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DAILY JOURNAL FOR 1869.

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For portable rain guage on East Slope take 1/59 the number of fluid ounces for depth in inches.

For portable rain guage on West Grounds take 1/30 the number of fluid ounces for depth in inches of rain - ~~and for snow, take 1/9 of same amount~~,

For rain guage No. 2 on building take 1/116 of no of ounces for depth in inches.

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A Daily Journal

FOR

1869.

Containing a Blank Page for Every Day in the Year.

Published Annually,

FOR THE TRADE.

1869.

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RG113365.367

COUNTING-HOUSE CALENDAR FOR 1869.

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

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

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FRIDAY, JANUARY 1, 1869.

	Barom.	Att.	Dry.	Wet.	No. 4	Wind.	Clouds.
7							
10							
2							
4							
7							

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SATURDAY, JANUARY 2, 1869.

	Barom. Att.	Dry.	Wet.	No. 4.	Wind.	Clouds.
7						
12						
2						
4						
9						

Snow Not 9.5 Lost by Drifting

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SUNDAY, JANUARY 3, 1869.

	Baron.	Att.	Dry ~~Ther~~	Wet ~~Dry~~	No. 4	Wind.	Clouds.
7					22·0		
10	29·966	28·0	31·0	31·0			
2					38·0		
					At H_4		
4	30.047	32.3	37.3	34.2		7	6 cir. cirrus
9					34·0		

Mat 40·0
Min 14·5

Rain No. 3

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MONDAY, JANUARY 4, 1869.

	Barom.	Att.	Wet.	Dry	Fro. H.	Wind.	Clouds.
7					36·5		
10	30.144	32.5	37.1	36.10		S. S. W. 5	Cumb. 10.
2					At 2¾ 40.0		
4	30.019	35.0	38.7	38.7		4	10 rather misty
9							

Mean.
Cumb. 23.1

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TUESDAY, JANUARY 5, 1869.

	Barom.	Attt.	Dry.	Wet.	No. 4.	Wind.	Clouds.
7					38.3		
10	29.462	35.0	41.5	41.0		S. S. W. 2.	Vacant. 10.
2					At 2 1/6 43.0		
4	29.432	39.6	41.4	39.2		9 estimated (chronograph under repair)	9 mist wreaths apparently dispersing
7							

Max. 43.0
Min. 35.0

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WEDNESDAY, JANUARY 6, 1869.

	Bar.	Att.	Dry.	Wet.	No. 4	Wind.	Clouds.
7					28·3		
10	29.880	36.5	30.0	26.0		W. S. W. 7.	Cir. Cum. 4.
2					At 2½ 35.7		
4	29.906	38.4	34.8	30.4		6	7 cu. cirru
9					33.0		

Max. 36.5
Min. 28.0
Brilliant aurora from 8½ to 9½ P. M.

Rain No. 3·0

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THURSDAY, JANUARY 7, 1869.

	Bar.	Att.	Dry.	Wet.	Ht.	Wind.	Clouds.
7					28·2		
10	30.086	33.5	35.0	34.5 at 11 h		S.S.W. 3 1/2	Light Cir. Strat. 6
2					46.2		
4	30.009	41.0	44.0	38.0		5.	0 faint streaks in the South some haze
9					39·5		

Max. 46·2
Min. 26.0

Aurora about 10 P.M.

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FRIDAY, JANUARY 8, 1869.

	Bar.	att.	Dry	Wet.	No. 4	Wind	Clouds.
7					39.5		
10	30.098	39.5	4070	39.0		N.E.N. 9.	Faint Cir. Strat. cont. over Heavens. 7
2					51.3		
4	30.067	44.9	49.1	42.7		0.	9 cir-cu.
9					42.0		

Max. 51.5
Min. 34.0

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SATURDAY, JANUARY 9, 1869.

	Bar.	Att.	Dry.	Wet.	No. 4.	Wind.	Clouds.
7					36.0		
10	30.1	40.5	37.5	37.5 at 11. o'clock.		E.S.E. 3.	Mainly 10.
2					40.1		
4	29.924	41.9	41.5	39.7		3	10
9							

Mean,
Min. 34.5

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SUNDAY, JANUARY 10, 1869.

	Barom.	Att.	Dry.	Wet.	No. 4.	Wind.	Clouds.
7							
10							
2							
4	29.884	46.8	40.2	34.2		9	1 cum. cir. haze
9							

Min. 37.0

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MONDAY, JANUARY 11, 1869.

	Barom.	att.	Dry.	Wet.	No. 4	Wind.	Clouds.
7							
10	30.306	35.0	27.0	24.5		N. N. W. 0.	Numb. Cirro. 10.
2							
4	30,152	37,8	34,3	32.6		4	10 little rain
	3	~~37,8~~					
9					33.0		

Max. 45.0
Min. 23.5
Slight fall of commingled rain and snow during the Afternoon.

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TUESDAY, JANUARY 12, 1869.

	Barom.	att.	Dry.	Wet.	No. 4.	Wind.	Clouds.
7					31·5		
10	29.480	38.5	29.0			N. W. 12.	Cumb. 12.
2					33.7		
4	29.699	39.0	33.4	32.1		3	10
9					29·5		

Max. 33·7
Min. 27.0

Rained quite copiously during the preceding Evening and night. – Amt. of rain falling = 1.08 in.

Commenced snowing at 8 o'clock this morning.

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WEDNESDAY, JANUARY 13, 1869.

	Barom.	Att.	Dry.	Wet.	In. H	Wind.	Clouds.
7					23·8		
11	30.204	34.0	24.5	23.0		N. N. W. 5.	Slight Strat. around horizon.
2					31.3		
4	30.200	39.3	31.6	28.4		2	0 cir. in N.
9					26.4		

Meat. 35.0
Morn. 22.5

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THURSDAY, JANUARY 14, 1869.

	Barom.	Att.	Dry.	Wet.	Min.	Wind	Clouds.
7					27·3		
10	30.068	34.5	30.5	30.5 at 11. 3/3		N.W.N. 5.	Slight frost, around horizon in N. & W.
2					38.2		
4							
9 4/9	29987	40.9	39.0	33.9	31.6	5	7 cir.

Max. 40·0
Min. 24.0

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FRIDAY, JANUARY 15, 1869.

	Bar.	Att.	Dry.	Wet.	Ws. H.	Wind.	Clouds.
7					32.0		
10	29.838	36.5	34.5	32.0		S.S.W. 2.	Strat. + Cum.
2					38.4		
4	29.710	40.1	38.1	35.4		6 (estimate battery down)	10
9					36.0		

Max. 38.0
Min. 27.5

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SATURDAY, JANUARY 16, 1869.

	Barom.	Att.	Dry.	Wet.	no 4	Wind.	Clouds.
7					25.0		
11	29.880	36.0	26.0	22.0		N.W. 1/2.	Cum. Cir. 3.
2					32.3		
4	29.988	40.7	32.3	26.5		9	0
9					27.0		

Max. 41.0
Min. 24.0

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SUNDAY, JANUARY 17, 1869.

	4 Bar.	Att.	Dry.	Wet.	No. 4	Wind.	Clouds.
7					20·0		
11							
2					32·0		
4	30.170	38.7	30.3	25.9		5	9 cu-cu.
9					25·0		

Max 31·8
Min. 19·0

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MONDAY, JANUARY 18, 1869.

	Barom.	att.	Dry.	Wet.	m. t.	Winds	Clouds.
7					18.5		
11	30.274	31.5	19.5	18.5		N. NE. 8.	Cum. 8.
2					25.4		
4	30.234	34.6	24.3	22.0			10 a few snowflakes
9					22.		

Mean. 25.5
Min. 16.5

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TUESDAY, JANUARY 19, 1869.

	Barom.	Att.	Dry.	Wet.	No. 4	Wind.	Clouds.
7					15.5		
10	30.008	29.5	19,0	16.5		N.W. N.W. 10.	Cum. Strat. 9
2					24.6		
4	29.880	33.8	24.8	21.1		8	0 cir. cir.
9					20.0		

Max. 24.6
Min. 14.0

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WEDNESDAY, JANUARY 20, 1869.

	7 Barom.	Att.	Dry.	Wet.	No. 4.	Wind.	Clouds.
7					22.5		
10	29.648	29.0	27.0	26.0		N. N. W. 4.	Cumb. 10.
2					33.2		
4	29.548	34.0	33.2	30.2			9
9					32.8		

Max. 34.0
Min. 17.0
Commenced snowing at 9 o'clock and continued at intervals during the forenoon.

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THURSDAY, JANUARY 21, 1869.

	7h a.m.	Att.	Dry.	Wet.	No. 4.	Wind.	Clouds.
7					15.0		
10	29.780	29.0	21.0	18.5		W. 5 by est.	Cum. 8.
2					28.6		
4	29.674	32.8	30.3	26.8		6	10
9					33.0		

Max. 33.5
Min.

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FRIDAY, JANUARY 22, 1869.

	Barom.	Att.	Dry.	Wet.	No. 4.	Wind.	Clouds.
7					7.5		
10	29.956	below.	6.0	5,0		N.W. 1	Cir. Strat. 7
2					At 2½ 10.6		
4	29.968	29.1	about 10 under the freezing	8.9		8.	0 cirrus S. South
9					6.2		

Max. 34.0
Min. 3.0

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SATURDAY, JANUARY 23, 1869.

	Barom.	Att.	Dry.	Wet.	No. 4	Wind.	Clouds.
7					4.0		
10	29.758	below	16.0	14.0		S.S.W. 18.	Cir. Strat. 3.
2					31.9		
4	29.601	~~32.5~~ 32.8	~~27.8~~ 32.5	~~32.0~~ 27.8		6	0 haze Cloud Bank in North
9					28.0		

Max. 32.6
Min. 3.5

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SUNDAY, JANUARY 24, 1869.

	Barom.	Att.	Dry.	Wet.	No. 4	Winds	Clouds
7					28·0		
11							
2					41·3		
4	At 29.591	At 4¼ 38.3	At 39.5	At 4½ 34.8		At 0	At 4⅓ Cirrhus
9					30·0		

Max. 41·5
Min. 15·0

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MONDAY, JANUARY 25, 1869.

	Barom.	Att.	Dry.	Wet.	No. 4.	Wind.	Clouds.
7					27.0		
10	29.60	33.0	30.0	26.5		N. N.W. 9.	Cum, Strat. 9.
2					25.6		
4	29.732	34.0	22.8	19.0		12.	0 Strgates in horizon
9					13.0		

Max. 32.6
Min. 25.0

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TUESDAY, JANUARY 26, 1869.

	Bar.	Att.	Dry.	Wet.	No 4.	Wind.	Clouds.
7					9.0		
10	29.992	25.0	11.0	10.5		W. N. W. 11	Cir. Strat. 5
2					20.9		
4	29.977	29.14	21.3	18.0		Q	7 cu.
9					19.0		

Max. 21.5
Min. 8.5

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WEDNESDAY, JANUARY 27, 1869.

	Bar.	Att.	Dry.	Wet.	No. 4.	Wind.	Clouds.
7					13·5		
11	30.050	26.0	24.0	21.0		S. W. 5½	Cir. Strat. 6.
2					32.8		
4	29.929	36.4	33.4	26.6		W.	8 cir. thin cir. st.
9							

Mean.
Diurn. 13.0

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THURSDAY, JANUARY 28, 1869.

	Bar.	Att.	Dry.	Wet.	No 4	Wind.	Clouds.
7					28.5		
10	29.780	33.0	34.5	31.5		W.S.W. 9.	Cir. Cum. 7
2					39.7		
4	29.840	37.1	37.5	33.0		13	1 cu.
9.					33.07		

Max. 39.6
Min. 28.5

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FRIDAY, JANUARY 29, 1869.

	Bar.	Att.	Dry.	Wet.	No. 4.	Wind.	Clouds.
7					29.0		
11	30.104	35.0	34.0	31.0		S.S.W. 5	Cir. Strat. 3.
2					At 2½ 42.8		
4	30.032	39.6	40.8	35.6		7	8 st. haze cirst
9							

Mean.
Min.

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SATURDAY, JANUARY 30, 1869.

	Bar.	att.	Dry.	Wet.	No. 4.	Wind.	Clouds.
7					35.0		
10	29.572	36.0	36.5	36.5		W. 7.	Cumb. 10.
2					4 2½ 39.5		
4	28.490	38.9	39.8	39.3		0	9 St. cu.
9					40.0		

Mean. 4 2.0 Solar. Ther. 114.

Mean. 33.5

Commenced raining during part night. — still continuing throughout the forenoon.

Amt. of rain fallen by rain gauge No. 1 on East Steps at 10 o'clock A. M. = .56 in — by rain gauge No. 3 on West Grounds = .61 in.

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SUNDAY, JANUARY 31, 1869.

	Bar.	Att.	Dry	Wet.	No. 4.	Wind.	Clouds.
7					33·0		
11							
2					30·0		
4	29,718	35.6	28.1	24.1		1.3	10 Ci. Str.
9							

Max.
Min.

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MONDAY, FEBRUARY 1, 1869.

	Bar.	Att.	Dry.	Wet.	No 4	Wind.	Clouds.
7					20.5		
10	30.138	30.0	23.0	19.5		N. N. W. 2	Cir. Cum. 1.
2					(2 3/4) 26.7		
4	30.289	34.8	25.6	20.6		13	0
9							

Mean.
Min. 19.0
Solar Ther. 83.0

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TUESDAY, FEBRUARY 2, 1869.

	7 Bar.	All.	1 Dry.	Wet.	Ten. 4.	Wind.	Clouds.
7					10.5		
10	30.472	26.0	15.5	13.0		N. N. W. 5½	Cum. Strat. 3.
2					25.3		
4	30.449	36.5	27.0	22.5		3	5 pt. haze
9					23.8		

Mean, 39.7
Min. 9.5
Solar Ther. 92.5

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WEDNESDAY, FEBRUARY 3, 1869.

	Bar.	~~Dry.~~ Att.	Dry.	Wet.	No. 4.	Wind.	Clouds
7					28·5		
12	29.924	33.5	31.0	31.0		E. a. E. 18.	Cumb. 10.
2	Snow blown on the bulb				32.0		
4	29.667	34.7	33.5	33.1		15	10 raining
9					34·5		

Mean. 34·5
Min. 15,
Solar Ther. 93.5
Commenced snowing during previous night.
At 11¾ A.M. 2.8 in. of snow had fallen from a mean of ten measures.
By gauge No. 3.–(the snow being first melted) snow = 3.1 in.
10 o'clock obs. were taken at 12 o'clock to day.
See Mr. Wendell's letter of March 31, 1869.

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THURSDAY, FEBRUARY 4, 1869.

	Bar.	Att.	Dry.	Wet.	No. 4.	Wind.	Clouds.
7					28.0		
10	28.972	35.5	25.0			N. N. W. 6.	Numb. 10.
2					28.4		
4	28.996	35.5	29.5	29.4		0	10 Snowing
9							

Mean,
Min. 25.0
Solar Ther. 45.0
Amount of rain fallen at 10 to day since yesterday's obs. by No. 3 = .93 in.
Total amount of melted snow & rain by No 3 = 1.19 in
Total " " " " " " " No. 1. = 1.22
Amount of rain from No. 2 = .83 in.

96½ oz.

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FRIDAY, FEBRUARY 5, 1869.

	Bar.	Att.	Dry.	Wet.	No. 4.	Wind.	Clouds.
7					14.0		
10	29.326	28.5	19.5	18.5		W. N. W. 0.	Numb. 10.
2					21.1		
4	29.452	31.2	21.9	19.4		estimated 20 wires in use	10 St.
9							

Mean.
Inin. 13.5
Solar Ther. 57.0
Fine Aurora with streamers at 12 o'clock last night.

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1869phae.proj..368

SATURDAY, FEBRUARY 6, 1869.

	Bar.	att.	Dry.	Wet.	No. 4.	Wind.	Clouds.
7					17.0		
10	29.960	30.5	26.0	22.0		W. 14½	Cum. Strat 1.
2					(2½) 33.0		
4	29.921	35.7	33.0	31.8		estimated 8 wires in use	5 cir cir-cu.
9							

Mean.
Min. 17.0
Solar Ther. 97.5

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1869phae.proj...368

SUNDAY, FEBRUARY 7, 1869.

	Bar.	Att.	Dry.	Wet	No. 4	Wind,	Clouds,
7					16.0		
10							
2					22.0		
4	30.280	38.2	23.0	19.0		13 estimated	0
9							

Mean.
Min.
Solar Ther.

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1869phae.proj..368

MONDAY, FEBRUARY 8, 1869.

	Bar.	Att.	Dry.	Wet.	No. H.	Wind.	Clouds.
7					11.0		
10½	30.306	28.0	22.5	22.0 at 11.		S.S.W 12, by set.	Strat. 3.
2					at 2¼ 36.3		
4	30.268	34.9	36.2	31.1		:9	1 cirst. cir. cir.-cu.
9					32.0		

Max. 37.5
Min. 10.
Solar Ther. 112.0

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1869phae.proj..368

TUESDAY, FEBRUARY 9, 1869.

	Bar.	Att.	Dry.	Wet.	No. 4.	Wind.	Clouds.
7					28·0		
10	30.172	33.0	32.5	29.0		N. N. W. 4.	Cir. + Cum. 4
2					35.7		
4	30.021	41.6	35.1	32.0		7 estimate	4 cir. cirrost.
9							

Mean.
Min. 23.5
Solar Ther. 110.5

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1869phae.proj , 368

WEDNESDAY, FEBRUARY 10, 1869.

	Bar.	Att.	Dry.	Wet.	No. 4.	Wind.	Clouds.
7					32.5		
10	30.000	36.5	34.0	33.0		N. 5.	Cumb. 10.
2					36.8		
4	29.981	38.8	35.4	33.9		9 estimate	10 St.
9					33.0		

Mean, 36.5
Min, 31.5
Solar Ther. 104.0

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1869phae.proj . 368

THURSDAY, FEBRUARY 11, 1869.

	Bar.	Att.	Dry.	Wet.	No. 4.	Wind.	Clouds
7					31.8		
11	29.988	35.0	34.0	33.0		N. N. W 1½	2 cumb. 10.
2					at 2¼ 35.1		
4	29.928	37.3	34.5	34.0		0	10 snowing a little
9					32.7		

Mean. 36.15
Min. 31.0
Solar Ther. 48.0

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1869phae.proj...368

FRIDAY, FEBRUARY 12, 1869.

	Bar.	Att.	Hyg.	Ext.	No. 4.	Wind.	Clouds.
7					28.0		
11	30.200	35.5	35.5	32.5		W. N. W. 5.	Faint Strat. Clouds scattered over the whole Heavens.
2					41.1		
4	30.067	41.7	41.9	35.3			
9							

Mean,
Barm. 27.0
Solar Ther. 92.0

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1869phae.proj . .368

SATURDAY, FEBRUARY 13, 1869.

	Bar.	Att.	Dry.	Wet.	No. 4.	Wind.	Clouds.
7					36.8		
11	29.938	41.0	44.0			S. W. 3.	Cum. 8
2					53.8		
4	29.857	49.4	54.8	46.3		5 est.	0 high cirr.
9							

Mean,
Min. 35.0
Solar Ther. 102.5

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1869phae.proj...368

SUNDAY, FEBRUARY 14, 1869.

	7 Bar.	Att. Dry.	Wet.	No. 4.	Wind.	Clouds.
7						
10						
2						
4	30.220	39.0	28.9	25.4	5 est. with gusts of much stronger wind	10 ct.
9				31.5		

Mean,
Min.
Solar Ther.

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1869phae.proj . 368

MONDAY, FEBRUARY 15, 1869.

	Bar.	att.	Dry.	Wet.	No. 4.	Wind.	Clouds.
7							
10	29.768	36.0	35.0	35.0		E. N. E. 11.	Cumb. 10.
2					40.9		
4	29.972	38.9	42.9	42.9		6 est.	10 raining
9					32.0		

Mean. 46.5
Min. 28.0
Solar Ther. 117.0

At 10 o'clock raining hard.
" " " amt. of rain by No. 1 = .587 in.
" " " " " " " " " 3 = .612 "

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1869phae.proj . . 368

TUESDAY, FEBRUARY 16, 1869.

	Bar.	Att.	Dry.	Wet	No. 4	Wind.	Clouds.
7					33.6		
11	29.414	38.0	39.0	34.0		W. S, W. 11.	Cir. Strat. 8.
2					40.5		
4	29.411	40.9	38.2	34.0		13 est	10 clear streak in SW
9							

Mean,
Min. 31.0
Solar Ther. 100,

Amount of rain since yesterdays obs. by No 1 is 104 oz = 1.73 in.
" " " " " " " " No 3 " 74.75 = 2.58 "
Total rainfall by No 1. = 2.32 in – by No. 3 = 3.19 in.

362 oz. by No. 2.

log. 362 = 2.558 7086
7.923 6564
3.13 inches

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1869phae.proj...368

WEDNESDAY, FEBRUARY 17, 1869.

	Bar.	Att	Dry.	Wet.	No. 4.	Wind.	Clouds.
7					28.5		
11	29.556	37.0	32.5	29.0		W. N. W. 10.	Cir. Strat. 8.
2					At 2¼ 38.9		
4	29.569	40.7	37.4	32.9		7 est.	10 st.
9					32.0		

Max. 41.0
Min. 28.0
Solar Thr. 109.5

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THURSDAY, FEBRUARY 18, 1869.

