

KG
11365
263

M.15

Meteorological.
January 1st 1861.
to

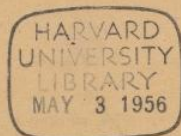
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Record of coldest days, 1841-61	p. 6
Constants, rain & snow,	9
Comparison of hygrometer and psychrometer	13 to 15
Barometer comparisons	21
Corrections for elevation of barometer	22
Maxima and minima, 1861,	61

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Meteorological Record for 1861.

Friday Jan^y 4th Sent record of Therm. for last seven days of December to Dr J. J. Agnew.

Weekly ~~W~~ Record for Boston Medical Journal Sat. 5th Jan^y.

Bar.	Th.			
1506'10 ²	117 ³	38	Max. Bar.	30.600
1508'13 ⁸²	135 ¹	88	Min. "	29.500
1500'724 ⁷	149 ²	126	Max. Th.	40°
1503'226 ¹	114 ²	079	Min. "	
300455	318	1134		
		126		
28) 45.28'6 ² (30.188	28) 83'33 ¹ (29.75	2.394	Rain & melted snow	
84	56	019	38	rain
0052	273	792	342	
28	252	88	38	
248	210	1.672	.722	
224	196			
246	140			

Weekly Record for Boston Medical Journal. Sat. 12th 1861.

Bar.	Th.			Rain & snow
209662 ¹	180	123 ³	Max. Bar	30.322
180340 ³⁴ nom.	209	111 ³	Min. "	29.538
21003130 ³		196 ²	Max. Th.	37°
2097828 ¹		152 ⁴	Min. "	3°
27) 80'97'6'4' (29.991	27) 57'7' (21.37	54		24
54	37	217		019
269	100	81		216
243	190			24
267				.456
243				
246				
243				
34				

Tuesday Jan^y 15th Made out Monthly Record of rain for 1860.

1860	by	Inches	by	Inches
January	52.5 =	0.997	July	297.5 = 5.652
February	116.5 =	2.213	August	276.0 = 5.244
March	91.0 =	1.729	September	491.0 = 9.329
April	69.5 =	1.320	October	98.0 = 1.862
May	119.0 =	2.261	November	222.5 = 4.227
June	388.0 =	7.372	December	250.0 = 4.750
		Total 46.956		
		Total 46.956		

Record of Temperature & Quantity of Rain for years 1859-60
 sent to Josiah Curtis M.D. Boston. Jan^y 17th.

1859	Jan ^y	Feb ^y	March	April	May	June	July
Cambridge	Mean 25.4	28.5	38.21	42.9	55.1	63.2	69.9
	Extremes { 54° -17	46 76	57 8	62 29	86 42	89 47	96 42
	Rain In. 8.227	6.479	8.436	2.356	2.983	6.814	1.500
1860	Jan ^y	Feb ^y	March	April	May	June	July
Cambridge	Mean 27.43	25.82	38.15	44.64	56.0	65.43	68.7
	Extremes { 49° -5	56 -8	71 20	88 17	80 35	85 45	84 48
	Rain In. 0.997	2.213	1.729	1.320	2.261	7.371	5.652

Weekly Record for Medical Journal Jan^y 19th 9 am

Bar.	Therm ^o	Max. Bar.	Min. "	Max. Th ^o	Min. "	Wind	Rain
210 66 ³ / ₈	127	30.592	29.618	36°	-10°	North	2.090
211 07 ² / ₂	140 ²						
210 88 ² / ₈	167 ³						
210 93 ¹ / ₄	142 ²						
28) 8434 ² / ₈ (30.124	57 ¹ / ₆						
84	-22						
34	28) 554 (29.8						
28	28						
67	274						
56	252						
118	220						

Jan^y 23rd sent Record of Temperature and Rain for 1860 to
 R. S. Paine Esq^r

Weekly Record for Medical Journal Jan^y 26th 1861.

Bar	Th ^o	Max Bar	Min. "	Max. Th ^o	Min. "	Wind	Rain
211 31 ³ / ₈	140 ⁴	30.700	29.640	39°	10°	Westerly & Southerly	3.344
181 30 ² / ₂	145 ²						
210 77 ³ / ₂	214 ²						
211 03 ² / ₈	171 ³						
27) 81'44'9'4" (30.166	27) 67'0" (24.8						
81	54						
44	130						
27	108						
179	220						
162	216						
174	4						

Sat. Jan^y 26th sent record of Rain for 1860 to Mr French Lake
 Village N. H.

August	Sept.	Oct.	Nov.	Dec.		
68.03	58.5	46.5	41.6	24.4	47.1	Latest frost April 15 th
57	75	77	69	65	90	Earliest Oct. 24 th
5.390	5.366	3.117	3.683	4.987	59.338	Without " 192 days
69.5	59.5	51.4	42.7	27.4	30.5	
59	54	50	49	45	89	
51	33	33	15	1	5	
5.244	9.329	1.862	4.227	4.750	46.955	

Sums and Means for the Month of January 1861.

Barometer	Barometer	Barometer
9 Am $\begin{array}{r} 31) 93083.46 \\ 43 \text{ cor. } - .052 \\ \hline 29975 \\ 083 \\ 62 \\ \hline 214 \end{array}$	9 Am $\begin{array}{r} 29 \\ 15 \\ \hline 145 \\ 29 \\ \hline 435 \\ 480 \\ 15 \\ \hline 930 \end{array}$	2 PM $\begin{array}{r} 31) 931448 \\ 193 \text{ cor. } - .082 \\ \hline 29964 \\ 144 \\ 124 \\ 208 \\ 186 \\ \hline 931 \end{array}$
Att^d Thermometer $\begin{array}{r} 31) 1513^{13} \\ 124 \\ 273 \\ 2148 \\ 230 \\ 248 \\ \hline 20 \end{array}$	Att^d Thermometer $\begin{array}{r} 29) 1683^{12} \\ 145 \\ 233 \\ 272 \\ \hline 100 \end{array}$	Att^d Thermometer $\begin{array}{r} 31) 1874^{14} \\ 186 \\ 140 \\ 124 \\ \hline 160 \end{array}$

Ext. Thermometer	External Thermometer
7 Am $\begin{array}{r} 31) 582^{14} \\ 31 \\ 272 \\ 2148 \\ 240 \\ 277 \\ \hline 230 \end{array}$	9 Am $\begin{array}{r} 29) 640^{11} \\ 58 \\ 60 \\ 58 \\ \hline 200 \end{array}$
2 PM $\begin{array}{r} 31) 877^{13} \\ 62 \\ 257 \\ 248 \\ 90 \\ 62 \\ \hline 280 \end{array}$	9 PM $\begin{array}{r} 31) 701^{13} \\ 62 \\ 81 \\ 62 \\ 190 \\ 146 \\ \hline 40 \end{array}$

Barometer
9 PM $\begin{array}{r} 31) 931882^{15} \\ 93 \text{ cor. } - .082 \\ \hline 29978 \\ 186 \\ 22 \\ 348 \\ 570 \\ 13 \\ \hline 931 \end{array}$

Force of Wind	Force of Wind
7 Am $\begin{array}{r} 31) 300^{96} \\ 279 \\ 210 \\ 186 \end{array}$	9 Am $\begin{array}{r} 29) 31^{107} \\ 29 \\ 200 \end{array}$
2 PM $\begin{array}{r} 31) 32^{103} \\ 31 \\ 100 \end{array}$	9 PM $\begin{array}{r} 31) 300^{96} \\ 279 \\ 210 \end{array}$

Att ^d Thermi ^o
31) 1854¹³ $\begin{array}{r} 155 \\ 304 \\ 279 \\ 250 \\ 248 \\ \hline 20 \end{array}$

Amount of Cloudiness	Amount of Cloudiness
7 Am $\begin{array}{r} 31) 207^{668} \\ 186 \\ 270 \\ 186 \\ \hline 240 \end{array}$	9 Am $\begin{array}{r} 29) 187^{645} \\ 174 \\ 130 \\ 116 \\ \hline 140 \end{array}$
2 PM $\begin{array}{r} 31) 206^{665} \\ 186 \\ 200 \\ 186 \\ \hline 140 \end{array}$	9 PM $\begin{array}{r} 31) 141^{455} \\ 124 \\ 170 \\ 155 \\ \hline 150 \end{array}$

Rain
9m $\begin{array}{r} 0.0 \\ 38 \\ 88 \\ 6 \\ 10 \\ 43 \\ 66 \\ 17 \end{array}$

Means and Sums for the month of January 1861. Cont.

Rain

	Inches	.38	.88	.6	.4	.10	.4	.43	.66
07		.019	.019	.019	.019	.019	.019	.019	.019
38	=	342	792	114	076	90	076	387	594
88	=	722	88			190		817	1254
6	=								
4	=								
10	=	.019	.019	.019	.019	.019	.019	.019	.019
4	=		17	176	14	3		470	
43	=		323	3944	266			4230	
66	=							470	
1	=							8930	
17	=								
176	=								
14	=								
3	=								
4730	=								

Monthly mean of Barometer

29.975	Max. 30.718
30.633	cor. -.083
29.964	239m 30.635
29.978	Min. 29.538
4) 119.92502	cor. -.075
29.987	10 th 29.463

Monthly Mean of External Th°

18.77	Max. 40° 3 rd
22.107	Min. -10° 13 th
28.29	
22.61	
4) 91.74	
22.93	

Monthly mean of Clouds.

6.68
6.45
6.65
4.55
4) 24.332
6.08

Monthly mean of Wind

0.96
1.07
1.03
0.96
4) 4.022
1.00

Weekly Record for Medical Journal Feb^{ry} 2nd

Bar.	Th°	Wind	MM
149.576	88°	Rain	0.323
149.732	114°	Max. Bar	30.238
149.462	183°	Min. Bar	29.600
149.592	145°	Max Th	35
30.238	60	Min Th	5
30.146	26		
50.868	63		
50.948	28) 719		
60.208	150		
83.857	140		
79.485	100		
29.928	24		

Thermometer for three last days of October 1860.

Oct. 29 th	7 ^{am}	9 ^{am}	2 ^{pm}	9 ^{pm}		Rain & 7 th Jan ^{ry}
	51°	54°	62°	56°	.10	~~.190~~
30 th	56	62	65	56	.019	~~.019~~
31 st	53	61	70	58	9.0	~~17.1~~
					1.0	~~19.0~~
					.190	3.610

Rain for 7th January 1861 — — — — —
 Total rain and melted snow for January 1861 — — — — —

Inches
 0.190
 Inches
 8.930

Sent to Mr J. F. Dipwell Feb 7th

Record of Thermometer for Feb 7th & 8th 1861 Coldest

Self Register

Feb 7th & 8th Max. Th° 41.5
 " " Min. -18.5

Feb 7th 3.55 PM Th° +40.5

" " 7.15 PM " +4.0

" " 7.55 PM " +3.5

" " 8.15 PM " +3.0

" " 8.55 PM " +3.5

" " 9.00 PM " +4.0

" " 10.45 PM " -3.0

" " 11.15 PM " -5.0

" 8th 6.00 AM " -19.0

" 8th 7.15 AM " -18.

" 8.45 AM " -16.5

Day very squally. Rain 12 to 2 PM
 4 PM Violent snow squall, cold
 rapidly increasing. Th° fell 36.5 in 24 hours.

8th 10 AM Ther° -15°

" 1 PM " -9.75

" 4 PM " -6°

Towards evening temperature rose slightly.

Weekly Record for Boston Medical Journal. Feb 7th 1861

Barometer

Thermometer

180.994

30.000

211.282

180.056

210.516

27) 812848 (30.105

81

28

27

148

135

144 -18

163 -16

184 -14

158 -47

649

-47

27) 602 (22.29

54

62

54

80

54

260

Max. Bar. 30.682

Min. " 29.138

Max. Th° 41°

Min. Th° -10.5

Rain & M. Snow 0.114

Wind N & SW

6
 0.19
 1.14

Feb 7th 3.55 PM Th° 40.5 8th 6 AM 19° Fall of 60° within 14 hours

Record of coldest days from 1861 to 1841

1861

6 th 7 th 18 th	Ther ^o
7 th 11 PM	-5
8 th 7 am	-18
9 am	-16
9 am	-8
9 am	-47

1859

January 10-11 th	
10 th 2 PM	Th ^o -4.5
9 PM	" -14
7 am	" -17
9 am	" -10
	-45.5

1857

January 18 th	
18 th 7 am	Th ^o -13
9 am	" -13
2 PM	" -4
9 PM	" 0
	-30

1857

January 23 rd 24 th	
23 rd 7 am	Th ^o -16
9 am	-15
2 PM	-8
9 PM	-8
	-47

This is a colder period than that of Feb^y 1861. The Therm^o stood at -16° on two successive mornings at 7 am.

