Ohio

METEOROLOGICAL JOURNAL.

Station Columbus. Month January. 1851. Latitude 39° 57' north. Longitude 6° west from Washington. Alt. of Bar. above feet

1851	Barometer: Sun rise	9 A.M.	3 P.M.	9 P.M.	Thermometer attached to Barometer: Sun rise	9 A.M.	3 P.M.	9 P.M.	Thermometer detached. In the shade and open air.: Sun rise	9 A.M.	3 P.M.	9 P.M.	Daily Mean	Clearness of the Sky: Sun rise	9 A.M.	3 P.M.	9 P.M.	Wind. Its force and course from.: Sun rise	9 A.M.	3 P.M.	9 P.M.	Clouds. Their velocity and course from.: Sun rise	9 A.M.	3 P.M.	9 P.M.	Thermometer Wet Bulb: Sun rise	3 P.M.	Rain: Began	Ended	Quantity	Remarks
																																Thermometer in Order.
1									17.	19.	33.	34.	25.75	10.	10.	8.	5.	SW2.	SW2.	W3.	0.	0.	0.	NW2.	W1.						
2									33.	37.	41.	31.	30.5	8.	9.	9.	10.	S1.	ASW.	SW1.	0	W1.	W1.	SW1.	0.						
3									30.	31.	33.	32.	31.5	2.	2.	8.	1.	NW1.	SW2.	NW2.	W3.	W1.	W2.	W2.	W1.						
4									31.	33.	35.	27.	30.25	5.	5.	8.	10	W3.	SW3.	SW3.	0.	W1.	W2.	NW2.	0						
5									27.	32.	40.	37.	34.5	7.	5.	9.	8.	SW2.	NW2.	SW1.	W1.	W1.	W1.	W1.	NW1.						
6									32.	40.	51.	36.	39.75	6.	9.	8.	9.	S1.	SW.	NW.	W1.	W1.	W1.	W1.	W1.						
7									35.	37.	41.	33.	36.5	2.	3.	5.	5.	NW1.	NW.	W2.	S1.	NW2.	NW2.	W1.	W1.						
8									32.	36.	46.	42.	39.75	5.	7.	3.	4.	W1.	W2.	SW.	S1.	W1.	W1.	SW3.	W3.						
9									51.	54.	58.	44.	51.75	2.	3.	8.	6.	S2.	SW.	SW3.	SW3.	SW4.	SW4.	SW2.	W1.						Slight Rain early this morning.
10									38.	37.	34.	33.	35.5	4.	3.	2.	3.	W4.	SW3.	SW2.	W2.	W1.	W1.	W1.	W2.						
11									31.	38.	39.	36.	36.75	3.	4.	7.	8.	SW2.	SW2.	SW3.	W1.	SW2.	SW2.	SW1.	W1.						
12									38.	38.	42.	34.	38.	5.	5.	8.	9.	W2.	SW2.	W3.	W2.	NW1.	W1.	W1.	NW1.						
13									33.	37.	38.	28.	34.	8.	6.	8.	10.	SW2.	SW2.	NW2.	W1.	W1.	W1.	W1	0.						
14									31.	38.	54.	50.	43.5	9.	9.	9.	8.	S2.	SW.	SW2.	SW3.	W1.	W1.	W1.	W1.						
15									46.	47.	54.	47.	47.5	4.	5.	6.	9.	SW2.	SW2.	SW2.	SW2.	W1.	W1.	W1.	SW2.						Slight Rain, began 8.0C. P.M.
16									49.	52.	62.	60.	55.75	6.	4.	3.	1.	S2.	SW2.	SW3	W4.	W1.	SW1.	SW3.	W2.						10.34 P.M. Therm 31. Wind NW 5. Slight fall of frozen rain drops.
17									20.	21.	24.	16.	20.25	8.	8.	8.	10.	W4.	SW4.	SW4.	NW3.	W1.	W1.	SW3.	0.						
18									8.	9.	18.	12.	11.75	9.	9.	10.	9.	W4.	SW4.	NW4.	W3	W1.	W1.	0.	W1.						
19									12.	16.	29.	32.	24.75	10	9.	9.	8.	S2.	SW3.	S2.	SW.	0.	W1.	W1.	W1.						
20									37.	38.	46.	30.	37.75	0.	0.	5.	10.	SW2.	SW2.	W3.	W2.	W1.	W1.	W1.	0.						
21									23.	24.	52.	40.	35.25	8.	8.	7.	0	S1.	SW.	SW.	SW1.	W1.	W1.	SW1.	—						
22									46.	47.	57.	37.	46.25	0.	1.	5.	9.	SW1.	W2.	SW1.	W2.	W3.	W3.	W1.	W1.						Very Light Rain last night.
23									30.	38.	61.	42.	42.75	8.	8.	10.	8.	SW2.	W2.	SW1.	W3.	SW1.	W1.	0	W1.						
24									31.	38.	62.	38.	42.25	9.	9.	9.	9.	SW2.	SW2.	SW1.	SW2.	NW1.	W2.	W1.	W1.						
25									31.	40.	63.	43.	44.25	8.	9.	9.	9.	SW2.	SW2.	SW1.	SW2.	W2.	NW1.	W1.	W1.						
26									36.	42.	69.	46.	48.25	10.	10.	9.	8.	SW1.	W.	SW2.	SW1.	0.	0.	W1.	W1.						
27									33.	38.	52.	40.	40.75	0.	5.	3.	0.	NE3.	NE3.	E3.	E3.	—	NE2.	NW1.	NW1.						Shower at 6. P.M.
28									40.	44.	52.	38.	43.5	3.	2.	0.	0.	S2.	SW2.	SW3.	NW5.	SW2.	SW2.	SW1.	W2.						Diggling Rain, began 8.A.M. Continued all day.
29									14.	16.	22.	14.	16.5	0.	2.	2.	9.	NW4.	NW4.	NW4.	NW4.	NW2.	NW2.	NW2.	NW2.						Sprinkle of Snow at 2.20 P.M.
30									2.	6.	9.	5.	5.5	8.	8.	9.	9.	NW4.	NW4.	NW4.	NW3.	NW1.	NW2.	NW2.	NW2.						
31									—1.	16.	28.	11.	11.	9.	9.	9.	10.	0.	SW2.	SW2.	SW3.	NW1.	W1.	W1.	0.						
									906.	1015.	1342.	1047.	1080.	176.	186.	207.	217.														Send me some Journals immediately.
Monthly Mean									29 3/4.	32. 27/31.	43. 15/31.	33. 25/31	34. 26/31 3/4	5. 5/31.	6.	6 23/31.	7.														