	Bar.	Att	Dry.	Wet	No. 4	Wind.	Clouds.
7					34.0		
10	29.182	38.5	34.0	33.5		S.S.E. 0.	Rain. 10.
2					37.3		
4	29.139	39.8	33.5	32.0		13 Mt.	10 some snow
9					31.0		

Max. 37.3
Min. 30.5
Solar Ther. 109.0
10 o'clock – morning all the morning.
Amount of water at 10 by No. 1 = 9. $\frac{3}{4}$ oz. = .163 in
" " " " " " " 3 = 4 $\frac{3}{4}$ " = .164 "

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1869phae.proj . . 368

FRIDAY, FEBRUARY 19, 1869.

	Bar.	att.	Dry.	Wet.	No. 4.	Wind.	Clouds.
7					20.5		
10	29.484	34.5	28.0	27.5 at 11½		S. S. W. 4½	Heavy Cum. Strat, 10.
2					35.6		
4	29.430	37.2	35.1	32.6		3 nst.	9 St. cu. St
9					25.0		

Tmax. 35.6
Tmin. 19.5
So. Thr. 74.5

Amount of water by No. 1, since yesterday obs. = $\frac{7}{8}$ oz = .015 in.
" " " " " 3. " " " = $\frac{3}{4}$ " = .026 "
Total Fall by No. 1. = $10\frac{5}{8}$ oz = .178 in.
" " " " 3. = $5\frac{1}{2}$ " = .190 "
Sudden Snow Squall at 4½ P.M. with wind blowing at rate 30 miles per hour.

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1869phae_proj_368

SATURDAY, FEBRUARY 20, 1869.

	Bar.	Att.	Dry.	Wet.	No. 4.	Wind.	Clouds.
7					20.5		
10	30.034	31.5	28.0	26.0		S.S.W. 1	Strat + Cumul. 10.
2					33.6		
4	29.999	35.5	33.7	29.9		9 est.	10 Str. rather thin
9					27.0		

Mean. 33.8
Min. 27.5
Sr. Ther. 95.0

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1869phae.proj . 368

SUNDAY, FEBRUARY 21, 1869.

	Bar.	Att.	Dry	Wet.		Wind.	Clouds.
7					27.2		
11							
2					At 2½ 37.5		
4	30.000	39.3	35.9	33.6		6 est.	10 st.
9					36.0		

Max. 38.5
Min.
So. Ther.

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1869phae_proj_368

MONDAY, FEBRUARY 22, 1869.

	Bar.	att.	Dry.	Wet.		Wind.	Clouds.
7					39.6		
10	29.800	37.0	42.0	41.0		S. S. W. 7½	Mostly 10.
2					43.8		
4	29.800	41.4	42.9	40.9		West	10 St.
9							

Mean,
Mean. 26.0
Sa. Ther. 100.5

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TUESDAY, FEBRUARY 23, 1869.

	Bar.	att.	Dry	Wet.	No 4	Wind.	Clouds.
7					32.0		
11	29.366	37.0	33.0	32.5		N.E. 8.	Mist. 10.
2					31.3		
4	29.077	37.3	32.2	32.0		0	10 raining
9							

Mean,
Min. 31.0
S. Ther. 65.5
Amt. of rain at 10 by No. 1 = 14.5 oz = .246 in.
" " " " " " 3 = 8.5 oz = .283 ".

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1869phae.proj...368

WEDNESDAY, FEBRUARY 24, 1869.

	Bar.	att.	Dry.	Wet.	No. 4.	Wind.	Clouds.
7					19.5		
10	30.000	30.5	23.5	20.0		W. 14.	Very slight cumulus.
2					28.0		
4	30.033	38.2	29.6	24.7		4 est.	6 cirrus.
9					25.5		

Local, 30.5
Corrn. 18.5
So. Ther. 84.0

Amt. of rain in gauge No. 1 at 10 = 10¼ oz. = .174 in.
" " " " " " 3 " " = 4½ " = .150 "

Total fall of rain by No. 1 = 24¾ oz. = .420 in.
" " " " " " 3 = 13 oz. = .433 ".

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THURSDAY, FEBRUARY 25, 1869.

	Barom.	Att.	Dry	Wet		Wind	Clouds
7					21.3		
2					31.9		
4	30.340	36.2	35 3	27.8		3 1st.	3 cir cirst.
9					26.0		

Mat 35.0

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FRIDAY, FEBRUARY 26, 1869.

	Barom.	Att.	Dry	Wet		Wind	Clouds
7					29.0		
2					33.5		
4	29.829	35.5	32.4	32.2		11 calt.	10 Snowing
9					25.0		

Mean 34.0

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SATURDAY, FEBRUARY 27, 1869.

	Barom.	Att.	Dry	Wet	No 4	Wind	Clouds
7					25.8		
2					(2¼) 28.7		
4	29.557	35.9	26.2	23.7		14 sk.	Dense mist changing very fast snow & balls
9					19.6		

Max. 29.2
Min. 19.0

[redacted] N

No 2. Measured 8 8 of melted snow

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1869phae.proj..368

SUNDAY, FEBRUARY 28, 1869.

	Barom.	Att.	Dry	Wet		Wind	Clouds
7					15.3		
4	30.057	33.8	21.9	17.4		11 est.	0
9					10.6		

Mean 23.0

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1869phae.proj . 368

MONDAY, MARCH 1, 1869.

	Barom.	Att.	Dry	Wet	No 4	Wind	Clouds
7					0.0		
					(2½)		
2					17.4		
4	29.936	31.8	18.2	15.0		7 ESE	2 Cir.
9					11		

Sat 18.0

Min. (read at 2½ P.M.) 0.0
[This is the minimum of the preceding night]

Gauge No. 1 8 oz. } melted snow
" " 3 15 " }
This snow all fell in February

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1869phae.proj..368

TUESDAY, MARCH 2, 1869.

	Barom.	Att.	Dry	Wet	Ht.	Wind	Clouds
7					3·5		
					(At 2½)		
2					28.9		
4	29.780	31.6	28.0	26.2		6 est.	10
9					26·0		

Mar 29

Min. (read at 4 P.M.) 2.5

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1869phae.proj. . 368

WEDNESDAY, MARCH 3, 1869.

	Barom.	Att.	Dry	Wet	No. 4	Wind	Clouds
7					16.5		
					(2½)		
2					35.8		
4	30.015	36.1	35.7	30.6		5 est	1 cirst. cum
							haze
9.					25.0	-	

Max. 35.8
Min. 15.0 (read at 4¼ P.M.)

No 1 31.0 oz Melted Snow No 3. 0. 1½

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THURSDAY, MARCH 4, 1869.

	Barom.	Att.	Dry	Wet	No. 4	Wind	Clouds
7					26.0		
10							
2					37.9		
4	29.781	35.6	37.6	35.0		4 est.	10 st.
9							

Max.
Min. 22.8 (observed at 2 P.M.)

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FRIDAY, MARCH 5, 1869.

	Barom.	Att.	Dry	Wet	No. 4	Wind	Clouds
7					3.2		
10							
					(2½)		
2					15.2		
4	29.979	28.4	16.2	13.2		9 est.	0
9					9.0		

Max.
Min. (read at 2½) 1.3
Solar Therm. (read at 5 P.M.) 129.8
[This is the maximum of the period between Feb. 24 and date.]

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1869phae_proj_368

SATURDAY, MARCH 6, 1869.

	Barom.	Att.	Dry	Wet	Nah	Wind	Clouds
7					3·5		
10							
2					26.0		
4.	29,651	29.9	24.8	23.3		Nett	10 Snowing
9					20·0		

Max. 27·0
Min. — 2.3 (read at 2 P.M.)
Solar Thermometer (read at 5 P.M.) 99.3

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SUNDAY, MARCH 7, 1869.

	Barom.	Att.	Dry	Wet	No. 4	Wind	Clouds
7					15.5		
10							
2					(2½) 23.0		
4	30.195	31.3	23.0	18.9		18 ct.	0
9							

Max.
Min. (read at 2½ P.M.) 15.0
Solar Thermometer (read at 4½ P.M.) 100.7

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1869phae.proj.368

MONDAY, MARCH 8, 1869.

	Barm.	Att.	Dry	Wet	No. 4	Wind	Clouds
7					19.3		
~~8~~							
10							
2					33.1		
4	30.072	33.3	31.5	26.4		Jest.	1 cir. Stratocum.
9					27.1		

Max. 33.1
Min. (read at 2 P.M.) 14.9
Solar Thermometer (read at 5 P.M.) 104.0

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TUESDAY, MARCH 9, 1869.

	Barom.	Att.	Dry	Wet	No. 4	Wind	Clouds
7					23.5		
10							
2							
4							
9							

Max.
Min.

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WEDNESDAY, MARCH 10, 1869.

	Barom.	Att.	Dry	Wet	No. 4	Wind	Clouds
7					33·0		
10							
2							
4							
9					47·0		

Max. 47·5
Min.

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THURSDAY, MARCH 11, 1869.

	Barom.	Att.	Dry	Wet	No. 4	Wind	Clouds
7					31·5		
10							
2							
4							
9					35·0		

Max. 45·0
Min. 23·5

No1 Rain 44·0 No2 Melted Snow Rain 44·0
No3 Rain 67·0 oz

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FRIDAY, MARCH 12, 1869.

	Barom.	Att.	Dry	Wet	No. 4	Wind	Clouds
7					25·0		
10							
2							
4							
9					30·0		

Max. 34·0
Min. 23·5

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SATURDAY, MARCH 13, 1869.

	Barom.	Att.	Dry	Wet	No. 4	Wind	Clouds
7					32·0		
10							
2							
4							
9					35·0		

Max. 40
Min. 28·5

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1869phae.proj..398

SUNDAY, MARCH 14, 1869.

	Barom.	Att.	Dry	Wet	No. 4	Wind	Clouds
7					29·0		
10							
2							
4							
9							

Max.
Min.

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MONDAY, MARCH 15, 1869.

	Barom.	Att.	Dry	Wet	No. 4	Wind	Clouds
7					26·0		
10							
2							
4	29.916	37·0	28·0	26·8		ENE	snowing
9					22·0		

Max. 48·0
Min. 25·0

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TUESDAY, MARCH 16, 1869.

	Barom.	Att.	Dry	Wet	No. 4	Wind	Clouds
7					10.0		
10	30.222	30.0	20.5	20.0			
2					26.6		
4	30.208	36.8	26.1	21.0		7	0
9					18.5		

Max. 26.5
Min. 7.0
Solar Therm. (read at 4½ P.M.) 126.0

No 1 Melted Snow 27.5 No 3 50.0 gr

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1869phae.proj . 368

WEDNESDAY, MARCH 17, 1869.

	Barom.	Att. Dry	Wet	No. 4	Wind	Clouds
7				12·5		
10	30·100	29·5	26·0	22·0		
2				31·5		
4	30.025	37.4	31.6	25.4	Nest.	1 air cirro. cum.
9				24·0		

Max. 32·0
Min. 10·0
Solar Therm. (read at 4½ P.M.) 118·3

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THURSDAY, MARCH 18, 1869.

	Barom.	Att.	Dry	Wet	No. 4	Wind	Clouds
7					21.5		
10	30.040	31.0	27.0	23.2			
2					29.9		
4	30.119	37.1	28.8	24.0		11 et 4	cirr.
9					24.0		

Max. 30.0
Min. 16.5
Solar Therm. (at 4 P.M.) 117.8

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FRIDAY, MARCH 19, 1869.

	Barom.	Att. Dry	Wet	No. 4	Wind	Clouds
7				19·0		
10	30·119	32·5	32·0	27·3		
2				36.7		
4	30.078	39.9	37.2	30.8	7 cat	9 st.
9				33·0		

Max. 37·0
Min. 17·0
Solar Therm. (read at 4 P. M.) 102.1

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SATURDAY, MARCH 20, 1869.

	Barom.	Att.	Dry	Wet	No. 4	Wind	Clouds
7					32·5		
10	29·490	35·0	34·0	33·5			Snowing
2					36·0		
4	29·467	37·0	36·4	34·8		5 est.	10 St.
9							

Max. 36·0
Min. 28·5
Solar Therm. (read at 4½ P.M.) 71·2

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1869phae.proj..368

SUNDAY, MARCH 21, 1869.

	Barom.	Att.	Dry	Wet	No. 4	Wind	Clouds
7					15.3		
10							
2					19.1		
4	30.110	33.3	20.0	16.6		E.	0
9					15.0		

Max. 20.0
Min. (read at 2¾ P.M.) 12.6
Solar Therm. (read at 4½ P.M.) 104.8

Snow in gauge No. 3 melted and measured at 2½ P.M. Amount 24.0 ounces.
Gauge out of box. Surface exposed 12⅛ X 13 1/16 inches
This snow fell March 19—20.

Snow No 1 16.5 oz.

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MONDAY, MARCH 22, 1869.

	Barom.	Att.	Dry	Wet	No. 4	Wind	Clouds
7							
10							
2					30.2		
4	30.444	36.1	28.7	25.2		6 est.	.8 cir.
9					24.5		

Max. 32.0
Min. (read at 2 P.M.) 9.8
Solar Therm (read at 4 P.M.) 99.0

Snow No 2 67.5 27

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TUESDAY, MARCH 23, 1869.

	Barom.	Att.	Dry	Wet	No. 4	Wind	Clouds
7					31.5		
				At 11¼			
10	29.987	33.2	33.9	33.4		10 est.	10 rain & snow
2					36.2		
4	29.198	34.1	38.1	38.1		9 est.	10 rain
9					24.3		

Max. 39.0
Min. (read at 2 P.M.) 23.6
Solar Therm (read at 5 P.M.) 63.8

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WEDNESDAY, MARCH 24, 1869.

	Barom.	Att.	Dry	Wet	No. 4	Wind	Clouds
7					31·0		
10		34·0	38·0	33·2			
2					43.1		
4	30.048	39.9	41.2	34·8		12 ct.	7
9					22·0		

Max. 43·5
Min. 29·0
Solar Phenomena (read at 4 P.M.) 112.6

Rain-gauge No. 3 (measured at 1 P.M.) 27·0 grms
This is from snow and rain which fell from about 9 A.M. to 4 P.M. on March 23

Not Measured 49·0 oz

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THURSDAY, MARCH 25, 1869.

	Barom.	Att.	Dry	Wet	No. 4	Wind	Clouds
7					26		
10							
2					37.0		
4	30.380	40.1	37.2	30.2		6 east.	0 cirst. in W.
9							

Max.
Min. 24.7 (read at 2 P.M.)
Solar Therm. (read at 4 P.M.) 113.1

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FRIDAY, MARCH 26, 1869.

	Barom.	Att.	Dry	Wet	No. 4	Wind	Clouds
7					29.0		
10							
2					42.3		
4	30,222	38.5	38.3	35.0		10 est.	10 raining
9					38.0		

Max. 43.0
Min. (read at 2 P.M.) 26.3
Solar Therm. (read at 5 P.M.) 97.7

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SATURDAY, MARCH 27, 1869.

	Barom.	Att.	Dry	Wet	No. 4	Wind	Clouds
7					40.0		
10							
2					57.1		
4	29.889	48.3	56.1	48.9		12 est.	1 cum. cir.
9					at 9½ 42.8		

Max. (read at 9½ P.M.) 57.9
Min. (read at 2 P.M.) 35.3
Solar Therm. (read at 2 P.M.) 123.9

Rain Gauge No. 1 36.0 No. 2 72.5 oz

Raingauge No. 3 examined at 3¾ P.M. & found to contain 20 ounces of water from rain which fell March 26 from about noon to 8 P.M.

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SUNDAY, MARCH 28, 1869.

	Barom.	Att.	Dry	Wet	No. 4	Wind	Clouds
7					39.5		
10							
2							
4	30.110	48.4	49.1	42.9		5 est.	0 cir. cirrost.
9							

Max. (read at 2 P.M. March 29) 52.8
Min. (read at 4 P.M.) 37.6
Solar Therm. (read at 4 P.M.) 126.0

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MONDAY, MARCH 29, 1869.

	Barom.	Att.	Dry	Wet	Nat	Wind	Clouds
7					38.5		
10							
2					38.9		
4	29.869	42.8	37.3	37.2		12 est.	10 raining
9					38.5		

Max. 39.7
Min. 33.5 (read at 2 P.M.)
S.T. (at 5) 83.24

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TUESDAY, MARCH 30, 1869.

	Barom.	Att.	Dry	Wet	No. 4	Wind	Clouds
7					38.0		
10							
2					38.0		
4	29.268	42.4	38.0	37.1		13 est.	10 raining
9					37.5		

Max. 40.5
Min. (read at 2 P.M.) 36.6
I. I. (at 5) 35.6

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WEDNESDAY, MARCH 31, 1869.

	Barom.	Att.	Dry	Wet	No. 4	Wind	Cloud
7					36.5		
10							
2					41.8		
4	29.514	43.2	40.0	37.8		15 est.	10 St. nimbus & Cirro-cumulus
9					36.0		

Max. 41.8
Min. (read at 2 P.M.) 35.0
S. T. (at 4 P.M.) 65.6

2.6 ounces water found in gauge No. 2 at 3 P.M.

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THURSDAY, APRIL 1, 1869.

	Barom.	Att.	Dry	Wet	No. 4	Wind	Clouds
7					33.0		
10½	29.691	42.4	39.9	34.6		9 est	8 st. cir-st. cir.
2					43.4		
4	29.717	44.7	43.3	37.2		6 est.	5 cir-str.
9					35.5		

Max. 44.2
Min. (read at 11 A.M.) 32.2
Solar Therm. (read at 4 P.M.) 111.0

121 1/8 ounces water in gauge No. 1 at 11 A.M. from rain of March 31 (?)
1 1/2 ounces water in gauge No. 2 at 11 A.M. from rain of March 31 after 3 P.M.
74 ounces water in gauge No. 3 at 11 A.M. from rain of March 29, 30, 31.

Anemometer has lost one of its arms.

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FRIDAY, APRIL 2, 1869.

	Barom.	Att.	Dry	Wet	No. 4	Wind	Clouds
7					34.3		
10½	29.836	41.5	46.6	41.8		4 est.	4 st. cir.-st. larg
2					45.8		
4	29.792	46.0	43.8	39.3		6 est.	9 st. cir.-st.
9					42.4		

Max. 49.0
Min. 31.8
Solar Therm. (at 4) 117.8

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SATURDAY, APRIL 3, 1869.

H	Barom.	Att.	Dry	Wet	No. 4	Wind	Clouds
7					36.5		
11 ~~12~~	29.612	43.0	42.5	40.1		W.S.W 8 est.	9 st. cu-st.
2					44.9		
4	29.642	45.8	40.3	34.0		14 est.	0 cum.
10 ~~9~~					28.2		

Max. 46.1
Min. 35.7
Solar Therm. 107.6

27½ ounces water in gauge No. 1 at 11 A.M. from rain of previous night.
59 " " " " " 2 " " " " " "
16¾ ounces water in gauge No. 3, at 11 A.M. from rain of preceding night.

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SUNDAY, APRIL 4, 1869.

	Barom.	Att.	Dry	Wet	No. 4	Wind	Clouds
7					26·8		
10							
2					36.7		
2½							
4	29.671	42.1	36.2°	29.7		39 ESE	8 St. cum. cum-st.
9					31·5		

Max. 47·5
Min. (read at 2½ P. Mean) 24.7
Solar Therm. 112.6

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MONDAY, APRIL 5, 1869.

	Barom.	Att.	Dry	Wet	No. 4	Wind	Clouds
7							
10							
2					48.4		
4	29.551	42.9	49.9	38.9		Est.	Cirri. amr. cir.
9							

Max.
Min. (not set April 4; minimum of last night probably a little higher than that of the night before)
Solar Therm. 115.9

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TUESDAY, APRIL 6, 1869.

	Barom.	Att.	Dry	Wet	No. 4	Wind	Clouds
7					40.0		
10							
2					57.4		
4	29.578	46.8	51.5	42.2		13 est.	stricum. 6
9					35.0.		

Max. 55.0
Min. (read at 2 P.M.) 36.1
Solar Therm. 122.7

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WEDNESDAY, APRIL 7, 1869.

	Barom.	Att.	Dry	Wet	Hum	Wind	Clouds
7					34.7		
10							
2					45.3		
4	29.746	46.3	45.3	42.4		2 ct.	10 st. cum. cu-st. some clear sky in N. Clouds rather thin - a little rain
9					36.5		

Max. 47.5
Min. 32.4 (2 P.M.)
Solar Therm. 118.0

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THURSDAY, APRIL 8, 1869.

	Barom.	Att.	Dry	Wet	No. 4	Wind	Clouds	
7					34.5			
10								
2					48.5			
4	29.700	47.2	48.4	38.9		8 est.	10	cum. st. cir.-st.
9					36.0			

Max. 50.2
Min. 32.1 (read at 2 P.Mo.)
Polar Therm. 126.9

Gauges examined at 11½ A.Mo. for rain which fell April 7 after 4 P.Mo. and during the following night.
No. 1 20 ounces No. 2 40½ ounces No. 3 11½ ounces.

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FRIDAY, APRIL 9, 1869.

	Barom.	Att.	Dry	Wet	No. 4	Wind	Clouds
7					33.5		
10	29.823	41.6	41.2	34.7		7 est.	1 cum.
2					45.4		
4	29.811	46.1	42.9	35.0		12 est.	10 cum. st.
~~10~~ 9					35.0		

Max. 47.0 (read at 10 P.M.)
Min. 29.0
Solar Therm. 120.7

Fine aurora at 10 P.M. with strong vertical streamers, and very dark sky under the arch. There have been several evenings lately on which some auroral light has appeared.

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SATURDAY, APRIL 10, 1869.