23 rd 7 am	9 am	2 PM	9 PM
-16	-15	-8	-8
24 th -16	-12	+10	+6

-16	
-16	
-15	Making -59 for 48 hours.
-12	" -75 " 26 "
-8	
-8	
+10	
+6	
-75	
+16	
-59	

1855

February 6 th 7 th	
6 th 9 am	Th ^o -10
2 PM	-9
9 PM	-13
7 th 7 am	-16
	-48

1856

January 9 th	
9 th 7 am	Th ^o -10
9 am	" -5
2 PM	-1
9 PM	-7
	-2.3

1844

January 26 th 27 th	
26 th 3 PM	Th ^o 0
9 PM	" -5
27 th 5 PM	" -8
9 am	-6
	-19

January 29-30th

29 th 3 PM	Th ^o +3
9 PM	-5
30 th 3 PM	-8
9 am	-6
	-16

1841

January 4 th 5 th	
4 th 3 PM	Th ^o +13
9 PM	-15
5 th 5 PM	-11
9 am	-7
	-20

During this month the Therm^o fell off ten days below zero.
Lowest -9°.

Weekly Record for Boston Medical Journal. Feb^y 16th 1861.

Barometer	Thermometer	Max. Bar.	30.668	
210.872 ²	265 ²	Min. Bar.	29.482	50
211.041 ²	283	Max. Th.	53°	019
180.748 ²	243	Min. Th.	26°	450
211.131 ³	261	Rain In.	1.387	50
27) 813754 (30.139	27) 1052 (38.9	Wind	SW 12 & SE	23
81	81			019
34	242			207
27	216			23
105	260			437
81				950
244				1.387
243				

Weekly Record for Boston Medical Journal. Feb^y 23^d 1861.

Barometer	29	29	Thermometer		Rain
208.312	58	88	204	Max. Bar	30.100
208.504	150	120	223	Min. Bar	29.324
207.836	208	207	269	Max. Th.	43°
208.634			226	Min. Th.	15°
28) 833.286 (29.760			28) 922 (32.9	Rain	0.760
56			84	Wind	W & SW
273			82		
252			56		
212			260		
196			252		
168			8		
168					
6					

Weekly Record for Boston Medical Journal March 2^d Feb^y 23^d 1861

Barometer	Thermometer	Max. Bar.	30.478	Rain
30.582 ²⁴	44	Min. Bar.	29.500	7
89.586	84	Max. Th.	54°	5
150.570	134	Min. Th.	12°	12
150.808	159	Rain In.	0.228	019
189.530	186	Wind	N. N. SW	108
180.450	261			12
28) 84403.83502 (30.086	28) 107303 (38.21			228
84	84			
855	230			
168	224			
170	60			
	50			
	40			

Sums and Means for the month of February 1861.

Barometer

alt 4thExt. Th^o

Wind

$$\begin{array}{r}
 7 \text{ am} \\
 840.616 \\
 28 \overline{) 840.616} \quad (30.022 \\
 84 \quad \quad \quad 052 \\
 \hline
 061 \quad 29.970 \\
 56 \quad \quad \quad \hline
 56
 \end{array}$$

$$\begin{array}{r}
 7 \text{ am} \\
 28 \overline{) 1388^{12}} \quad (49.57 \\
 112 \quad \quad \quad \hline
 268 \\
 252 \quad \quad \quad \hline
 160 \\
 140 \quad \quad \quad \hline
 200 \\
 196 \quad \quad \quad \hline
 4
 \end{array}$$

$$\begin{array}{r}
 7 \text{ am} \\
 83.29 \\
 28 \overline{) 813} \quad (29.00 \\
 56 \quad \quad \quad \hline
 253 \\
 252 \quad \quad \quad \hline
 10
 \end{array}$$

$$\begin{array}{r}
 7 \text{ am} \\
 28 \overline{) 33^{12.5}} \\
 28 \quad \quad \quad \hline
 70 \\
 56 \quad \quad \quad \hline
 140
 \end{array}$$

$$\begin{array}{r}
 9 \text{ am} \\
 28 \overline{) 840.560} \quad (30.08 \times 2 \\
 84 \quad \quad \quad -0.054 \\
 \hline
 876 \quad 176 \quad 29.978 \\
 56 \quad 80 \quad \quad \quad \hline
 200 \quad 56 \quad \quad \quad \hline
 196 \quad 24
 \end{array}$$

$$\begin{array}{r}
 9 \text{ am} \quad 2' \\
 13.125 \\
 28 \overline{) 1709^{12}} \quad (61.39 \\
 168 \quad \quad \quad \hline
 39 \\
 28 \quad \quad \quad \hline
 110 \\
 84 \quad \quad \quad \hline
 260 \\
 252 \quad \quad \quad \hline
 8
 \end{array}$$

$$\begin{array}{r}
 9 \text{ am} \\
 92.80 \\
 28 \overline{) 905^{12}} \quad (32.32 \\
 84 \quad \quad \quad \hline
 65 \\
 56 \quad \quad \quad \hline
 90 \\
 84 \quad \quad \quad \hline
 60
 \end{array}$$

$$\begin{array}{r}
 9 \text{ am} \\
 28 \overline{) 35^{12.5}} \\
 28 \quad \quad \quad \hline
 70 \\
 56 \quad \quad \quad \hline
 140
 \end{array}$$

$$\begin{array}{r}
 2 \text{ pm} \\
 28 \overline{) 38^{12.5}} \quad (1.46 \\
 26 \quad \quad \quad \hline
 120 \\
 184 \quad \quad \quad \hline
 160
 \end{array}$$

$$\begin{array}{r}
 2 \text{ pm} \\
 100.02 \\
 28 \overline{) 992^{12}} \quad (35.43 \\
 84 \quad \quad \quad \hline
 212 \\
 208 \quad \quad \quad \hline
 40 \\
 26 \quad \quad \quad \hline
 140 \\
 130 \quad \quad \quad \hline
 10
 \end{array}$$

$$\begin{array}{r}
 9 \text{ pm} \\
 28 \overline{) 30^{10.7}} \\
 28 \quad \quad \quad \hline
 200 \\
 196 \quad \quad \quad \hline
 4
 \end{array}$$

$$\begin{array}{r}
 2 \text{ pm} \\
 26 \overline{) 7793^{12.69}} \quad (29.974 \\
 52 \quad \quad \quad -0.095 \\
 \hline
 259 \quad 29.879 \\
 234 \quad \quad \quad \hline
 253 \\
 234 \quad \quad \quad \hline
 193 \\
 182 \quad \quad \quad \hline
 116 \\
 104 \quad \quad \quad \hline
 12
 \end{array}$$

$$\begin{array}{r}
 2 \text{ pm} \\
 26 \overline{) 1686^{12}} \quad (64.74 \\
 156 \quad \quad \quad \hline
 126 \\
 104 \quad \quad \quad \hline
 220 \\
 208 \quad \quad \quad \hline
 120 \\
 104 \quad \quad \quad \hline
 16
 \end{array}$$

$$\begin{array}{r}
 9 \text{ pm} \\
 87.4 \\
 28 \overline{) 873^{12}} \quad (31.18 \\
 84 \quad \quad \quad \hline
 33 \\
 28 \quad \quad \quad \hline
 50 \\
 28 \quad \quad \quad \hline
 220
 \end{array}$$

$$\begin{array}{r}
 \text{Clouds} \\
 7 \text{ am} \\
 28 \overline{) 152^{12.5}} \quad (5.42 \\
 140 \quad \quad \quad \hline
 120 \\
 112 \quad \quad \quad \hline
 80
 \end{array}$$

$$\begin{array}{r}
 9 \text{ am} \\
 28 \overline{) 146^{12.5}} \quad (5.21 \\
 140 \quad \quad \quad \hline
 60 \\
 56 \quad \quad \quad \hline
 40
 \end{array}$$

$$\begin{array}{r}
 9 \text{ pm} \\
 28 \overline{) 8410^{12.89}} \quad (30.037 \\
 84 \quad \quad \quad -0.09222 \\
 \hline
 105 \quad 29.945 \\
 84 \quad \quad \quad \hline
 218 \\
 196 \quad \quad \quad \hline
 22
 \end{array}$$

$$\begin{array}{r}
 9 \text{ pm} \\
 28 \overline{) 1783^{13}} \quad (63.60 \\
 168 \quad \quad \quad \hline
 103 \\
 84 \quad \quad \quad \hline
 170 \\
 168 \quad \quad \quad \hline
 20
 \end{array}$$

$$\begin{array}{r}
 \text{Rain In} \\
 23 = 0.437 \\
 6 = 0.114 \\
 50 = 0.950 \\
 23 = 0.437 \\
 16 = 0.304 \\
 24 = 0.452 \\
 5 = 0.095 \\
 1.267 = 2.793
 \end{array}$$

$$\begin{array}{r}
 2 \text{ pm} \\
 26 \overline{) 146^{12.5}} \quad (5.61 \\
 130 \quad \quad \quad \hline
 160 \\
 156 \quad \quad \quad \hline
 40 \\
 9 \text{ pm} \\
 28 \overline{) 149^{12.5}} \quad (5.32 \\
 140 \quad \quad \quad \hline
 90 \\
 84 \quad \quad \quad \hline
 60
 \end{array}$$

$$\begin{array}{r}
 23 \quad 019 \quad 50 \quad 16 \\
 019 \quad 114 \quad 450 \quad 124 \\
 207 \quad 24 \quad 50 \quad 16 \\
 23 \quad 019 \quad 50 \quad 16 \\
 437 \quad 24 \quad 019 \quad 50
 \end{array}$$

$$\begin{array}{r}
 147 \\
 019 \\
 132-3 \\
 147 \\
 27193
 \end{array}$$

Constants Rain & Snow Snow

9

Copied from Observing Book N^o 11. Cambridge Old Observatory
From Aug 14th to Dec 10th 1840.

.01901 multiplier for rain gauge
252.525 gr weight of 1 cubic inch of water
1.8 gr in an ounce

1853 Jan²² 1000 Cubic inches of snow gave 164 oz of water = 3.446 on level

1856 Feb 23 10x10 cubic inches of snow gave .3.059 "

" 5th 1000 " " " 184 " = 3.496 "

" " Another trial same quantity 194 " = 3.686 "

The snow was very closely packed.

March 20th Twenty seven and a quarter inches of snow 10x10 gave
116 oz = 2.801 of water on a level for 10 in. in depth of snow.

1854 Jan⁴ 12th. A cube of snow 10 inches by the side gave 158³ of water
= 2.850² on a level. The snow is now estimated to be
twice the density that it was when newly fallen.

A cubic inch of pure distilled water
Bar 29.74 } weighs 252.587 grains by Troughton's weights.
Th 60° } 252.422 Parliamentary grain.

Hygrometer by E. Simmons. of Coleman St. London. registered
January 8th 1846. - read by index. Recorded at the Observatory of
Harvard College from 1853.

1853 July 19th 3 PM Simmons Hygrometer 59° ¹⁰⁰ Dry bulb 75° - Wet bulb 66°
 " 20th 1 P.M. " " 84° ¹⁰⁰ " " 60 " " 60

during the rain which followed the index of Hygrometer rose to 108.

Barometer		Thermometer		Hygrometer		Wind		Clouds		Remarks	
Barometer	Thermometer	Hygrometer	Wind	Clouds	Remarks	Barometer	Thermometer	Hygrometer	Wind	Clouds	Remarks
22	S.R.	Simmons Hygrometer 90°	88	Dry bulb 62°	Wet bulb 60°						
"	"	10 AM	60	48	"	81	"	68			
"	"	3 PM	50.5	39	"	82	"	66			
23	S.R.	"	83	94	"	61	"	60			
"	"	8 AM	73	71	"	72	"	66			
"	"	9 AM	66	61	"	77	"	68			
"	"	3 PM	72	79	"	68	"	64			
24 th	S.R.	"	99	100	"	64	"	64			Fog
"	"	9 AM	75	73	"	78	"	72			
"	"	3 PM	60	57	"	85	"	74			
26 th	"	9 AM	91	85	"	73	"	70			
"	"	9 AM	73	95	"	73	"	72			Rain
"	"	3 PM	75	77	"	76	"	71			
27 th	"	Noon	103	100	"	62	"	63			Rain
"	"	3 PM	90	94	"	62	"	61			Rain
28 th	"	9 AM	78	75	"	69	"	64			Clear
"	"	3 PM	52	48	"	80	"	67			Haze
29 th	S.R.	"	95	94	"	61	"	60			Haze
"	"	9 AM	72	68	"	75	"	68			Haze
"	"	3 PM	57	46	"	82	"	68			Haze
30 th	S.R.	"	95	94	"	64	"	63			
"	"	9 AM	80	76	"	73	"	68			
"	"	3 PM	58	48	"	86	"	72			
Aug. 1 st	"	9 AM	72	69	"	77	"	70			
"	"	3 PM	69	69	"	77	"	70			
"	"	9 AM	110	100	"	68	"	68			Rain
"	"	3 PM	82	75	"	69	"	64			
"	"	3 S.R.	100	100	"	69	"	60			
"	"	4 th 9 AM	74	100	"	74	"	76			

Note Nov. 25, 1882. Probably some error
in last line. Perhaps we should read 67 he 76. The
first part of the second.