Every person to whom this form may be sent is requested to keep a journal of the winds and weather even if he has no Barometer or Thermometer, and forward it monthly to the 'NAVY DEPARTMENT' Washington, D.C. with the endorsement 'Meteorology' on the corner of the envelope. The wet-bulb observations are made by wetting a thin rag placed around the bulb of the thermometer and fanning it in the shade till it falls as low as it will in the open air. The force of the wind is estimated in numbers. 0 being a calm, 1 a very gentle breeze, 2 a gentle breeze, 3 a fresh breeze, 4 a strong wind, 5 a very strong wind, 6 a violent storm &c. The numbers are put after the course — thus, for example, if the wind is from the S.W. strong it will be set down SW 4. The clouds will be marked in the same way — if for example they have a very gentle motion from the West they will be marked W 1. The clearness of the sky will also be marked in numbers, 0 representing entire cloudiness, 1 a slight degree of clearness and so on till 10 entire clearness. The Dew-point is the highest temperature at which the vapour in the open air will condense on a bright metalic or thin glass tumbler of water cooled down by ice, or pulverized muriate of ammonia and nitrate of potash in equal quantities. The higher the dew point, the more vapor there is in the air.

N.B. The thermometer should be placed in the open air in the shade, and not exposed to any reflected heat, and so of the wet-bulb. The operation of fanning the wet bulb may be omitted when the wind is blowing.

Observers name Thos. J. Wormley.

METEOROLOGICAL JOURNAL.

Station Columbus Ohio Month February 1851. Latitude 39°. 57'. North Longitude 6° West from Washington Alt. of Bar. above ______ feet

