100	*66	*90
Max., unist & set	40.9 24.4		
Min., — —	21.8 22.2		
Gauge, oz. & inch.	0		
Aurora			None
Zod. light			To Mars; dim
Wind	1 WNW	0 NE	0 NW
Clouds	0 haze	1 P. Ra	0 haze

* See note April 1
 † Not frozen

SUNDAY, DECEMBER 30, 1877.

	8	2	8
Bar.	29.772	29.564	29.453
Att. therm.	37.0	36.7	37.3
Psych., dry & wet	32.9 32.3 *91 *94	30.2 29.6 *92 *94	27.8 27.8 *98 *100
No. 4	33.8	30.8	28.6
6.3235 (wet)	33.2 *88	30.2 *88	28.4 *92
Max., unat & set	40.4 34.7		
Min., " "	22.2 33.3		
Gauge, 3.5 inch.	0		
Aurora			Cloudy
Tod. light			Cloudy
Wind	6 NE	7 NE	7 NE
Clouds	10 P 7m	10 P	10 P, a little snow

* See note April 1

MONDAY, DECEMBER 31, 1877.

	8	2 $\frac{1}{4}$	8
Bar.	29.344	29.302	29.449
Att. therm.	33.5	34.5	34.3
Psych., dry & wet	20.8 20.6	32.4 25.7	20.9 19.2
	+94 +97	+32 +34	+72 +75
No. 4	21.2	32.9	21.8
C. 3235 (wet)	21.0	26.8	20.0
	+90	+36	+67
Max., inst & set	34.3 23.0		
Min., —	20.2 20.7		
Gauge, g. inch.	0 $\frac{1}{4}$ 0.022		
Aurora			None
Zod. light			To Mars; dim
Wind	5 N	9 N	12 N
Clouds	0 P	0	0

* See note April 1

MEMORANDA.

July 31, 1877. The records of the height of the Observatory in books A 4 and 5, pages headed, 171 in A 4 and 207 in A 5, are somewhat indefinite. In particular, it is doubtful whether the "top surface of the lower square base of granite pilaster" (A 5, 207) means the level of the entry floor or of the upper stone step, between which there is a difference of 8 inches. If we take the upper stone step, and call this 75 feet above the sea, the barometer cistern is now 79 feet above the sea.

G. P. Bond's report for 1861, p. 27, says that the barometer then in use was set in the East Transit Room with its Cistern 78.63 feet above the sea by one measure, and 78.96 by another which seems to be that just referred to. The height of the barometer ~~was probably~~ above the floor must have been about as at present, which makes it seem that the level of the stone step rather than of the floor of the entry was called 75 feet above the sea (mean of high & low water at Charleston Navy Yard, Dry.

MEMORANDA.

Dock, as determined in 1837 by Mr.
Bardwell?)

MEMORANDA.

July 31 1881. In the morning I went to the
 height of the Observatory. The barometer
 at 4 and 5, pages headed 171 in 44
 and 207 in 45, are somewhat indefinite.
 In particular, it is doubtful whether
 the "top surface of the lower square base
 of granite pedestal" (p. 5, 207) means the
 level of the entry floor or of the
 upper stone step, between which there
 is a difference of 3 inches. If we
 take the upper stone step and
 call this 75 feet above the sea,
 the barometer cistern is now 79 feet
 above the sea.

By Peabody's report for 1864, p. 27,
 says that the barometer then in use
 was set in the East parish Church with
 its Cistern 78.63 feet above the sea by one
 observer, and 78.76 by another which seems
 to be that just referred to. The height of
 the barometer was probably about the
 same must have been about as at
 present, which makes it seem that the
 level of the stone step rather than of the
 floor of the entry was called 75 feet
 above the sea. I mean of high tide
 water at Charleston. Very truly, Wm. L. G. Dyer.

CASH ACCOUNT. JANUARY.

CASH ACCOUNT. FEBRUARY.

CASH ACCOUNT. APRIL.

CASH ACCOUNT. JUNE.

CASH ACCOUNT. JULY.

CASH ACCOUNT. AUGUST.

26

CASH ACCOUNT. OCTOBER.

DATE.

RECEIVED.

PAID.

CASH ACCOUNT. NOVEMBER.

CASH ACCOUNT. DECEMBER.

BILLS PAYABLE. FEBRUARY.

DATE.

NAME.

DOLLS. CTS.

RECEIVABLE

BILLS PAYABLE. MARCH.

DATE.

NAME.

DOLLS. CTS.

RECEIVABLE.

BILLS PAYABLE. APRIL.

DATE.

NAME.

DOLLS. CTS.

RECEIVABLE

BILLS PAYABLE. MAY.

DATE.

NAME.

DOLLS. CTS.

RECEIVABLE.

BILLS PAYABLE. JUNE.

DATE.

NAME.

DOLLS. CTS.

RECEIVABLE.

BILLS PAYABLE. JULY.

DATE.

NAME.

DOLLS. CTS.

RECEIVABLE.

BILLS PAYABLE. AUGUST.

DATE.

NAME.

DOLLS. CTS.

RECEIVABLE.

BILLS PAYABLE. SEPTEMBER.

DATE.

NAME.

DOLLS. CTS.

RECEIVABLE.

BILLS PAYABLE. OCTOBER.

DATE.

NAME.

DOLLS. CTS.

RECEIVABLE.

BILLS PAYABLE. NOVEMBER.

DATE.

NAME.

DOLLS. CTS.

RECEIVABLE.

BILLS PAYABLE. DECEMBER.

DATE.

NAME.

DOLLS. CTS.

RECEIVABLE.

1-8-1

4.4

964

12.2