Hygrometer.

Comparison of Hygrometric Instruments. Continued.

Date	Dimmory Hygrometer.	Red. num. by high.	Dry bulb.	Wet bulb.
1853 Aug. 4 th 3 PM.	63	58	80°	70°
8 th 3 PM	83	73	76	70
11 th 3 PM	60	48	92	77
14 th 1 PM	69	63	91	81
26 th 3 PM	70	68	65	59
31 st S.R.	97	94	64	63
" 3 PM	52	69	77	70
Sept. 1 st 9 AM	73	67	73	66
" 3 PM	69	64	76	68
4 th Noon	69	67	86	74
" 3 PM	74	79	68	64
14 th 6.30 AM	86	100	53	53
1854. Aug 31 st	74	70	69	63
1855. Jan ^y 5 th	75	62	47	42
7 th	81	81	13	12
12 th	103	100	47	48
Feb ^y 5 th	71 Snow			
6 th	94		10	
April 19 th	49	29	52	41
May 15 th S.R.	97	100	62	62
25 th 5 PM	75	93	55	54
June 15 th 6 AM	82	41	90	73
July 3 ^d 2 PM	54	58	87	76
"	59	76	85	79
4 th 9 AM	54	50	96	81
" 1 PM	50	50	95	80
"	56	56	90	78
5 th	70	77	77	72
1856. Feb ^y 14 th	57	100	- 4	- 4 bulb covered
"	73	100	- 2.5	- 3 with ice
"	73	100	0.0	0
"	70	44	+ 2.	0
"	70	40	11	+ 8
15 th AM	79	50	5	3
March 2 2.30 PM	108	90	37.	36
April 3 10 AM				

Note Nov. 25, 1882. The comparisons of Feb. 14 and 15, 1856, are repeated at the top of the next page, but not that of March 2.

Hygrometer.

Comparison of Hygrometric Instruments - Continued -

Date	Simmons Hygrometer	Reel hum. hygrom.	Dry bulb	Wet bulb
1856 Feb 13/14 th	57 [°]	100	- 4 [°]	- 4 [°] coated with Ice
	73	100	- 2.5 [°]	- 3
	73	100	0	0
	70	40	+ 11	+ 8
14/15 th	79	50	5 [°]	3
June 21 st 4 PM	593	39	93.5	75 [°]
" 4.30	600	42	93.	75.3
22 nd 11 AM	597	47	90	75 [°]
29 th 3.15 PM	600	42	95 [°]	77
30 th 9 AM	610	61	86	76
July 5 th 11 AM	600	44	75 [°]	62
8 th 7 AM	980	94	61	60
11 th 3 PM	690	51	86	73
16 8 AM	485 [°]	*	94	64
17 th 2.30 PM	630	45	92	76
18 th 3.40 PM	600	40	97	78
24 th 3 PM	590	38	90	72
1857 Jan ^y 17/18 to 18 AM	715 [°]	35	- 8.5	- 10 threatening snow
11 AM	714	16	- 8	- 10 "
Noon	710	0	- 5.	- 8 "
3.30 PM		0	- 1.5	- 4 "
4.45	733	42	- 1.	- 3 "
18/19 th 9 AM	900	74	+ 9.2	+ 8 snow storm
19/20 th 9 AM	897	100	14.3	14.3 Clear
1856 July 27 th Noon	535 [°]	34	95	74 Th [°] on North side
1 PM			97	of East Portico 100 [°]
1.15 PM			97.3	100.5 in the shade
2 "			97	74 [°] in opening of
3 "			97	the great Pier 77
6.30 "			90	
29 th	620	82	80.0	76
30 th	945	69	76.7	70

* Note Nov. 25, 1882. This comparison appears on ordinary record for July, 1856, but is evidently erroneous. Perhaps we should read 74 for 64.

1861phae.proj..263.6
Nto Nov. 25, 1882.

The comparisons on the last three pages probably relate to the hygrometer which appears to have been in use at the Observatory for observing relative humidity from 1856 to early in 1862. The relative humidity derived from the dry bulb and wet bulb readings by Guyot's Tables has been inserted today and the results are compared on p. 17 with those from the hygrometer.

$$\begin{array}{r} 64 \\ 019 \\ \hline 750 \\ 64 \\ \hline 1.093 \end{array}$$

From M. 13, 14, 15.
 Hygrometer ~~in~~ excess of relative humidity, dry bulb above 10.

17.

Rel. hum. below 74.5				Rel. hum. above 74.5			
Dry bulb below 74.5		Dry bulb above 74.5		Dry bulb below 74.5		Dry bulb above 74.5	
+2		+12	-1 0	+2	-16 0		-2
2		11	17 0	6	11 0		17
6		5	4 0	1	7		7
4		2	0	1	1		19
13		3		4	12		
20		4		10	3		
30		4		7	4		
		9		3	3		
		10		18	5		
		3		18	14		
		5		4	3		
		10			18		
		12			10		
		6		+74	-107 0		-45
		5		26)	-33		
		2			-1.3		-11
		11					
		4		Comparisons of 1853, Aug. 4, 9 A.M., and 1856, July 16, 8 A.M., are omitted as being probably erroneous. The differences from the comparisons at temperatures below 10 are			
		20					
		12					
		13					
		12					
		16					
		18					
		18					
		20					
		21					
		19					
		25					
+77		+312	-22 0	372	73) 637 (8.7	Average deviation of hygrometer from psychrometer ± 8.7	
		36) +290		22	584		
		+8.1		74	530		
				107	511		
				45			
+11				637			

It appears that for small relative humidities the results from the hygrometer are in excess, and for large relative humidities are below those indicated by the psychrometer. That is, the range of the hygrometer was comparatively small. Its excess for small relative humidities seems to increase in 1856 and 1857, and in fact the ordinary record shows that it ultimately became fixed at 100 in 1867, when its use was abandoned.

8

Temperature

Minimum readings of Thermometers on the 23rd & 24th of January 1847. Friday and Saturday.

At H. C. Observatory on the 23rd January 16° below zero, our two standard thermometers alternated in their indications sometimes so would be a division above Newman and sometimes Newman would indicate a division above S. they never differed so much as two divisions the one from the other.

Jan^y 24th Newman & S. gave -16°

Mr Rice near Porter's North Cambridge reported -24° on the morning of the 24th before sun-rise, after sun-rise while the sun was shining full upon the bulb it marked -22°.

Mr Whitman Kirkland St Cambridge reports, on the 23rd 7.30 Am -44° on the 24th -22°.

Mr Hiatt at Melrose, situated in a valley through which a brook flows, reported his thermometer on the 23rd S. R. -16° and the 24th S. R. -28°. A neighbour of his reported -32°.

A thermometer maker at Newton had three thermometers hung out, they ranged on the morning of the 24th from -20° to -26°. Mr Read whose house is on the plain a quarter of a mile S.E. of the H. C. Observatory reported -26° on the morning of the 24th.

Mr Wm Harris of Newton, on high ground, reported: -15° to -13°. This th. had been carefully compared with the standard of the Observatory.

W. J. Paine No. 46 Harrison Avenue Boston on the morning of the 23rd at 4 Am -11°, all day below zero. on the 24th 6 Am -4.5°, lowest -8°. It was below zero for 36 hours.

Judge Phillips at the foot of the Observatory hill 600 feet E by S. -22° on the morning of 24th. A thermometer at Newton corner -22°. This therm. had been compared with the Cambridge standard.

Mr J S Bowditch at his house on the high land in West Roxbury, on the 24th S. R. had his th. -15.5 or 16°. Mr B saw a th. on Jamaica Plain at 8 o'clock indicating -22°. Mr E S Digwell's 500 ft. E S E of the Observatory marked -24°. Rev. Mr Hopkins as the sun rose marked -21°. in 10 minutes it rose to -18° and presently fell to -22°. a quarter of a mile E S E of Observatory. Dr J E Worcester's on low ground 900 ft S of Observatory -25°. This thermometer has been compared with the Observatory standard.

Correction for Barometer.

Correction of Barometer Newman No. 57 for sea level.

Lower Observatory	+0.043
Upper "	+0.078

Note, June 23, 1883.

The mean height of the barometer is about 29.9; the mean temperature about 47. Using these data with Guyot's Table VI (Guyot's Tables D 48, and explanation 290,) we find for a barometric difference 0.043 a difference of elevation 39 feet; for a barometric difference 0.078 a difference of elevation 71 feet. These approximate results seem to indicate that the lower observatory, for which the correction 0.043 is given, is the place of the Gay barometer in the Dana House Observatory, which was $38\frac{1}{2}$ feet above mean high water at Brighton Bridge, according to the Memoirs of the American Academy for 1846, p. 158; (but the American Almanac for 1844 states that the barometer, presumably Newman 57, was 44 feet above mean high water, Brighton Bridge, in 1842-43). The American Almanac for 1853 and later states that the barometer in 1851-52 and later (then, probably in the dwelling house of the Observatory building, Concord Avenue) was 71 feet above mean sea level at the Charlestown Navy Yard. This makes it probable that the correction +0.078, above, applies to the barometer at the Observatory from Oct. 24, 1844 to Oct. 31, 1861. After the last date, the elevation was 79 feet approximately, and the approximate correction corresponding would be +0.087.

See also Guyot's Tables D 88, for the sea level correction at Cambridge (0.079 for an elevation of 71.34 feet). The correction 0.043 assumes an about 39 feet of elevation, as before, so that it does not apply to Newman 57 in 1842-3, and strictly does not apply to the Gay barometer unless the mean high water at Brighton Bridge is assumed to be at the mean sea level at Charlestown. The correction for 44 feet of elevation would be +0.049; for 79 feet +0.087 as above.

No correction for elevation has been applied to the meteorological results, so far as is known.

Weekly Record for Boston Medical Journal. March 23.

Barometer	Therm.	Rain	Mean Bar 30.013
2104 ⁰ 2 ²	155 ³	80	Max. " 30.440
1501 ⁷ 2 ¹	145 ¹	48	Min. " 29.336
2096 ⁷ 0 ³	208 ³	12.2	Mean Th.° 26.3
2100 ³ 130 ³	175 ²	250	Max. " 39°
30.100	26)68'3 ² (26.27	079	Min. " 2°
27)810'3'5'4(30.013	52	2250	Rain In.
81	163	250	Wind S & NW
035	156	4750	
27	70		
84	52		
81	180		

Weekly Record for Boston Medical Journal.
March 30th 1861.

Barometer	Th.°	Rain	Mean Bar. 30.052
2102 ³ 82 ²	28.0 ³	2	Max. " 30.404
2105 ³ 36 ²	30.6 ¹	019	Min. " 29.700
2103 ² 34 ³	33.1 ²	038	Mean Th.° 42.3
2103 ² 8 ¹	267 ³		Max. " 53°
28)84148'0 ² (30.052 28)118'4 ¹ (42.3	112		Min. " 24°
84	64		Wind West & SW
148	56		Rain 0.038
140	80		
80			

1861phae.proj..263
4
Snow Storm of March 21st - 22nd 1861.

Began to snow at 11 Am of 21st. Ther. 34° Wind ESE 3. increasing to a violent storm through the latter part of the day - the wind drawing more to the Northward. The thermometer remained at near the freezing point falling to 23° during the night.

at 7 PM of 21st Storm less severe - but it increased to great violence ^{wind 4 to 6-9} between that and midnight becoming one of the most severe which has occurred for several years. Morning of 22nd Wind from North to NNE. 3. - snowing moderately. stopped about 8 Am Ther 27°. Snowed again during forenoon.

The quantity of snow which fell was estimated to be between 10 inches and 1 foot. on a level, and owing to the high wind much drifted, though quite damp and heavy. I think 12 inches fall not far out.

A cube taken from a place sheltered from the wind where the fall seemed about an average, gave 2.318 for the quantity of melted snow on a level.

Railroads blocked up in all directions, but especially on the seaboard. - Most of the telegraph lines down and many disasters at sea. -

Meteorological Means.

Means and Sums of Barometer Thermometer &c for March 1861.

Barometer & 4th Therm.