1851.	Barometer.				Thermometer attached to Barometer.				Thermometer detached. In the shade and open air.					Clearness of the Sky.				Wind. Its force and course from.				Clouds. Their velocity and course from.				Thermometer. Wet Bulb.		Rain.			Remarks
	Sun rise	9 A.M.	3 P.M.	9 P.M.	Sun rise	9 A.M.	3 P.M.	9 P.M.	Sun rise	9 A.M.	3 P.M.	9 P.M.	Daily Mean	Sun rise	9 A.M.	3 P.M.	9 P.M.	Sun rise	9 A.M.	3 P.M.	9 P.M.	Sun rise	9 A.M.	3 P.M.	9 P.M.	Sun rise	3 P.M.	Began	Ended	Quantity	
1																															
2									7.	24.	34.	36.	25.25	8.	8.	2.	0.	SE2	S2	SE	SW1.	SW1.	SW1	W1.	—						
3									31.	34.	40.	32.	34.25	0	0	0	0.	SE2	S1.	SE	0	—	—	—	—						
4									32.	36.	38.	32.	34.5	0	0	0	0.	NE1	0.	S.	SW	—	—	—	—						Light snow, continued all day.
5									34.	36.	56.	38.	41.	0.	1	5	0.	SW1	SW1.	SW1	SW2.	—	SW1.	SW1	—						
6									34.	38.	52.	44	42.	4.	6.	9.	1	SW1	SW2.	W2.	NW5.	SW1	SW1.	NW2	W1.						
7									34.	38.	40.	28.	35.	5	7	8	10	NW3	NE	NE	—	W2.	NW2	NW2	0						
8									31.	38	64.	32.	41.25	9	9	10	10	S1.	S1.	SW3.	E1.	NW2.	W1.	0	0.						
9									36	37.	64.	34.	41.25	10	9	9	10	NE1.	E1.	SE1.	SE1.	0	W	W1.	0.						
10									52.	52.	54.	54.	53.	1	0	0	0	S	S	SW1	SW1.	W1.	W1.	SW3.	—						
11									53.	57.	65.	40.	53.75	1	1	7	0	SSW1.	SE1.	SW2	NW3.	SSW1.	SSW1	SW2	W1.						Thunder about 3 OC AM. with rain, rained all day.
12									30.	31.	29.	27.	29.25	2	1	2	2	NW3.	NW2.	NW2	W1.	NW1	NW1.	NW1.	W1.						Rained at intervals during the day.
13									22.	30.	42.	32.	31.5	9	10	9	8	SW1.	S1.	S1.	S1.	W1.	0	W	W1.						~~[illegible] 1 OC P.M.~~
14									33.	41.	52.	49.	43.75	8	6	2	0	SE2.	S2.	S2.	S2.	SW1.	SW1.	SW	—						
15									48.	49.	55.	55.	51.75	0	0	2	1	SE2.	SE2.	S1.	S2.	—	—	SW2.	SW1.						
16									57.	60.	38	28	45.75	1	4	6	2	SW2	SW3	W4	NW3.	SW2	SW3.	W2.	NW1.						Interrupted rain till 1 OC PM.
17									21.	20.	28.	24	23.25	4	7	9	10	NW3.	NW3	NW3.	SW3.	NW1	NW1.	NW1.	0						
18									18.	24.	44.	32.	29.5	10	10	7	10	S1.	SSW1	SW2	SW1	0.	0.	W1	0.						
19									28.	38.	58.	30.	38.5	10	10	10	10	W1.	NW1	0.	0.	0.	0.	0.	0						
20									27.	38.	64.	52.	45.25	9	9	9	0	E1.	E1.	SW1.	S	W1.	W1.	SW1	—						
21									50.	56.	54.	53.	53.25	0.	2.	0	0	S1.	S1.	SW1.	SW1.	—	SW1.	SW1	—						Commenced to rain at 10 OC P.M.
22									55.	56.	58.	44.	53.25	0	1	5.	0	S2.	S1.	SW1.	SW3.	S3.	SW1.	SW2	—						Interrupted rain during the day.
23									41.	42.	57.	38.	44.5.	2	2	9	10.	W2.	W1.	SE1.	0	W1	W1	W1	0.						Shower at 8 AM.
24									39.	45.	59.	57.	50.	7.	4.	8	1	0	S	S	SW2.	W1	W1	W1	W1.						
25									56.	61.	49.	41.	51.75	0.	7	8	8	SW	SW1	NW3.	NW1.	—	SW1	NW2	NW1.						
26									32.	40.	67.	47.	46.5	10	10	9	0	0	0	SE1.	SW1.	0.	0	SW1.	—						Violent storm 11 AM. Wind NW6 with rain
27									44	52.	69.	59.	56.	9	8	9	1	SE1.	S1.	SW1.	SW2.	SW1	SW1.	W1	W1.						
28									59.	60.	50.	40.	52.25	0	0	2	0	SW1.	SW1.	NW2.	0.	W1.	W1.	W1.	—						Rain began at 6 PM.
29									36.	38.	32.	26.	33.	0	0.	3	10	NW1.	NW	NW1.	NW2	W1.	NW1.	NW1	0						
30																															
31																															
Monthly									1034.	1171.	1412.	1104.	1180.25	119.	132.	161.	104.														
Mean									36 13/14	41. 23/28	50. 6/14	39 6/14	42.15 42 15/28	4 1/4	4 5/7.	5 3/4	3 5/7														
									.93	.82	.43	.43																			

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Observers name Thos. G. Wormley.

Station Columbus Ohio Month March 1851

METEOROLOGICAL JOURNAL.

