



# METEOROLOGICAL REGISTER.

Station *Columbo Barracks Ohio* Lat.  $39^{\circ}57'N$

Long.  $60^{\circ}W$

Alt. of Bar. above Sea. about  $900$  feet.

210 119

1878 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.	Began.	Ended.	Quantity.				
								WINDS.	Motion of clouds.	WINDS.	Motion of clouds.	WINDS.	Motion of clouds.								D.	F.	D.
1	25	34	27	28.25	34	23	28.50	N	2	N	2	N	1	10	6	10							
2	25	35	26	28	35	24	29.50	N	2	N	2	N	2	10	10	10							
3	20	30	11	18	30	20	25	N	2	SE	2	SW	1	9	0	0							
4	-3	30	15	14.25	30	-3	13.50	N	2	SE	1	N	1	0	0	0							
5	-1	37	25	21.50	37	-3	17	N	1	S	1	SE	1	5	0	0							
6	15	46	35	31.75	46	-1	22.50	N	1	SE	1	SE	1	2	0	0							
7	20	51	40	37.75	51	14	32.50	N	1	SE	1	SE	1	1	7	10							
8	41	46	36	37.75	46	19	32.52	N	2	SE	1	SE	1	10	10	10							
9	34	38	35	35.50	38	34	36	N	1	SE	2	SW	1	10	10	10							
10	20	32	17	21.50	32	20	26	N	2	N	2	N	2	10	10	10							
11	15	28	20	20.75	28	15	21.50	N	2	N	2	N	1	10	10	2	6 A. 9 P. 10	60	Rain during the night.	06	Snow at intervals about 7/8 in.		
12	23	39	36	33.50	39	15	27	SE	2	SE	2	SE	2	2	7	10							
13	34	42	35	36.50	42	23	32.50	SW	2	SW	2	SW	2	9	10	9							
14	32	44	37	37.50	44	30	37	N	2	N	2	N	1	10	9	9							
15	32	44	31	37.50	44	31	37.50	N	1	N	2	N	1	10	4	7							
16	32	46	41	40	46	29	37.50	S	2	SE	2	SW	1	10	4	7							
17	39	47	37	40	47	32	39.50	SE	2	S	2	SE	2	10	9	10							
18	28	31	25	27.75	34	28	31	N	2	N	2	N	1	9	7	0							
19	20	44	39	35	42	19	30.50	N	1	S	2	N	1	1	2	10							
20	45	57	48	49.50	51	20	35.50	S	2	S	2	SE	1	8	10	10	5.30 P.M.						
21	49	58	54	53.75	58	44	51	E	2	E	2	SE	1	10	10	0	10 A.M. 1.25				Rain at intervals		
22	52	48	41	45.50	52	47	47.50	S	1	N	2	N	2	10	10	10							
23	37	38	35	36.75	38	37	37.50	SE	2	N	2	N	1	10	10	10							
24	33	41	38	37.50	41	33	37	E	1	N	1	N	2	8	9	7					34	Rain during the night.	
25	33	37	31	33	37	33	35	N	2	N	2	N	2	10	10	7							
26	25	40	32	32.50	40	24	32	N	1	N	1	N	2	0	0	0						06	Some snow in the night about 3/8 in.
27	25	50	37	37.25	50	24	37	N	1	N	2	N	1	1	0	1							
28	27	55	41	41	55	25	40	E	1	N	1	SW	1	0	0	0							

Main.

Max.

Means

7.8  
27.2  
41.6  
43.3  
33.0  
34.4  
41.6  
7.2  
32.3  
32.2

6.67 6.14 5.57

1.31 inches

### SUMMARIES OF WINDS AND WEATHER.

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
24	3	6	4	5	4	10	4	8	4	12	4	17	4	2	4
Average cloudiness, } 6.13 ✓		No. of days of rain, } 4 ✓				No. of days of snow, } 2 ✓									

Max. 58°  
Min. -3°  
Range = 61°

C. B. White

691 ✓

# METEOROLOGICAL REGISTER.

Station *Columbus Barracks Ohio* Lat.  $39^{\circ} 57' N$ .

Long.  $60^{\circ} W$ .