7 am

$$\begin{array}{r} 31) 930^{12} 12^{10} 4 (30.005 \\ \underline{93} \\ 0144 \\ \underline{155} 29942 \\ 29 \\ 58 \\ 348 \\ 570 \\ 712 \\ 930 \end{array} \quad \begin{array}{r} 31) 1638^{14} (52.84 \\ \underline{155} \\ 88 \\ 62 \\ 260 \\ 248 \\ 120 \end{array}$$

9 am

$$\begin{array}{r} 30) 9008^{11} 6^4 \\ \underline{30.029} \\ -1092 \\ \underline{29.937} \end{array} \quad \begin{array}{r} 29 \\ 11 \\ 29 \\ 29 \\ 319 \\ 570 \\ 111 \\ 900 \end{array} \quad \begin{array}{r} 30) 1910^{11} \\ \underline{63.6} \end{array}$$

2 PM

$$\begin{array}{r} 31) 9305^{17} 11^{12} (30.017 \\ \underline{93} \\ 052 \\ \underline{31} 29925 \\ 218 \\ 217 \\ 1 \end{array} \quad \begin{array}{r} 29 \\ 17 \\ 203 \\ 29 \\ 493 \\ 420 \\ 17 \\ 930 \end{array} \quad \begin{array}{r} 31) 1998^{15} (64.45 \\ \underline{186} \\ 138 \\ 124 \\ 140 \\ 124 \\ 160 \end{array}$$

4 PM

$$\begin{array}{r} 31) 9306^{13} 9 (30.020 \\ \underline{93} \\ 063 \\ \underline{62} 29930 \\ 14 \end{array} \quad \begin{array}{r} 29 \\ 11 \\ 29 \\ 29 \\ 319 \\ 600 \\ 11 \\ 930 \end{array} \quad \begin{array}{r} 31) 1949^{11} (62.87 \\ \underline{186} \\ 89 \\ 62 \\ 270 \\ 248 \\ 220 \\ 217 \end{array}$$

Quantity of Rain

0.133	0.019	0.019	0.019	0.019
0.009	103	0.0095	1.140	38
1.140	019	019	019	494
0.494	1520	48	122	019
1.520	76	38	019	038
0.912	345.5	912	2318	
2.318	019			
0.038	3109.5			
	3463.5			
	6564.5			

External Thermometer

7 am

$$\begin{array}{r} 31) 961^{14} (31.00 \\ \underline{93} \\ 31 961 \\ 1043 \\ 1250 \\ 1024 \\ 30) 4278 \\ 1 \end{array} \quad \begin{array}{r} 9 am \\ 29) 1043^{12} (35.96 \\ \underline{87} \\ 173 \\ 145 \\ 280 \\ 861 \\ 190 \\ 174 \end{array}$$

2 PM

$$\begin{array}{r} 31) 1258^{13} (40.32 \\ \underline{124} \\ 100 \\ 93 \\ 70 \end{array} \quad \begin{array}{r} 9 PM \\ 31) 1024^{13} (33.03 \\ \underline{93} \\ 94 \\ 93 \\ 100 \end{array}$$

Force of Wind.

7 am

$$\begin{array}{r} 31) 45 (1.45 \\ \underline{31} \\ 140 \\ 124 \\ 160 \end{array} \quad \begin{array}{r} 9 am \\ 30) 45 \\ \underline{1.50} \end{array}$$

2 PM

$$\begin{array}{r} 31) 50 (1.61 \\ \underline{31} \\ 190 \\ 186 \\ 40 \end{array} \quad \begin{array}{r} 9 PM \\ 31) 45 (1.45 \\ \underline{31} \\ 140 \\ 124 \\ 160 \end{array}$$

Quantity of Clouds

7 am

$$\begin{array}{r} 31) 157 (50.6 \\ \underline{155} \\ 200 \end{array} \quad \begin{array}{r} 9 am \\ 30) 174 (5.80 \\ \underline{158} \\ 240 \end{array}$$

2 PM

$$\begin{array}{r} 31) 208 (670 \\ \underline{186} \\ 220 \\ 217 \end{array} \quad \begin{array}{r} 9 PM \\ 31) 176 (5.68 \\ \underline{155} \\ 210 \\ 186 \\ 240 \end{array}$$

Record for Boston Medical Journal April 6th 1861.

Barometer	Th ^o	Snow	Mean of Bar.
1819'5 ² 0 ⁴	191 ³	122	30.261
1811'7 ³ 6 ³	213 ¹	019	Max. " 30.620
1514'4 ² 4 ³	194 ²	1098	Min. " 29.702
1512'5 ² 8	165 ¹	122	Mean of Th ^o 36.2
30.338	32	2,318	Max. " 53°
30.422	39		Min. " "
60.144	105		Wind SW & NE
60.586	74		Melted snow In. 2.318
28) 84 ⁴ 7 ³ 1 ⁴ 8 ³ (30.261)	28) 101 ⁴ 3 ³ (36.18)		
84	84		
73	173		
56	168		
171	50		
168	28		
38	220		

Weekly Record for Boston Medical Journal April 13th 1861

Barometer	Therm ^o	Mean of Bar.
211.542 ²	266 ²	30.234
211.714 ⁴	315 ³	Max. " 30.398
211.715 ² 4 ¹	344 ³	Min. " 30.050
1813'032 ²	230 ³	Mean of Th ^o 42.8
27) 81'6 32'1'2' (30.234)	27) 115'5' (42.8)	Max. " 52°
81	108	Min. " 26
63	75	Wind N. E & South
54	54	Rain
91	210	
81	216	
102		

Weekly Record for Boston Medical Journal April 2nd

Barometer	Therm ^o	Mean of Bar.
2077 ³ 3 ³	288 ²	29.698
2079 ³ 5 ³ 2 ¹	312 ³	Max. " 30.064
2078 ⁴ 9 ² 6 ³	363 ⁴	Min. " 29.100
2079 ³ 5 ² 8 ²	309 ²	Mean of Th ^o 45.43
28) 83'13 53'32'9' (29.698)	28) 127'2' (45.43)	Max. " 62°
56	112	Min. " 32°
271	152	Wind W & NE
252	140	Rain 3.116
195	120	
168	112	
273	80	
252		
219		
	164	
	019	
	1476	
	164	
	3.116	

Weekly Record. for Boston Medical Journal April 27th 1861

Barometer	Th ^o	Rain	Mean of Bar	
2099 ² 2 ³	314 ³	3	Max	30.134
2100 ³ 2 ³ 2 ²	347 ²	019	Min	29.826
1797 ³ 4 ² 8 ⁴	338 ¹	057	Mean of Th ^o	48.8
2098 ³ 4 ² 4 ¹	320 ²		Max.	69 ^o
~~29.840~~	27)131'9" (48.8		Min	39 ^o
27)80'9"5"3"4" (29.982	108		Wind SW SE	
54	239		Rain in inch	0.057
269	216			
243	230			
265				
243				
223				
216				
74				
54				
20				

Weekly Record for Boston Medical Journal May 4th 1861

Barometer	Thermometer	Rain	Max. Bar.	
1197'3'2'	60	155 ²	30.144	
1199'6'4'	58	176'	Min. "	29.574
897'4'4'	118	147	Max. Th ^o	67 ^o
900'4'8'		115'	Min. "	32 ^o
893'8'2'		137'	Rain	0.532
894'4'0'		154'	Wind NE & SW	
1191'8'6"		229 ²	Mean Bar.	29.873
1189'5'6"		192 ²	Mean Th ^o	46.6
28)83'6'4"5423 (29.873	28)130'5"4 (46.6			
56	112			
276	185			
252	168			
244	170			
224				
205				
196				
92				

Weekly Record for Boston Medical Journal May 11th

Barometer	Ther.
208 9 ² 6 ¹	244 ²
148 9 2 6 ¹	339 ¹
178 8 9 3 ⁰	367 ²
209 1 4 0 3 ⁰	266 ¹
208 7 5 2 6 ²	25 121 ² 6 ² 48.64
25) 74 5 6 2 7 2 ¹ 29.826	100
245	216
225	200
206	160
200	150
67	100
510	
172	
150	
22	

Rain	Mean Bar.	29.826
20	Max.	30.086
079	Min.	29.394
180	Mean Ther.	45.64
20	Max.	69°
380	Min.	43°
	Wind	SW & W
	Rain In.	0.380

Weekly Record for Boston Medical Journal May 18th 1861.

Barometer	Ther.
149 3 2 8 ¹	256 ¹
179 7 3 2 8 ²	332 ³
179 4 5 8	361 ⁴
179 5 3 2 2 ²	317 ¹
23) 68 8 3 0 2 6 22 29.916	23) 126 1 6 1 55.03
46	115
228	116
207	115
270	100
207	116
26	
23	
132	
138	

Rain	Mean Bar.	29.916
14	Max	30.144
079	Min	29.722
126	Mean Ther.	55.03
14	Max	67°
266	Min	38°
	Wind	East & West & NW
	Rain	0.266

Weekly Record for Boston Medical Journal May 25th 1861.

Barometer	Ther.
180 8 7 1 ²	368 ²
1810 3 2 8 ¹	361 ³
210 7 2 6 2 4	45 4 ³
210 8 8 2 0 ²	363 ⁴
29.824	55
27) 813.3 3 6 5 30.124	28) 160 3 1 2 57.19
87	140
33	201
27	196
66	50
54	28
125	228
108	
17	

Mean Bar.	30.124
Max. Bar.	30.396
Min. Bar.	29.824
Mean Ther.	57.19
Max.	
Min.	
Wind	East & SW
Rain	

Meteorological Means.

Barometer & Alt^d Th^o.

7 AM

$$\begin{array}{r}
 12 \\
 12 \\
 24 \\
 \hline
 108 \\
 24 \\
 \hline
 348 \\
 540 \\
 12 \\
 \hline
 900
 \end{array}$$

$$\begin{array}{r}
 30 \overline{) 90052.7} \\
 \underline{30.017}
 \end{array}$$

$$\begin{array}{r}
 30 \overline{) 172.5} \\
 \underline{57.50}
 \end{array}$$

9 AM

$$\begin{array}{r}
 34830 \overline{) 901304.9} \\
 \underline{540} \\
 13 \\
 \hline
 30.0434
 \end{array}$$

$$\begin{array}{r}
 30 \overline{) 1998^{13}} \\
 \underline{66.33}
 \end{array}$$

2 PM

$$\begin{array}{r}
 29 \overline{) 870028^{15} 12} \\
 \underline{15} \\
 145 \\
 \underline{29} \\
 435 \\
 \underline{420} \\
 15 \\
 \hline
 870
 \end{array}$$

9 PM.

Means of Barometer & Thermometer

For week ending June 8 1861

30.162	80
30.142	66
30.184	62
30.190	73
30.266	62
30.250	51
30.068	52
29.948	63
29.802	65
29.850	63
29.862	71
29.926	53
30.256	59
29.300	61
30.296	53
30.300	54
30.304	53
30.288	53
30.088	53
30.084	53
30.040	54
29.976	59
29.986	55
30.050	59
	66

Rain = 120 ounces

120
 .019
 1080
 120
 2.280

$$\begin{array}{r} 24 \overline{) 721.604} \\ \underline{48} \\ 221 \\ \underline{216} \\ 56 \end{array}$$

$$\begin{array}{r} 24 \overline{) 1440} \\ \underline{144} \\ 0 \end{array}$$

$$\begin{array}{r} 29 \overline{) 721.608} \\ \underline{72} \\ 160 \\ \underline{144} \\ 168 \end{array}$$

Means of Barometer & Thermometer for week ending June 15

30.050	64
30.076	58
30.084	59
30.100	62
30.066	68
30.042	55
29.884	19
29.884	64
29.924	79
29.900	65
29.906	64
29.850	72
29.800	62
29.801	64
29.670	77
29.670	82
29.936	65
29.910	69
30.050	57
30.150	56
30.160	69
30.080	71
30.050	66
29.884	71
29.850	

mean of Barometer = 29.876
highest = 30.160

lowest = 29.670

Mean of Ther = 65.2

highest = 82

lowest = 46

General direction of wind = SW

Amount of rain = 0.00

$$\begin{array}{r}
 25 \overline{) 46918} \quad (29.876 \\
 \underline{50} \\
 246 \\
 \underline{225} \\
 219 \\
 \underline{200} \\
 191 \\
 \underline{175} \\
 168
 \end{array}$$

$$\begin{array}{r}
 25 \overline{) 1632} \quad (65.2 = \text{mean} \\
 \underline{150} \\
 132 \\
 \underline{125} \\
 70
 \end{array}$$

32

Means of Barometer & Thermometer for week ending June 22 1861

29.850
 29.680
 29.590
 29.576
 29.600
 29.818
 29.938
 29.954
 29.960
 30.056
 30.018
 30.020
 30.004
 29.990
 30.008
 29.942
 29.900
 29.816
 29.820
 29.850
 29.932
 29.984
 29.984
 29.850
 29.800
 29.728
 29.730

85
 70
 77
 80
 81
 63
 60
 64
 73
 53
 63
 72
 52
 57
 67
 79
 66
 66
 70
 76
 65
 59
 67
 78
 63
 66
 70

$$27) 806.428 \quad 29.867 = \text{Mean}$$

$$\begin{array}{r}
 546 \\
 \hline
 266 \\
 243 \\
 \hline
 234 \\
 216 \\
 \hline
 182 \\
 162 \\
 \hline
 208 \\
 189 \\
 \hline
 \end{array}$$

$$\begin{array}{r}
 12 \\
 .019 \\
 \hline
 106 \\
 12 \\
 \hline
 228
 \end{array}$$

$$\begin{array}{r}
 27) 1842 \quad 68.2 = \text{Mean} \\
 \hline
 162 \\
 \hline
 222 \\
 216 \\
 \hline
 60
 \end{array}$$

Barometer mean = 29.867
 highest = 30.058
 lowest = 29.576

Therm. max = 85
 min = 45
 mean = 68.

$$G.D.M. = G.N.R.M.$$

Means of Barometer & Thermometer for the week ending June 29 1861

29.750

29.800

29.855

29.840

29.694

29.700

29.882

29.836

29.750

30.100

30.104

30.100

30.070

29.894

29.850

30.000

30.030

29.882

29.880

30.028

29.918

29.942

30.012

30.006

~~29.986~~

29.986

747.202

76

65

69

73

52

65

56

71

59

59

67

79

67

67

71

55

69

69

51

64

68

73

82

65

63

25) 1749 (69.9 = Mean
 150
 249
 225
 240
 245

25) 747.202 (29.8788 = Mean
 50
 247
 225
 222
 200
 220
 200
 202

max Ther = 85

min " = 48 $\frac{1}{2}$

Wind = S.W.W.