Latitude 39° 27' North Longitude 6° West from Washington Alt. of Bar. above feet

1851

	Barometer. Sun rise	9 A.M.	3 P.M.	9 P.M.	Thermometer attached to Barometer. Sun rise	9 A.M.	3 P.M.	9 P.M.	Thermometer detached. In the shade and open air. Sun rise	9 A.M.	3 P.M.	9 P.M.	Daily Mean	Clearness of the Sky. Sun rise	9 A.M.	3 P.M.	9 P.M.	Wind. Its force and course from. Sun rise	9 A.M.	3 P.M.	9 P.M.	Clouds. Their velocity and course from. Sun rise	9 A.M.	3 P.M.	9 P.M.	Thermometer Wet Bulb. Sun rise	3 P.M.	Rain. Began	Ended	Quantity	Remarks
1																															
2									20.	67	41	34	51	10	10	10	6	SW2	SW1	SW2	SW2	0	0	0	W1					
3									30	38	42	30	35	10	10	5	1	SW1	SW4	W2	SW3	0	0	W2	W1					
4									22.	28	35	30	28.75	9	9	9	10	SW3	SW3	W4	SW4	W1	W1	W1	0					
5									37	46	62	46	47	2	8	7	9	SW1	SW1	SW3	SW1	W1	W1	W1	W1					
6									43	54	67	57	55.25	9	10	8	0	S1	SE	SW4	SW6	SW1	0	SW1	—					
7									32	35	36	32	33.25	1	3	2	5	NW2	NW1	NW	NW1	NW1	NW1	W1	W1					
8									32	36	46	38	37.75	4	2	5	0	W1	NE2	NW1	E1	W1	W	W1	—					
9									32	38	44	32	33.75	8	5	3	6	SW1	SW2	SW4	W3	W1	W1	W2	W2					
10									28	34	45	32	37.75	10	10	3	8	SW	SW	SW3	SW3	0	0	W1	W1					
11									32	38	58	39	46.75	7	6	10	10	NW1	NW	SW	SW	NW2	NW1	0	0				Snow Storm at 2 PM.	
12									40	47	63	44	47	10	10	11	10	SW	SW3	SW2	0	0	0	0	0				Storm at 6 PM with Rain.	
13									33	43	70	58	48	10	10	10	10	0	SE	SW	SW	0	0	0	0					
14									32	47	72	57	50.5	10	10	9	10	SW	SW	SW3	SW	0	0	W	0					
15									38	53	78	52	55.25	10	10	10	10	SW	S	SW	SW	0	0	0	0					
16									57	60	57	54	57	0	0	0	0	SW1	SW1	SW1	SW1	—	—	—	—					
17									53	55	62	56	56.5	0	0	0	0	SW1	SW1	SW1	S2	—	—	SW1	E				Shower at 6 AM. Rain at 2 PM. Cumulo Pale Day.	
18									46	46	46	42	45.5	0	0	1	0	SW	W	NW1	NW1	W	W1	NW	—				Lightning & Thunder in West with Rain Shower at 10 PM.	
19									38	39	40	32	37.25	0	0	0	10	NW2	NW2	NW3	N1	NW1	—	NW1	0				Showers during the day	
20									34	36	38	32	35	7	9	5	8	NW2	NW1	NW	NW	NW2	NW2	NW1	NW1				Showers during the day	
21									30	36	52	35	37.75	10	9	8	10	NW	W1	NW2	NW	NW2	0	NW	0					
22									27	39	74	46	47	10	10	9	7	SW	SW	NW1	NE	0	0	W2	—					
23									37	44	46	41	42.75	2	2	1	0	S1	E	E	0	—	—	—	—					
24									41	44	46	37	42.5	0	0	0	0	NW	NW	NW2	NW1	—	—	NW	—					
25									35	46	64	48	48.25	10	10	10	10	NW1	NW1	W1	W	0	0	0	0					
26									38	50	72	58	54	10	10	10	10	0	0	W	W	0	0	0	0					
27									52	66	78	68	66	7	9	9	7	SW	SW2	SW1	SW1	SW	SW	SW SW	—					
28									62	68	68	62	65	6	7	0	0	SW2	SW1	SW1	W1	SW1	SW1	SW1	—					
29									44	47	71	49	52.25	9	9	10	10	NW1	W	W	SW1	W	NW	0	0					
30									45	54	58	60	53.5	8	2	6	5	NE	SE	SW	0	SW1	SW1	SW	—				Rain at 6 PM. Wind SW1. Continued during the evening	
31									60	66	76	62	66	8	6	2	10	SW1	SW2	SW2	SW2	SW1	SW1	SW2	0					
Monthly Mean									60.	57.	78	52.	61.25	1	1	5	10	W1	NW2	NW2	0	W1	NW	NW1	0				Shower at 5 PM. Light Rain at 7 AM.	
									1216.	1617	1779	1386	1468.75																	
									39 15/31	52 1/31	64 23/31	46 23/31	47 3/4	6 16/31	6 11/31	6.	6 6/31														

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Observers name Theo L. Wormley.