Alt. of Bar. above Sea  $9$  Barometer feet. 121

1st S. 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.	Began.	Ended.	Quantity.		
								WINDS. D. F.	Motion of clouds.	WINDS. D. F.	Motion of clouds.	WINDS. D. F.	Motion of clouds.								
Apr																					
1	27	63	44	44.6	63	25	47.00	SE 1		SE 1		W 1		2	0	0					
2	50	59	51	53.33	59	28	43.55	SW 1		SE 2		SW 1		10	0	0					
3	45	44	38	42.33	45	45	45.00	W 2		W 3		W 1		0	10	10				Commenced raining in the night rained at intervals ceased in the night A little snow none to measure	
4	32	35	31	32.66	35	52	33.55	W 3		W 2		SW 1		10	10	0					
5	29	53	45	42.33	53	28	40.55	S 1		S 2		W 1		3	2	0					
6	42	57	46	48.33	57	29	43.00	S 2		SW 2		SW 3		3	10	10					
7	51	66	47	54.66	66	41	53.55	SW 2		SW 2		SW 1		6	0	0					
8	41	73	58	57.33	73	36	54.55	W 1		E 1		E 1		7	3	1					
9	51	75	64	63.33	75	41	58.00	E 1		E 1		SE 1		2	0	1					
10	55	71	60	62.00	76	51	63.50	E 1		E 2		SE 4		9	8	10					
11	50	76	54	60.00	76	49	62.50	SE 2		SE 2		SE 2		10	7	3				5/10 pm night .33	
12	52	68	42	54.00	68	41	54.50	NE 1		NE 1		NE 2		7	10	10				1/10 pm night 1.90	
13	48	54	47	48.66	59	40	49.50	SW 1		SW 1		SW 1		10	9	6					
14	41	46	43	43.33	46	39	42.50	SW 2		SW 2		W 1		3	10	10					
15	40	54	46	46.66	54	38	46.00	W 2		E 3		E 1		7	5	0					
16	41	50	45	45.33	50	40	45.00	W 2		W 3		W 2		10	3	7					
17	42	48	44	44.66	48	37	42.50	W 2		W 2		SW 2		10	9	10					
18	38	42	37	39.66	42	29	35.50	W 2		W 2		Calcu		10	3	0					
19	32	61	52	48.33	61	33	47.00	W 2		W 2		W 1		7	10	10					
20	37	68	44	49.66	68	30	49.00	SW 2		SW 2		N 2		3	0	0					
21	36	56	43	45.00	56	33	44.50	N 2		W 2		N 2		7	10	3					
22	37	59	45	47.00	59	32	45.50	N 1		N 2		W 2		10	0	0					
23	38	65	56	53.00	65	33	49.00	W 2		W 2		W 2		3	3	0					
24	37	30	24	31.00	39	17	28.00	W 2		SE 2		NE 2		10	10	10				2.0 Heavy shower during night	
25	20	37	26	29.33	37	20	28.50	W 2		N 2		NE 2		3	5	0					
26	26	42	37	31.66	42	35	33.50	N 2		W 2		W 2		7	7	0					
27	50	59	57	55.33	59	43	51.00	W 2		W 2		W 2		10	10	10					
28	56	58	39	50.66	58	32	45.00	W 2		W 2		W 2		10	7	10					
29	35	50	42	42.33	50	33	41.50	W 2		W 2		SW 2		0	4	0					
30	37	49	51	46.33	51	33	42.00	W 2		W 2		W 2		10	10	10					
31	46	40	44	43.33	46	38	42.00	W 2		W 2		W 2		10	10	10					
Month, Mean	44.74	55.10	45.29	47.04	(55.83)	34.87	45.35							7.06	5.96	4.54				2.48 Total rain fall	

Max.

Min.

Month, Mean

### SUMMARIES OF WINDS AND WEATHER.

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.
9	48	6	46	8	44	8	47	4	47	12	37	7	40	8	46
Average cloudiness, } 4.88		No. of days of rain and hail, } 5		No. of days of snow, } 1											

Columbus Ohio.

Max.  $76^{\circ}$   
Min.  $17^{\circ}$   
Range =  $59^{\circ}$

C. D. White

Surgeon U. S. Army.  
Det. Am. Gen. Serv.