	Barom.	Att.	Dry	Wet	No. 4	Wind	Clouds
7					36.4		
10							
2					46.3		
4	29.884	48.4	44.8	35.5		6 est.	2 cum.
9					34.6		

Max. 47.0
Min. (reg. at 2 P.M.) 30.4
Polar Therm. 117.8

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SUNDAY, APRIL 11, 1869.

	Barom.	Att.	Dry	Wet	No. 4	Wind	Clouds
7					34.5		
10							
2 3/4					47.2		
4	29.860	46.2	43.2	37.2		Sath.	10 Cum. St.
9					36.5		

Max. 47.5
Min. 28.9 (read at 2 3/4 P.M.)
Solar Therm. 127.0

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MONDAY, APRIL 12, 1869.

	Barom.	Att.	Dry	Wet	No. 4	Wind	Clouds
7					36.5		
10	29.851	41.7	45.5	37.3		5 st.	5 cir. cirst. cum.
2					44.1		
4	29.850	45.4	42.8	37.1		6 st.	10 st.
9					38.0		

Max. 45.5
Min. (clad at 2 P.M.) 29.8
Solar Therm. 117.3

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TUESDAY, APRIL 13, 1869.

	Barom.	Att.	Dry	Wet	No. 4	Wind	Clouds
7					35.7		
10							
2					41.5		
4	29.871	44.6	40.0	36.8		3 ct.	10 st. nimb. cum.
9					34.0		

Max. 44.5
Min. (read at 2 P.M. — probably not set yesterday) 29.8
Solar Therm. 98.2

Rain gauges examined at 1 P.M. for water from snow (and a little rain) which fell from 11 A.M. to 12½ P.M.
No. 1 ¾ of an ounce. No. 2 3½ ounces. No. 3 1 ounce.

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WEDNESDAY, APRIL 14, 1869.

	Barom.	Att.	Dry	Wet	No. 4	Wind	Clouds
7					31.0		
10	29.973	40.2	40.2	37.4		4 est	10 cum. st. cum.-st. cirost.
2					41.4		
4	29.987	43.7	38.5	37.0		2 est	10 st. cum-st cir.
9					36.0		

Max. 42.4
Min. 37.6
Solar Therm. 114.0

Gauges examined at 11 A.M. for water mostly from snow since 4 P.M. April 13. Probably little or none fell after 6 P.M.

No. 1 3¼ inches No. 2 11 inches No. 3 2½ inches

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THURSDAY, APRIL 15, 1869.

	Barom.	Att.	Dry	Wet	No. 4	Wind	Clouds
7					35.0		
10							
2					50.6		
4	30.126	51.1	50.6	38.9		9 wt.	0 cir.-st.
9					42.1		

Max. 51.3
Min. (read at 2 P.M.) 31.4
Solar Therm. 123.1

Remarkable aurora all the evening till midnight when clouds partly cut off the view. Streamers from all quarters converging finally to a point S.E. of the zenith.

Gauges examined at 1 P.M. for water from snow, sleet and rain which fell between 12 M. and 6 P.M. on April 14.

No. 1 3½ ounces No. 2 8½ ounces No. 3 2 ounces

The morning of April 15 was clear with fresh N.W. wind and the wallet must have evaporated a good deal

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FRIDAY, APRIL 16, 1869.

	Barom.	Att.	Dry	Wet	No. 4	Wind	Clouds
7					38.6		
10	30.163	44.2	54.9	43.6		1 est.	0 cir. cir-st.
2					64.9		
4	30.041	50.6	65.4	50.9		5 est.	1 cir-st. haze
9					52.6		

Max. 61.8
Min. 34.7
Solar Therm. 126.3

Moderate aurora in the evening noticed about 9 P. M.

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SATURDAY, APRIL 17, 1869.

	Barom.	Att.	Dry	Wet	No. 4	Wind	Clouds
7					46.5		
10							
2					62.6		
4	29.700	51.8	51.3	47.8		13 est.	10 str. nim. raining
9½					46.5		

Max. 68.0
Min. (read at 2 P.M.) 43.9
Solar Therm. 123.7

Rain gauges examined at 4¾ P.M. for rain between 2 and 4½ P.M.
No. 1 ¼ of an ounce No. 2 1½ ounces No. 3 1⅕ [illegible]

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SUNDAY, APRIL 18, 1869.

	Barom.	Att.	Dry	Wet	No. 4	Wind	Clouds
7					53.7		
10							
2							
4	29.900	55.4	69.1	54.7		8 est.	1 cirrostratus
9							

Max.
Min (read at 4 P.M.) 42.5
Solar Therm. 127.0

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MONDAY, APRIL 19, 1869.

	Barom.	Att.	Dry	Wet	No. 4	Wind	Clouds
7							
10							
2½					59.0		
4	29.769	57.2	52.2	47.7		Nest.	6 st. cir-st.
9					43.4		

Max. 69.5
Min. (read at 2½ P.M.) 49.4
Solar Therm. 118.3

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TUESDAY, APRIL 20, 1869.

	Barom.	Att.	Dry	Wet	No. 4	Wind	Clouds
7					45.0		
10							
10½	29.852	49.5	50.6	48.6		2 est.	10 st. (thin)
2					55.8		
4	29.780	53.5	65.8	61.3		7 est.	9 st.
9					60.0		

Max. 67.3
Min. 49.7
Polar Therm. 115.1

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WEDNESDAY, APRIL 21, 1869.

	Barom.	Att.	Dry	Wet	No. 4	Wind	Clouds
7					58.0		
10							
2					63.8		
4	29.538	58.1	59.8	52.6		West	9 St. cu-st.
9					56.0		

Max. 63.8
Min. (read at 2 P.M.) 50.2
Solar Therm. 129.5

Rain gauges examined at 1½ P.M. for water from rain fallen between 7 P.M. April 20 & 12 M. April 21.
No. 1 30½ ounces No. 2 6 ounces No. 3 24 ounces

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THURSDAY, APRIL 22, 1869.

	Barom.	Att.	Dry	Wet	No. 4	Wind	Clouds
7					44.0		
10	29.858	51.0	47.9	40.7		15 est.	9 st. cu. st
2					55.2		
4	29.950	54.9	54.1	43.6		15 est.	6 cum.
9					44.7		

Max. 51.6
Min. 42.0
Solar Therm. 125.9

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FRIDAY, APRIL 23, 1869.

	Barom.	Att.	Dry	Wet	No. 4	Wind	Clouds
7					44.0		
10							
2					50.9		
4	30.194	57.9	53,1	45,3		West.	0 cir.-st. haze
9					48.5		

Max. 54.6
Min. (read at 2 P.M.) 38.6
Solar Therm. 118.1

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SATURDAY, APRIL 24, 1869.

	Barom.	Att.	Dry	Wet	No. 4	Wind	Clouds
7					44.0		
10							
2					68.5		
4	29.85 Z	57.4	54.0	51.2		1 calt.	10 mostly thin st. cum- cumost. cirst hazy
9					49.0		

Max. 68.5
Min. (read at 2 P.M.) 41.9
Polar Therm. 130.0

Rain gauges examined at 12½ P.M. April 24 water from rain fallen after 7 P.M. April 23 and during the night.
No. 1 18½ ounces . No. 2 36½ ounces No. 3 9½ ounces

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SUNDAY, APRIL 25, 1869.

	Barom.	Att.	Dry	Wet	No. 4	Wind	Clouds
7					44.0		
10							
2							
4	29.793	55.8	55.0	46.0		Light	cum. cumst cir. cirst
9					46.0		

Max. 57.0
Min. (read at 4 P.M.) 43.8
Solar Therm. 125.7

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MONDAY, APRIL 26, 1869.

	Barom.	Att.	Dry	Wet.	No. 4	Wind	Clouds
7							
10							
2					68.9		
4	29.702	57.3	69.6	53.7		8 est.	6 drift cum.
9					61.7		

Max. 70.3
Min. (read at 2 P.M.) 42.8
Solar Therm. 144.6

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TUESDAY, APRIL 27, 1869.

	Barom.	Att.	Dry	Wet	No. 4	Wind	Clouds
7					53.6		
10	29.989	55.2	61.3	46.4		6 est.	9 st. thin
2					55.1		
4	29.930	58.4	53.4	44.0		4 est.	5 cir st cir ~~Nage~~ haze thin
9					46.5		

May. 56.3
Min. 45.6
Solar Therm. 129.7

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WEDNESDAY, APRIL 28, 1869.

	Barom.	Att.	Dry	Wet	No. 4	Wind	Clouds
7					47.0		
~~10~~							
2					53.8		
4	29.759	57.2	53.1	46.6		2 est.	3 st. cum. haze
9					44.6		

Max. 56.6
Min. (and at 2 P.M.) 45.5
Polar Therm. 125.4

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THURSDAY, APRIL 29, 1869.

	Barom.	Att.	Dry	Wet	No. 4	Wind	Clouds
7					44.8		
10	29.766	50.7	42.5	36.5		10 est.	10 st.
2					37.7		
4	29.803	47.9	40.2	35.7		6 est	10 st.
9					36.4		

Max. 47.3 (?)
Min. 42.3 the presept temperature indicated
Solar Therm. 98.0 probably at 4 P.M. April 28

Gauges examined at 4 P.M. for rain and snow between 11 A.M. & 3 P.M.
No. 1 1 ounce No. 2 5 1/4 ounces No. 3 3/4 of 1 ounce

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FRIDAY, APRIL 30, 1869.

	Barom.	Att.	Dry	Wet	North	Wind	Clouds
7					35.0		
10	29.988	45.0	47.0	40.8		1 est.	4 cum.
2					51.5		
4	29.935	51.6	49.9	42.1		2 est.	1 cum.
9					42.2		

Max. 54.5
Min. 39.7
Solar Therm. 118.9

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SATURDAY, MAY 1, 1869.

	Barom.	Att.	Dry	Wet	No. 4	Wind	Clouds
7					43.0		
10							
2					46.6		
4	29.903	48.6	44.6	40.9		1 ct.	10 st. nim.
9					35.0		

Max. 48.0
Min. (Read at 2 P.M.) 33.3
Solar Therm. 94.0

Very slight frost and Sleet at 8 o'clock P.M.

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1869phae.proj . 368

SUNDAY, MAY 2, 1869.

	Baron.	Att.	Dry	Wet	No. 4	Wind	Clouds
7					38·0		
10							
2							
3					39.2		
4	29.167	43.6	38.2	38.2		13 est.	10 nimbus
9					38·2		

Max. 39·2
Min. (read at 3 P.M.) 35.2
Solar Therm. 51.0

Rain gauges examined at 3 P.M. for rain fallen in the last 24 hours.
No. 1. 72 ounces No. 2 132 ounces No. 3 137 ounces

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MONDAY, MAY 3, 1869.

	Barom.	Att.	Dry	Wet	No. 4	Wind	Clouds
7					39.0		
10							
2					49.5		
4	29.324	48.9	48.4	41.0		12 et.	10 et. cum.st cum.
9					42.0		

Max. 50.5
Min. (read at 2 P.M.) 36.0
Solar Therm. 105.0

Rain gauges examined at 1½ P.M. for rain fallen since 3 P.M. May 2 — probably little or none after midnight.
No. 1, 23½ ounces No. 2 78 ounces No. 3 21¼ ounces

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TUESDAY, MAY 4, 1869.

	Barom.	Att.	Dry	Wet	No. 4	Wind	Clouds
7					39.8		
10							
2					42.6		
4	29.466	47.1	41.0	39.6		8 est.	10 nim. (raining)
9					41.5		

Max. 48.0
Min. (read at 2 P.M.) 35.4
Solar Therm. 97.7

Gauges examined at 6 P.M. for rain fallen between 11 A.M. & 5 P.M.
No. 1 $6\frac{3}{4}$ ounces No. 2 15 ounces No. 3 5 ounces

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WEDNESDAY, MAY 5, 1869.

	Barom.	Att.	Dry	Wet	No. 4	Wind	Cloud
7					43.5		
10							
2					50.5		
4	29.869	49.6	50.3	44.6		3 ost.	6 th cum.
9					43.8		

Max, 50.9
Min, (read at 2 P.M.) 39.8
Solar Therm, 120.7

Gauges examined at 11¼ A.M. for rain fallen since midnight.
No. 1 ½ ounce No. 2 2½ ounces No. 3 2½ ounce

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THURSDAY, MAY 6, 1869.

	Barom.	Att.	Dry	Wet	No. 4	Wind	Clouds
7					42.5		
10	30.003	47.7	50.8	45.0		6 est	10 St. cum.
2					49.4		
4	30.006	50.0	47.5	41.7		7 est.	2 St.
9					40.9		

Max. 51.5
Min. 40.7
Solar Therm. 117.2

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FRIDAY, MAY 7, 1869.

	Barom.	Att.	Dry	Wet	No. 4	Wind	Clouds
7					42.0		
10							
2					51.6		
4	29.987	52.4	49.9	42.3		4 ct.	2 cir. st
9½					42.3		

Max. (at 9½) 54.4
Min (read at 2 P.M.) 36.0
Solar Therm. 119.1

Moderate aurora in the evening
about 9 P.M.

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SATURDAY, MAY 8, 1869.

	Barom.	Att.	Dry	Wet	No. 4	Wind	Clouds
7					39.0		
10	29.990	47.4	52.0	46.0		1 est.	8 cirro-strato haze
2					56.2		
4	29.943	53.6	53.5	44.9		3 est.	9 lt. cirro-st. haze
9							

Max. 57.0
Min. 33.8
Solar Therm. 119.7

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SUNDAY, MAY 9, 1869.

	Barom.	Att.	Dry	Wet	No. 4	Wind	Clouds
7					47.0		
10							
2							
4	29.716	56.0	56.8	49.3		3 est.	5 st. cirri-st. cumu.
9					52.5		

Max, 63.0
Min, (read at 4 P.M.) 42.2
Solar Therm. 125.4

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MONDAY, MAY 10, 1869.

	Barom.	Att.	Dry	Wet	No. 4	Wind	Clouds
7					48.0		
10							
2					60.4		
4	29.836	57.1	62.6	50.4		4 est.	1 cum.
9					54.6		

Max. 62.8
Min. (read at 2 P.M.) 43.9
Solar Therm. 123.8

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TUESDAY, MAY 11, 1869.

	Barom.	Att.	Dry	Wet	No. 4	Wind	Clouds
7					53.4		
10							
12					73.1		
4	29.789	60.4	75.0	60.7		12 est.	1 cir. cst haze
9					63.6		

Max. 77.1
Min. (read at 4 P.M.) 46.4
Solar Therm. 128.3

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WEDNESDAY, MAY 12, 1869.

	Barom.	Att.	Dry	Wet	No. 4	Wind	Clouds	
7					60.5			
10	29.830	60.6	78.7	67.2		2 est.	0	haze
2					85.0			
4	29.780	66.3	81.9	64.0		13 est.	0	cirro haze
9					62.6			

Max. 85.7
Min. 57.3
Polar Therm. 140.3
120.4

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THURSDAY, MAY 13, 1869.

	Barom.	Att.	Dry	Wet	No. 4	Wind	Clouds
7					60.8		
10							
2					55.3		
4	29.833	61.7	53.7	50.1		Heat.	Q st. cirst.
9					55.0		

Max. 60.0
Min. (read at 2 P.M.) 45.5
Solar Therm. 128.4

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FRIDAY, MAY 14, 1869.

	Barom.	Att.	Dry	Wet	No. 4	Wind	Clouds
7					57.0		
10							
2					64.1		
4	29.493	63.7	60.7	57.9		10 est.	8 st. cum.-st cir.-st.
9					52.0		

Max. 64.5
Min. (avgd at 2 P.M.) 52.0
Solar Therm. 131.6

Gauges examined at 1¼ P.M. for rain fallen during the night and before 9 A.M.

No. 1 4 ounces No. 2 10⅗ ounces No. 3 2½ ounces

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SATURDAY, MAY 15, 1869.

	Barom.	Att.	Dry	Wet	No. 4	Wind	Clouds
7					49.5		
10	29.428	55.8	54.5	53.5		0	10 nim. a little rain
2					63.9		
4	29.567	59.4	56.5	55.0		2 est.	10 raining nim. st, cumuli.
9					52.5		

Max. 64.0
Min. 48.6
Solar Therm. 129.2

Gauges examined at 3 P.M. for rain fall during the previous night and morning.

No. 1 12 3/4 ounces No. 2 43 1/2 ounces No. 3 18 1/2 ounces
Again at 6 1/2 P.M. 4 1/4 " 8 1/2 " 2 3/4 "

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SUNDAY, MAY 16, 1869.

	Barom.	Att.	Dry	Wet	No. 4	Wind	Clouds
7					57.0		
10							
2							
2 1/2					70.2		
4	29.502	61.3	64.6	58.4		5 est.	10 st. nim. beginning to rain
9					53.0		

Max. 72.4
Min. (good at 2½ P.M.) 50.4
Polar Therm. 136.9

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1869phae.proj_1368

MONDAY, MAY 17, 1869.

	Barom.	Att.	Dry	Wet	No. 4	Wind	Cloud
7							
10							
2							
4							
9							

Max, 63.6
Min, 43.0
Solar Therm. 123.8

Gauges examined at 6 P.M. for rain of previous evening. Much loss by evaporation in No 3.
No. 1 2½ ounces No. 2 8¾ ounces No. 3 ½ ounce

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TUESDAY, MAY 18, 1869.

	Barom.	Att.	Dry	Wet	No. 4	Wind	Clouds
7					51.6		
10	29.717	57.1	58.6	50.8		7 calm	9 st. cum.
2					63.8		
4	29.768	60.6	62.2	53.4		5 calm.	10 st. cum.
9					57.2		

Max. 64.0
Min. 47.4
Solar Therm. 121.6

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WEDNESDAY, MAY 19, 1869.

	Barom.	Att.	Dry	Wet	No. 4	Wind	Clouds
7					51.2		
10	29.818	57.8	53.0	49.8		6 est. E.	10 st.
2					57.9		
4	29.692	58.5	48.1	48.0		6 est. N.E.	10 nim. rain
9					45.7		

Max. 57.9
Min. 49.4
Solar Therm. 113.2

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THURSDAY, MAY 20, 1869.

	Barom.	Att.	Dry	Wet	No. 4	Wind	Clouds
7					47.0		
10	29.715	53.8	57.1	50.6		14 est. W	9 at. cum.-st.
2					63.4		
4	29.751	58.5	64.8	53.5		6 est W.	8 at. cum.
9½					55.2		

Max. 65.4 (at 9½)
Min. 43.3
Solar Therm. 133.9

Gauges examined at 10 A.M. for rain of previous afternoon and night.
No. 1 30 minims No. 2 98½ minims No. 3 35½ minims

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FRIDAY, MAY 21, 1869.

	Barom.	Att.	Dry	Wet	No. 4	Wind	Clouds
7					53.0		
10	29.925	57.8	59.8	50.0		10 ct NW	4 cum cumul cirr.
2					64.0		
4	29.852	61.0	63.9	53.0		1 ct NW	9 ct cum
9					57.4		

Max. 64.5
Mean 47.7
Solar Therm. 131.9

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SATURDAY, MAY 22, 1869.

	Barom.	Att.	Dry	Wet	No 4	Wind	Clouds
7					47.8		
10	29.766	53.5	47.6	45.2		8 est NE	10 st. cum.
2					56.9		
4	29.725	58.4	55.4	48.7		5 est. E	5 st. cirr. cum.
9 1/3					45.8		

Max. 58.7
Min. 42.2
Solar Therm. 127.3

Gauges examined at 9 P.M. for rain which began falling during the night
No. 1 5 1/2 ounces No. 2 30 1/4 ounces No. 3 8 1/2 ounces

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SUNDAY, MAY 23, 1869.

	Barom	Att.	Dry	Wet	No. 4	Wind	Cloud	
7								
10	29.887	52.9	57.0	46.3		0	1	uniform haze
2					61.5			
2½								
4	29.867	59.2	59.6	47.9		4 cst. E	0	haze not so thick as at 10 A.M.
9								

Max, (read at 8 A.M. May 24) 63.1 (above temperature at time of reading)
Min, 38.4
Solar Therm. 122.4

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MONDAY, MAY 24, 1869.

	Barom.	Att.	Dry	Wet	No. 4	Wind	Clouds
7					47.0		
10	29.966	55.9	62.5	53.6		1 est. E.	1 haze
2					62.7		
4	29.944	62.7	59.4	47.3		6 est. E.	3 haze
9					51.9		

Max. 67.8
Min. 47.9
Solar Therm. 124.6

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TUESDAY, MAY 25, 1869.

	Barom.	Att.	Dry	Wet	No. 4	Wind	Clouds
7					54.3		
10	29.900	57.7	72.0	62.0		0	0 cir. st. haze
2							
2 1/4					79.6		
4	29.824	64.9	79.0	63.0		0 not quite calm W.	2 cirst haze
9					68.4		

Max. 80.3
Min. 45.0
Solar Therm. 136.7
(118.)

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WEDNESDAY, MAY 26, 1869.

	Barom.	Att.	Dry	Wet	No. 4	Wind	Clouds
7					66.0		
10	29.769	64.4	78.1	65.8		0 not calm W	5 cirst. haze
2					84.0		
4	29.674	69.0	81.9	69.8		0 not calm W.	8 st. circum. cumist.
9					66.7		

Max. 84.3
Min. 58.0
Solar Therm. 140.8
113

A few drops of rain about 3 P.M.
Wind at times a little stronger

Thunder showers between 6 and 7 P.M. Gauges examined at 7½ P.M.
No. 1 7 ounces No. 2 6 ounces No. 3 6 ounces

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THURSDAY, MAY 27, 1869.