Rain = .02

$$\begin{array}{r} .019 \\ \hline .057 \end{array}$$

34

Meteorology for week ending July 6. 1861

29.918	71
29.992	64
29.992	67
29.990	73
29.942	81
29.910	65
29.880	65
29.890	71
29.900	84
29.882	68
29.728	66
29.700	65
29.700	76
29.850	59
29.950	58
30.000	62
30.168	77
30.170	65
30.168	74
30.158	73
30.170	70
30.148	79
30.140	92
30.150	70
30.152	71

$$\begin{array}{r}
 26 \overline{) 780580} \quad (30.021 \\
 \underline{74} \\
 0548 \\
 \underline{52} \\
 328 \\
 \underline{68}
 \end{array}$$

$$\begin{array}{r}
 26 \overline{) 1841} \quad (70.8 \\
 \underline{122} \\
 210 \\
 \underline{208}
 \end{array}$$

Mean = 30.021
 Max = 30.158
 Min = 29.700
 Th Min = 70.8
 Max = 92.
 Min = 51
 Wind 94
 R 0

Max & Min of Thermometer, sent to R. P. Pavani

July 1st

1861

July	Max.	Min.
1	80°	57°
2	84	~~58~~
3	76	51
4	77	54
5	87	58
6	92	56
7	92	66
8	91	67
9	97	68
10	96	74
11	92	63
12	78	67
13	80	54

To find a sunny hour

Week including

9 A.M. of Sunday 7th
9 A.M. Saturday 13

29.931

30.161

29.702

77.1

97.1

54.0

Westing

0.931

36

July (week ending), 20

30.176
 30.169
 30.124
 30.144
 30.013
 29.958
 29.950
 29.917
 29.952
 30.000
 29.992
 29.964
 29.970
 29.976
 29.985
 29.967
 30.042
 30.082
 30.042
 30.038
 29.996
 29.992
 29.846
 29.805
 29.702

52
 62
 65
 67
 68
 59
 63
 56
 74
 61
 64
 72
 86
 68
 66
 58
 74
 80
 63
 65
 64
 67
 71
 78
 84
 69

Wind = WSW

Rain = $\frac{.8203}{.019}$
 738
 682
 1.558

max = 85
 Ther. min = 56

Bar. ^{max} = 29.986
 " min = 29.702
 max = 30.176

25.) $\overline{) 749.649}$ (29.986
 516
 229
 225
 246
 225
 214
 200
 149
 150

26.) $\overline{) 1427}$ (70.3
 142
 70
 78

29.596

For week ending July 27

$$\begin{array}{r} 13 \\ 9 \\ \hline 117 \\ 17 \\ \hline 120 \end{array}$$

29.596	76
29.676	69
29.800	65
29.802	69
29.850	78
29.880	62
29.890	64
29.900	69
29.920	77
29.920	67
29.934	62
29.928	65
29.950	70
30.028	63
30.116	66
30.120	69
30.130	67
30.134	62
30.176	61
30.180	67
30.184	75
30.176	61
30.200	61
30.200	65
30.176	75
30.170	62
30.170	67
30.174	67

$$28 \overline{) 840.326} \quad (30.001)$$

$$28 \overline{) 1877} \quad ($$

$$\begin{array}{r} 032 \\ 28 \\ \hline 46 \end{array}$$

$$\left. \begin{array}{l} \text{mean} = 30.011 \\ \text{mx} = 30.200 \\ \text{min} = 29.596 \end{array} \right\}$$

$$28 \overline{) 1877} \quad (67.0 \text{ near } 67.0)$$

$$\begin{array}{r} 168 \\ \hline 197 \\ 196 \\ \hline 1 \end{array}$$

$$\left. \begin{array}{l} \text{max} = 78. \\ \text{min} = 50 \end{array} \right\}$$

Week ending August 3 1861

29.908

30.002

29.950

29.902

30.000

29.950

29.900

29.980

29.950

29.916

30.118

30.100

30.082

30.068

30.066

30.000

30.000

30.056

30.058

30.012

30.030

29.916

29.958

30.014

30.012

28) 24 2181 (30.000)

72

71

76

81

76

74

79

87

69

78

70

63

63

66

83

69

72

74

71

72

77

76

74

85

71

77

78

80

70

2077

74.2

Wind - west

mean bar = 30.077

max " = 30.118

min " = 29.902

Ther m - = 50°

min = 59

mean = 74

Rain = 1.99

Wet entry. Aug 10 1861

39

29.952

82

30.030

80

30.118

78

30.038

83

29.950

76

29.800

78

29.750

80

29.762

84

29.772

74

29.880

70

29.890

75

29.878

79

29.942

67

30.142

65

30.118

67

30.102

70

30.104

61

30.124

60

30.140

61

30.100

69

30.068

62

29.922

65

29.984

66

30.078

69

30.042

64

29.790

66

29.780

69

$$\begin{array}{r}
 27 \overline{) 81} \quad 0.206 \quad (30.008 \quad 27 \overline{) 1970} \quad (70.5 = \text{Mean} \\
 \underline{81} \qquad \qquad \qquad \underline{0 \ 206} \qquad \qquad \underline{189} \qquad \qquad \underline{189} \\
 \qquad \qquad \qquad \underline{189} \qquad \qquad \qquad \underline{4 \ 00} \\
 \qquad \qquad \qquad \underline{17} \qquad \qquad \qquad \underline{27} \\
 \qquad \qquad \qquad \qquad \qquad \underline{130}
 \end{array}$$

$$\text{mx} = 30.142$$

$$\text{mm} = 29.750$$

$$\text{mean} = 30.008$$

91 = mm

56 mm

Wind = S.W.

Rain 36

.019

32 4

86

.684

40

For week ending Aug 18 1861

29.900

29.740

29.740

29.850

29.862

30.016

30.050

30.040

30.040

30.124

30.024

30.028

29.990

30.184

30.112

30.078

30.050

30.232

30.242

30.266

30.280

30.284

30.318

30.312

30.198

30.206

~~30.266~~

26) 782867

78

228

29

26

7-10-8-6

(30.410

30.110 = mean

30.318 max

29.740

81

72

69

67

73

57

68

75

63

58

59

55

54

54

56

58

56

59

58

60

59

65

78

60

60

64

26) 1699

156

139

120

max = 79

min = 48

WGN

114

10

164

019

1476

169

3116

10

(65 = mean

41 0120
00 60

Week ending August 24

30.216	68
30.196	62
30.184	61
30.180	70
30.126	82
30.116	70
30.140	68
30.162	70
30.140	78
30.190	62
30.322	61
30.350	64
30.356	69
30.400	54
30.422	54
30.418	63
30.372	73
30.352	55
30.028	63
29.950	71
29.742	74
29.850	63
29.950	58
29.974	63
29.986	69
30.070	61
30.116	56
30.132	65
844460	

8, 13, 10

$$\begin{array}{r} 25) 1824 \text{ (65)} \\ \underline{168} \\ 144 \\ \underline{140} \\ 4 \end{array}$$

$$25) 844460 \text{ (30.159} = \text{mean ml} = 30.422 \text{ mm} = 29.742$$

$$\begin{array}{r} 84 \\ \underline{44} \\ 22 \\ \underline{166} \\ 140 \\ \underline{260} \end{array}$$

Wind = N.G.M.

Ram 40

Mass = 80

Min = 48

$$\begin{array}{r} .019 \\ 360 \\ \hline 4 \\ \hline 360 \end{array}$$

12-
Week ending Aug. 31 1861

30.090

76

30.140

63

30.248

65

30.250

73

30.350

56

30.354

65

30.322

71

30.318

60

30.298

62

30.266

67

30.260

77

30.192

61

30.172

64

30.152

69

30.120

78

30.116

65

30.050

68

30.024

74

29.952

81

29.906

70

29.910

68

29.920

71

29.884

78

29.906

64

30.000

59

30.000

62

26) 783146 (30.121
 28
 51
 26
 54
 52
 26

26) 1757 (67.6
 156
 197
 182
 150

Rain = 0

Wind = WSW

max = 81

min = 53

~~30.186~~
~~30.184~~
~~30.182~~
~~30.266~~
~~30.270~~
~~30.242~~
~~29.864~~
~~30.120~~
~~30.039~~
~~30.022~~
~~30.008~~

30.090
 29.998
 30.196
 30.194
 30.152
 30.266
 30.270
 30.242
 30.224
 30.122
 30.086
 29.864
 30.008
 30.022
 30.039
 30.120
 30.152
 30.154
 30.110
 30.026
 30.030
 29.950
 29.930
 29.980
 29.986
~~30.004~~
~~30.112~~
~~30.112~~

59
 67
 54
 58
 70
 55
 64
 73
 59
 63
 73
 70
 67
 69
 72
 60
 55
 60
 68
 61
 67
 77
 60
 61
 72
~~85~~
~~65~~

W. S. W.
 max = 76
 min = 49

21) 75 2.40 7 (30.096
 21
 240
 221
 155
 150
 10 25) 1619 (64.8
 150
 119
 100
 190

Week ending Sept. 7. 1861

Week ending Sept. 14

1861.

30.1004	78
30.112	65
30.318	58
30.316	60
30.308	55
30.316	51
30.336	58
30.304	65
30.300	58
30.348	52
30.378	58
30.300	67
30.286	57
30.180	57
30.166	57
29.858	54
29.724	57
29.714	58
29.742	61
29.780	69
29.724	68
30.064	58
30.074	55
30.148	63
30.250	57
30.262	71

Maximum = 76

Minimum = 45

66

.019

614

66

Rain = 1.274

Wind = N.N.W.

Bar Max = 30.378

" Min = 29.714

14 12

$26 \overline{) 783.752} \quad (30.144) \quad 26 \overline{) 1570} \quad (60.5)$
 $\underline{78}$
 37
 $\underline{26}$
 115
 $\underline{104}$
 112

Week ending Sept. 21, 1861.