# METEOROLOGICAL REGISTER.

Station *Columbus Barracks, Ohio*

Lat. *39° 57' N*

Long. *60° West*

Alt. of Bar. above Sea. *16. Bar. Height.*

1874 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.	mean Min.	Wind.	7 A. M.		2 P. M.		9 A. M.		7 A. M.	2 P. M.	9 P. M.	Began.	Ended.	Quantity.	
								WINDS.	Motion of clouds.	WINDS.	Motion of clouds.	WINDS.	Motion of clouds.							
								D. F.		D. F.		D. F.								
Apr																				
1	11	55	116	2733	53	4700	39	N	1	N	2	N	1	10	7	0				
2	13	66	60	3633	66	5200	38	N	1	N	2	N	2	10	3	10				
3	16	60	36	5400	60	5700	42	N	2	N	2	N	2	6	9	9				
4	19	66	61	5866	66	5053	35	N	2	N	2	N	2	3	0	0				
5	36	58	31	11333	58	4600	34	N	2	N	2	N	2	0	9	9				
6	12	63	113	19333	63	4700	31	N	2	N	2	N	2	0	9	9				
7	42	61	37	5333	61	5550	30	N	2	N	2	N	2	7	0	0				
8	110	68	61	5366	66	5353	40	N	2	N	2	N	2	0	0	0	Height			
9	58	72	68	6600	72	6353	35	N	2	S	2	SE	2	7	10	10	9 am		.32	
10	60	70	54	6133	70	5753	40	S	2	S	2	N	2	3	0	0				
11	48	50	56	5433	59	5753	41	S	2	N	2	N	2	0	3	7				
12	54	68	61	6000	65	5753	44	N	2	N	2	N	2	0	3	9				
13	55	62	60	5900	62	5453	47	N	2	N	2	N	1	3	4	5				
14	50	63	58	5700	63	5353	48	N	2	N	2	N	1	7	6	10				
15	50	61	56	5566	61	5000	39	N	2	N	2	N	2	10	7	3				
16	50	69	57	5900	69	5353	38	S	2	N	2	N	2	2	0	0				
17	51	70	61	6466	70	6000	50	N	2	S	2	N	2	0	0	3				
18	55	71	60	6200	71	6300	55	N	2	S	2	S	2	0	0	4				
19	66	68	62	6533	68	6153	55	N	2	N	2	N	2	3	0	4				
20	61	70	68	6633	70	6000	50	N	2	N	2	N	2	7	3	1				
21	54	71	60	6266	71	6453	55	S	2	N	2	N	2	0	0	0				
22	63	68	63	6466	68	6300	58	N	2	N	2	S	2	3	7	10	4 pm			
23	68	58	63	6266	78	6953	61	N	2	N	2	N	2	3	9	10	4 pm			
24	66	68	51	6300	68	4053	53	N	2	N	2	N	2	10	10	0				
25	64	61	50	5833	61	5353	40	N	2	N	2	N	2	0	10	2	1 pm			
26	50	64	56	5866	61	5653	49	N	2	N	2	SE	1	10	7	9				
27	56	61	58	5833	61	5400	47	Calms		SE	1	N	1	6	10	10				
28	52	58	55	5300	58	5500	52	Calms		N	3	N	1	8	10	10				
29	54	59	56	5633	59	4953	40	N	2	N	2	N	1	11	10	7				
30	56	68	58	6066	68	5350	39	N	1	N	0	N	0	7	6					
31	67	57	58	5753	67	4527	45													
Mean	64.83			58.55		55.27								4.50	4.76	4.73				

*Mean*

*Temp.*

*Monthly Mean.*

*Heavy Rain. Lightning and Thunder.*

*1 pm 4 pm*

*Total rain fall*

### SUMMARIES OF WINDS AND WEATHER.

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.
4	2.75	2	1.00			3	1.33	13	2.15	15	2.20	1	1.93	3	1.33
Average cloudiness, } <i>4.68</i>		No. of days of rain and hail, } <i>4</i>				No. of days of snow, } <i>—</i>									

*Mean 3 lbs*

*Max. 98°  
Min. - 30°  
Range = 48°*

*61.83  
45.27  
15.56*

*C. B. White  
Major &*

*Surgeon U. S. Army  
Dept Surgeons*

*364*

# METEOROLOGICAL REGISTER.

Station *Chambers Barracks* Lat. *39° 57' N* Long. *60° 1'* Alt. of Bar. above Sea. 210 124  
feet.