	Barom.	Att.	Dry	Wet	No. 4	Wind	Clouds
7					49.8		
10	30.091	58.2	53.9	43.9		1 est. N.W.	3 st.
2 1/4					62.0		
4	30.067	63.5	63.2	50.0		4 est. W.	5 st.
9					56.4		



Max. 67.2
Min. 46.6
Solar Therm. 132.9

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FRIDAY, MAY 28, 1869.

	Barom.	Att.	Dry	Wet	No. 4	Wind	Clouds
7					56.0		
10	30.230	60.0	64.7	55.7		1 wt E.	4 cirst cirro. haze
2					70.6		
4	30.131	64.8	66.4	55.0		9 wt S.	7 st. cir.st cir.-cum.
9					50.3		

Max. 71.3
Min. 49.0
Solar Therm. 135.8

May 29.

Gauges examined at 12½ P.M. for rain of previous evening and night; mostly before midnight; commenced forenoon
No. 1 24½ ounces, No. 2 49 ounces, No 3 17½ ounces
Shut shower about 2 P.M. ¾ ounce in No. 2 at 6½ P.M.
No measurable quantity in 1 and 3

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SATURDAY, MAY 29, 1869.

	Barom.	Att.	Dry	Wet	No. 4	Wind	Clouds
7					52.0		
10	29.976	57.4	56.3	54.7		O S.	10 st. nim.
2					58.3		
4	29.994	59.5	59.2	55.0		O W.	10 st.
9					57.0		

Max. 59.8
Min. 48.8
Solar Therm. 103.5

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SUNDAY, MAY 30, 1869.

	Barom.	Att.	Dry	Wet	No. 4	Wind	Clouds
7					57.5		
10	30.111	60.4	67.1	60.9		O E.	9 st. cirrost. cum.
2					66.8		
4	30.100	62.7	61.6	59.6		I W cat.	10 nim. raining
9							

Max. (read at 10 A.M. May 31) 70.6
Min. 50.3
Solar Therm. 122.5

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MONDAY, MAY 31, 1869.

	Barom.	Att.	Dry	Wet	No. 4	Wind	Clouds
7							
10	29.970	59.2	60.4	59.7		0	10 st.
2					70.4		
4	29.930	64.0	67.7	64.7		4 est. E.	8 st. cir-st. cum. st.
9					57.6		

Max. 73.3
Min. 55.0
Solar Therm. 124.0

Gauges examined at 11½ A.M. for rain fallen in several showers from about 10 A.M. May 30 to about 9 A.M. May 31

No. 1 $25\frac{3}{4}$ ounces No. 2 49 ounces No. 3 $17\frac{1}{2}$ ounces
No. 4 Amount $9\frac{3}{4}$ " $18\frac{3}{4}$ " 6 "

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TUESDAY, JUNE 1, 1869.

	Barm.	Att.	Dry	Wet	No. 4	Wind	Clouds
7							
10	29.941	63.3	76.3	70.2		6 cl. W.	7 st. cirst cumst.
2					80.2		
4							
4½	29.975	69.4	76.4	66.1		3 cl. W	8 st. cirst cum. cumst. cirrocum.
9					68.7		

Max. 80.3
Min. 56.5
Solar Therm. 142.4

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WEDNESDAY, JUNE 2, 1869.

	Barom.	Att.	Dry	Wet	No. 4	Wind	Clouds
7					64.5		
10	30.170	66.2	74.1	64.1		1 est. N. W.	6 st. high
2 1/2					76.0		
4	30.158	69.5	73.8	66.8		1 est. S. W.	10 st.
9							

Max.
Min. 69.6
Solar Therm. 119.4

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THURSDAY, JUNE 3, 1869.

	Barom.	Att.	Dry	Wet	No. 4	Wind	Clouds
7					63.4		
10	29.992	66.9	74.0	65.5		0	2 haze
						S.	
2					79.9		
4	30.16.9	74.9	76.9	64.5		3 W.	3 haze
						E.	
9					66.3		

Max. 80.5
Min. 59.9
Solar Therm. 146.5

Gauges examined at 8¼ A.M. for rain of the early part of the previous night. Water from No. 3 accidentally spilled.
No. 1 10½ ounces No. 2 20½ ounces

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FRIDAY, JUNE 4, 1869.

	Barom.	Att.	Dry	Wet	No. 4	Wind	Clouds
7					64.0		
10	30.118	68.8	75.1	68.1		2 st. S.	3 haze cir.-st.
2					79.3		
4	30.008	72.4	77.6	65.2		7 st. S.S.E.	0 cir.-st.
9					66.1		

Max. 79.7
Min. 57.3
Solar Therm. 135.4

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SATURDAY, JUNE 5, 1869.

	Barom.	Att.	Dry	Wet	No. 4	Wind	Clouds
7					61.4		
10	29.760	67.7	74.0	71.0		5 est. S. W.	10 st.
2					80.4		
4	29.672	71.5	78.2	72.0		13 est. S.	5 st. cum. haze
9 3/4					65.8		

Max. 81.3 (read at 9 3/4)
Min. 62.1
Solar Therm. 141.2

Gauges examined at 8 A.M. for rain during previous night:
No. 1 0 3/4 ounces No. 2 2 1/2 ounces No. 3 0 3/4 ounces

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SUNDAY, JUNE 6, 1869.

	Barom.	Att.	Dry	Wet	No. 4	Wind	Clouds
7					60.5		
10	30.084	65.5	63.0	52.3		12 est N.W.	3 cirrocum. cir-st.
2							
4	30.100	68.2	66.1	53.2		6 est N.W.	1 st. cum.
9					59.1		

Max. 67.7
Min. 56.7
Solar Therm. 135.7

Bright auroral arch at 10 P.M.

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MONDAY, JUNE 7, 1869.

	Barom.	Att.	Dry	Wet	No. 4	Wind	Clouds
7					54.0		
10	30.288	61.0	59.6	51.2		1 ct. N.W.	2 cir. st. cir.-st. cum.
2½					59.6		
4	30.229	65.7	60.7	51.0		4 ct. E.	3 large st. cum.-st.
9					53.3		

Max. 63.8
Min. 45.7
Solar Therm. 134.4

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TUESDAY, JUNE 8, 1869.

	Barom.	Att.	Dry	Wet	No. 4	Wind	Clouds
7				~~51.3~~	51.3		
10	30.150	60.9	59.5	52.7		5 est. E.	10 st.
2				∅	55.6		
4	30.172	62.0	54.1	51.1		5 est.	10 nim. raining
9½					49.5		

Max. 63.4 (read at 9½)
Min. 43.9
Solar Therm. 119.2

Rain for a little while in the afternoon! Quantity too small for measurement.

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WEDNESDAY, JUNE 9, 1869.

	Barom.	Att.	Dry	Wet	No. 4	Wind	Clouds
7					51.3		
10	30.348	59.4	62.3	52.1		1 st. N.W.	0 cum. haze
2					64.1		
4	30.254	64.2	65.0	56.0		2 st. E.	3 st. cum-st. cum. haze
9					55.4		

Max. 69.2
Mean 45.3
Solar Therm. 133.9

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1869phae.proj.:368

THURSDAY, JUNE 10, 1869.

	Barom.	Att.	Dry	Wet	No. 4	Wind	Clouds
7					51.5		
10	30.162	60.5	65.6	55.7		1 pt. W.	5 at high
2					70.2		
3 3/4	30.058	64.5	68.2	55.1		12 pt S.	10 at cum.
9					58.4		

Max. 71.4
Min. 45.5
Solar Therm. 132.2

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FRIDAY, JUNE 11, 1869.

	Barom.	Att.	Dry	Wet	No. 4	Wind	Clouds
7					54.0		
10							
2							
4							
9							

Max. (read at 2 P.M. June 12) 72.1
Min.
Solar Therm.

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1869phae_proj..368

SATURDAY, JUNE 12, 1869.

	Barom.	Att.	Dry	Wet	No. 4	Wind	Clouds
7					54.2		
10							
2					63.9		
4	29.882	63.4	65.0	55.1		6 ~~Et.~~ W.	2 cum. st.
9					56.8		

Max. 66.2
Min. (read at 2 P.M.) 46.9
Solar Therm. 137.7

Gauges examined at 2 P.M. for rain from showers since June 10. Some loss no doubt from evaporation.
No. 1 2½ ounces No. 2 9 ounces No. 3. 1¾ ounces

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1869phae.proj..368

SUNDAY, JUNE 13, 1869.

	Barom.	Att.	Dry	Wet	No. 4	Wind	Clouds
7					55.7		
10	29.983	59.1	65.5	61.8		3 est. E.	10 St.
2					74.4		
4	29.907	64.1	72.6	63.2		6 est. S.E.	7 St. Cir. St. Cirrum. all thin
9					66.8		

Max. 75.2
Min. (read at 2 P.M.) 48.0
Solar Therm. 131.2

Gauges examined at 10 A.M. for rain fallen between 9 & 10 A.M.
No. 1 $0\frac{3}{4}$ ounces No. 2 2 ounces No. 3 $0\frac{3}{4}$ ounces

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1869phae.proj..368

MONDAY, JUNE 14, 1869.

	Barom.	Att.	Dry	Wet	No. 4.	Wind	Clouds
7							
10	29.674	64.8	67.3	66.3		10 est. N. W.	10 raining
2					74.2		
4	29.620	68.7	70.2	68.4		9 est. S.	10 raining
9					67.3		

Max. 77.8
Min. 63.8
Solar Therm. 131.0

Gauges examined at 6½ P.M. for rain from showers during the day.
No. 1 9 ounces No. 2 18.½ ounces No. 3 5.4 ounces

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1869phae.proj . 368

TUESDAY, JUNE 15, 1869.

	Barom.	Att.	Dry	Wet	No. 4	Wind	Clouds
7					67.0		
10	29.680	66.3	68.3	66.7		1 ct. W	10 St. cum. a little rain
2							
4							
9					64.7		

Max. 74.7
Min. 64.7
Solar Therm. 117.7 (read at 7½ P.M.)

Gauges examined at 10¾ A.M. for rain from showers of night and morning.
No. 1 1 ounce No. 2 2 ounces No. 3 0½ ounce
A few drops of rain later in the day; too little for measurement.

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1869phae_proj_0368

WEDNESDAY, JUNE 16, 1869.

	Barom.	Att.	Dry	Wet	No. 4	Wind	Clouds
7					58.4		
10	29.935	64.9	66.7	57.4		9 est. W.	3 cum. st.
2							
2½					70.0		
4	29.928	68.2	68.9	58.4		9 est. @ W.	9 st. cum.
9					58.5		

Max. 71.2
Min. 52.6
Solar Therm. 135.0

A shower for five minute in the afternoon! No measurable quantity of rain.

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1869phae.proj . . 368

THURSDAY, JUNE 17, 1869.

	Barom.	Att.	Dry	Wet	No. 4	Wind	Clouds
7					59.0		1
10	30.150	63.6	66.7	57.0		11 st. W.N.W	0 cum.
2½					73.5		
4	30.124	68.0	72.4	58.9		10 st. W.	6 cum. st. haze
9¼					62.7		1

Max. 74.6
Min. 52.0
Solar Therm. 137.7

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1869phae.proj...368

FRIDAY, JUNE 18, 1869.

	Barom.	Att.	Dry	Wet	No. 4	Wind	Clouds
7					60.7		
10	30.176	65.1	69.2	59.5		5 st. E.	10 st. cirrh.
2					68.0		
4	30.037	69.2	77.2	67.5		12 st. S.W.	5 st. cirr.
9					66.8		

Max. 77.6
Min. 52.5
Solar Therm. 129.5

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SATURDAY, JUNE 19, 1869.

	Barom.	Att.	Dry	Wet	No. 4	Wind.	Clouds
7					62.0		
10	29.949	68.4	75.2	68.3		3 est. W.	9 cir.-st. cum.-st. cir.-cum cir.
2					79.1		
4							
9					63.9		

Max. 79.5
Min. 58.7
Solar Therm. (read at 7¾ P.M.) 139.0

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1869phae.proj..368

SUNDAY, JUNE 20, 1869.

	Barom.	Att.	Dry	Wet	No. 4	Wind	Clouds
7					62.0		
10	30.029	66.4	69.0	61.0		1 est. E.	1.0 st.
2							
2½					63.2		
4	29.922	65.8	63.4	61.6		8 est. E.	10 st. nim
9					62.0		

Max. 73.6
Min. 53.1
Solar Therm.. 126.2

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MONDAY, JUNE 21, 1869.

	Barom.	Att.	Dry	Wet	No. 4	Wind	Clouds
7							
10	29.839	67.5	72.5	66.8		13 est. N.N.W.	7 st. cum. cirr.
2					67.8		
4	29.907	69.5	62.0	58.6		9 est. E.	10 st. cir. cum.
9							
10					56.4		

Max. (read at 10 P.M.) 73.5
Min. 49.5
Solar Therm. 138.7

Gauges examined at 8 A.M. for rain of previous day and night.
No. 1, 24 3/4 ounces No. 2, 40.2 ounces No. 3, 14.6 ounces

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TUESDAY, JUNE 22, 1869.

	Barom.	Att.	Dry	Wet	No. 4	Wind	Clouds
7					55.0		
10	29.950	62.1	55.0	54.8		6 est. E.	10 min. rain
2					58.7		
4	29.949	62.9	56.9	56.0		6 est. N.E.	10 st. fog
9							

Max.
Min. 54.1
Solar Therm. 83.0

Gauges examined at 1¾ P.M. for rain from showers since 9 P.M. June 21
No. 1, 52½ ounces. No. 2, 109 ounces. No. 3, 40½ ounces.

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WEDNESDAY, JUNE 23, 1869.

	Barom.	Att. Dry	Wet	No. 4	Wind	Cloud
7				56.0		
10	30.036	61.0	63.9	61.0	2 st. S.E.	10 st.
2				69.8		
4	30.012	66.0	64.4	60.4	3 st. E.	10 st. 1 haze
9				64.8		

Max. 72.4
Min. 53.3
Solar Therm. 122.1

Gauges examined at 10½ A.M. for rain from showers between about 5 P.M. June 22 & 5 A.M. June 23.
No. 1, 4½ ounces. No. 2 12 ounces No. 3 4½ ounces.

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1869phae.proj,,368

THURSDAY, JUNE 24, 1869.

	Barom.	Att.	Dry	Wet	No. 4	Wind	Clouds
7					64.5		
10	30.140	65.5	72.0	62.5		1 est. W.	5 st. cum. haze
2					77.5		
4	30.062	71.5	76.8	64.3		5 est. W.	5 cum. st. haze
9					66.3		

Max. 78.2
Min. 60.4
Solar Therm. 140.0

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FRIDAY, JUNE 25, 1869.

	Barom.	Att.	Dry	Wet	No. 4	Wind	Clouds
7					67.3		
10	30.143	68.1	72.8	62.1		10 st. N.	2 st. cum Kaye
2					77.9		
4	30.149	72.3	76.8	61.0		5 st. N.N.W.	4 st. cum
9					66.6		

Max. 78.3
Min. 61.3
Solar Therm. 138.8

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1869phae.proj,,368

SATURDAY, JUNE 26, 1869.

	Barom.	Att.	Dry	Wet	No. 4.	Wind	Clouds
7					59.8		
10	30.148	64.7	57.0	57.9		1 est. N. N. E	10 min. a little
2					62.7		
4	30.057	65.5	63.1	61.9		0 est. W.	10 st. fog
9					63.3		

Max. 67.4
Min. 56.7
Solar Therm, 101.6

Heavy thunder shower during the forenoon
Gauge examined at 2 P. M.
No. 1, 21 3/4 ounces. No. 2, 50 1/4 ounces. No. 3, 19 1/2 ounces.

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SUNDAY, JUNE 27, 1869.

	Barom.	Att.	Dry	Wet	No. 4	Wind	Clouds
7					67.5		
10	30.023	66.4	67.8	64.8		1 est. E.	10 st. Fogs
2					63.5		
4	29.963	67.4	66.7	65.7		0 est. E.	10 mins. raining 0
9					61.2		

Max. 69.6
Min. 56.1
Solar Therm. 90.0

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1869phae.proj, . 368

MONDAY, JUNE 28, 1869.

	Barom.	Att.	Dry	Wet	Nat	Wind	Clouds
7							
10	29.932	64.4	65.6	64.9		O est. S.E	10 st. fog.
2					76.6		
4	29.824	69.6	75.3	72.0		5 est. S.	10 st. nim.
9					69.8		

Max. 79.0
Min. 59.8
Solar Therm. 117.2

Gauges examined at noon for rain of yesterday and this morning.
No. 1, 19 ounces. No. 2, 26½ ounces. No. 3, 10½ ounces

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TUESDAY, JUNE 29, 1869.

	Barom.	Att.	Dry	Wet	No. 4	Wind	Clouds
7					69.0		
10	29.868	69.2	77.0	68.9		14 est.	0 st. large
2							
4							
9							

Max. $\frac{85.3}{65.0}$ (read at 9 A.M. June 30, Temperature Here 80.5)
Min.
Solar Therm. (read at 9 A.M. June 30) 148.7

Gauges examined at 8¼ A.M. for rain of previous afternoon & evening ending about 10 P.M. No. 1, 26 ounces. No. 2, 36 ¾ ounces. No. 3, 13 ¼ ounces.

Remarkable aurora at 9 P.M. with high arch from E to W. beyond the streamers, in the North

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WEDNESDAY, JUNE 30, 1869.

	Barom.	Att.	Dry	Wet	No. 4	Wind	Clouds
7					72.0		
10	29.776	74.4	83.9	73.9		10 st. S.W.	2 large cum.
2					73.7		
4	29.682	73.6	64.8	63.5		0 Bft. N.W.	10 strm. at little rain
9					63.6		

Max. 83.9
Min. 65.0 (at yesterday?)
Solar Therm. 138.1

Rain in heavy showers beginning about noon.
Gauges examined at 9¼ P.M.
No. 1, 19½ ounces. No. 2, 48¼ ounces. No. 3, 19 ounces.

Some aurora light 9 to 10 P.M.

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1869phae.proj . . 368

THURSDAY, JULY 1, 1869.

	Barom.	Att.	Dry	Wet	No. 4	Wind	Clouds
7					55.3		
10	29.960	63.9	62.5	53.0		18 est. N.W.	1 haze
2					67.5		
4	29.964	67.3	65.6	55.1		10 est. W.	8 haze
9 19					55.6		

Max. 67.6 (read at 11 P.M.)
Min. 51.4
Solar Therm. 123.3

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FRIDAY, JULY 2, 1869.

	Barom.	Att.	Dry	Wet	No. 4	Wind	Clouds
7					57.0		
10	29.921	62.9	67.1	60.2		S ct. W.	4 hazy
2					73.5		
4							
9					64.3		

Max. 73.4
Min. 52.5
Solar Therm. (read at 7½ P.M.) 114.8

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1869phae.proj . . 368

SATURDAY, JULY 3, 1869.

	Barom.	Att.	Dry	Wet	No. 4	Wind	Clouds
7					64.5		
10	29.809	66.8	77.6	68.2		Calm S.W.	3 haze
2							
1							
4							
9					73.8		

Max. 83.5
Min. 56.1
Solar Therm. (read at 7½ P.M.) 135.0

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SUNDAY, JULY 4, 1869.

	Barom.	Att.	Dry	Wet	No. 4	Wind	Clouds
7					72.0		
10	29.648	72.7	82.7	74.5		12 est 3 st. cum. W	cum. th haze
2					84.7		
4	29.683	78.3	83.9	74.1		8 est 9 st. cum W.	cum. st
9					75.6		

Max. 86.2
Min. 69.4
Solar Therm. 146.0

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MONDAY, JULY 5, 1869.

	Barom.	Att.	Dry	Wet	No. 4	Wind	Clouds
7							
10	30.036	67.3	66.0	55.0		9 gt. N.W.	1 haze
2					70.8		
4	30.064	69.5	70.8	57.3		9 gt. N.W.	0 haze
9					62.6		

Max. 76.5
Min. 58.6
Solar Therm. 131.6

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TUESDAY, JULY 6, 1869.

	Barom.	Att.	Dry	Wet	No. 4	Wind	Clouds
7					59.0		
10	30.252	66.6	69.8	57.8		4 est. N. W.	0 cum. haz
2							
4	30.206	70.4	74.5	60.5		5 est. N. W.	
9					65.3		

Max. 74.9
Min. 50.5
Solar Therm. 136.9

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WEDNESDAY, JULY 7, 1869.

	Barom.	Att.	Dry	Wet	No. 4	Wind	Clouds
7					62.5		
10	30.223	67.9	74.9	64.0		4 W.	0 haze
2					80.0		
4	30.136	74.8	78.4	63.9		5 W.	4 cumulus
9					66.1		

Max. 80.0
Min. (read at 9 P.M.) 55.4
Polar Therm. 136.4

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THURSDAY, JULY 8, 1869.

	Barom.	Att.	Dry	Wet	No. 4	Wind	Clouds
7					64.3		
10	30.092	70.4	75.2	67.5		4 est. SW	0 haze
2					82.4		
4	30.017	76.7	80.7	71.3		6 est. SW	1 str. haze cirro
9					70.0		

Max. 83.1
Min. 60.0
Solar Therm. 135.0

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FRIDAY, JULY 9, 1869.

	Barom.	Att.	Dry	Wet	No. 4	Wind	Clouds
7					70.5		
10	29.952	70.9	77.2	68.7		10 wt. S.	10 st.
2					76.4		
4	29.847	72.7	73.0	67.3		12 wt. S.	10 st.
9					65.0		

Max. 78.6
Min. 63.7
Solar Therm. 126.4

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1869phae.proj...368

SATURDAY, JULY 10, 1869.