30.060	79
30.132	62
30.184	68
30.028	71
29.952	79
29.992	71
30.140	57
30.168	60
30.150	66
30.150	56
30.072	57
30.066	60
30.016	69
29.986	59
30.020	58
30.002	61
30.028	66
30.050	56
30.036	60
29.952	55
29.958	60
29.984	64
30.004	71
30.000	71
29.976	64
29.882	62
29.878	71

W.N.W.
Rain = 0

mx = 80
mm = 47

$$\begin{array}{r}
 27 \overline{) 810876} \\
 \underline{81} \\
 088 \\
 \underline{81} \\
 66
 \end{array}
 \quad
 \begin{array}{r}
 30.032 \quad 27 \overline{) 1759} \quad 65.1 \text{ Mean} \\
 \underline{162} \\
 139 \\
 \underline{125} \\
 40
 \end{array}$$

46

Week ending Sept 25

29.772

29.780

29.804

29.806

29.800

29.854

29.874

29.884

29.840

29.950

30.050

30.960

30.088

30.150

30.204

30.212

30.148

30.144

30.124

30.110

30.002

30.126

29.970

29.826

29.742

29.584

29.616

80

65

53

54

56

55

52

55

65

56

50

61

66

54

47

54

66

54

54

62

71

55

50

74

69

71

70

27

019

24.3

27

Rain .5 1 3

W.N.W.

mc = 79.

mm = 43.

$$27 \overline{) 810440} \quad (30.016$$

044

27

170

162

$$27 \overline{) 1619} \quad (59.9 \text{ mean}$$

135

269

243

26

Week ending Oct 5 1861

47

29.762

29.980

30.250

30.260

30.298

30.560

30.588

30.528

30.500

30.576

30.522

30.454

30.8800

30.8292

30.144

29.996

29.918

30.180

30.084

30.089

30.050

30.052

68

54

51

54

62

97

58

60

54

54

58

62

53

60

64

61

77

59

64

59

54

59

$$22 \overline{) 1296} \quad (58.9 \text{ mean})$$

$$\begin{array}{r} 110 \\ \underline{196} \\ 178 \\ \underline{200} \end{array}$$

$$22 \overline{) 665.318} \quad (30.241)$$

$$\begin{array}{r} 66 \\ \underline{53} \\ 214 \\ \underline{91} \\ 88 \\ \underline{31} \end{array}$$

30.241 sum = .08

Week ending October 12, 1861

29.618

30.050

29.978

29.890

30.120

30.054

30.080

30.138

30.030

30.064

30.1054

30.188

30.138

30.040

30.186

30.406

30.456

30.450

30.189

30.112

30.066

29.826

29.810

29.816

29.802

60

56

57

73

71

72

74

62

57

56

56

54

44

53

56

47

49

54

60

55

57

58

64

63

59

64

64

153

120

234

234

751

212

200

121

5

Rain = 4.003

.019

357

43

.817

Wind = N.N.E.

max = 77.

min = 41.

$$\begin{array}{r} 25) 852.121 \\ \underline{85} \\ 22 \\ \underline{22} \\ 0 \end{array}$$

$$\begin{array}{r} 25) 752.121 \\ \underline{75} \\ 22 \\ \underline{22} \\ 0 \end{array}$$

$$\begin{array}{r} 26) 64 \\ \underline{153} \\ 120 \\ \underline{234} \\ 234 \end{array}$$

$$\begin{array}{r} 25) 752.121 \\ \underline{751} \\ 212 \\ \underline{200} \\ 121 \end{array}$$

Weather

{ 30.085
30.456
29.618 }

Week ending October 19 1860

49

29.600
29.530
29.528
29.510
29.518
29.926
29.946
29.928
29.860
29.920
30.038
30.158
30.100
30.132
30.100
30.264
30.202
30.108
30.150
30.134
29.938
29.920
29.774
29.812
29.942
29.106

64 = Rain
019

14
8
9

26) 798464 (29.941
52
16 258
9 234
14 4 244
14 234
158 106
104
24

Week ending October 26, 1861

Barometer

29.758
29.778
29.910
29.942
29.950
30.156
30.000
30.344
30.010
30.336
30.016
30.320
30.216
30.118
29.750
29.662
29.640
29.704
29.954
30.060
30.660
30.718
30.638
30.600
30.508
30.492

26) 784570 (30.176 mean
88
45
26
199
122
150
156

30.718 max
29.640 min

.019
9

.171 Rain

Thermometer

57
57
55
55
64
49
57
42
52
43
37
47
51
52
55
59
66
53
45
38
31
37
46
42
40
48 12

Wind
W. N. W.

26) 1258 (48.4 mean
104
218
208
100

63 max
27 min

Week ending Nov. 2 1881.

30.342	61
30.256	66
30.150	53
30.150	51
30.080	42
30.150	33
30.152	37
30.150	46
29.950	40
29.890	42
29.624	46
29.624	57
29.500	45
29.554	35
29.594	47
29.620	57
29.592	41
29.832	47
29.908	44
30.052x	40
30.262	47
30.296	52
30.282	44
30.300	49

$$\begin{array}{r}
 25 \overline{) 749 \ 61 \ 2} \quad 299.55 \\
 \underline{50} \\
 249 \\
 \underline{225} \\
 24 \ 6 \\
 \underline{225} \\
 211 \\
 \underline{200} \\
 114
 \end{array}
 \qquad
 \begin{array}{r}
 24 \overline{) 1052 \ (45.0)} \\
 \underline{96} \\
 122 \\
 \underline{120} \\
 2
 \end{array}$$

Wind = W.N.W.

Maximum = 59

Minimum = 31

$$\begin{array}{r}
 70 \\
 \underline{019} \\
 681 \\
 \underline{70} \\
 1381
 \end{array}$$

1381 Rain.

45.0 = mean
29.985 mean

$$\begin{array}{r}
 10 \\
 \underline{009} \\
 119 \\
 \underline{10} \\
 247
 \end{array}$$

52

Week ending Nov. 9

30.194	48	
29.980	50	
29.536	53	
29.488	54	
29.476	62	
29.550	50	
29.612	41	
29.620	46	
29.620	52	
29.726	43	
29.818	38	
29.828	48	
29.776	53	
29.784	48	
29.649	46	
29.628	50	
29.516	52	
29.520	49	
29.520	42	
29.508	51	
29.516	51	
29.600	45	
29.786	36	
29.804	38	
29.816	47	
29.882	43	
29.876	41	
29.870	45	
28) 841 499	(29.698	28) 1021
56		112
271		201
252		196
194		50
168		
269		
252		
179		
168		

mean = 29.596

max = 30.194

min = 29.476

72
019
648
72
1068

Wind WNW

27
9
243
16
261

Week ending Nov. 16

$$\begin{array}{r} 17 \\ 6 \\ \hline 153 \end{array}$$

53

29.768	44
29.792	41
29.986	35
30.028	37
30.152	32
30.102	30
30.006	37
29.752	55
29.990	39
30.020	42
30.018	42
30.024	36
29.952	30
29.906	35
29.850	48
29.842	35
29.850	36
29.782	44
29.790	32
29.624	30
29.460	32
29.464	30
29.380	30
29.388	33
24) 715 958 (29.431	24) 883 (36.5
48	32
235	163
216	164
199	
9	
75	
38	

$$\text{mean} = 29.83190$$

$$\text{mx} = 55$$

$$\text{mn} = 29$$

$$\text{mean} = 36.8$$

Week ending Nov. 23

Wind = W. N. W.

29.398 37

29.496 37

29.628 39

29.524 40

29.596 41

29.630 36

29.750 34

29.774 35

29.776 46

29.926 30

30.076 27

30.108 33

30.126 40

30.200 30

30.166 28

30.144 30

30.060 38

29.980 31

30.060 30

30.026 33

30.082 28

30.118 26

30.100 30

30.066 36

30.030 28

29.874 29

29.864 10131112 29

$$\begin{array}{r} 27 \overline{) 808158} \quad (29.933 \\ \underline{54} \\ 268 \\ \underline{243} \\ 251 \\ \underline{243} \\ 88 \\ \underline{81} \\ 78 \end{array}$$

$$\begin{array}{r} 27 \overline{) 895} \quad (33.1 \\ \underline{21} \\ 85 \\ \underline{81} \\ 40 \end{array}$$

Week ending Nov. 30

29.710	33
29.416	41
29.394	37
29.428	39
29.492	43
29.562	32
29.598	32
29.582	32
29.530	33
29.618	30
29.700	28
29.714	30
29.764	38
29.810	33
30.020	26
46 30.056	33
29.880	34
29.994	36
30.000	40
30.024	34
29.904	33
29.850	35
29.714	36
29.714	34
29.516	32
29.514	33

Rain 64⁰³

mm = 44

mm = 26

$$\begin{array}{r}
 64 \\
 0.9 \\
 \hline
 57.6 \\
 0.64 \\
 \hline
 1.218
 \end{array}$$

$$\begin{array}{r}
 26 \overline{) 772704} \quad 26 \overline{) 885} \quad (34. \\
 \underline{52} \quad \underline{1.} \quad \underline{718} \\
 252 \quad 105 \\
 \underline{234} \quad \underline{104} \\
 187 \quad 1 \\
 \underline{182} \quad \\
 50 \\
 \underline{26} \\
 244 \\
 \underline{234}
 \end{array}$$

Week ending Dec. 7 1861

29.568

29.798

30.016

30.032

29.936

29.672

29.682

29.716

29.774

29.850

29.872

29.902

29.872

29.956

~~29.956~~

30.122

30.180

30.132

30.168

30.144

30.160

30.196

30.360

30.578

30.616

30.602

30.594

30.440 9 14 17 12

$$\begin{array}{r}
 27 \overline{) 911938} \quad 30.072 \\
 \underline{182} \\
 189 \\
 \underline{189} \\
 48 \\
 \underline{54}
 \end{array}$$

35

34

28

31

36

40

32

33

33

26

18

18

22

17

15

20

26

22

27

31

41

33

32

34

26

34

44

$$\begin{array}{r}
 27 \overline{) 798} \quad 29.6 = \text{Mean} \\
 \underline{54} \\
 258 \\
 \underline{243} \\
 150
 \end{array}$$

Wind = north
max = 44
min = 14

The rain & snow
in prob in the
at meteorology for
next week

Dec. 14 1861

57

30.278

55

Wind = West N.W.

30.108

44

29.938

45

Max = 58

29.932

48

min = 18

29.902

58

29.912

51

Rain = 75 ounces

29.956

43

019

29.986

42

675

30.028

45

75

30.042

40

1425

30.056

43

30.020

48

30.060

45

29.770

52

29.880

52

29.898

43

30.140

31

30.496

18

30.544

20

30.570

29

30.608

25

30.550

19

30.378

37

30.244

31

30.190

37

30.156

25

100

1

40.

26) 192342

30.009

234
234

Week ending December 21 1861

Barometer

Thermometer

Wind = West

29.982

50

29.848

43

30.088

32

30.140

32

30.180

35

30.250

29

29.980

32

29.936

33

29.620 Lowest

46

29.624

47

30.190

27

30.242

28

30.256

36

30.230

25

29.928

40

29.906

42

29.886

51

30.112

38

30.264

26

30.274

28

30.088

40

29.900

40

29.702

41

29.712

42

30.750

44

30.056

21

30.300

17

30.354 Highest

19

28) 841.798 (30.064 = Mean 28) 994 (35.5

84

84

179

154

168

140

118

14

112

Week ending Dec. 28 1861.

Barometer

30.344

30.420

30.450

30.472

30.400

30.326

29.794

29.626

29.320

29.024

29.322

29.916

29.520

29.730

29.954

30.032

30.368

30.402

30.344

30.172

29.708

29.682

29.650

29.792

29.968

26) 29.772 917 12 14
 77852 4 (29.943 Mean
 522

258

274

245

234

112

104

84

78

Thermometer.

18

12

13

18

29

27

34

36

31

32

22

22

22

13

9

20

6

12

28

28

40

42

35

22

12

26) 14
 597 (22.9
 52
 77
 52
 25

Wind = N.N.W.N.

Maxi = 43

Min = 6

99

019

898

99

1.888

Week ending January 4 1861:

Barometer

Thermometer

N Wind

29.440

18

30.030

12

30.042

15

29.956

23

Max = 49

29.1320

19

21

29.882

23

min = 3

29.820

27

189

29.986

25

13

29.960

20

202

30.010

16

29.900

22

29.496

29

29.580

30

29.200

36

29.500

49

29.550

36

29.160

14

29.662

13

29.732

14

29.798

9

29.828

12

29.800

13

29.728

9

29.750

8

24) 713930 (29.847

45

233

216

179

168

113

96

170

25) 10 (20.0

500

Maximum & Minimum Thermometers
& Barometer for 1861

Maximum Barometer on October 25 at 9 AM. = 30.718

Minimum " " Dec. 23 9 PM = 29.024

Maximum Thermometer July 8. = 96

Minimum Thermometer Feb 8 = -18.5

2

Weekly record for Medical Journal. January 11. 1862.

29.694	29.820	29.470	30.012	13	14	9	33
29.778	29.718	30.510	30.038	7	22	14	31
29.884	29.760	30.450	30.028	1	16	29	32
29.922	29.890	30.344	29.844	6	10	23	39
29.894	29.926	30.000	29.578	14	18	34	39
29.916	29.976	29.986	29.532	8	25	36	25
29.830	30.218	29.934	30.032	11	17	39	21

208.918	209.308	210.694	209.064	60	122	184	220
209.308				122			
210.694				184			
209.064				220			

28) 836.984 (29.892

26) 586

22.14

56

276

252

244

224

204

184

164

Max. Barometer = 30.510
 Min. " = 29.470
 Mean " = 29.892

Thermometer Max. = 43
 Min. = 1
 Mean = 22.1

Weekly Record for Medical Journal Jan. 18.

