

# METEOROLOGICAL REGISTER.

Station *Columbus Barracks, Minn.* Lat. *39° 57' N* Long. *6° W* Alt. of Bar. above Sea, about *900* feet

210 13

7001

1876. Month.	THERMOMETER.				SEL-REGISTERING THERMOMETER.			MOVEMENTS OF ATMOSPHERE.						AMOUNT OF CLOUDINESS.			RAIN AND MELTED SNOW.			REMARKS.
	7 A. M.	2 P. M.	9 P. M.	Daily means.	Max.	Min.	Mean.	7 A. M.		2 P. M.		9 A. M.		7 A. M.	2 P. M.	9 P. M.	Began.	Ended.	Quantity.	
								WINDS. D. F.	Motion of clouds.	WINDS. D. F.	Motion of clouds.	WINDS. D. F.	Motion of clouds.							
<i>Octob.</i>																				
	25	52	40	39.00	52	21	36.50	S.W. 2		W. 3	W. S.E. 2			0	1	0				
	35	64	43	47.33	63	31	47.00	N.W. 2		N.W. 2	N.W. 1			0	0	0				
	36	66	45	49.00	66	31	48.50	N.E. 1		S. 1	S. N.W. 1			0	1	0				
	45	68	51	54.66	69	36	52.50	N.E. 1, N.E. 2		S. 2	S. N. 1			5	6	0				
	66	78	65	68.00	78	58	65.50	S. 2, S. 3		S. 4	S. S.E. 2			4	6	10				
	56	74	58	63.33	<u>77</u>	53	65.00	S.W. 1		S.W. 2, S.W. 3	N.W. 1, N.W. 2			0	1	1				
	58	66	60	61.33	70	53	61.50	N.W. 1, N.W. 2		S.W. 2, S.W. 3	S.W. 2, S.W. 3			10	8	9				
	55	66	50	53.66	56	50	53.00	W. 3		W. 2	W. 1, W. 2			9	10	9				
	44	50	42	45.33	50	40	45.00	S.W. 2, S.W. 3		S.W. 1, S.W. 2	N.W. 2, N.W. 3			10	8	6				
	37	57	40	42.66	51	36	43.50	W. 2, W. 3		N.W. 2, N.W. 3	N.W. 1, N.W. 2			8	6	6				
	38	54	53	48.33	54	36	45.00	N.W. 2, N.W. 3		N.W. 2, N.W. 3	N.W. 1, N. 1			6	6	1				
	65	60	50.00	66	24	45.00	N. 1		N.E. 1	S.E. 1, S.E. 2			0	0	3					
	46	66	61	57.66	67	42	55.00	S. 2, S.W. 2		S. 1, S. 2	S. 1, S. 2			5	9	8				
	68	58	60.66	69	54	61.00	S. 1, S. 2		S. 1, S. 2	S. 1, S. 2			7	8	5					
	58	70	61	63.00	70	57	63.50	S. 1, S. 2		S. 1, S. 2	S. 1, S. 2			8	4	0				
	61	74	65	66.66	75	58	66.50	S. 1, S. 2		S. 1, S. 2	S. 1			4	0	0				

*Min:*

*Max:*

*5.30 p.m. 9 p.m. 0.12* Gentle rain in the evening  
*at night 0.26* Moderate rain at intervals during night & next morning  
*5 a.m. 1.04* Drizzling rain during day & night, not measurable  
*Drizzling rain in the morning, not measurable*

*Division 16*

*Mean of Winds*

*Monthly Mean 46.51 63.07 53.25 54.42 64.19 42 56 53.37*

5-25 4-62 3-62 *1.52*

N.		N.E.		E.		S.E.		S.		S.W.		W.		N.W.	
No.	Force.	No.	Force.	No.	Force.	No.	Force.	No.	Force.	No.	Force.	No.	Force.	No.	Force.
3	3	3	3			3	5	16	22	7	14	5	12	11	11
Average cloudiness, } <i>4.50</i>		No. of days of rain and hail, } <i>4</i>		No. of days of snow, } <i>0</i>											

*Max: 77°*  
*Min: 21°*  
*Range = 56°*

*C. S. White*

# METEOROLOGICAL REGISTER.

Station *Columbus Barracks, Ohio*      Lat. *39° 57' N.*      Long. *6° W.*      Alt. of Bar. above Sea, about *900* feet.