	Barom.	Att.	Dry	Wet	No. 4	Wind	Clouds
7					64.5		
10	29.942	70.1	75.7	67.2		10 mls W.	0 stage
2					81.5		
4	29.938	77.4	80.1	66.9		13 mls S.W.	4 st. stage
9					71.4		

Max. 81.8
Min. 60.3
Solar Therm. 136.2

Gauge examined at 8½ A.M. for rain from shower between 6 & 9 P.M. July 9th
No. 1, 7.6 ounces. No. 2, 6 ounces. No. 3, 6 ounces.

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1869phae.proj..368

SUNDAY, JULY 11, 1869.

	Barom.	Att.	Dry	Wet	No. 4	Wind	Clouds
7					74.3		
10	29.748	77.7	84.2	75.0		14 est. S.	1 st. cir. cir. a little haze
2					88.2		
2½							
4	29.710	80.7	72.3	72.1		8 est. S. W.	10 min. sprinkle
9					74.7		

Max. 90.8
Min. 65.7
Solar Therm. 145.9 (read at 7 P.M.)

Gauges examined at 7 P.M. for rain from shower between 3 and 5 P.M. No. 1 97½ ounces, No. 2, 112 ounces, No. 3, 73½ ounces. No. 2 ran over.

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MONDAY, JULY 12, 1869.

	Barom.	Att.	Dry	Wet	No. 4	Wind	Clouds
7					68.3		
10	29.989	71.6	70.9	60.4		11 Dist. W.	1 cum. st.
2					76.4		
4	29.971	74.9	75.8	62.1		8 dist. W.	1 cum. cir st st.
9					66.0		

Max. 76.7
Min. 62.6
Solar Therm. 135.0

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TUESDAY, JULY 13, 1869.

	Barom.	Att.	Dry	Wet	No. 4	Wind	Clouds
7					64.5		
10	30.112	70.3	72.7	61.2		3 est. W.	2 st cirrocum, cirrost
2					77.6		
4	30.080	75.2	76.1	64.9		3 est. W.	10 st. cirrost cum.
9					68.4		

Max. 77.6
Min. 57.8
Solar Therm. 133.8

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WEDNESDAY, JULY 14, 1869.

	Barom.	Att.	Dry	Wet	No. 4	Wind	Clouds
7					64.0		
10	30.137	70.3	67.0	61.6		O W.	10 st.
2					74.5		
4	30.117	74.1	72.7	65.3		4 st. E.	10 st. cir-st. cum. cir.
9					68.3		

Max. 75.6
Min. 62.8
Solar Therm. 134.8

Gauges examined at 10 A.M. for rain in the night and morning.
No. 1, 3½ ounces. No. 2, 8 ounces. No. 3, 2 ounces

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THURSDAY, JULY 15, 1869.

	Barom.	Att.	Dry	Wet	No. 4	Wind	Clouds
7					61.5		
10	30.032	68.5	6.5	64.0		Fresh S.E.	10 A.
2					74.0		
4	29.973	72.3	73.2	70.2		Fresh S.E.	10 Str.
9							
10					69.7		

Max. (read at 10P.M.) 75.5
Min. 60.5
Solar Therm. 95.1

Gauges examined at 8½ A.M. for rain of night and early morning.
No. 1, 27 ounces. No. 2, 54¼ ounces. No. 3, 20½ ounces.

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FRIDAY, JULY 16, 1869.

	Barom.	Att.	Dry	Wet	No. 4	Wind	Clouds
7				~~67.8~~	69.8		
10	29.804	71.8	74.7	75.6		3 est. S.W.	9 st. cir-st. cir-cum.
2							
4	29.738	78.9	83.3	76.0		6 est. S.W	10 nim. st. cum. a little rain
9					78.1		

Max. 90.3
Min. 55.1
Solar Therm. 145.6

Gauges examined at 10½ A.M. for rain during the nights

No. 1, 0 ounces. No. 2, $\frac{5}{8}$ ounce. No. 3, $\frac{1}{30}$ ounce

A few drops of rain about 4 P.M.

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SATURDAY, JULY 17, 1869.

	Barom.	Att.	Dry	Wet	No 4	Wind	Clouds
7							
10	29.850	74.4	79.0	68.5		8 = st. W.	4 cum. cir-st.
2					79.4		
4	29.861	74.8	79.0	61.5		9 st. W.	1 cir-st. cum.
9 10					67.9		

Max. 80.5
Min. 69.7
Solar Therm. 138.5

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SUNDAY, JULY 18, 1869.

	Barom.	Att.	Dry	Wet	No. 4	Wind	Clouds
7					66.5		
10	29.874	72	75.0	66.8		1 st. W.	10 st.
2					77.5		
4	29.840	76.1	78.1	67.6		4 est. S. W.	3 st. cir.-st. cum.
9					71.3		

Max. 79.0
Min. 2.5
Solar Therm. 133.3

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MONDAY, JULY 19, 1869.

	Barom.	Att.	Dry	Wet	No. 4	Wind	Clouds
7							
10	29.982	72.3	71.0	58.5		8 Est. E.	6th cir-str. cir-cum.
2					71.5		
4	30.004	76.3	71.6	59.1		7 est. E. N.E.	7th cir-str. cir-cum
9					62.9		

Max. 72.7
Min. 61.9
Solar Therm. 140.6

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TUESDAY, JULY 20, 1869.

	Barom.	Att.	Dry	Wet	No. 4	Wind	Clouds
7							
10	30.075	69.2	69.5	63.7		5 st. N. E.	6 st. cirr. cir.
2					70.6		
4	30.036	74.7	68.0	63.0		6 st. E.	9 st. cir-st.
9					63.6		

Max. 73.3
Min. 54.5
Solar Therm. 135.2

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WEDNESDAY, JULY 21, 1869.

	Barom.	Att.	Dry	Wet	No. 4	Wind	Clouds
7					63.2		
10	29.855	68.4	66.6	64.8		5 est. E.	10 st. fog
2					73.6		
4	29.828	72.4	72.2	68.0		4 est. E.	9 st. cu-st. cirst.
9					68.3		

Max. 76.0
Min. 61.2
Solar Therm. 124.0

Rain in the night and morning early.
Gauges examined at 2 P.M.
No. 1, 13 1/4 ounces. No. 2, 26 ounces. No. 3, 8 3/4 ounces.

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THURSDAY, JULY 22, 1869.

	Barom.	Att.	Dry	Wet	No. 4	Wind	Clouds
7					63.5		
10	29.964	68.9	69.7	61.7		10 m. S.W.	4 m. cum.
2					71.1		
4	29.986	73.7	69.7	61.2		5 m. W.	10 m. cum.
9					63.5		

Max. 72.1
Min. 58.2
Solar Therm. 135.0

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FRIDAY, JULY 23, 1869.

	Barom.	Att.	Dry	Wet	No. 4	Wind	Clouds
7					60.5		
10	30.063	68.0	71.2	65.0		2 ct. W.	2 cirrost. haze
2					79.3		
4	30.048	74.4	79.0	67.5		1 ct. W.	2 haze
9					68.4		

Max. 79.7
Min. 56.4
Solar Therm. 135.0

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SATURDAY, JULY 24, 1869.

	Barom.	Att.	Dry	Wet	No. 4	Wind	Clouds
7					65.3		
10	30.107	71.2	75.6	69.5		5 est. S.W.	3 haze
2					79.0		
4							
9					68.5		

Max. 79.6
Min. 60.7
Solar Therm. (read at 7 P.M.) 127.2

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SUNDAY, JULY 25, 1869.

	Barom.	Att.	Dry	Wet	No. 4	Wind	Clouds
7					69.5		
10	30.109	72.6	77.3	72.0		4 est, S. W.	3 haze
2					85.2		
4	30.072	79.9	84.4	78.9		10 est, S. S. E.	2 haze, cum.
9					73.4		

Max. 85.8
Min. 64.3
Solar Therm. 135.1

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MONDAY, JULY 26, 1869.

	Barom.	Att.	Dry	Wet	No. 4	Wind	Clouds
7							
10	30.100	73.6	76.0	72.8		7 est S.W.	10 st. nim. a little rain
2							
4	30.071	76.2	74.8	70.4		4 est. S.	10 nim. Some rain
9					71.0		

Max. 79.2
Min. 67.3
Solar Therm. 119.0

Occasional showers during the day. Gauges examined at 7 P.M.
No. 1 $2\frac{3}{4}$ ounces. No. 2, 6 ounces. No. 3, $1\frac{7}{10}$ ounces
A few drops of rain later in the evening. Less than $\frac{1}{4}$ ounce in gauge No. 2.

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TUESDAY, JULY 27, 1869.

	Barom.	Att.	Dry	Wet	No. 4	Wind	Clouds
7					75.2		
10						5 est. S.	10. st.
10½	29.976	75.6	80.3	74.3			
2					85.1		
4	29.895	82.2	83.1	75.0		9 est. S. W.	9 st. cum.
9					71.6		

Max. 86.6
Min. (read at 10½ A.M.) 69.7
Solar Therm. 143.0

A little rain at times during the day. A moderate shower about 6½ P.M. Perhaps more rain later. Gauges examined at 8 A.M. July 28. No. 1, 4 ounces. No. 2, 7¼ ounces. No. 3, 1½ ounces.

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WEDNESDAY, JULY 28, 1869.

	Barom.	Att.	Dry	Wet	No. 4	Wind	Clouds
7					71.5		
10	29.986	75.7	80.9	72.6		3 est. S.	5 St. cir.-st. haze
2					85.6		
4	29.971	82.6	83.4	69.6		6 est. S. W.	5 haze st. cirrost. cum.
9					72.7		

Max. 86.1
Min. 65.5
Solar Therm. 143.0

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THURSDAY, JULY 29, 1869.

	Barom.	Att.	Dry	Wet	No. 4	Wind	Clouds
7					73.5		
10	29.856	75.7	75.6	72.8		8 est. S.	10 st. mus. raining
2							
4							
9					71.9		

Max. 80.7
Min. 68.8
Solar Therm. (read at 7 P.M.) 133.2

Rain in the night and forenoon
Gauges examined at 11 1/4 A.M.
No. 1, 3 1/2 ounces. No. 2, 7 2/4 ounces No. 3, 2 ounces.

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FRIDAY, JULY 30, 1869.

	Barom.	Att.	Dry	Wet	No. 4	Wind	Clouds
7					63.0		
10	29.999	72.5	70.2	62.0		Light. W.	2 haze cirro-cumu.
2					75.2		
4	30.013	75.5	74.1	61.0		Light. W.	4 cumu. haze
9							

Max. (read at 7 A.M. July 31) 75.5 (Att. 62.2)
Min. 59.4
Solar Therm. 135.1

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SATURDAY, JULY 31, 1869.

	Barom.	Att.	Dry	Wet	No. 4	Wind	Clouds
7					63.5		
10	30.320	69.5	71.5	62.5		5 est, N.W.	0 cum.
2					~~77.5~~ 77.5.		
4	30.338	76.6	76.9	64.8	77.8	(3) est W.S.W (5½, N.E)	Cum. haze
9							

Max. 78.1
Min. 56.6
Solar Therm. 143.2

middle ther. 0

Max. (read at 9 P.M.)
Min. (read at 10 A.M.)
Solar Therm. (at 4 P.M.)

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SUNDAY, AUGUST 1, 1869.

	Barom.	Att.	Dry	Wet	No. 4	Wind	Clouds
7					61.0		
10						(4) est	
11	30.464	71.2	74.4	67.5		W.	Haze
2					(79.2)		
4	30.414	76.8	74.5	64.1		(1) est S. N.E	Haze
10					(76.0)		

Max. 80.5
Min. 56.5
Solar Therm. ×

central Ther ○

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MONDAY, AUGUST 2, 1869.

	Barom.	Att.	Dry	Wet	No. 4	Wind	Clouds
7					62.3		
10	30.273	69.8	73.0	65.4		(10) est W.S.W	Haze
2					(78.4)		
4	30.117	75.6	77.0	68.1	77.7	(10) est W	Hazer
11					64.4		

Max. 79.5
Min. 57.8
Solar Therm. 127.0

central Ther

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1869phae.proj.0368

TUESDAY, AUGUST 3, 1869.

	Barom.	Att.	Dry	Wet	No. 4	Wind	Clouds
7					68.4		
10							
11	29.790	73.2	79.0	72.0		(8) Est W	cum.
2					83.9		
4							
10½	29.786	74.3	67.2	61.1	68.0	(5) Est W	clear

Max. 84.6
Min. 63.5
Solar Therm. 143.0

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WEDNESDAY, AUGUST 4, 1869.

	Barom.	Att.	Dry	Wet	No. 4	Wind	Clouds
7					65.0		
10						(7) Est.	Cirri-
11	29.837	72.4	73.5	62.5		W	Cum.
2					77.9		
4	29.817	76.9	75.7	63.2		1 ist W.S.W	Cum. & Some Nimbi
10¼	29.841				68½		Sprinkles

Max. 78.6
Min. 60.7
Solar Therm. 141.0

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THURSDAY, AUGUST 5, 1869.

	Barom.	Att.	Dry	Wet	No. 4	Wind	Clouds
7					62.0		
10½	29.856	70.1	68.0	64.1		(0) est. W	Strati – Nim.
2					68.7		
4	29.850	71.6	63.0			(2) est. N.E	Nim, raining
9					58.0		

Max. lost, through failure to wind the Ther. last night
Min. 61.3
Solar Therm. 4½h P.M – 109½ Just ceased raining

rained during the & early morning
Guages examined at 10h.45m A.M –

No 1	– 6~~4~~ 07	(~~64~~)
No 2	– 12½ 07 –	
No 3	– ~~1 0 5~~	5 07 –

2d Edition of Rain P.M.	
No 1	1¾ 05
No 2	3¾ 05 –
No 3	1⅛ 05

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FRIDAY, AUGUST 6. 1869.

	Barom.	Att.	Dry	Wet	No. 4	Wind	Clouds
7					55.0		
10½	30.005	64.6	64.7	55.0		(6) est. N.W	clear; — a few Summer Clouds
2					69.7		
4	30.031	69.9	68.4	55.8		(10) est. N.W	Cum. (6/10)
9					58.0		clear, with Northern lights

Max. 69.7
Min. 51.3
Solar Therm. 138.4

Rained again last evening, clouds broke away about 10½ P.M of the 5th — additional water by guages (3d measurement 7½ A.M.)

No 1. — 1¼ Ofs
No 2. — 2½ Ofs
No 3. — 3/8 Ofs — would appear to have evaporated some under the strong dry N.W. wind of the morning —

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SATURDAY, AUGUST 7, 1869.

	Barom.	Att.	Dry	Wet	No. 4	Wind	Clouds
7					53.5		
10½	30.120	63½	62.6	53.7		(5) est W	9/10 Strati. Cum (9/10) Some Nimb
2					66.0		
4						O. est N. W	
6½	30.122	67½	62.2	53.4			Stratus & Nimba
9					57.3		

Max. 68.0
Min. 48.8
Solar Therm. 138.2 observed at 6½ P. M.

at 5 P. M. it sprinkled for a few minutes & at 5.15 the clouds broke for a minute or two, and exposed the Sun, but not long enough to observe the beginning of the Eclipse; at 5 26 the Sun was seen a trifle eclipsed; 15 minutes later the Sun was totally obscured by stratus - and remained so until 6 45 when a glimpse was caught of the last of the eclipse - By 8 P. M. it was clear as a bell.

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SUNDAY, AUGUST 8, 1869.

	Barom.	Attr.	Dry	Wet	No. 4	Wind	Clouds
7					56.2		
10½	30.200	63.0	68.0	57.6		(10) Est W	Clear, with the Slightest dash of Cirro-
2							
3					73.8		
4	30.142	69.4	73.1	58.5		(3) est W	Cirrus, Cum, & haze in the W
9					63.0		

Max. 74.0
Min. 49.6
Solar Therm. 110.2

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MONDAY, AUGUST 9, 1869.

	Barom.	Att.	Dry	Wet	No. 4	Wind	Clouds
7					59.0		
10½	30.158	66.2	72.2	61.5		(4) Est W.S.W	Slight haze
2					78.3		
4	30.099	73.3	76.4	62.2		0.0 Est S.W. ¼ W.	Haze
9					67.3		

Max. 77.8
Min. 53.3
Solar Therm. 134.2

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TUESDAY, AUGUST 10, 1869.

	Barom.	Att.	Dry	Wet	No. 4	Wind	Clouds
7					60.6		
10½	30.093	69.4	79.9	64.4		(W)est. W.	dash of Cirrus & Strato-
2					84.3		
4	30.050	77.2	82.3	68.0		(6)est W. S.W.	Slight haze in the horizon
9 (10½ hr)					66.8		

Max. 84.7
Min. 56.6
Solar Therm. 142.8

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WEDNESDAY, AUGUST 11, 1869.

	Barom.	Att.	Dry	Wet	No. 4	Wind	Clouds
7					64.7		
10						(2) est	
11	30.002	72.4	81.1	71.6		SW. b. W.	Haze & Cirrus
2					83.4		
4	29.971	77.4	82.8	69.0		(5) est SW. by W	3/10 Cir. Cum. in the S. E.
9					76.2		

Max. 84.0
Min. 60.4
Solar Therm. 145.4

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THURSDAY, AUGUST 12, 1869.

	Barom.	Att.	Dry	Wet	No. 4	Wind	Clouds
7					65.0		
10½	30.168	71.6	72.3	58.7		(4) Est. W.N.W	Clear
2					71.8		
4	30.153	75.8	69.6	56.0		(4) Est N.E	triffle hazy in the W.
9					61.0		

Max. 75.5
Min. 62.6
Solar Therm. 135.3

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FRIDAY, AUGUST 13, 1869.

	Barom.	Att.	Dry	Wet	No. 4	Wind	Clouds
7					61.0		
10	30.143	67.7	73.9	64.9		6 S.E.	3 haze
2					81.8		
4							
9							

Max. (read at 10¾ P.M.) 82.0
Min. 57.4
Solar Therm. (read at 7 P.M.) 142.5

A slight shower at 5½ P.M.

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SATURDAY, AUGUST 14, 1869.

	Barom.	Att.	Dry	Wet	N.A	Wind	Clouds
7					66.0		
10	30.136	69.3	69.7	59.2		9 est. N.W.	8 st, thin
2					74.0		
4	30.100	73.5	75.2	58.8		8 Alt. W.	1 st. cir.-st.
9					64.4		

Max. 75.8
Min. 69.4
Solar Therm. 136.3

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SUNDAY, AUGUST 15, 1869.

	Barom.	Att.	Dry	Wet	No. 4	Wind	Clouds
7					65.0		
10	30.062	68.2	66.4	65.9		0 S.W.	10 min. running
2					66.8		
4	29.903	69.3	71.2	69.7		5 est. S.W.	10 st. mins
9	10 1/3				63.9		

Max. (read at 10 1/3) 72.0
Min 59.1
Solar Therm 120.5 (probably where it was yesterday after setting)

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MONDAY, AUGUST 16, 1869.

	Barom.	Att.	Dry	Wet	No. 4	Wind	Clouds
7					56.7		
10	29.958	64.3	57.8	57.3		6 est. N.E	10 min. fine rain.
2					59.0		
4							
9					58.0		

Max. 63.7
Min. 55.0
Solar Therm. (read at 8 3/4 A.M. Aug. 17) 75.2

Rain at intervals during August 15: a smart thunder-storm from the N.W. during the night; succeeded by fine rain from the N.E. Gauges examined at 10 1/4 A.M. Aug. 16.
No. 1, 69 3/4 ounces. { No. 2, 91 1/2 ounces. } No. 3, 52 1/4 ounces.
{ and 19 1/2 " in the pail supposed to belong to the rest.

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TUESDAY, AUGUST 17, 1869.

	Barom.	Att.	Dry	Wet	No. 4	Wind	Clouds
7					58.0		
10	30.152	63.9	61.6	58.6		2 est. N.N.E	10 St.
2					62.2		
4	30.151	66.5	60.6	57.9		4 est. E.	10 St.
9							

Max. not above temperature at 10½ A.M. Aug. 18 56.7
Min.
Solar Therm. 85.0

Fine rain most of Aug. 16. Gauges examined at 10½ A.M. Aug. 17
No. 1, 4 ounces. No. 2, 6½ ounces. No. 3, 1 ounce.

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WEDNESDAY, AUGUST 18, 1869.

	Barom.	Att.	Dry	Wet	No. 4	Wind	Clouds
7					59.5		
10½	30.171	63.8	65.5	61.8		0 calt. E.	10 St.
2					67.7		
4	30.128	67.5	67.6	62.3		4 St. E.	7 St. with St. large
9					66.6		

Max. 70.5
Min. 57.3
Solar Therm. 128.0

Gauges examined at 10¾ A.M. for water from some very slight showers of yesterday evening.
No. 1, 0 ounces. No. 2, 0¾ ounces. No. 3, 0 ounces.

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THURSDAY, AUGUST 19, 1869.

	Barom.	Att.	Dry	Wet	No. 4	Wind	Clouds
7					65.2		
10	30.102	67.0	71.0	67.8		2 cat. N.	10 st.
2					80.3		
4							
4½	30.038	75.4	78.9	71.4		3 cat. S.W.	6 haze
9					71.7		

Max. 80.4
Min. 58.7
Solar Therm. 131.7

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FRIDAY, AUGUST 20, 1869.

	Barom.	Att.	Dry	Wet	No. 4	Wind.	Clouds
7					72.0		
10	29.880	73.3	75.8	72.8		9 ct. SS.W.	10 ct.
2					85.6		
4	29.832	78.9	86.4	78.3		16 ct. W.S.W.	10 ct. thin
9					80.5		

Max. 88.2
Min. 67.4
Solar Therm. 128.6

A few drops of rain about 6 P.M.