Station *Columbus Ohio* Month *April 1851.*

METEOROLOGICAL JOURNAL.

Latitude *39° 57' North* Longitude *6° West from Washington* Alt. of Bar. above ______ feet

1851.	Barometer. Sun rise	9 A.M.	3 P.M.	9 P.M.	Thermometer attached to Barometer. Sun rise	9 A.M.	3 P.M.	9 P.M.	Thermometer detached: In the shade and open air. Sun rise	9 A.M.	3 P.M.	9 P.M.	Daily Mean	Clearness of the Sky. Sun rise	9 A.M.	3 P.M.	9 P.M.	Wind. Its force and course from. Sun rise	9 A.M.	3 P.M.	9 P.M.	Clouds. Their velocity and course from. Sun rise	9 A.M.	3 P.M.	9 P.M.	Thermometer Wet Bulb. Sun rise	3 P.M.	Rain. Began	Ended	Quantity	Remarks
1																															
2									50.	61.	74.	60.	61.25	7.	4	5	0	NE1	NE1.	E1.	SE1.	SW-	SW	SW1	-						
3									60.	66.	68.	50	61.	4	2	6	8	W1	W2	W4	W4	W2	W2	W1	-						
4									44	57.	62.	48.	57.25.	10	10	9	10	W2	W3	W3	W1.	0	0	W1	0						
5									44	58	70	56.	57.	5	9	4	1	W1.	W1	SW1.	SW1	W1	W1	SW1	-						
6									48	54.	57.	44	47.25.	0	2	0	0	SE2.	SE2	SW2	SW3	-	SE2.	SW1	-						
7									40	42.	47.	38.	46.75.	0	2	8	10	SW3	SW3	NW2.	NW1.	W1	W1	W1	0	/					Rain this morning end 5½ AM.
8									40	50.	60	58.	52.	10	10	5	5.	E1.	E1	SE2	S1.	0	0	W1	SW1.						
9									55.	52.	50.	42.	49.75.	0	1	8	10	SW3	W2	NW3	SW3.	SW3	W2.	NW1	0.	/					
10									43.	57.	62.	53.	52.25.	10	10	9	10.	SW2	SW4	SW4.	SW-	0	0	W-	0						Rain this Morning end 9 AM.
11									45.	58	77.	54	57.	10	9	10	8.	SW-	SW-	W[illegible]	NW-	0	0	0	W1.						
12									44	44	62.	37.	46.75	8	7	10	10	N2	NE2	NE2	N2.	NW-	NW1	0	0						
13									32	43	56	45	44	10	10	8	0	E1	E1.	E1.	0	0	0	-	-						
14									44	47	55	47	48.25	0	0	0	0	E1	E1.	EN	SE-	-	E1	E1	-						
15									42	43	57.	41.	44.25	0	0	8	10	NE1.	NE[illegible]	NE[illegible]	NW1.	-	NE1.	N1.	0						Showers during the day.
16									32.	41	52	39	41.	10	10	10	10	NW1.	NW1.	NE[illegible]	0	0	0	0	0						
17									38	41.	47.	46.	43.	8	4	2	1.	NW-	NW[illegible]	NW[illegible]	N-	NW1	NW1	NW1	NW1.						
18									46.	51	63	54	53.5	7	8	6	6	NW-	NW1.	NE[illegible]	N-	NE1.	N1	N1.	N1.						
19									51.	56	69	57.	58.25	9	9	3	0	N-	N-	SW2	S1.	NW1	NW1	NW1	-						
20									54	58	52	45.	52.25	2	4	2	0	SW2	W3	NW3	NW2.	W1	NW2	NW2	-						Shower at 3½ PM.
21									46.	47	48	38	44.75	2	8	3	0	NW2	NW1.	NE2	NW1	NW1	NW1	NW1	-						Showers during day
22									38.	42.	54	41.	43.75	3	2	6	10	NW1.	NW1	NW2	NW2	NW1	NW1	NW1	-						Showers during the day.
23									39.	49.	68	57.	53.75	10	10	10	10	NW1	NW[illegible]	NE[illegible]	NE-	0	0	0	0						
24									38.	61.	69.	53.	55.25	10	9	8	0	E-	E1.	S1.	SW1.	0	W-	W-	-						
25									53.	65.	71.	56.	61.25	6	8	4	8	SW-	W-	N1	0.	W-	W-	NW1	-						
26									57.	65.	80	60	65.5.	10	10	8	8	NW-	NW-	NW-	N-	0.	0	W1	-						
27									49	59.	72.	59	59.75	8	9	8	10	W-	W-	W2	0	-	-	W1	0						
28									54.	61.	55	48	54.5	10	9	2	2.	NW3	W2	W4	W2	0	W1	W1	W1.						
29									46.	53	50	38	46.75	2	3	1	10	NW2	NW2	NW[illegible]	NE1.	W1	W1	W1	0						
30									32.	52.	57.	57.	48.	10	10	8	0	NW1.	NW[illegible]	W1.	SW1	0	0	W1	-						Light Shower at 8 PM.
31									45.	54	64	46.	52.25	3	7	8	8.	NW1.	W1.	SW2	SW1.	W1	W1	W1	W1.						
Monthly									1347.	1575.	1812	1461	1547.	187.	196.	174	165														
Mean									45. / 44.97	52.5	60.5 / 60.40	48.5 / 48.70	51.62 / 51.39	6.25	6.5.	5.75.	5.5.														