30.118	29.954	30.370	30.368	23	29	23	22
30.170	30.172	30.210	30.530	21	21	28	12
29.824	30.450	29.844	30.558	28	12	33	16
29.748	30.622	29.534	30.450	32	7	32	27
29.502	30.696	29.766	30.386	32	7	31	22
29.430	30.660	29.840	30.230	32	14	30	21
29.786	30.656	30.050	30.228	33	12	30	23
208.578	213.210	209.614	212.750	201	102	208	143

208.578

213.210

212.750

28) 844.152 (30.148

41

22

135

112

232

224

28) 654 (23.

56

94

84

10

102
202
143
654

MX = 42

min = 8

mn = 23.

Ram 2.223

Wind W.N.W

Barometer
MX 30.696
min. 29.430
mn. 30.148

Week ending January 25

29.994	29.776	30.098	30.096	25	26	24	31
29.960	29.846	30.026	30.134	23	33	25	32
29.950	30.036	29.976	30.150	30	25	19	33
29.930	30.070	30.026	29.922	25	21	20	24
29.796	30.096	30.034	29.848	29	21	24	
29.842	30.136	30.004	(29.572)	25	24	18	
29.878	30.100	30.032	(29.194)	26	22	19	
209.450	210.060	210.196	150.150	183	172	149	120

210.060
210.196
150.150
183.172

Barometer

25) 624 (24.9

50
124
100
24

26) 779.856 (29.994

52
259
234
258
234
245
334
116

Mean 29.994
MX 30.150
min 29.776

Wind North

Ram 5.472

MX 34

min 18

Mean 24.9

Weekly Records for Medical Journal Feb. I

29.572	30.234	29.956	30.360	34 9	26 15
29.194	30.286	29.902	30.248	37 12	27 10
29.576	30.310	29.926	30.250	32 24	29 16
29.682	30.184	29.872		32 20	20
29.850	30.170	30.221		27 22	23
30.076	30.112	30.260		19 31	28
30.114	29.982	30.300		20 30	17
208.064	211.278	210.437	90.858		

208.064

210.437

90.858

24) 720.637 (3002.2

72

063

57

57

201

148

170

211

24) 560 (23.3

48

80

72

80

max = 37

min = 10

mean = 23.3

Barometer.

Mean 30.022

Max. 30.360

Min 29.194

Weekly Record for Medical Journal Feb. 8

30.170	30.370	30.142	29.926
30.110	30.376	30.284	29.640
30.118	30.322	30.318	29.612
30.150	30.050	30.286	29.650
30.150	30.076	30.136	29.732
30.280	30.050	30.108	29.860
29.988	29.976		

210.966 211.220

211.220

181.274

178.420

26) 781.880 (30.072

78

188

182

60

Mean. 30.072

mx 30.376

min. 29.612

Mean = 22.4

mx = 38

min = 8

$$\begin{array}{r}
 48 \\
 \cdot 009 \\
 \hline
 432 \\
 48 \\
 \hline
 912
 \end{array}$$

181.274 178.420

15 24 26 35

13 23 20 30

24 19 9 37

15 26 15 37

16 28 24 37

17 14 26

7 22 14

13

93 143 130 216

143 15

130 16

216

26) 582 (22.4

52

362

52

10

Weekly Record for the Week ending February 15

29.936	30.028	29.680	29.822
29.880	29.942	29.704	29.724
29.766	29.900	29.832	29.628
29.778	29.858	30.000	29.884
29.730	29.878	30.020	30.040
29.892	29.828	29.888	30.108
30.008	29.828	29.910	179.206

208990 209.262 209.034.

24	24	32	28
19	13	21	14
11	5	25	18
14	8	33	
25	25	30	60
18	25	28	
10	21	32	
15	30	33	

Mean 25.3

Max = 38

min = 7

Wind = WNW

22

019

198

22

Rain 418

13 6 15 5 23 4
15 5
23 4
60
27) 6 8 5 - (25.3 mean
5 4
1 4 5
1 3 5
1 0

208.990
209.262
209.034
179.206
27) 806492 (29.870
56
2 66
2 43
2 34
2 16
1 89
1 89

Mean = 29.870

max = 30.108

min = 29.628

Weekly Record for Week ending Feb. 22⁶⁷

30.038	30.460	30.196	29.970	20	15	23	23
30.000	30.362	30.250	30.298	17	28	28	13
30.118	30.268	30.150	30.316	11	23	36	18
30.148	30.050	29.960	30.232	15	22	32	26
30.270	30.000	29.381	30.160	24	26	31	23
30.384	29.890	29.490	29.874	17	37	30	26
<u>30.436</u>	<u>29.986</u>	<u>29.628</u>	<u>29.840</u>	2	33	32	36
211.394	211.006	209.045	210.690	106	184	212	165

211.006

209.045

210.690

28) 842.135 (30.076

84
2 13
196
175
168

184

212

165

28) 667 (23.8

56
107
84
23

Bar. Mean 30.076

Max 30.460

Min 29.381

Wind = West Ther. Max. = 39

" Min. = 5

Rain = 77oz = 1.46 " Mean = 23.2

Week ending February 29 = March 1.

29.750	29.062	29.920	29.218	37	41	16	19
29.730	29.100	29.264	29.188	29	19	28	21
29.798	29.770	29.628	29.182	16	8	25	23
29.800	29.850	29.600	29.420	21	10	26	25
29.798	29.900	29.462	29.440	33	17	28	27
29.516	30.020	29.424		34	15	27	
<u>29.450</u>	<u>29.986</u>	<u>29.282</u>		34	14	19	
207.842	207.688	207.080	146.348	204	124	169	115

207.688

207.080

146.348

26) 768.958 (29.575 = Mean

52

248

234

149

130

195

182

138

30.020 = Max

29.062 = Min

Wind = N N W

Ther. Max = 42

" Min = 6

Rain = 148oz = 2.812 " Mean

115
26) 612 (23.2
52
92
40

Week ending March 8 1862

29.456	29.838	29.568	29.530	31	24	26	28
29.656	29.830	29.576	29.550	23	38	30	26
29.804	29.700	29.580	29.590	21	33	26	35
29.822	29.220	29.508	29.572	24	35	29	39
29.800	29.182	29.482	29.618	33	44	24	30
29.826	29.192	29.482	29.750	26	37	31	34
29.860	29.392	29.480	29.784	20	28	31	
208.224	206.354	206.676	207.394	178	236	207	192
206.354				236			
206.676				207			
207.394				192			
28) 828.658	29.595			27) 813	30.1		
56				51	50		
268							
252							
166							
140							
265							
252							
138							
140							

Rain = 212oz

Wind = N.N.W.

Max = 29.860

Min = 29.182

Mean = 29.595

Max = 41 Min = 13 Mean = 30.1

Week ending March 15 1861

29.876	30.100	29.928	30.224	40	37	32	30
30.038	29.872	29.938	30.216	33	43	40	30
30.246	29.668	29.874	30.136	31	42	43	35
30.288	29.828	30.024	30.108	33	36	36	32
30.266	29.880	30.272	30.000	43	38	28	32
30.250	29.908	30.300	29.976	33	41	29	33
29.150	29.984	30.274		32	33	34	
210.114	209.240	210.610	180.660	245	270	242	192
209.240				270			
210.610				242			
180.660				192			
27) 810.624	30.023			27) 849	35		
51				51			
062				139			
54							
54							
81							

Mean = 30.023

max = 30.288

min = 29.668

Wind = N.N.W.

Max = 41 Min = 25

Mean = 35

Rain next week

Weekly Record for week ending March 22.

29.836	29.498	30.036	29.960	33	32	22	28
29.708	29.550	30.034	29.868	30	35	29	34
29.240	29.676	29.956	29.820	32	27	37	36
29.184	29.856	30.020	29.668	30	28	30	35
29.184	29.882	30.000	29.552	29	29	21	34
29.316	29.932	30.016	29.426	32	34	27	32
29.440	30.014	29.978	29.416	27	29	36	34
205.918	208.408	210.030	207.710	223	214	202	233
208.408							
210.030							
207.710							
27) 832.066	29.716						
56							
272							
252							
200							
196							
46							
28							
186							
168							
18							

mx = 38

min = 20

mean = 31.1

Rain 1.672

223
214
202
233
27) 872 (31.1
84
32
28
40

29.352	29.570	29.788	29.782	42	44	33	32	31
29.420	29.612	29.800	29.753	33	37	37	37	29
29.520	29.644	29.852	29.766	39	34	31	34	35
29.508	29.652	29.916	29.862	45	37	30	25	43
29.518	29.648	29.920	30.020	36	41	34	25	34
29.508	29.718	29.874	30.044	33	34	41	31	
29.540	29.774	29.872		40	28	33	38	
206.366	207.618	209.022	207.227	268	255	239	184	
207.618				255				
209.022				239				
177.227				184				
27) 799.233	29.601							
54								
259								
243								
162								
162								
33								

27) 946 (32.8
57
76
54
22

max 46

min 26

mean 32.8

Rain .513

Week ending April 5 1862

30.036	29.940	30.136	30.350	38	35	33	42
30.051	29.872	30.236	29.948	31	35	37	40
30.092	29.970	30.388	30.072	29	33	45	41
30.108	30.186	30.060	30.322	35	34	38	41
30.100	30.382	30.050	30.218	43	36	37	32
30.058	30.024	30.120	29.986	34	44	41	31
29.950	30.136	30.260	30.142	36	37	31	38
210.395	210.410	211.250	171.26	244	253	284	265
210.410				253			
211.250				284			
210.098				265			
25) 842.093	30.075			28) 1096	39.2		
84				84			
209				256			
196				232			
133				46			
140							

Barometer

Mean = 30.075

Max = 30.388

Min = 29.848

Thermometer

Max = 51.0

Mean = 39.2

Min = 24.0

21.

019

89

21

29.9 Rain

Wind = E.S.E.

Week ending April 12

29.954	30.120	29.884	30.196	34	23	31	43
29.890	30.120	29.960	30.252	01	32	35	35
29.950	30.030	29.984	30.292	28	36	36	38
30.018	30.032	30.050	30.296	31	30	40	42
30.140	30.000	30.140		30	30	36	
30.150	29.998	30.192		31	36	32	
30.082	29.960	30.200		34	37	30	
25) 751.840	30.074 = Mean			25) 841	33.6 = Mean		
75				75			
184	30.296 = Max			91	44 = Max		
175	29.884 = Min			75	20 = Min		
90				16			

Wind = N.N.E. Rain 16 x .019 = .344

284
265
150
15) 709 (35
54
169
162

Week ending April 19

30.256	30.314	30.500	30.070	50.60	57	57
30.240	30.390	30.450	30.050	40	50	62
30.288	30.450	30.416	29.982	48	45	51
30.250	30.496	30.294	29.860	55	56	48
30.252	30.460	30.276	29.848	40	63	62
30.300	30.500	30.140	29.854	34	50	74
30.300	30.506	30.150		51	50	60
				318	374	414
						380

211.886 213.116 212.226 179.664

213.116

212.226

179.664

27) 816.892 (30.255

$$\begin{array}{r} 68 \\ 54 \\ \hline 149 \\ 135 \\ \hline 142 \end{array}$$

Bar. mean = 30.255

max = 30.506

min = 29.848

$$\begin{array}{r} 318 \\ 374 \\ 414 \\ \hline 380 \\ 135 \\ \hline 136 \\ 135 \\ \hline 1 \end{array}$$

27) 1486 (55.0

Wind S W

Rain = 0

Max = 75

Min = 22

Week ending April 26

29.900	30.074	29.700	30.240	64	50	37	38
29.986	29.750	29.806	30.200	49	50	37	46
30.068	29.676	29.886	30.200	46	57	45	
30.132	29.564	29.918	30.296	38	48	37	
30.150	29.620	29.920	30.338	34	45	36	
30.190	29.598	30.092		47	55	44	
30.138	29.672	30.212		45	50	49	
210.544	207.954	209.564	151.304	349	395	316	116
207.854				395			
209.564				316			
151.304				116			

26) 779.366 (29.975

$$\begin{array}{r} 52 \\ 259 \\ 234 \\ \hline 253 \\ 234 \\ \hline 196 \\ 182 \\ \hline 148 \\ 130 \end{array}$$

Mean 29.975

max 30.338

min 29.564

26) 1176 (45.2

Max = 63

min = 28

mean = 45.2

Wind N. N. W.