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SATURDAY, AUGUST 21, 1869.

	Barom.	Att.	Dry	Wet	No. 4	Wind	Clouds
7					76.8		
10	29.977	76.6	80.3	73.0		3 gt. W.	6 st. cir.-st. cir.-cum.
2					76.3		
4	29.972	76.0	70.0	64.3		7 gt. E.	9 st. cir.-cum.
9					63.8		

Max. 82.4
Min. 75.0
Solar Therm. 139.3

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SUNDAY, AUGUST 22, 1869.

	Barom.	Att.	Dry	Wet	No. 4	Wind	Clouds
7							
10	30.103	69.8	67.0	60.5		5 est. N.E.	10 st.
2							
2½					73.0		
4	30.107	73.6	71.1	63.0		1 est. E.	1 st.
9					62.0		

Max. 74.0
Min. 62.3
Solar Therm. 122.7

Rain in the evening of Aug. 21. Gauges examined at 8¾ A.M. Aug. 22.
No. 1, 5¼ ounces. No. 2, 10½ ounces. No. 3, 3½ ounces

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MONDAY, AUGUST 23, 1869.

	Barom.	Att.	Dry	Wet	No. 4	Wind	Clouds
7					64.6		
10	30.294	66.7	68.5	58.0		3 est. E.	0 cir.-str. haze
2					71.3		
4		~~67.2~~					
9					62.4		

Max. 71.6
Min. 53.8
Solar Therm. (read at 7 P.M.) 131.0

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1869phae.proj . 368

TUESDAY, AUGUST 24, 1869.

	Barom.	Att.	Dry	Wet	No. 4	Wind	Clouds
7					59.5		
10	30.328	67.2	71.0	62.1		4 cot. E	0 cir.-st. haze
2					74.6		
4	30.281	74.2	72.0	60.9		5 cot. E.	1 cir.-st cirrum haze
9					65.3		

Max. 74.9
Min. 55.0
Solar Therm. 136.6 109.2

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1869phae.proj...368

WEDNESDAY, AUGUST 25, 1869.

	Barom.	Att.	Dry	Wet	No. 4	Wind	Clouds
7					64.7		
10							
2							
4							
9							

Max.
Min.
Solar Therm.

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1869phae.proj.368

SATURDAY, AUGUST 28, 1869.

	Barom.	Att.	Dry	Wet	No. 4	Wind	Clouds
7					59.5		
10	~~29.82~~						
2							
4							
9							

Max.
Min.
Solar Therm.

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1869phae.proj..368

SUNDAY, AUGUST 29, 1869.

	Barom.	Att.	Dry	Wet	No. 4	Wind	Clouds
7					73.0		
10	29.829	72.2	77.7	70.2		8 est. W.	10 st. cir-st. cum.
2					82.6		
4	29.812	75.7	80.8	64.1		7 est. W.	1 cir-st cum.
9					70.4		

Max. 83.2
Min. 52.0
Solar Therm. 152.6 (after setting 120.0)

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1869phae.proj . 368

MONDAY, AUGUST 30, 1869.

	Barom.	Att.	Dry	Wet	No. 4	Wind	Clouds
7							
10	29.901	67.9	66.8	56.3		8 est. W.	8 st. cir.-st. cir. (thin)
2					70.7		
4	29.881	70.0	70.0	58.0		9 est. N. W	8 st.
9					62.6		

Max. 71.7
Min. 59.6
Solar Therm. 131.7 (After setting 94.2)

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1869phae.proj..368

TUESDAY, AUGUST 31, 1869.

	Barom.	Att.	Dry	Wet	R.H	Wind	Clouds
7					53.5		
10	29.960	62.8	60.5	49.7		14 est. W.	0 cum.
2					63.7	at 2^h	35^m
4	29.953	65.3	63.2	50.7		17 est. N.W.	7 cum.-st. cum. cirrst. st.
9					51.9		

Max. 64.7
Min. 51.6
Solar Therm. 140.0

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1869phae.proj.368

WEDNESDAY, SEPTEMBER 1, 1869.

	Barom.	Att.	Dry	Wet	No. 4	Wind	Clouds
7					48.3		
10	30.112	59.8	58.6	50.6		4 est. N.	8 cum.-st. st. cum
2 2½					59.5		
4	30.119	63.2	59.0	51.5		3 est. N.W.	7 st. cumst.
9					54.0		

Max. 60.1
Min. 45.3
Solar Therm. 118.6 77.5

A shower about 1 P.M. Gauges examined at 3 P.M.
No. 1, 0.4 ounces. No. 2, 1.6 ounces. No. 3, 0⅛ ounces.

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1869phae.proj., 368

THURSDAY, SEPTEMBER 2, 1869.

	Barom.	Att.	Dry	Wet	No. 4	Wind	Clouds
7					52.0		
10	30.242	58.9	57.0	52.3		13 est. N.	10 st. cum.-st.
2					60.4		
4	30.241	62.4	59.1	51.8		11 est. N.	10 st. cum.-st.
9					52.0		

Max. 60.8
Min. 48.5
Solar Therm. 124.8 (65.0)

A few drops of rain at times

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1869phae.proj.368

FRIDAY, SEPTEMBER 3, 1869.

	Barom.	Att.	Dry	Wet	No. 4	Wind	Clouds
7					53.4		
10	30.234	58.0	59.8	56.0		0 Est. W.	10 st. cum-st. cum. cir-st.
2					67.0		
4	30.181	64.6	67.4	56.9		1 est. W.	5 st. cum-st. cum. cir-st.
9					57.8		

Max. 68.7
Min. 49.8
Solar Therm. 138.9

(1082)

Some rain in the night & early morning.
Gauges examined at 9 3/4 A.M.
No. 1, 2 1/2 ounces. No. 2, 6 1/4 ounces. No. 3, 1 1/2 ounces.

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1869phae.proj...368

SATURDAY, SEPTEMBER 4, 1869.

	Barom.	Att.	Dry	Wet	No. 4	Wind	Clouds
7					54.5		
10	30.200	61.6	69.5	60.0		4 est. W.	1 cir-st.
2							
4	30.152	68.8	78.2	62.2		4 est. S.W.	2 cir-st. haze.
9					67.3		

Max. 79.6
Min. 59.7
Solar Therm. 147.4

(11 DA)

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1869phae.proj.368

SUNDAY, SEPTEMBER 5, 1869.

	Barom.	Att.	Dry	Wet	No. 4	Wind	Clouds
7					61.3		
10	30.200	66.6	74.4	65.4		2 est. L. W.	0 cir. cir.-st.
2					82.1		
4	30.165	76.7	79.9	66.6		11 est. L.	1 cir. cir.-st. haze
9					63.9	-	

Max. 82.5
Min. 58.4
Solar Therm. 143.6 (147.0)

Much auroral light in the early part of the evening. An uncommonly bright streamer appeared about 8 3/4 P.M. It was high in the sky (Vega being about in its centre) and detached from the auroral arch. Its shape was somewhat thus ~. Detached clouds of auroral light, (like cirro-strati) also appeared, remaining stationary longer than common.

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1869phae.proj_368

MONDAY, SEPTEMBER 6, 1869.

	Barom.	Att.	Dry	Wet	No. 4	Wind	Clouds
7							
10	30.242	66.3	70.9	65.2		6 est. S. W	0 cir-st. haze
2					80.7		
4	30.198	74.4	78.8	67.3		9 est. S. W.	1 cir-st. st. cir.
9							

Max.
Min. 54.1
Solar Therm. 140.6 (114.8)

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1869phae.proj.1368

TUESDAY, SEPTEMBER 7, 1869.

	Barom.	Att.	Dry	Wet	No. 4	Wind	Clouds
7					66.2		
10	30.171	68.8	75.3	72.8		0 st. S.E	10 Nr.
2					76.7		
4	30.100	73.1	77.1	72.6		10 st. S.	5 st. cumi-st. cum.
9 10½					68.3 *		

Max. (read at 10½) 81.7
Min. 63.4
Solar Therm. 144.3 (106.0)

Rain during the previous night.
Gauges examined at 10¼ A.M.
No. 1, 7⅛ ounces. No. 2, 13¾ ounces. No. 3, 6¼ ounces.
Rain from 12½ to 1½ P.M. Gauges examined at 4¼ P.M.
No. 1, 23½ ounces. No. 2, 48 ounces. No. 3, 16¾ ounces.

* Weather cloudy and still in the evening

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1869phae.proj, 368

WEDNESDAY, SEPTEMBER 8, 1869.

	Barom.	Att.	Dry	Wet	No. 4	Wind	Clouds
7					73.0		
10	29.882	72.4	80.1	76.1		9 est. S.E.	10 St. cum-st.
2					83.8		
4	29.610	78.4	71.3	69.9		12 est. E.	10 St, cum; some rain
9					74.7		

Max. 83.8
Min. 65.4
Solar Therm. 144.5

(72.6)

Rain during previous night after 11½ P.M.
Gauges examined at 10¼ A.M.
No. 1, 5¼ ounces. No. 2 10½ ounces. No. 3, 3 ounces.

Some slight showers during the middle of the day. About 4½ P.M., a heavy rain with strong east wind. The wind continued to increase till about 6¼ P.M., shifting towards the South, and by 6½ P.M. to S.W., when the rain ceased. Trees were blown down in various places in Cambridge, one on Concord Avenue, near the Observatory. During the gale the barometer is reported to have fallen to about 29.100 inches. At 7 5/6 P.M. it stood at 29.450 (therm. 74.0); at 9 P.M. 29.569 (therm. 70.8)

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1869phae.proj.368

THURSDAY, SEPTEMBER 9, 1869.

	Barom.	Att.	Dry	Wet	No. 4	Wind	Clouds
7					68.5		
10	29.781	71.5	68.5	60.5		7 st. S.W.	0 cum. st.
2					71.7		
4	29.877	73.9	69.6	60.3		5 st. W.	10 st.
9					64.4		

Max. 75.0
Min. 55.3
Solar Therm. 136.1 (81.0)

Gauges examined at 10 1/4 A.M. for rain of storm of Sept. 8 and some showers in the following night.
No. 1, 91 ounces. No. 2, 189 1/2 ounces. No. 3, 67 1/2 ounces.

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1869phae.proj..368

FRIDAY, SEPTEMBER 10, 1869.

	Barom.	Att.	Dry	Wet	No. 4	Wind	Clouds
7					58.3		
10	30.040	67.0	62.8	57.6		4 st. N.W	10 st.
2					64.8		
4	30.036	68.9	61.4	57.2		6 st. E.	10 st. cum.
9					57.0		

Max. 65.3
Min. 57.6
Solar Therm. 133.9 (78.3)

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1869phae.proj.368

SATURDAY, SEPTEMBER 11, 1869.

	Barom.	Att.	Dry	Wet	No. 4	Wind	Clouds
7					54.5		
10	30.100	64.7	64.0	58.2		4 est. W.	5 cum. cum.-st.
2 2¼					69.5		
4	30.099	69.3	69.2	58.7		5 est, W,	2 cum. st,
9					58.5		

Max. 70.6
Min. 51.9
Polar Therm. 142.6 (103.6)

Gauges examined at 2½ P.M. for rain of last night.
No. 1, 3 ounces. No. 2, 8½ ounces. No. 3, 1½ ounces.

Aurora till after midnight.

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1869phae.proj, 368

SUNDAY, SEPTEMBER 12, 1869.

	Barom.	Att.	Dry	Wet	No. 4	Wind	Clouds
7							
10	30.262	64.2	67.7	59.0		3 Ht. W.	0
2					74.0		
4 1/3	30.270	71.1	72.0	60.0		1 est. E.	0 cir.-st.
9					62.6		

Max. 74.2
Min. 50.0
Polar Therm. 137.9 (at 4 1/3)

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1869phae.proj.0368

MONDAY, SEPTEMBER 13, 1869.

	Barom.	Att.	Dry	Wet	No. 4	Wind	Clouds
7					59.0		
10	30.418	65.9	68.0	62.5		0 calm. S.	2 cirr. haze
2							
4							
9					59.4		

Max. 70.9
Min. 50.0
Solar Therm.

Aurora till after midnight.

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1869phae.proj...368

TUESDAY, SEPTEMBER 14, 1869.

	Barom.	Att.	Dry	Wet	No. 4	Wind	Clouds
7					56.7		
10½	30.450	65.8	67.3	59.8		0	0
2					69.8		
4	30.363	71.1	68.8	56.8		7 E.	0
9					59.9		

Max. 72.0
Min. 55.1
Polar Therm. 132.3 (103.6)

Auroral arch at midnight; not bright

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1869phae.proj.-368

WEDNESDAY, SEPTEMBER 15, 1869.

	Barom.	Att.	Dry	Wet	No. 4	Wind	Clouds
7					54.3		
10 1/4	30.288	65.9	70.5	63.7		6 SE	0
2							
4							
9					61.9		

Max. 74.5
Min. 51.8
Solar Therm.

Some faint auroral light

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THURSDAY, SEPTEMBER 16, 1869.

	Barom.	Att.	Dry	Wet	No. 4	Wind.	Clouds
7					57.0		
10¼	30.140	65.8	68.6	62.6		5 W.	0 cir. cir.-st.
2					76.5		
4	30.103	73.4	68.5	60.7		5 E.	8 st. cir-st. cir.-cum cir.
9					59.4		

Max. 76.4
Min. 54.7
Solar Therm. 139.0 ..... (77.3)

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1869phae.proj.368

FRIDAY, SEPTEMBER 17, 1869.

	Barom.	Att.	Dry	Wet	No. 4	Wind	Clouds
7					57.5		
10	30.353	64.7	62.1	58.1		5 N.E.	10 st.
2					64.6		
4	30.372	67.3	62.5	57.7		12	10 st. cyms cir-strato
9					58.1		

Max. 65.8
Min. 56.7
Solar Therm. 128.6 (77.0)

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SATURDAY, SEPTEMBER 18, 1869.

	Barom.	Att.	Dry	Wet	No. 4	Wind	Clouds
7					55.0		
10	30.456	63.2	62.3	56.1		4	10 st. cum.
2					64.7		
4	30.422	67.4	62.0	56.3		4	10 st.
9					57.0		

Max. 65.9
Min. 56.4
Solar Therm. 123.7

(70.8)

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SUNDAY, SEPTEMBER 19, 1869.

	Barom.	Att.	Dry	Wet	No. 4	Wind	Clouds
7					57.2		
10	30.333	64.4	69.4	64.4		6	3 cir.-st. haze (thin & uniform)
2					76.0		
4	30.218	71.7	76.6	69.0		8	4 st. cir.-th.
9					68.9		

Max. 77.8
Min. 53.3
Solar Therm. 132.2 (105.0)

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1869phae.proj...368

MONDAY, SEPTEMBER 20, 1869.

	Barom.	Att.	Dry	Wet	No. 4	Wind	Clouds
7					69.0		
10	30.036	69.2	79.6	70.0		12	0 st.
2				85.4			
2½							
4	30.033	76.1	83.6	69.4		12	2 cum-st. st. cum.
9½					66.8		

Max. 85.7
Min. 65.3
Solar Therm. 147.5 (113.0)

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TUESDAY, SEPTEMBER 21, 1869.

	Barom.	Att.	Dry	Wet	No. 4	Wind	Clouds
7					59.3		
10	30.298	67.3	65.3	59.8		NW 4	10 st. thin
2	"				60.6		
4	30.273	66.5	59.1	56.4		NW 5	10 st.
9					56.0		

Max. 67.2
Min. 56.4
Solar Therm. 112.7*

(61.0)

Some drops of rain during the day.
More in the evening.

* Yesterday's setting.

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1869phae.proj, 368

WEDNESDAY, SEPTEMBER 22, 1869.

	Barom.	Att.	Dry	Wet	No. 4	Wind	Clouds
7					57.2		
10	30.371	63.2	59.9	56.1		6	10 st.
2					59.6		
4	30.327	64.3	58.4	56.2		4	10 st. nim. 2one rain.
9					57.9		

Max. 61.0
Min. 55.2
Solar Therm. 76.7

(60.0)

Gauges examined at 10¼ A.M.
No. 1, 31½ ounces. No. 2, 66½ ounces No. 3, 23½ ounces.

Rain at intervals, in the afternoon, and evening

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THURSDAY, SEPTEMBER 23, 1869.

	Barom.	Att.	Dry	Wet	No. 4	Wind	Clouds
7					58.0		
10	30.362	63.5	64.8	60.3		⁚ 5	5 Cum. St.
2							
2¼					67.8		
4	30.347	69.4	67.4	59.8		⁚ 6	1 ct. cum.-st.
9					58.8		

Max. 70.5
Min. 56.5
Solar Therm. 137.0

(98.6)

Gauges examined at 10 A.M.
No. 1, 6.7 ounces. No. 2, 13 ounces. No. 3, 4.3 ounces.

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FRIDAY, SEPTEMBER 24, 1869.

	Barom.	Attr.	Dry	Wet	No. 4	Wind	Clouds
7					52.2		
10	30.455	62.4	63.4	61.1		0	0 cir. cir. cum. haze
2					69.2		
4	30.407	68.5	67.4	57.9		7	8 cir. haze
9					58.4		

Max. 71.3
Min. 49.5
Solar Therm. 135.0

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SATURDAY, SEPTEMBER 25, 1869.

	Barom.	Att.	Dry	Wet	No. 4	Wind	Clouds
7					57.5		
10							
10¼	30.375	63.8	67.0	63.0		∴ 5	10 st. thin
2					71.3		
4	30.285	68.8	71.0	65.0		∴ 4	8 st, cir. cir.-st,
9					60.4		

Max. 72.8
Min. 57.3
Solar Therm. 124.8

(85.2)

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1869phae.proj..368

SUNDAY, SEPTEMBER 26, 1869.

	Barom.	Att.	Dry	Wet	No. 4	Wind	Clouds
7					62.0		
10	30.052	65.8	71.4	67.4		10	10 st.
2					75.8		
4	29.931	70.7	73.4	68.9		15	10 st. cum-st.
9					69.1		

Max. 77.0
Min. 54.7
Solar Therm. 116.2

(79.3)

Cloudy day with a few drops of rain in the afternoon and showers after dark.

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1869phae.proj . 368

MONDAY, SEPTEMBER 27, 1869.

	Barom.	Att.	Dry	Wet	No. 4	Wind	Clouds
7					51.5		
10	29.740	63.3	54.8	52.8		N.E. 2	10 cl.
2 1/4.					57.4		
4	29.870	63.9	54.6	47.1		N. 9	8 cl.
9					45.7		

Max. 69.3 (probably reading when last set)
Min. 50.3
Solar Therm. 121.3 (65.9)

Heavy rain before daylight.
Gauge examined at 10 1/4 A.M.
No. 1, 18 1/4 ounces. No. 2 325 1/2 ounces. No. 3, 128 3/4 ounces.
hail, 7 1/2 "

Aurora through the evening. Very intense white streamers about 9 P.M.

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1869phae.proj...368

TUESDAY, SEPTEMBER 28, 1869.

	Barom.	Att.	Dry	Wet	No. 4	Wind	Clouds
7					37.3		
10 1/4	30.196	52.6	48.4	41.0		11	0 st. cir. cir-st.
2					55.5		
4	30.210	59.2	54.8	44.7		10	0
9							

Max.
Min. 36.8 (at Alvan Clark's there was frost on the windows)
Solar Therm. 120.3

(8 3.0)

Aurora in the evening

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1869phae.proj..368

WEDNESDAY, SEPTEMBER 29, 1869.

	Barom.	Att.	Dry	Wet	No. 4	Wind	Clouds
7					42.5		
10	30.382	54.7	59.4	50.9		6 str.	0 cirrostr.
2					65.1		
4	30.320	52.1	64.6	55.1		4 str.	0 cirr
9					54.0		

Max. 65.7
Min. 41.2
Solar Therm. 125.5

Some arbors in the evening.

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1869phae.proj.368

THURSDAY, SEPTEMBER 30, 1869.

	Barom.	Att.	Dry	Wet	No. 4	Wind	Clouds
7					48.7		
10	30.349	57.9	62.7	56.7		3	0 cir.
2					71.0		
4	30.240	66.8	70.0	58.0		6 nt.	7 cir. st.
9					58.0		

Max. 72.3
Min. 47.3
Solar Therm. 130.3

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1869phae.proj..368

FRIDAY, OCTOBER 1, 1869.

	Barom.	Att.	Dry	Wet	No. 4	Wind	Clouds	
7					51.0			
10	30.226	60.0	66.3	58.0		4	0	
2					73.1			
4	30.191	67.9	73.3	62.3		0	0	in sk.
9					59.6			

Max. 74.4
Min. 50.2
Solar Therm. 133.0 (103.6)

Some aurora behind clouds

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1869phae.proj...368

SATURDAY, OCTOBER 2, 1869.

	Barom.	Att.	Dry	Wet	No. 4	Wind	Clouds
7					53.0		
10	30.204	61.4	64.2	60.0		7	0 ct. cir-st.
2					71.9		
4	30.156	67.8	71.2	62.0		8	0 cir-st.
9					62.7		

Max. 72.4
Min. 50.8
Solar Therm. 137.0 (100.0)

Some aurora behind clouds

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SUNDAY, OCTOBER 3, 1869.