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N.B. The thermometer should be placed in the open air in the shade and not exposed to any reflected heat, and so of the wet bulb. The operation of fanning the wet bulb may be omitted when the wind is blowing.

4)206.5
51.625

Observers name *Theo. G. Wormley.*

METEOROLOGICAL JOURNAL.

Station Columbus Ohio Month May 1851. Latitude 39° 57' North Longitude 6° West from Washington Alt. of Bar. above feet. 18 93

1851.	Barometer Sun rise	Barometer 9 A.M.	Barometer 3 P.M.	Barometer 9 P.M.	Thermometer attached to Barometer Sun rise	9 A.M.	3 P.M.	9 P.M.	Thermometer detached In the shade and open air. Sun rise	9 A.M.	3 P.M.	9 P.M.	Daily Mean	Clearness of the Sky Sun rise	9 A.M.	3 P.M.	9 P.M.	Wind. Its force and course from Sun rise	9 A.M.	3 P.M.	9 P.M.	Clouds. Their velocity and course from Sun rise	9 A.M.	3 P.M.	9 P.M.	Thermometer Wet Bulb Sun rise	3 P.M.	Rain. Began	Ended	Quantity	Remarks
1									40.	43.	46.	35.	41.	8	6	8	10	W4	W4	NW2	W1.	SW2.	SW1.	SW2.	0						
2									32.	42.5	54.	41.	42.25	10	10	9	10	W1	W1	W1	W1	0	0	W1	0						Snow Drift at 6 AM.
3									48.	55.	58.	54.	53.75	0	0	8	8	SW1	SW1	SW1	0	—	—	SW1	—						
4									52.	54.	54.	40.	50	1	1	3	1	NW1	NW1.	NW2.	W1	—	W-	W1.	—						
5									38.	52.	63.	45	49.5	10	9	8	10	N1	N1.	NW1	0	0	NW1	W1	0						Slight Showers during day.
6									33.	46.	56.	46.	45.25	10	10	8	10	N1	N1	NE1	NE1	0	0	NW1	0						
7									38	47.	76.	50	57.5	10	10	10	10	NE1	NE1	S-	0	0	0	0	0						
8									42.	68	78	60	62.	10	4	5	10	SW-	SW1	SW-	0	0	W1	W1	0						
9									57.	71.	81.	64	68.25	10	10	8	8	0	SW-	W2	0	0	0	W1	—						
10									58.	70	82.	68.	69.5	10	10	8	10	W1	W1	W2	0	0	0	W1.	0						
11									64.	73.	82.	76.	73.25	10	7	2	2	W1	W1	NW2	0	0	W1	NW1	—						Showers during the day
12									68.	80	86.	78.	78	10	8	6	10	W-	W2	W2	0	0	W1	W1	0						Showers during the day.
13									74	77.	86	64.	75.25	10	9	0	0	S-	0-	NW2	W1	0	W-	W3.	—						
14									56	60	76	62.	63.	8	9	8	10	NE2	NE1.	NW2	NE1	W-	W1	W1	0			P.M. 3½	P.M. 5½	0,03	
15									48	60	77.	66.	62.75	10	8	4	8	NE2	NE1.	SE1.	0	0	W1	W1	—			Last night		0,03.	
16									64	64	85	66.	69.75	10	8	8	8	0	SE1.	SW3	SW-	0	W1	W1	W1						
17									65	67.	88	68.	72.	0	1	4	0	SW2.	SW1.	SW1	0	SW2	SW2	SW1	—						
18									61.	68.	74	68.	67.75	0	0	4	10	SW-	0	0	0	W1	W1	W-	0			Last night		0,30	
19									66.	74.	87.	74.	76.25	10	9	4	10	SW1	SW2	SW4	0	0	W1	SW2	0			This morning		0,60	
20									68.	70	87	68	72.5	10	8	4	10	SW1	SW1	SW3	0	0	SW1	SW1	0						
21									60	73.	85	71.	72.25	0	9	9	0	SW-	SW-	SW1.	0	0	W-	W1	—			Last night		0.15	
22									63.	75	87	71.	75.25	8	8	5	5	E1.	SW2	SW4	SW1	SW1	SW3	SW2	—						
23									67.	68.	60	48.	60.75	8	6.	5	8	SW2	SW3	NE2	NE1.	W1	NW1	NW2	—			Last night		0,25.	
24									38.	57.	78.	60.	58.25	10	9	8	8	NE1.	E1.	E1	0	0	W-	W-	—			Last night		0,02	
25									58	68	82.	71.	69.75	10	10	8	10	0	0	SW-	0	0	0	W1	0			~~during night~~ Shower			
26									67.	72.	87	76.	75.5	10	9	8	10	0	0	SW3	0	0	W-	SW1	0						
27									78.	81.	94.	79.	83.	10	7	8	10	SW1.	SW3.	SW2	0	0	W1	W1	0						
28									76.	81.	87	80	81	10	8	8	8	SW1.	W2.	SW2.	SW2	0	W1	W1.	—						
29									76	80	87	78	78.75	5	5	8	8	SW1	SW1.	SW1.	SW-	SW2	SW1	W-	—			During day.		0,14	
30									74.	81.	83.	73.	77.75	10	9	8	10	N1.	N1.	SW1	0	0	N1.	W1	0			This morning		0,40	
31									70	73.	81.	70	73.5	10	8	8	10	0	SE1.	SE1	0	0	SE1	SE1	0						
									1797.	2055 / ~~2075~~	2380	1969		248	226	194	242														
Monthly Mean									58. / 57.97	67. / 66.29	76.77	63.52	66.5 / 66.16	8.	7.25	6.5	7.75													1.92	