Rain 54 x 0.019 = 1.026

Week ending may 3, 1862

30.988	30.224	30.108	30.180
30.460	30.040	30.224	29.928
30.456	30.036	29.982	30.084
30.430	30.010	29.928	29.916
30.378	30.024	30.218	30.170
30.378	30.100	29.988	
<u>30.006</u>	<u>30.124</u>	<u>29.904</u>	

46	40	50	50
39	41	62	46
48	42	44	49
52	43	45	42
39	51	49	48
38	46	56	
<u>46</u>	<u>51</u>	<u>57</u>	

212.796 210558 209.382 150.278
 210.558
 209.382
 150.278
 783.014

308 317 366 235

317

366

235 Max = 62

26) 12 26 min = 28

10 4 (47.2 = mean

186
152
 40

26) 783.014 (30.116 mean

78

30

26

41

26

15-4

15-6

30.460 max.

29.928 min.

Wind = ENE

54
<u>019</u>
48 6
<u>54</u>
10 2 6 Rain

Week ending May 10 1862

73

29.910	29.764	29.586	29.964	60	62	52	40
29.856	29.682	29.564	29.840	50	56	55	53
29.860	29.660	29.608	29.816	50	51	51	66
29.868	29.564	29.800	29.750	56	48	38	76
29.822	29.550	29.860	29.700	63	50	42	66
29.834	29.500	29.828	29.550	49	55	50	66
29.754	29.564	29.892	29.542	49	52	51	65
208.904	207.284	208.138	208.162	380	377	339	432
208.138				377			
207.284				339			
208.162				432			

24) 832.488 | 29.832 mean
 56
 272
 252
 204
 196
 88
 84
 48

28) 1528 | 54.6 mm
 140
 128
 112
 160
 168

Wind = N N W

Week ending May 17

29.594	30.250	30.050	30.024	65	59	48	56
29.850	30.140	30.106	30.216	48	66	56	66
29.972	30.042	30.128	30.224	48	56	57	71
29.986	29.886	30.151	30.140	50	52	45	83
30.010	29.892	30.170	30.130	60	62	44	65
30.174	29.880	30.210	30.100	46	58	62	64
30.248	29.930	30.190	30.080	48	53	67	70
209.834	210.020	211.005	210.914	365	407	339	478

210.020

211.005

210.914

28) 841.773 (30.063

84
177
168
93
84
9

bar mean 30.063

max 30.250

min 29.594

Ther mean = 66.0

max = 83

min = 38

407

339

478

26) 1589 (610

156
290
22

Rain = 0 Wind G.W.

May 24

30.014	29.630	30.280	30.060	84	76	62	75
30.022	29.780	30.216	29.880	66	60	54	81
29.976	29.960	30.076	29.942	68	52	62	59
29.956	29.996	30.072	30.130	70	55	74	51
29.810	30.120	30.000	30.138	64	57	82	55
29.702	30.264	30.074		65	54	80	
29.720	30.280	30.040		72	56	62	
209.200	210.020	210.758	150.150	492	410	467	321

210.020

210.758

150.150

26) 780.128 (30.005

0128 max = 30.280
min = 29.630

26) 1690 (65

156
130
136

max = 84

min = 46

Rain 45-6

Week ending May 31

75

30.020	30.180	29.654	29.854	61	67	61	62
30.120	30.142	29.662	29.900	50	65	72	53
30.160	30.154	29.698	29.900	50	51	68	61
30.166	29.984	29.864	29.876	57	52	51	64
30.102	29.962	29.940	29.868	65	50	57	56
30.100	29.850	29.900	29.916	49	59	60	52
<u>30.140</u>	<u>29.660</u>	<u>29.820</u>	<u>29.926</u>	<u>52</u>	<u>55</u>	<u>71</u>	<u>61</u>
210.858	209.892	208.544	209.210	384	402	443	409

209.892

208.544

209.210

28) 838.504 29.922

56
279
252
275
252
230
224
64

Mean = 29.922

max = 30.180

min = 29.654

44
019
396
44

836 = Rain

28) 1638 (58.5)
140
238
224
140

H. mean = 38.5

max = 71.

min = 46.

Wind = N. G. W.

Week ending June 7, 1862

29.914	29.832	30.162	30.082	66	69	57	57
29.900	29.804	30.190	30.062	56	79	55	66
29.918	29.808	30.200	29.996	64	66	54	62
29.926	29.940	30.150	29.914	68	70	52	54
29.904	29.966	30.082	29.800	74	75	56	55
29.860	30.060	30.140	29.812	56	74	58	57
29.814	30.080	30.118		58	70	50	
209.236	209.514	211.042	179.666	442	503	385	351
209.514				500			
211.042				385			
179.666				351			

27) 909.458 (29.9791

54
268
243

264

243

215

288

268

243

25

Bar. Mean 29.9791
mx 30.200
min 29.800

211

019

1899

211

4.009 Rain

27) 1681 (62.3

162

61

54

70

Ther. Mean 62.3
mx 82.
min 49.

Wind = N. W. N.

Week ending June 14

17

29.844	30.184	29.940	29.624	59	57	59	70
29.920	30.150	29.940	29.662	59	64	66	71
30.028	30.150	29.850	29.971	50	55	71	79
30.056	30.140	29.802	29.700	49	60	57	68
30.098	30.160	29.600	29.800	49	66	61	57
30.140	30.112	29.598	29.796	47	77	62	65
30.160	30.340	29.564	29.800	52	50	81	71
210.246	211.236	208.294	208.403	359	432	457	481
211.236				402			
208.694				457			
208.403				481			

28) 837.589 (29.914
56
 277
252
 255
289
 518
252
 34
28
 109
142

28) 1729 (618
168
 49
28
 210
 224

Wind WGN

Max Ther. 81
 Min " 75

$\frac{8}{.019}$
 $.152 = \text{Rain}$

210.246
 211.236
 208.294
 208.403
 28) 838.179 (29.938
56
 278
252
 261
252
 97
84
 139
 140

Week ending June 21 1862

29.820	30.030	29.806	29.690	77	55	64	62
29.918	30.333	29.864	29.860	65	65	70	63
29.974	30.284	29.750	29.824	60	55	77	69
29.976	30.230	29.674	29.868	60	52	66	77
29.950	30.204	29.610	29.980		66	67	64
30.150	30.040	29.616	30.070	50	75	71	62
30.292	29.740	29.616	30.078	47	57	81	71
210.080	211.561	207.936	209.370	360	425	496	468
211.361				425			
207.976				496			
209.770				468			

27) 828.753 (27.985

56
288
252
260
252
18
185
140
135

Ther max. 80
" min. 41

27) 1751 (66.9

182
131
5

Wind SW.

Rain 0

Week ending June 28

79

30.076	30.212	29.838	29.892	35 21	50	59
30.100	30.178	29.832	29.900	66 73	84	60
30.130	30.150	29.804	29.920	67 61	55	74
30.124	30.120	29.770	29.880	68 60	57	81
30.240	30.116	29.790	29.866	70 65	60	60
30.174	30.082	29.800	29.840	60 64	61	68
30.200	29.930	29.844	29.860	57 67	66	77
211.044	210 778	208.678	209.158	466	461	406
210.778				461		
208.678				406		
209.158				484		
28) 839 658	29.958			28) 1817	84.9	
56				166		
279				153		
252				142		
276				21.0		
252						
245						
224						
218						

Ther max. 81
" min. 50

Wind = West

112
019
1008
112
2.128

max Ther in June = 82
min = 41

331
019
2979
331
6.289

Rain

Baromet. mean = 29.886
max = 30.300
min = 29.536

Mean Ther = 62.05

Week ending July 5. 1862.

29.850	29.640	29.974	30.270
29.890	29.506	30.012	30.388
30.004	29.580	30.064	30.398
30.006	29.624	30.090	30.360
29.986	29.669	30.072	30.324
29.924	29.708	30.120	30.196
29.710	29.806	30.184	30.172
209.370	207.593	209.456	212.108
207.593			
209.456			
212.108			

28) 838.527 (29.747

56
278
25.2
265
252
132
112
207
196
11

max bar = 30.398

min " = 29.506

81	70	75	63
70	61	75	70
62	57	58	77
61	62	53	66
59	70	54	66
59	57	62	76
62	59	56	61
45	44	42	6
42	6		
43	1		
54	2		
28) 1853	(66.2		
168			
173			
168			
50			

Max = 81 Min = 51.

94
019
846
94
1786

Wind = N.S.W.

Week ending July 12

29.940	29.650	29.660	30.098	88	82	71	68
29.878	29.650	29.850	30.006	73	73	61	77
29.840	29.650	29.960	29.940	82	74	66	61
29.910	29.726	29.928	29.926	88	80	72	61
29.906	29.764	29.982	30.110	81	84	75	69
29.870	29.750	30.110	30.050	70	74	64	65
<u>29.788</u>	<u>29.660</u>	<u>30.120</u>		<u>81</u>	<u>77</u>	<u>62</u>	
209.132	207.850	209.600	180.160	566	544	471	401
207.850			~~566~~	544			
209.600				471			
180.160				401			

$$27) 806.742 \quad (29.879)$$

$$\begin{array}{r} 54 \\ \hline 266 \\ 243 \\ \hline 237 \\ 216 \\ \hline 214 \\ 189 \\ \hline 252 \\ 243 \\ \hline \end{array}$$

bar max. 30.110
" min. 29.650

$$\begin{array}{r} 27) 1982 \quad (73.4) \\ \hline 189 \\ \hline 92 \\ 21 \\ \hline 110 \end{array}$$

Max = 90 Min 53

$$\begin{array}{r} 18 \\ 019 \\ \hline 162 \\ 18 \\ \hline 342 \end{array}$$

Wind = S.W.

Week ending July 19

29.838	29.822	29.906	30.106	74	85	66	60
29.860	29.822	29.906	30.198	65	82	84	62
29.790	29.916	29.892	30.238	67	70	85	69
29.788	29.980	29.860	30.284	75	69	75	68
29.760	29.972	29.900	30.274	83	70	68	55
29.770	29.978	29.960	30.250	71	70	72	57
<u>29.776</u>	<u>29.950</u>	<u>30.042</u>	—	<u>72</u>	<u>62</u>	<u>68</u>	<u>69</u>

208.602 209.440 209.496 181.350

209.440
209.496

181.350

$$\begin{array}{r}
 27) 808.888 \quad (29.959 \\
 \underline{54} \\
 268 \\
 \underline{243} \\
 258 \\
 \underline{243} \\
 158 \\
 \underline{155} \\
 238
 \end{array}$$

max = 88

min = 48

507 517 516 440

517

516

440

$$\begin{array}{r}
 28) 1950 \quad (70.8 \\
 \underline{186} \\
 200
 \end{array}$$

G.M.

$$\begin{array}{r}
 100 \\
 \underline{.019} \\
 900 \\
 \underline{1.00} \\
 1.9
 \end{array}$$

max = 76
min =

Week ending July 26

30.108	29.940	30.192	28.580	57	66	61	67
29.956	30.076	30.062	29.890	66	57	62	73
29.936	30.134	29.988	29.870	70	60	58	76
29.848	30.150	29.746	29.800	64	64	62	68
29.830	30.150	29.950	29.950	62	66	72	66
29.988	30.172	29.936	29.956	47	55	74	73
<u>29.900</u>	<u>30.164</u>	<u>29.900</u>	_____	<u>57</u>	<u>55</u>	<u>65</u>	_____

209.560	210.776	209.914	178.476	435	423	454	423
210.776				423			
209.914				454			
178.476				423			

$$\begin{array}{r}
 27 \overline{) 808.732} \quad (29.953 \\
 \underline{54} \\
 268 \\
 \underline{243} \\
 257 \\
 \underline{242} \\
 155 \\
 \underline{135} \\
 20
 \end{array}$$

$$\begin{array}{r}
 27 \overline{) 1723} \quad (63.9 \\
 \underline{162} \\
 105 \\
 \underline{81} \\
 240 \\
 \underline{243} \\
 1026
 \end{array}$$

Max = 76
min = 57

W 2 W

Maximum and Minimum Temp. by Huddleston

1861hae.proj..263

4

1863

$H' = \frac{H(\text{Max}) + H(\text{Min})}{2}$ the half sum of the readings of the mercurial column in Huddleston.

$T_1 = \frac{(2) + (4)}{2}$ the half-sum of the readings of the thermometers 2 and 4.

The following are the values of

$T_1 - H'$ T_1 H'

May 12	57.30	56.10
13	53.05	52.10
14	46.35	45.50
15	46.00	45.00
16	59.30	57.95
17	59.95	58.10
18	60.65	59.45
19	57.15	56.05
20	71.75	70.60
21	75.90	74.30
22	80.35	79.15
23	62.45	61.15
24	53.35	51.95
25	47.45	47.15
26	61.65	60.30
27	62.10	60.80
28	67.20	65.75

	S'	$S' - H'$	
Mean	46.87	+0.87	30th.
	57.02	1.32	6 "
	62.93	1.43	5 "
	70.00	1.33	3 "

The standard (21) is 0.93 higher than (4) on the average.

1.12
1.68
0.80
0.67

1961phae-proj. 263