	Barom.	Att.	Dry	Wet	No. 4	Wind		Clouds	
7					64.7				
10	30.010	66.3	73.3	67.8		S.S.W.	20	10	cirrost. above st. cumo-st. below
2					67.4				
4	29.984	67.3	63.4	62.4		W.	5	10	St. nim.
9					61.5+				

10½

Max. 75.4
Min. 57.5
Solar Therm. 125.4

66.9

~~Some rain~~

+ Evening cloudy, warm, and rainy

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MONDAY, OCTOBER 4, 1869.

	Barom.	Att.	Dry	Wet	No. 4	Wind	Clouds
7							
10	29.531	66.9	69.8	69.3		21	10 nim. raining
2					70.1		
4	29.206	67.9	2.0	61.7		26 NW	10 rain
9					63.0		

Max. 72.3
Min. 60.8
Solar Therm. 77.0

Gauges examined at 7½ A.M. for rain of previous afternoon, evening, and night.
No 1, 33 ounces. No. 2, 63 ounces. No. 3, 24½ ounces.

Much wind and rain during the day.

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TUESDAY, OCTOBER 5, 1869.

	Barom.	Att.	Dry	Wet	No. 4	Wind	Clouds
7					54.3		
10	29.635	61.7	57.0	50.0	-	12	9 st. cum.
2					56.5		
4	29.777	62.5	55.0	48.5		10	10 st. cum.
9					48.0		

Max. 63.0
Min. 52.4
Solar Therm. 123.5

62.0

Gauges examined at 8¼ A.M.
No. 1, 59½ ounces. No. 2, 125 ounces. No. 3, 40¼ ounces.

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WEDNESDAY, OCTOBER 6, 1869.

	Barom.	Att.	Dry	Wet	No. 4	Wind	Clouds	
7					39.8			
10	30.024	56.3	49.1	41.3		13	0	
2					55.4			
4	30.006	59.5	55.9	44.9		17	0	air. cir.-st.
9					44.7			

Max. 56.1
Min. 38.3
Solar Therm. 120.4

83.2

Aurora in the evening; arch distinct; not much appearance of streamers.

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THURSDAY, OCTOBER 7, 1869.

	Barom.	Att.	Dry	Wet	No. 4	Wind	Clouds
7							
10							
10 1/4	30.243	53.8	52.5	47.0		1	0
2							
2 1/4					57.0		
4	30.208	60.2	53.8	48.3		4	0 haze
9					46.0		

Max. 56.9
Min. 35.8
Solar Therm. 121.9

11.27
24 22

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FRIDAY, OCTOBER 8, 1869.

	Barom.	Att.	Dry	Wet	No. 4	Wind	Clouds
7							
10	30.286	54.1	54.7	49.4		2	0
2					62.2		
4	30.266	61.4	58.8	51.8		3	Haze L.
9					49.5*		

Max. 62.5*
Min. 35.6
Solar Therm. 125.2

79.1

* Recorded from memory

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SATURDAY, OCTOBER 9, 1869.

	Barom.	Att.	Dry	Wet	No. 4	Wind	Clouds
7					42.5		
10	30.299	55.9	60.8	57.1		4	0 haze
2					67.5		
4	30.252	64.6	65.7	58.2		0	0 haze
9 1/4					52.0*		

Max. 68.0*
Min. 43.4
Polar Therm. 123.7 (84.7)

* Recorded from memory

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SUNDAY, OCTOBER 10, 1869.

	Barom.	Att.	Dry	Wet	No. 4	Wind	Clouds
7					54.0		
10	30.172	58.1	58.2	56.7		2	10 St. fog.
2					61.0		
4	30.020	62.6	59.3	57.1		7	10 St. cum. St. cir.-cum.
9					58.4		

Max. 62.2
Min. 46.6
Solar Therm. 129.6 (64.6)

Gauges examined at 9¾ A.M. for rain last night
No. 1, 1/20 ounce. No. 2, 2 Ounces. No. 3, not measurable.

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MONDAY, OCTOBER 11, 1869.

	Barom.	Att.	Dry	Wet	No. 4	Wind	Clouds
7							
10	29.692	60.6	61.4	56.4		11	9 st. cum. st.
2					62.4		
2½							
4	29.748	63.2	60.8	51.8		5	1 cum. cir. st. haze
9					49.8		

Max. 64.0
Min. 54.5
Solar Therm. 134.8 (78.8)

Rain in heavy showers during the first night. Gauges examined at 9 P.M. No. No. 1, 65 ounces. No. 2, 121¼ ounces. No. 3, 45½ ounces.

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TUESDAY, OCTOBER 12, 1869.

	Barom.	Att.	Dry	Wet	No. 4	Wind	Clouds
7					46.0		
10	29.944	56.6	53.7	52.2		1	10 st. cum-st in S.E.
2					64.4		
4	29.887	62.7	61.2	54.5		7	10 st. cu-cum
9 1/6					57.5		

Max. 65.4
Min. 43.6
Solar Therm. 120.0

(64.9)

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WEDNESDAY, OCTOBER 13, 1869.

	Barom.	Att.	Dry	Wet	No. 4	Wind	Clouds
7							
10	29.578	59.3	59.7	58.0		3	10 st. fog.
2					61.7		
4	29.412	60.2	58.1	56.9		5	10 st. min. fog a little rain
9					48.5		

Max. 61.9
Min. 55.0
Solar Therm. 79.0

(59.7)

Rain in the previous night and at intervals through the day.

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THURSDAY, OCTOBER 14, 1869.

	Barom.	Att.	Dry	Wet	No. 4.	Wind	Cloud
7					41.0		
10	29.828	57.3	49.4	42.2		11	0
2							
4½	29.850	60.1	54.4	46.9		~~5~~ 5	2 St. cir. cir-st.
9					49.4		

Max. 56.1
Min. 40.8
Solar Therm. 117.1

Gauges examined at 8 A. M. Morning favored evaporation.
No. 1, 6½ ounces. No. 2, 13½ ounces. No. 3, 3½ ounces.

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FRIDAY, OCTOBER 15, 1869.

	Barom.	Att.	Dry	Wet	No. 4	Wind	Clouds
7							
10	29.889	57.2	61.1	58.9		5	10 st. cum.-st.
2					65.8		
4	29.860	62.4	62.9	56.2		6	6 st. cum. cir-cum. cir.-st.
9					54.5		

Max. 66.2
Min. 40.9
Solar Therm. 115.0

(68.7)

Gauges examined at 9 3/4 A.M. for rain from showers of night and morning.
No. 1, 3 1/2 ounces. No. 2, 7 1/2 ounces, No. 3, 2 ounces.
Again at 1 1/2 P.M.
1 ounces. 2 6/10 ounces. 0 1/2 ounces.

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SATURDAY, OCTOBER 16, 1869.

	Barom.	Att.	Dry	Wet	No. 4	Wind	Clouds
7					49.0		
10	29.691	56.4	49.6	48.6		14	10 st. min.
2					47.2		
4	29.600	56.0	*46.6	46.1		19	10 min raining
9					46.7		

Max. 54.3
Min. 48.6
Solar Therm. 68.8 ✝ at yesterday 6 P.M. (48.8)

* Bulb wet.

Gauges examined at 10½ A.M.

No. 1, 42⅓ ounces. No. 2, 78 ounces. No 3, 32¾ ounces

Rain a great part of the day.

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SUNDAY, OCTOBER 17, 1869.

	Barom.	Att.	Dry	Wet	No. 4	Wind	Clouds
7					42.0		
10	29.673	52.8	50.1	42.8		12	0 st.
2					57.8		
4	29.660	58.4	57.0	48.0		11	2 st. cum.
9					48.5		

Max. 58.4
Min. 41.8
Solar Therm. 117.0 (61.0)

Rain ceased in the night. Morning favored evaporation. Gauges examined at 10½ A.M.
No. 1, 59½ ounces. No. 2, 97 ounces. No. 3, 42½ ounces.

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MONDAY, OCTOBER 18, 1869.

	Barom.	Att.	Dry	Wet	No. 4	Wind	Clouds
7							
10	29.896	52.7	49.8	44.3		6	1 cir. cum.
2					53.7		
4	29.898	57.4	50.8	42.8		11	10 st. cum.
9					42.3		

Max. 55.5
Min. 39.5
Solar Therm. 125.0

(53.2)

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TUESDAY, OCTOBER 19, 1869.

	Barom.	Att.	Dry	Wet	No. 4	Wind	Clouds
7					34.2		
10	30,025	51.1	45.5	39.3		9	2 st. cirrost. cirrus.
2					47.4		
4	29.900	53.7	45.3	41.3		0	
9					41.2		

Max. 49.0
Min. 33.1
Solar Therm. 105.6

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WEDNESDAY, OCTOBER 20, 1869.

	Barom.	Att.	Dry	Wet	No. 4	Wind	Clouds
7					34.0		
10	29.942	48.9	42.7	37.0		6	2 cum.
2							
4 1/4	29.931	53.2	44.4	37.6		5	6 cum.
9					36.7		

Max. 46.6
Min. 32.0
Solar Therm. 114.6

46.0

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THURSDAY, OCTOBER 21, 1869.

	Barom.	Att.	Dry	Wet	No. 4	Wind	Clouds
7					31.0		
10	30.040	47.2	45.7	40.5		10	0 cirrst
2							
4¼	29.950	56.3	52.1	45.6		6	8 Ac. cum.
9							

Max. 57.1 (read at 7 P.M. temp. 57.0)
Min. 29.6
Polar Therm. 115.9 (55.2)

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FRIDAY, OCTOBER 22, 1869.

	Barom.	Att.	Dry	Wet	No. 4	Wind	Clouds
7					47.3		
10	29.968	53.0	49.5	46.5		7	10 St
2					55.2		
4	30.000	58.6	54.6	45.6		8	0
9							

Max. 55.7 (read at 7 P.M. temp. 47.0)
Min. 45.1
Solar Therm. 113.6

Earthquake early this morning; not noticed by any one at the Observatory; clock apparently undisturbed according to observations Oct. 25.0

Rain during last night. Gauges examined at 2 P.M. Middle of the day favored evaporation.
No. 1, 1 3/4 ounces. Gauge found on its side, apparently upset during or after rain.
No. 2, 15 1/4 ounces. No. 3, 7 ounces

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SATURDAY, OCTOBER 23, 1869.

	Barom.	Att.	Dry	Wet	No. 4	Wind	Clouds
7					39.0		
10	30.003	50.2	50.2	47.7		12	10 St.
2					50.9		
4	29.785	52.4	49.0	49.7		11	10 Strm. raining
9							

Max. 52 57.4 (read at 7 PM. temp. 57.4)
Min. 36.4
Solar Therm. 62.9 as when set 22d (50.0)

March rain during the day and following night

1869phae.proj., 368

SUNDAY, OCTOBER 24, 1869.

	Barom.	Att.	Dry	Wet	No. 4	Wind	Clouds
7					51.5		
10	29.768	56.1	52.9	47.9		NW 12	10 st.
2					53.9		
4	29.920	57.0	50.3	41.3		NW 12	0 cum.
9					39.4		

Max. 63.0
Min. 48.9
Solar Therm. 116.4

62.0

Gauges examined at 9 P.M.
No. 1, 16½ ounces. No. 2, 69½ ounces. No. 3, 32½ ounces
No. 1 must leak or have been wiped again

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MONDAY, OCTOBER 25, 1869.

	Barom.	Att.	Dry	Wet	No. 4	Wind	Clouds
7					31.5		
10	30.297	47.6	41.0	33.5		13	0 str. cum.
2 27 6					44.3		
4	30.338	51.0	42.8	35.0		6	2 cum. str.
9					34.4		

Max. 45.0
Min. 30.4
Polar Therm. 114.8 (30.8)

Auroral arch formed early in the evening. At 9 P.M. light unusually green, with some appearance of streamers. At 11, faint, a little yellow; a few streamers.

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TUESDAY, OCTOBER 26, 1869.

	Barom.	Att.	Dry	Wet	No. 4	Wind	Clouds
7					30.3		
10	30.289	46.0	39.6	32.6	[illegible]	5	1 st. cum.
2 2 1/4					44.1		
4 4 1/4	30.082	50.9	42.4	35.1		4	0 st. cir. cum.
9					36.7		

Max. 44.5
Min. 27.0
Solar Thrm. 110.2 (42.5)

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WEDNESDAY, OCTOBER 27, 1869.

	Barom.	Att.	Dry	Wet	No. 4	Wind	Clouds
7					32.3		
10	29.940	45.4	38.0	33.0		20	9 str. cum. & St. cum.
2					40.0		
4	29.958	48.7	36.0	29.5		12	1 St. cum.
9					29.4		

Max. 40.5
Min. 31.7
Solar Therm. 105.5

A few flakes of snow about 11 A. M.
Some aurora all the evening.

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THURSDAY, OCTOBER 28, 1869.

	Barom.	Att.	Dry	Wet	No. 4	Wind	Clouds
7					24.0		
10							
10¼	29.862	41.6	30.8	28.8		3	10 m. snowing
2					36.8		
4	29.884	44.5	36.5	34.0		4	10 ct.
9					35.9		

Max. 37.6
Min. 21.4
Solar Therm. 73.2 (38.5)

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FRIDAY, OCTOBER 29, 1869.

	Barom.	Att.	Dry	Wet	No. 4	Wind	Clouds
7					31.5		
10	29.714	43.4	37.1	35.3		6	10 St.
2					37.0		
4	29.692	44.6	37.4	36.2		0	10 St. fog
9					35.4		

Max. 37.7
Min. 30.6
Solar Therm. 54.1 (39.6)

Snow yesterday morning
Gauges examined at 10½ A.M. today.
No 1, ⅒ ounces. No. 2, 1½ ounces. No. 3, 0 ounces.

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SATURDAY, OCTOBER 30, 1869.

	Barom.	Att.	Dry	Wet	No. 4	Wind	Clouds
7							
10	29.749	43.9	39.2	36.0		8	10 at.
2							
4							
9					36.1		

Max. 41.0
Min. 33.0
Polar Therm.

Snow yesterday morning
Gauges examined at 10½ A.M. to day.
No. 1, 1 ounce. No. 2, 2 ounces. No. 3, 0½ ounces.

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SUNDAY, OCTOBER 31, 1869.

	Barom.	Att.	Dry	Wet	No. 4	Wind	Clouds
7					34.0		
10	30.018	42.7	37.4	32.1		16	5 at.
2					41.4		
4	30.032	46.3	39.5	33.1		13	0 at.
9					30.9		

Max. 41.7
Min. 33.9
Solar Therm. 112.3

(494)

Aurora: double & sometimes triple arch. Some appearance of streamers at 9 P.M. Later, the streamers extended to near the zenith at times and showed rose color.

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MONDAY, NOVEMBER 1, 1869.

	Barom.	Attd	Dry	Wet	No. 4	Wind	Clouds
7							
10	30.003	40.3	34.4	30.9		4	3 cir. cir-st.
2					40.2		
4	29.933	44.7	39.1	34.7		3	10 st.
9					37.7		

Max. 40.2
Min. 23.0
Solar Therm. 103.1 ..... (39.0)

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TUESDAY, NOVEMBER 2, 1869.

	Barom.	Att.	Dry	Wet	No. 4	Wind	Clouds
7					32.3		
10	30.247	43.4	42.0	37.5		5	6 cir. wisp.
2					46.4		
4	30.266	39.4	42.1	40.1		4	9 str.
9					38.7		

Max. 46.8
Min. 32.0
Solar Therm. 111.0

46.0

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WEDNESDAY, NOVEMBER 3, 1869.

	Barom.	Att.	Dry	Wet	No. 4	Wind	Clouds
7					33.5		
10	30.318	44.1	42.7	40.4		3	10 St. (thin)
2							
4	30.200	42.5	49.4	43.6		5	10 St. (thin) cir.-cum.
9					45.4		

Max. 50.1
Min. 31.4
Solar Therm. 67.5

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THURSDAY, NOVEMBER 4, 1869.

	Barom.	Att.	Dry	Wet	No. 4	Wind	Clouds
7					40.0		
10	30.075	46.2	52.3	46.5		4	4 cir. haze
2					61.9		
4	29.978 24.925	53.2	58.5	52.0		0	4 cir. haze
9					48.6		

Max. 62.9
Min. 39.6
Polar Therm 114.6

(60.3)

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FRIDAY, NOVEMBER 5, 1869.

	Barom.	Att.	Dry	Wet	No. 4	Wind	Clouds
7					45.8		
10	29.789 29.75	49.3	53.0	49.8		7	5 st. cir.-st. cir. haze
2					61.9		
4	29.697 29.667	53.5	57.2	52.2		6	10 st.
9					57.0		

Max. 61.9
Min. 42.8
Solar Therm. 114.2

(58.0)

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SATURDAY, NOVEMBER 6, 1869.

	Barom.	Att.	Dry	Wet	No. 4.	Wind	Clouds
7					38.0		
10	29.740 29.67	48.3	43.8	39.5		3	9 st. cirri cir.-cum
2					51.0		
4	29.670 29.63	51.6	49.2	41.8		1	10 st.
9					41.4		

Max. 51.5
Min. 37.6
Solar Therm. 109.2

(48.6)

Showers yesterday evening. Gauges examined at 11 A.M. No. 1, $0\frac{3}{4}$ ounces. No. 2, $2\frac{1}{4}$ ounces. No. 3, $0\frac{1}{5}$ ounces.

Prof. Winlock noticed a sudden illumination of his chamber, as if by a flash of lightning at $2^h\ 20^m$ A. M. today. The window was covered by a white shade. The sky, on looking out, was clear. Probably the light was that of a large meteor.

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SUNDAY, NOVEMBER 7. 1869.

	Barom.	Attd	Dry	Wet	No. 4	Wind	Clouds
7							
10	29.308 29.27	46.1	37.2	33.4		17	10 st.
2					39.1		
4	29.310 29.26	42.5	36.6	33.0		10	6 st. cum.
9					29.4		

Max. 41.3
Min. 34.5
Solar Therm. 104.0 (46)

Rain during previous night. Morning windy.
Gauges examined at 10½ A.M.
No. 1, 6½ ounces. No. 2, 46½ ounces. No. 3, 19½ ounces.
No. 1 seems to have leaked.

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MONDAY, NOVEMBER 8, 1869.

	Barom.	Att.	Dry	Wet	No. 4	Wind	Clouds
7							
10	29.440 29.34	41.9	34.2	29.7		13	10 ct.
2					36.1		
4	29.45 2 29.36	44.4	34.8	30.1		11.6	8 st. cum. 17 cum.
9 1/4					33.9		

Max. 36.7
Min. 27.3
Polar Therm. 80.9

(40.5)

Aurora behind clouds

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TUESDAY, NOVEMBER 9, 1869.

	Barom.	Att.	Dry	Wet	No. 4	Wind	Clouds
7					31.5		
10	29.659 29.55	41.8	37.4	31.2		13	9 cum. st.
2 1/4					40.3		
4	29.533 29.53	45.9	39.3	33.5		13	0 st.
9					35.6		

Max. 40.8
Min. 31.7
Solar Therm. 106.4

52.8

Aurora - streamers & arch

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WEDNESDAY, NOVEMBER 10, 1869.

	Barom.	Att.	Dry	Wet	No. 4	Wind	Clouds
7					30.0		
10	29.732 29.62	42.6	38.7	33.2		6 est.	0 cum.
2					43.0		
4	29.738	47.0	41.0	33.6		10 est.	0 St. cum.
9					33.1		

Max. 43.4
Min. 29.2
Solar Therm. 107.0 (56.7)

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THURSDAY, NOVEMBER 11, 1869.

	Barom.	Attd.	Dry	Wet	No. 4	Wind	Clouds
7					28.5		
10	29.848	41.3	35.8	30.3		8	1 st. cir.-st. haze cum.
2½					39.6		
4	29.781	45.0	38.5	33.3		9	7 st. cum. cum.-st.
9					30.6		

Max. 40.7
Min. 27.8
Solar Therm. 102.6 48.6

A few flakes of snow in the afternoon.
Appearance of some aurora behind clouds.

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FRIDAY, NOVEMBER 12, 1869.

	Barom.	Att.	Dry	Wet	No. 4	Wind	Clouds
7					25.7		
10	29.901	40.0	35.7	30.2		12	0 st. cum.
2					39.6		
4	29893	44.5	38.2	33.5		6	10 st. cum-st.
9¼					32.2		

Max. 39.6
Min. 25.4
Solar Therm. 107.5

(39.8)

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SATURDAY, NOVEMBER 13, 1869.

	Barom.	Att.	Dry	Wet	No. 4	Wind	Clouds
7					26.0		
10	30.040	40.2	34.2	29.4		9	0 cir-st.
2 1/4					39.9		
4	30.038	45.2	39.0	33.0		0	10 st,
9					33.8		

Max. 40.0
Min. 26.1
Solar Therm. 105.0

393

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SUNDAY, NOVEMBER 14, 1869.

	Barom.	Att.	Dry	Wet	No. 4	Wind	Clouds
7					31.6		
10	29.861	41.7	32.7	32.2		11	10 min. Snowing
2					33.1		
4	29.832	42.3	33.1	33.1		7	10 min. Snowing
9					33.4		
10½							

Max. 33.9
Min. 26.2
Solar Therm. 44.2

(34.7)

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MONDAY, NOVEMBER 15, 1869.

	Barom.	Att.	Dry	Wet	No. 4	Wind	Clouds
7					28.5		
10	29.932	39.5	33.2	03.2		3	10 st. cum.
2 1/2					35.9		
4 1/4	29.927	~~42~~ 42.6	35.5	33.0		11 8	9 st. cum.
9					28.1		

Max. ~~73.8~~ 36.3 (57.2)

Min. ~~27~~ 27.7

Solar Therm. 73.8

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TUESDAY, NOVEMBER 16, 1869.