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N.B. The thermometer should be placed in the open air in the shade and not exposed to any reflected heat, and so of the wet-bulb. The operation of fanning the wet-bulb may be omitted when the wind is blowing.

84 / 66

Observers name Tho. J. Woomley

METEOROLOGICAL JOURNAL.

Station Columbus. Month June 1851. Latitude 39° 57' North Longitude 6° W. from Washington Alt. of Bar. above feet.

1851.	Barometer. Sun rise	Barometer. 9 A.M.	Barometer. 3 P.M.	Barometer. 9 P.M.	Thermometer attached to Barometer. Sun rise	Thermometer attached to Barometer. 9 A.M.	Thermometer attached to Barometer. 3 P.M.	Thermometer attached to Barometer. 9 P.M.	Thermometer detached. In the shade and open air. Sun rise	Thermometer detached. 9 A.M.	Thermometer detached. 3 P.M.	Thermometer detached. 9 P.M.	Thermometer detached. Daily Mean.	Clearness of the Sky. Sun rise	Clearness of the Sky. 9 A.M.	Clearness of the Sky. 3 P.M.	Clearness of the Sky. 9 P.M.	Wind. Its force and course from. Sun rise	Wind. 9 A.M.	Wind. 3 P.M.	Wind. 9 P.M.	Clouds. Their velocity and course from. Sun rise	Clouds. 9 A.M.	Clouds. 3 P.M.	Clouds. 9 P.M.	Thermometer. Wet Bulb. Sun rise	Thermometer. Wet Bulb. 3 P.M.	Rain. Began	Rain. Ended	Rain. Quantity	Remarks
1									65.	73	80	70	72,75	5	6	4	8	SW2	SW2	W3	0	NW2	NW2	W1	—						
2									65	68	77	65	68,5	10	7	8	8	Calm	NW1	NW1	0	0	NW1	W1	—			CM.	CM.		
3									60	65	74	68	66,75	10	5	8	6	SW1	S1	SE1	SW1	0	W1	S1	—			CM.	PM.		
4									60	67	79	70	69	4	5	5	5	W1	W1	NW1	W1	Mey	W1	NW1	—			11.	11.	,14	
5									68	68	84	75	73,75	10	8	5	10	W1	W1	SW1	0	0	W1	SW1	0					,32	Last night & Showers, showery day,
6									70	71	88	71	75	8	0	5	0	S	SW2	W2	W1	SW1	SW2	W1	—					,04	Last night..
7									67	72	90	74	75,75	0	4	5	10	NW1	NW1	W1	SW1	NW1	NW1	W1	0			1 PM	4 PM	,08	Showery night-
8									71	74	81	72	74,5	10	5	0	10	SW2	W2	NW2	0	0	W1	W2	0					,44	
9									65	66	68	61	65	10	9	5	10	NW.	NW2	NW3	W—	0	NW2	NW1	0					,24	Showers
10									55	70	88	71	71,75	10	8	5	8	W1	SW1	SW2	0	0	W1	W1	W1			CM.	PM		
11									61	68	84	72	71,25	8	5	5	8	NW1	NW1	W1	0	W1	W1	W1	W1			11.	6	,24.	
12									62	65	83	68	69,5	8	8	9	9	W1	NW2	NW1	NW1	W1	W1	W1	—						
13									61	67	78	62	67	8	3	5	10	NE1	NE1.	NE1	NE.	NE1	NE1	NW1	0						
14									57	64	82	60	65,75	10	9	8	8	NE1	NE1	NE1	NE1	0	NE1	NW1	W1						