187 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 P. 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>May</i>																					
1	56	78	68	66.6	78	44	60.0	Calms	SE 3	SE 2			5	4	4						
2	64	85	72	72.0	80	39	61.0	SE 1	S 4	S 3			0	10	5						
3	66	60	57	61.3	66	40	53.0	N 1	SE 1	Calms			3	15	2						
4	52	60	54	53.1	60	38	49.0	N 1	N 2	N 1			10	7	5						
5	47	44	52	52.6	64	40	47.0	Calms	N 3	Calms			6	4	7						
6	57	62	60	57.3	68	57	52.5	S 1	Calms	Calms			7	10	5					<i>Strongly rain quantity not meas.</i>	
7	64	59	64	61.6	78	58	67.0	SE 1	SE 4	Calms			8	10	8					<i>5.30 am 6 pm 20°</i>	
8	62	68	60	63.3	68	47	57.5	S 1	SE 2	N 1			10	10	10					<i>1.50 Heavy rain during the night</i>	
9	54	65	52	53.6	65	41	53.0	Calms	N 3	N 1			0	5	10					<i>Clear first during the night</i>	
10	45	56	42	47.0	56	37	46.5	N 1	SE 4	S 1			10	10	8						
11	46	56	48	50.0	56	41	48.0	N 1	Calms	Calms			7	9	10						
12	44	52	46	47.3	52	32	42.0	Calms	Calms	Calms			10	10	5					<i>Clear first during the night</i>	
13	44	58	50	50.4	57	43	50.5	N 1	Calms	Calms			0	10	10						
14	57	58	50	52.6	57	35	46.5	NE 1	NE 1	N 1			4	3	10						
15	40	58	58	51.3	58	38	48.0	NE 1	N 1	NE 1			0	10	10						
16	46	56	46	49.3	56	44	50.0	Calms	Calms	Calms			10	10	10						
17	48	64	52	54.6	64	46	55.0	NE 1	NE 1	Calms			10	10	10						
18	56	74	64	64.0	74	52	63.0	NE 1	NE 1	Calms			10	5	10						
19	64	72	68	67.0	72	62	67.0	E 1	E 1	N 3			10	10	10						
20	68	74	68	72.3	74	50	67.0	E 1	SE 3	E 1			10	7	0					<i>Light rain during the day</i>	
21	62	76	65	65.3	76	44	60.0	N 1	NE 1	Calms			0	1	0						
22	54	72	59	61.6	72	47	57.5	NE 1	N 1	Calms			3	7	10						
23	56	70	68	66.6	70	54	62.0	Calms	N 1	Calms			11	10	10						
24	76	72	70	76.0	82	69	78.0	N 1	NE 1	Calms			10	0	0						
25	66	78	68	71.3	80	56	66.5	Calms	E 2	Calms			2	0	10						
26	66	76	68	70.6	78	46	62.0	N 1	N 2	N 1			3	1	3						
27	59	76	60	65.0	76	49	62.5	NE 1	N 1	Calms			0	5	5						
28	60	74	58	64.0	74	45	59.0	N 1	N 1	N 1			9	4	10						
29	60	82	74	72.0	82	55	65.0	N 1	Calms	N 1			11	10	10					<i>Light rain during the morning</i>	
30	56	66	54	56.6	66	42	54.0	N 1	N 1	Calms			11	10	0						
31	54	76	64	62.6	76	48	62.0	NE 1	Calms	N 1			7	0	0						
<i>Means:</i>													5.80	7.03	6.77	✓	3.54	<i>Total Rain fall.</i>			

*Mean:* 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 25, 26, 27, 28, 29, 30, 31

*Means:* 20, 21, 22, 23, 24, 25, 26, 27, 28, 29, 30, 31

*Means:* 30, 31

SUMMARIES OF WINDS AND WEATHER.

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.
9	1.00	9	1.00	2	1.00	-	-	11	1.00	10	3.00	1	1.38	7	1.00
Average cloudiness, } <b>6.53</b>		No. of days of rain and hail, } <b>5</b>				No. of days of snow, } <b>None</b>				<i>Column 31 added.</i> <i>Mean, 84°</i> <i>Min, 32°</i> <i>Range = 52°</i>					
Average cloudiness, } <b>6.53</b>		No. of days of rain and hail, } <b>5</b>				No. of days of snow, } <b>None</b>									