1876. Month.	THERMOMETER.					SELF-REGISTERING THERMOMETER.			MOVEMENTS OF ATMOSPHERE.						AMOUNT OF CLOUDINESS.			RAIN AND MELTED SNOW.			REMARKS.
									7 A. M.		2 P. M.		9 A. M.		7 A. M.	2 P. M.	9 P. M.	Began.	Ended.	Quantity.	
	WINDS. D. F.	Motion of clouds.	WINDS. D. F.	Motion of clouds.	WINDS. D. F.	Motion of clouds.	Max.	Min.	Mean.												
1	67	74	66	69.00	75	64	69.50	S	1	S	1	S	1	0	0	0	11 a.m.	2 p.m.	Gentle rain at intervals not measurable.		
2	62	68	56	57.00	64	46	55.00	S	1	S.W.	1	S.W.	1	4	6	5					
3	64	58	50	49.00	54	40	47.00	S.W.	2	S.W.	1	S.W.	1	6	5	5					
4	40	66	60	53.33	63	38	53.00	N.E.	1	N.E.	1	N.E.	1	3	4	4					
5	42	60	57	54.33	66	40	53.00	N.E.	1	N.E.	1	N.E.	1	3	1	0	12 a.m.	3 p.m.	Moderate rain at intervals.		
6	44	58	46	49.33	60	42	51.00	N.E.	2	N.E.	2	N.W.	2	10	7	3	7 p.m.	9 p.m.	Drizzling rain, not measurable.		
7	58	54	48	45.66	60	34	44.00	N.W.	2	N.W.	1	N.	1	6	5	5	7 p.m.	10 a.m.	Snow in the morning, not measurable.		
8	40	40	38	39.33	41	36	38.50	N.W.	2	N.W.	1	N.	1	6	3	1					
9	38	40	32	36.66	40	34	37.00	N.	1	N.	1	N.W.	1	9	3	1					
10	25	40	31	32.00	41	25	33.00	N.W.	2	N.W.	1	N.	1	1	4	6					
11	28	52	36	39.33	58	28	41.50	N.	1	N.	1	N.W.	1	2	4	1					
12	29	46	35	36.00	66	27	41.50	N.E.	1	S.	1	S.	1	0	0	0					
13	24	45	38	35.66	69	22	40.50	W.	1	W.	1	W.	1	0	2	0					
14	55	53	43	50.33	55	43	49.00	N.E.	2	N.E.	1	N.W.	1	10	9	10	1 a.m.	0.24	Rain at intervals during day & night.		
15	36	44	38	39.33	44	38	39.50	N.W.	2	N.W.	1	N.W.	1	9	8	7	5 a.m.	0.32			
16	36	41	38	38.33	41	35	38.00	N.E.	1	N.E.	1	N.E.	1	9	9	6					
17	38	46	37	40.33	46	36	41.00	N.E.	1	N.E.	1	N.E.	1	4	9	6	1 p.m.		Drizzling rain at intervals.		
18	40	49	41	43.33	49	38	43.50	N.E.	1	N.E.	1	N.E.	1	5	8	7	9 p.m.	0.06			
19	41	54	48	47.66	54	39	46.50	N.E.	1	N.E.	1	N.E.	1	8	8	6					
20	43	46	42	43.66	46	41	43.00	N.	2	N.	1	N.W.	1	10	7	6					
21	44	46	40	43.33	46	40	43.00	N.E.	1	N.E.	1	N.W.	1	9	7	6					
22	36	36	32	34.66	39	32	35.50	W.	2	W.	2	W.	2	7	7	5	7 a.m.	4 p.m.	Snow at intervals, not measurable.		
23	30	35	28	32.00	35	25	30.00	W.	2	W.	2	W.	2	1	5	3	1 p.m.	4 p.m.	Snow at intervals, not measurable.		
24	22	36	32	30.00	36	18	27.00	N.W.	1	N.W.	1	N.W.	1	3	7	5	3 p.m.	at night	0.20		
25	36	38	34	36.00	33	32	35.00	W.	1	W.	2	W.	1	5	6	4					
26	32	36	32	32.33	36	32	34.00	N.W.	1	N.W.	1	N.W.	1	10	5	4					
27	31	39	25	31.66	40	25	32.50	N.W.	1	N.W.	1	N.W.	1	3	1	1					
28	23	38	25	27.66	36	22	29.00	N.	1	N.	1	N.	1	1	1	1					
29	17	28	32	25.66	32	15	23.50	N.	1	N.	1	N.	1	6	7	1	8 a.m.	4 p.m.	Snow at intervals, not measurable.		
30	17	32	33	24.00	32	15	24.50	N.	1	N.	2	N.	2	109	156	113					
													5.30	5.20	5.83				1.29		