	Barom.	Att.	Dry	Wet	No. 4	Wind	Clouds
7					18.0		
10	30.160	35.8	26.5	24.0		10	1 cum. st.
2 1/4					32.5		
4	30.186	41.6	30.7	25.7		3	8 cir + st
9	(from memory)				25.6		

Max. 34.8
Min. 17.9
Solar Therm. 99.7 (31.8)

Gauges examined at 2½ P.M. for melted snow from fall of Nov. 14, through the day. No. 1, 7¼ ounces. No. 2, 10½ ounces. No. 3, 5¾ ounces.

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WEDNESDAY, NOVEMBER 17, 1869.

	Barom.	Att.	Dry	Wet	No. 4	Wind	Clouds
7					32.5		
10	29.784	38.8	38.2	37.5		17	10 min. rain.
2					49.0		
4	29.408	43.0	52.0	53.5		11	10 min. a little rain
9 1/6					49.6		

Max. 55.5
Min. 24.3
Solar Therm. 56.2 56.0

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THURSDAY, NOVEMBER 18, 1869.

	Barom.	Att.	Dry	Wet	No. 4	Wind	Clouds
7					35.3		
10	29.604	42.1	39.5	34.5		19	6 st. cum.
2					41.3		
4½	29.800	43.6	39.0	33.5		11.18	9 st. cum.
9					32.7		

Max. 49.6
Min. 33.7
Solar Therm. 107.2

Rain most of Nov. 17
Gauges examined today at 9½ A. M.
No. 1, 17 inches. No. 2, 6½ inches. No. 3, 30 inches.

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FRIDAY, NOVEMBER 19, 1869.

	Baromr.	Attd	Dry	Wet	No. 4	Wind	Clouds
7					26.5		
10	30.157	39.0	34.8	31.3		2	0 a little haze
2					43.0		
4	30.156	44.5	41.3	36.4		1	5 St. cir-st.
9					40.0		

Max. 49.7
Min. 25.8
Solar Therm. 106.9

(45.9)

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SATURDAY, NOVEMBER 20, 1869.

	Barom.	Att.	Dry	Wet	No. 4	Wind	Clouds
7					45.8		
10	29.504	46.3	42.0	41.5		15	10 raining
2					57.1		
4	29.598	49.4	51.8	48.3		17	2 strat. cumst.
9					44.0		

Max. 59.3
Min. 34.4
Solar Therm. 115.7

Rain & high wind in the night & morning. Gauges examined at 2½ P.M.
Gauge No. 1 found upset and water spilled
No. 2, 67½ ounces. No. 3, 34 ounces.

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SUNDAY, NOVEMBER 21, 1869.

	Barom.	Att.	Dry	Wet	No. 4	Wind	Clouds
7					35.0		
10	29.868	44.6	39.1	38.4		5 est.	10 st. nim. fog
2¼					47.4		
4	29.850	48.0	45.1	42.1		1 est.	10 st. cum. st.
9					39.0		

Max. 47.6
Min. 34.7
Solar Therm. 109.4

43.4

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MONDAY, NOVEMBER 22, 1869.

	Barom.	Att.	Dry	Wet	No. 4	Wind	Clouds
7					29.0		
10	30.178	40.7	31.0	26.3		1/4 est.	0
2					35.2		
4							
9					28.8		

Max. 39.3
Min. 26.6
Solar Therm.

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TUESDAY, NOVEMBER 23, 1869.

	Barom.	Attr.	Dry	Wet	No. 4	Wind	Clouds
7					34.6		
10	30.080	42.1	39.2	38.2		2 est	10 St. nim. rain
2					42.5		
4	30.040	43.9	40.2	39.4		2 est	10 St nim.
9					35.9		

Max. 43.1
Min. 28.0
Solar Therm. 99.6 ..... 40.1

This maximum probably belongs to Nov 22

1869phae.proj . 368

WEDNESDAY, NOVEMBER 24, 1869.

	Barom.	Att.	Dry	Wet	No. 4	Wind	Clouds
7					34.0		
10	30,066	42.4	34.3	33.0		8 est.	10 st. sim
2¼					35.5		
4	30.150	65.9	36.4	35.4		8 est.	10 st.
9¼					30.4		

Max. 37.3
Min. 33.3
Polar Therm. 41.8

(36.4)

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THURSDAY, NOVEMBER 25, 1869.

	Barom.	Attd	Dry	Wet	No. 4	Wind	Clouds
7					23.5		
10	30.360	61.7	34.5	28.0		1 Sat	0 Sh cum.
2¼					35.9		
4	30.336	66.1	35.1	31.1		4 Sat.	3 cir. cum, cir. st. st.
9					28.8		

Max. 36.8
Min. 22.9
Solar Therm. 100.2 (47.3)

Rain & snow 23d/m & 24th/m Gauges examined at 1 P.M. Nov. 25.
No. 1, 14½ ounces. No. 2, 46½ ounces. No. 3, 21 ounces

Some auroral light in the evening.

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FRIDAY, NOVEMBER 26, 1869.

	Barom.	Att.	Dry	Wet	No. 4	Wind	Clouds
7					22.3		
10	30.338	60.8	30.4*	28.6*		3 est.	0 cir-st.
2					36.1		
4½	30.25-1	66.4	35.0	32.0		0	10 st.
9¼					33.8		

Max. 36.7
Min. 21.0
Solar Therm. 96.0

34.6

*At 10 5/6

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SATURDAY, NOVEMBER 27, 1869.

	Barom.	Attr.	Dry	Wet	No. 4	Wind	Clouds
7					22.5		
10	29.985	61.5	36.1	34.6		1 est.	10 ct.
2½					37.6		
4	29.810	64.6	37.8	36.8		2 est.	10 ct.
9					32.6		

Max. 37.7
Min. 27.8
Solar Therm. 43.2

36.6

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SUNDAY, NOVEMBER 28, 1869.

	Barom.	Att.	Dry	Wet	No. 4	Wind	Clouds
7					29.0		
10	29.974	53.8	33.5	28.3		W est.	0 cum. st.
2 1/6					35.5		
4 3/4						10 est.	1 st. cum.
9					29.1		

Max. 35.9
Min. 28.1
Solar Therm. (at 4 3/4) 101.7 (31.2)

A little snow during Nov. 27. Gauges examined Nov. 28, at 2 1/2 P. M.
No. 1 & 3 too little for measurement.
No. 2 0 11/4 ounces.

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MONDAY, NOVEMBER 29, 1869.

	Barom	Att.	Dry	Wet	No. 4	Wind	Clouds
7					28·3		
10	30.192	66.1	33.6	30.2		8	8 st. cir.-st. cir.
2					39.7		
4	30.166	75.6	38.3	33.9		2	10 st. cir.-cum. cir.-st.
9					37.9		

Max. 43.1
Min. 24.6
Solar Therm 101.9

(38.9)

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1869phae.proj.1368

TUESDAY, NOVEMBER 30, 1869.

	Barom.	Att.	Dry	Wet	No. 4	Wind	Clouds
7					44.0		
10	29.911	61.2	46.3	45.3		11	10 rain
2							
4	29.799	57.8	52.4	49.2		8	10 rain
9 N					53.0		

Max. 54.1
Min. 32.7
Solar Therm. 63.0

53.0

Rain in the early part of the day.
Gauges examined at 3¾ P.M.
No. 1, 10 ounces. No. 2, 24½ ounces. No. 3, 9½ ounces.

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WEDNESDAY, DECEMBER 1, 1869.

	Barom.	Att.	Dry	Wet	No. 4	Wind	Clouds
7					49.0		
10	29.781	66.0	46.8	39.3		20	2 St. cir. St. cum.
2 1/6					42.9		
4	29.937	68.3	39.1	33.1		12	10 St.
9					34.8		

Max. 59.0
Min. 32.9
Solar Therm. 99.0 (39.0)

Rain in the morning and night preceding.
Gauges examined at 10½ A. M.
No. 1, 5 1/4 ounces. No. 2, 16 ounces. No. 3, 5 ounces.

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THURSDAY, DECEMBER 2, 1869.

	Barom.	Att.	Dry	Wet	No. 4	Wind	Cloud
7					22.0		
10	30.150	53.7	*23.9	*20.1		11	10 St
2 1/4					22.7		
4							
9					19.3		

Max. 35.H
Min. 21.3
Solar Therm.
*At 10 3/4

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FRIDAY, DECEMBER 3, 1869.

	Barom.	Att.	Dry	Wet	No. 4	Wind	Clouds
7					15.5		
10	30.110	52.7	17.4	16.9		13 est	10 st. snow a little since
2					19.7		
4	30.180	52.4	18.9	16.9		2 est.	5 st. cumulus in-st.
7					12.9		

Max. 19.9
Min. 15.5
Solar Therm. 80.5 18.5

Snow most of the time from 1 P.M. Dec. 2 to 10 A.M. Dec. 3, but falling very slowly. Depth about 2½ inches (mean of three or four measures in different places west & south of the Observatory). Gauges No. 1 & 3 examined at 5 P.M. No. 1 3¾ ounces. No. 3, 2½ ounces. No. 2 not examined as the snow in the funnel on the roof had not melted.

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SATURDAY, DECEMBER 4, 1869.

	Barom.	Att.	Dry	Wet	No. 4	Wind	Clouds
7					7.0		
10	30.369	46.8	15.7	15.1		0	10 st. in. st (very thin)
2					27.2		
4	30.186	49.2	28.8	27.0		3 est.	10 st.
9					32.0		

Max. 31.7
Min. 6.1
Solar Therm. 91.2

(28.0)

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SUNDAY, DECEMBER 5, 1869.

	Barom.	Att.	Dry	Wet	No. 4	Wind	Clouds
7					34.0		
10	30.059	52.0	35.4	34.6		3 est.	10 min. snowing
2					38.0		
4	30.079	52.7	35.1	34.4		0	10 st. cir.-st.
9					33.6		

Max. 37.4
Min. 15.7 as when set 4th.
Solar Therm. 59.8

(34.3)

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1869phae.proj.368

MONDAY, DECEMBER 6, 1869.

	Barom.	Att.	Dry	Wet	No. 4	Wind	Clouds
7					21.7		
10	30.201	49.5	20.0	20.0		14	10 nim. snowing
2					15.6		
4¼	30.015	50.7	14.3	14.8		15	10 nim. snowing
9					15.6		

Max. 33.7 (as when set 5th A M)
Min. 20.0
Solar Therm. 38.8

(14.9)

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TUESDAY, DECEMBER 7, 1869.

	Baromr	Att.	Dry	Wet	No. 4	Wind	Clouds
7					15.7		
10	29.914	46.9	20.0	18.0		17	9 st. cir.-st.
2					21.5		
4	30.070	52.0	21.0	18.0		7 est.	0 cir-st.
9					14.2		

Max. 22.1
Min. 13.4
Solar Therm. 113.2

(17.0)

Snow most of Dec. 6. Measurements on Observatory grounds give depths at 11 A.M. Dec. 7 as follows: 4½, 5, 6, 8, 8, 13 inches. Mean 8.25 inches. Cylinders of snow cut out with a stovepipe of the mean diameter of 5½ inches, at these places. Amount of melted snow thus collected 112 ounces.
Gauge No. 1 (leaky) 26½ ounces. No. 2 (snow mostly still in funnel) 19 ounces. No. 3, 30 ounces.

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WEDNESDAY, DECEMBER 8, 1869.

	Barom.	Att.	Dry	Wet	No. 4	Wind	Clouds
7					7.5		
10	30.353	47.7	15.4	13.4		5 est.	0 st.
2					24.6		
4	30.392	54.8	13.4	19.6		5 est.	1 st.
9					17.4		

Max. 25.5
Min. 6.9
Solar Therm. 100.0

(35.0)

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THURSDAY, DECEMBER 9, 1869.

	Barom.	Att.	Dry	Wet	No. 4	Wind	Clouds
7					10.5		
10	30.662	43.4	19.0 x	17.0 x		0	0
2							
4							
9					15.3		

Max. 24.7 thermometer could not be got at to-day
Min. 9.2 Set at 10 A.M. next day
Solar Therm.

x At 11

1869phae.proj . . 368

FRIDAY, DECEMBER 10, 1869.

	Barom.	Att.	Dry	Wet	No. 4	Wind	Clouds
7					1.5		
10	30.598	46.5				1 est.	1 st. haze
2					26.7		
4	30.411	46.6	27.0	24.0		0	1 st. haze
9					16.1		

Max. 27.6
Min. — 0.2
Solar Therm. 100.2

(37.6)

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SATURDAY, DECEMBER 11, 1869.

	Barom.	Attd	Dry	Wet	No. 4	Wind	Clouds
7					15.0		
10	30.199	44.9				2	0 cir. haze
2					42.6		
4	30.231	65.9	41.0	36.6		2	0 cir. cir-st
9					32.3		

Max. 44.2
Min. 40.6
Solar Therm. 108.2 (49.7)

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SUNDAY, DECEMBER 12, 1869.

	Barom.	Att.	Dry	Wet	Noon	Wind	Clouds
7					28.5		
10	30.216	62.4	34.6	33.6		0	10 st.
2					36.1		
4	30.091	58.0	36.3	36.1		0	10 st. fog.
9					34.7		

Max. 37.2
Min. 24.7
Solar Therm. 49.7 as set yesterday (37.0)

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MONDAY, DECEMBER 13, 1869.

	Barom.	Att.	Dry	Wet	Nor.	Wind	Clouds
7					32.5		
10	30.280	57.7	34.1	32.3		6 est.	10 st.
2					36.0		
4	30.369	59.6	35.1	32.6		6 est.	10 st.
9					30.9		

Max. 36.2
Min. 31.9
Solar Therm. 99.6 (35.3)

Rain Dec. 12. Gauges examined Dec. 13 2½ P.M.
No. 1, 5½ ounces. No. 2, 3¼ ounces. No. 3, 5½ ounces.
Water in No. 2 mainly from previous snow.

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TUESDAY, DECEMBER 14, 1869.

	Barom.	Att.	Dry	Wet	No. 4	Wind	Clouds
7					18.5		
10	30.500	52.9				5 est.	0 cirro-st.
2					29.5		
4							
9					19.6		

Max. 33.7
Min. 16.5
Solar Therm.

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WEDNESDAY, DECEMBER 15, 1869.

	Barom.	Attr.	Dry	Wet	No. 4	Wind	Clouds
7					13.5		
10	30.473	53.0	18.9	17.4		7 est.	4 cirst. cir.
2					30.5		
4	30.400	64.5				0	2 cirst. cir. st.
9					22.7		

Max. 32.8
Min. 13.0
Solar Therm. 98.8

(41.1)

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THURSDAY, DECEMBER 16, 1869.

	Barom.	Att.	Dry	Wet	No. 4	Wind	Clouds
7					21.3		
10	30.242	57.8				5 est.	10 ct.
2 1/2					40.2		
4	30.100	60.5	39.9	38.4		8 est.	10 ct.
9					39.9		

Max. 42.8
Min. 17.0
Solar Therm. 76.0 41.0

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FRIDAY, DECEMBER 17, 1869.

	Barom	Att.	Dry	Wet	Nad	Wind	Clouds
7					36.0		
10	30.089	37.4	39.2	37.8		3 ct.	8 st. cir. st.
2					43.0		
4							
9					34.4		

Max. 48.1
Min. 28.3
Solar Therm.

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SATURDAY, DECEMBER 18, 1869.

	Barom.	Attc	Dry	Wet	No. 4	Wind	Clouds
7					35.3		
10	29.980	68.7	38.2	36.8		8 est.	10 st.
2¼					37.3		
4	29.579	67.5	37.3	37.1		13 est.	10 nim. rain
9					34.9		

Max. 38.4
Min. 30.8
Solar Therm. 10 6.1 yesterday (37.5)

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SUNDAY, DECEMBER 19, 1869.

	Barom.	Attn	Dry	Wet	North	Wind	Clouds
7					34.2		
10 1/2	29.550	62.8	34.0	29.8		18 est.	3 st. cir. st. cum.
2 1/4					32.9		
4	29.788	63.0	32.8	28.3		13 est.	1 cir. st. st. cum.
9					30.2		

Max, 36.1
Min 32.7
Solar Therm. 96.5

52.0

Rain Dec. 16 ; also Dec. 18.
Gauges examined at 12 1/4 P.M. Dec. 19
No. 1 (leaky) 10 ounces. No. 2, 15 4 ounces. No. 3, 6 1/2 ounces.

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MONDAY, DECEMBER 20, 1869.

	Barom.	Att.	Dry	Wet	No. 4	Wind	Clouds
7							
10 1/4	30.158	55.7	30.0	27.0		7 est	0 st. cir.-st.
2					32.4		
4	30.195	65.3	31.1	26.6		7 est.	10 st. cir.-st.
9					27.2		

Max. 32.9
Min. 22.9
Polar Therm. (99.2) (31.5)

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TUESDAY, DECEMBER 21, 1869.

	Barom.	Attr.	Dry	Wet	Nort.	Wind	Clouds
7					20.5		
10	30.626	58.0	27.7	26.0		6 est.	1 st. cir-st
2 1/4					31.1		
4	30.668	64.8	30.2	26.2		1 est.	10 st. cir-st cir-cum. cir.
9 1/6					28.9		

Max. 31.1
Min. 19.5
Solar Therm. 91.7

31.5

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WEDNESDAY, DECEMBER 22, 1869.

	Barom.	Att.	Dry	Wet	No. 4	Wind	Clouds
7							
10	30.214	61.8	37.0	36.5		Calm.	10 min. raining
2 1/4					45.5		
4	29.795	62.7	49.6	49.2		14 est.	10 rain. fine rain
9					50.4		

Max. 51.3
Min. 27.0
Polar Therm. 53.7

52.6

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THURSDAY, DECEMBER 23, 1869.

	Barom.	Att.	Dry	Wet	North	Wind	Clouds
7							
10	30.086	70.3	34.5	29.5		12	0 cir. st
1.45 2-¼	30 101	68.0	34.5	29.0	34.8	15	1 cir-cum
4							
10	30.300	60.8			27.3		

Max. 57.0
Min. 21.9
Solar Therm. 98.5

Rain Dec 22 10 A
No 1 6½
No 2 79.0z
No 3 31½

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FRIDAY, DECEMBER 24, 1869.

	Barom.	Att.	Dry	Wet	Nut 4	Wind	Clouds
7					23.5		
10	30.560	56.7	28.0	24.0	28.0	7	3 cir
2	~~30.528~~	~~66.2~~			33.8		
4½	30.528	66.2	33.0	32.0		3	0.
9					28.0		

Max. 34.8
Min. 22.4
Solar Therm. 94.8

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SATURDAY, DECEMBER 25, 1869.

	Barom.	Att.	Dry	Wet	Nash	Wind	Clouds
7					33.0		
10	30.612	63.3	33.6	32.0	33.6	S-	3 cirst
2							
4½	30.5-3-6	67.8	39.0	35.6	39.2	3	10 d
9					37.0		

Max. 41.8
Min. 25.9
Solar Therm. 93.0

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SUNDAY, DECEMBER 26, 1869.

	Barom.	Att.	Dry	Wet	No. 4	Wind	Clouds
7					38.6		
10	30.422	64.0	40.6	40.4	40.8	0	10 fog, and raining
2							
4	30.230	70.3	43.5	43.0	44.0	5	10 rain
9							

Max. 43.8
Min. 33.6
Solar Therm. 47.0

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MONDAY, DECEMBER 27, 1869.

	Barom	Attr	Dry	Wet	No 4	Wind	Clouds
7					40.0		
10	30.154	70.5	41.0	41.0	41.0	8	10 mist & fog
2							
4	30.108	71.0	43.2	42.7		0	10 fog and fine rain
9					41.3		

Max. 43.8
Min. 39.8
Solar Therm. 55.2

440

Raingauges No 1 36 oz
No 2 48 oz } the pipe from detached as was not to catch the rain
No 3 72½ oz

the two last measures of No 2 & No 3 compared agree in giving 181 oz as the probable amount of rain in No 2 for this date

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TUESDAY, DECEMBER 28, 1869.

	Baroni.	Att.	Dry	Wet	No. 4	Wind	Clouds
7					39.5		
10	29.910	71.0	41.9	41.7		1	10 St. fog
2 1/4					43.4		
4 1/4	29.722	72.0	42.2	42.0		7	10 fine rain fog
9					39.3		

Max. 43.5
Minr 38.8
Polar Therm. 50.0

(43.1)

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WEDNESDAY, DECEMBER 29, 1869.

	Barometer	Dry	Wet	North	Wind	Clouds
7				36.0		
10	29.869	67.3	39.5	36.0	6	10 St. cum.
2				39.9		
4	29.851	64.0	39.5	35.0	8	9 St. cum.
9 1/6				37.4		

Max. 41.4
Min. 35.5
Solar Therm. 61.0 (41.0)

Rain Dec. 27 and 28.
Gauges examined at 11 A. M. Dec. 29
No. 1, 11 1/2 ounces. No. 2, 55 ounces. No. 3, 33 1/2 ounces.

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THURSDAY, DECEMBER 30, 1869.

	Barom.	Att.	Dry	Wet	No. 4	Wind	Clouds
7					35.3		
10	29.819	61.1	38.0	34.8		6	10 st.
2							
4							
9					37.4		

Max. 40.8
Min. 35.0
Polar Therm.

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FRIDAY, DECEMBER 31, 1869.

	Barom.	Att.	Dry	Wet	No. 4	Wind	Clouds
7					33.0		
10	30.028	62.1	39.4	34.9		8	0 st. cum.
2					42.8		
4							
9 10					31.7		

Max. 43.6
Min. 31.8
Solar Therm.

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