✓  
*H. J. Steigus*  
 D. A. Surgeon U. S. Army,  
 Acty Post Surgeon

# METEOROLOGICAL REGISTER.

210 126

Station *Abasco Barro Colorado*, Lat. *3° 47' N*, Long. *60° 1'*

Alt. of Bar. above Sea, *11,000 feet.*

157 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.	Began.	Ended.	Quantity.	
								WINDS. D. F.	Motion of clouds.	WINDS. D. F.	Motion of clouds.	WINDS. D. F.	Motion of clouds.							
1	64	72	64	70.0	82	54	69.0	SE 1		NE 1		SE 1		1	0	0				
2	68	86	74	76.0	86	62	72.0	SE 1		SE 2		SE 1		0	0	2				
3	74	86	74	78.0	86	61	73.5	S 1		S 1		S 1		1	0	4				
4	72	80	64	72.0	80	47	63.5	SE 1		SE 1		SE 1		8	9	10				
5	58	72	56	62.33	72	42	57.0	SE 1		SW 1		SE 1		5	3	0				
6	56	74	58	62.67	74	43	57.5	SE 1		SE 1		SE 1		0	8	0				
7	60	76	62	66.00	76	56	66.00	SE 1		SE 1		SE 1		0	10	10	8 pm		.56	
8	58	64	54	58.66	64	43	53.8	SE 1		S 1		SE 1		10	10	10			Rain during the night	
9	58	63	56	59.00	63	50	56.5	SE 1		SE 2		SE 2		10	10	10	8 pm		1.34	
10	53	70	54	59.00	70	44	55.5	SE 1		SE 2		SE 2		10	5	8		4 pm	.58	
11	56	72	56	62.33	72	43	57.5	SW 1		SW 1		SE 1		3	2	0				
12	58	70	54	60.66	70	42	56.00	SE 1		SE 2		SE 1		0	4	2				
13	60	76	62	66.00	76	50	62.00	SE 1		SE 1		SE 1		0	2	0				
14	62	82	64	68.33	82	53	67.5	SE 1		NE 1		SE 1		8	2	3				
15	70	74	70	71.33	74	63	65.5	SE 1		SE 2		SE 1		8	10	4			Light rain during the day	
16	70	80	68	72.66	80	60	70.00	SE 1		SE 1		SE 1		10	10	10	Apr 10 noon		1.20	
17	66	70	62	66.00	70	56	63.00	SE 1		SE 1		SE 1		10	10	10			Rain at intervals during the day	
18	60	80	62	66.66	80	47	63.5	SE 1		SE 1		SE 1		10	4	0			" " " "	
19	66	70	60	66.00	70	52	66.00	SE 1		SE 1		SE 1		0	0	0			" " " "	
20	64	78	68	70.00	78	54	66.00	SE 1		SE 3		SE 3		8	10	10				
21	66	62	56	61.33	66	50	58.00	SE 1		SW 2		SW 2		10	10	10			Light rain during the day	
22	52	60	54	55.33	60	51	55.5	SE 2		SE 1		SE 1		10	10	10			" " " " night	
23	56	64	60	60.00	64	53	57.5	SE 1		SW 1		SW 1		10	10	6			" " " " day	
24	62	72	64	66.00	72	55	63.5	SE 1		SE 1		SE 1		8	4	0			" " " " night	
25	66	86	72	74.66	86	60	73.00	SE 1		SE 1		SE 1		0	0	0				
26	72	88	76	78.66	88	66	77.00	SE 1		SW 3		SE 1		0	7	5				
27	74	76	72	74.00	76	64	76.00	SE 1		SE 2		SE 1		4	10	3				
28	74	74	76	74.33	74	67	74.33	SE 1		SE 1		SE 1		11	7	0				
29	78	96	78	84.00	96	67	78.5	SE 1		SE 2		SE 1		0	10	4				
30	76	94	72	81.33	94	63	76.5	SE 1		SE 1		SE 1		3	10	3				
76.00														181	150	151				
64.30														5.03	6.33	4.47				

Rain during the night  
 Light rain during the day  
 Rain at intervals during the day  
 " " " "  
 " " " "  
 Light rain during the day  
 " " " " night  
 " " " " day  
 " " " " night

3.72 Total rain fall.

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
15	2	2	2	2	3	5	6	10	7	21	26	3	3		
Average } cloudiness } <i>5.50</i>		No. of days of } rain monthly } <i>11</i>				No. of days of } snow } <i>0</i>									

Max. 96  
 Min. 42  
 Range 54  
 Prev. 1/2

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