Monthly Means: 37.60 47.80 40.20 44.97 45.60 34.33 41.96

N. 13		N.E. 16		E. 1		S.E. 3		S. 1		S.W. 4		W. 10		N.W. 31	
No.	Force	No.	Force	No.	Force	No.	Force	No.	Force	No.	Force	No.	Force	No.	Force
15	17	17	17	2	2	3	1	6	1	11	5	12	17	31	44
Average cloudiness: } 4.27		No. of days of rain and hail: } 6				No. of days of snow: } 1									

Max 85  
Min 15  
Range = 60

C. B. White

Surgeon U. S. Army.

# METEOROLOGICAL REGISTER.

Station *Columbia Barrack* *Chi* Lat. *39° 57' N.* Long. *6° 21' W.* Alt. of Bar. above Sea. *about 900* feet. 210 134

1876 Month.	THERMOMETER.				SELF-REGISTERING THERMOMETER.			MOVEMENTS OF ATMOSPHERE.						AMOUNT OF CLOUDINESS.			RAIN AND MELTED SNOW.			REMARKS.		
	7 A. M.	2 P. M.	9 P. M.	Daily mean.	Max.	Min.	Mean.	7 A. M.		2 P. M.		9 A. M.		7 A. M.	2 P. M.	9 P. M.	Begin.	Ended.	Quantity.			
								WINDS. D. F.	Motion of clouds.	WINDS. D. F.	Motion of clouds.	WINDS. D. F.	Motion of clouds.									
<i>December</i>																						
1	13	13	14	13.33	23	13	15.00	N	2 N	N	2 N	N	2 N	10	9	0	11 A.M.	6 P.M.	0.70	<i>Snow during the day</i>		
2	17	23	20	20.00	23	16	17.50	N	2 N	N	2 N	N	1 1/2 N	10	10	9						
3	16	25	21	23.16	30	17	23.50	N	2 N	N	1 1/2 N	N	1 1/2 N	10	1	1						
4	21	24	22	22.33	23	4	16.00	N	1 N	N	1 N	N	1 1/2	6	10	0						
5	4	32	22	19.55	32	4	15.00	N	1 1/2 N	N	2 N	N	1 1/2	5	2	0						
6	14	35	28	27.33	34	12	20.50	S	2 N	SW	2 N	N	1 1/2	2	9	0						
7	23	36	27	27.33	36	23	27.50	N	2 N	N	2 N	N	1 1/2	5	2	3						
8	27	34	6	23.33	36	-10	13.11	N	2 N	N	2 N	N	3 N	10	6	6				<i>Snow in the evening not measurable</i>		
9	-4	-3	-8	-6.66	0	-10	-5.00	N	2 N	N	2 N	N	2 1/2	2	2	0						
10	-1	11	12	7.33	20	10	15.00	SE	2 N	E	2 E	S	2 S	5	10	10	2 P.M.	6 P.M.	0.20	<i>Snow in the evening</i>		
11	15	35	33	25.00	36	15	27.00	S	2 N	S	2 N	N	1 N	7	10	10	3 P.M.	10 P.M.	0.55	<i>Snow in the evening</i>		
12	34	41	38	37.66	43	33	35.00	N	1 N	S	1 1/2 N	SE	2 1/2	10	2	0						
13	40	49	36	41.66	50	30	40.00	S	1 1/2	N	2 N	N	1 1/2	2	9	0						
14	40	41	25	35.00	50	6	25.11	N	1 N	N	2 1/2 N	N	3 1/2	9	4	0						
15	6	25	22	17.66	28	5	16.50	SW	2 1/2 N	S	2 1/2 N	S	2 1/2 N	1	2	6						
16	5	9	4	6.00	11	3	7.00	N	3 N	N	2 N	N	1 1/2	1	2	0						
17	8	23	18	17.00	30	3	16.50	E	2 N	E	1 1/2	N	1 N	5	4	1				<i>Snow during the night not measurable</i>		
18	10	20	10	13.33	20	6	13.00	N	2 1/2	N	1 N	N	1 1/2	9	2	0						
19	6	25	10	13.66	25	6	15.50	S	1 1/2 N	N	1 1/2	N	1 1/2	3	2	0						
20	6	25	23	18.00	26	6	16.00	E	1 E	E	1 E	N	2 N	3	9	10				<i>Snow during the night not measurable</i>		
21	23	40	26	29.66	40	20	30.00	S	1 1/2 N	SW	2 N	N	1 1/2	3	1	6						
22	26	36	27	29.66	36	10	23.00	N	1 1/2 N	N	2 N	N	2 1/2 N	10	3	10	7 P.M.	10 P.M.		<i>Snow in the evening not measurable</i>		
23	10	23	15	17.00	24	10	17.00	N	1 1/2	N	2 N	N	1 1/2	1	2	0						
24	15	25	10	16.66	26	10	15.00	E	2 E	SE	2 SE	E	2 E	10	10	10				<i>Snow during the night not measurable</i>		
25	18	24	20	20.66	24	18	21.00	N	2 N	N	2 1/2	N	2 N	10	10	10						
26	21	24	24	23.00	25	16	20.50	N	2 1/2	N	2 1/2	N	2 1/2	10	10	10						
27	16	17	19	18.00	20	16	18.11	N	1 N	N	2 N	N	1 1/2	10	10	10						
28	19	24	24	22.33	24	19	21.50	E	2 E	N	2 N	N	1 N	10	10	5	6 P.M.	-		<i>Snow during the night and all day</i>		
29	20	25	23	22.66	25	14	19.50	SE	2 N	SE	2 N	SW	2 1/2 N	10	10	9	-	9 P.M.	0.35			
30	15	25	17	19.00	25	-5	11.00	N	1 N	N	2 N	N	2 N	9	7	9						
31	-4	17	7	6.66	18	5	11.50	N	1 N	SE	2 N	N	2 N	10	1	10						
													6.87	5.27	4.77				2.16			

### SUMMARIES OF WINDS AND WEATHER.

N. 4		N. E. 2		E. 6		S. E. 7		S. 2		S. W. 9		W. 52		N. W. 7	
No.	Force	No.	Force	No.	Force	No.	Force	No.	Force	No.	Force	No.	Force	No.	Force
1	2			8				4	0	14	3	4	57	15	4
No. of days of rain and hail, {		5		22		0		0		0		0		45	

*Max 50*  
*Min -10*  
*Range 60*

*C. B. White*  
Surgeon U. S. Army.