15									56	68	75	63	66	10	8	5	5	NE—	NE1	NE1.	0	0	NW1	W1	—						
16									59	66	74	65	66	0	0	5	4	NE1	NW2	SE2	E1	—	NW1	NW1	—						
17									60	68	76	68	68,5	9	10	9	8	E3.	E3	E1.	E1.	E	0	E	E—						
18									56	65	73	65	65,25	10	10	10	10	E1.	E1.	E2	E1	0	0	0	0						
19									61	68	74	68	67,75	10	10	8	8	E1.	E2.	E3	E1	0	0	SE W1	SW1						
20									64	71	74	72	70,25	5	2	5	8	SW1	SW2	SW2	0	SW1	SW1	W1	W1						
21									68	73	82	76	74,75	4	2	8	7	SW1	SW1	SW3	0	SW1	SW1	SW—	—						
22									66	74	84	75	74,75	6	3	5	2	NW1	NW1	NW2	NW1	NW—	NW—	NW—	NW1						
23									70	72	89	72	74,25	10	5	6	0	0	NW1	NW3	0	0	NW1	W1	—					,14	Showers,
24									68	69	75	69	70,25	0	2	5	8	NW1	NW1	NW2	0	W1	W1	W1	—						
25									60	64	87	74	71,25	0	6	8	8	NW	NW1	W2	W1	0	W1	W1	W1						
26									67	72	84	79	75,5	6	7	8	9	SW1	S1.	SW2	SW	W—	W—	W—	—						
27									74	74	82	78	77	10	2	0	0	0	SW1	S2	0	0	N2	—	—						
28									65	72	87	81	76,25	0	3	5	10	S1.	S1	S1	0	—	SW1	SW1	—						
29									76	78	90	84	82	0	5	8	0	SW2	SW2	SW2	SW1	0	SW2	SW2	—						
30									70	79	92	76	75,25	0	3	5	2	SW2	SW2	SW2	SW1	SW1	SW2 W1	SW2	W1						
31													21,24																		
									1937.	2086	2615	2446	2146	191.	165.	177.	191.														
Monthly Mean.									64.5	69.53	87.16	81.53	71.53	6.37	5.57	5.75	6.37												1.56	

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J. G. Wormley Observer

METEOROLOGICAL JOURNAL.

Station Columbus O. Month July 1851 Latitude 39° 57' North Longitude 6° West from Washington Alt. of Bar. above ______ feet

1851.	Barometer. Sun rise	9 A.M.	3 P.M.	9 P.M.	Thermometer attached to Barometer. Sun rise	9 A.M.	3 P.M.	9 P.M.	Thermometer detached In the shade and open air. Sun rise	9 A.M.	3 P.M.	9 P.M.	Daily Mean	Clearness of the Sky. Sun rise	9 A.M.	3 P.M.	9 P.M.
1									60.	65.	72.	64.	65.25	5.	8	6	10
2									58.	62.	73.	66.	64.75.	10	7	3	6
3									65	70	71.	63.	67.25.	5	5	3	0
4									56.	64.	77.	67	66.	10	8	8	10
5									62.	65.	79	64.	67.5.	10	10	8	10
6									61.	67.	81	68.	69.25	10	0	0	0
7									71	71.	80	72.	73.5	1	0	3	0
8									69.	73.	87.	81.	77.5	0	3	6	2.
9									76.	80	89.	80	81.25	1	0	8	5.
10									76.	78	82	76.	78.5	5	6	5	8.
11									70	73.	87.	72.	74.	10	9	8	6.
12									68	74	80	74	74.	8	3	8	8
13									70	79	83.	75.	76.75.	5	3	5	8
14									69.	78	80.	73	75	8	5	8	10
15									67	76.	88	87	77.25	10	8	8	10
16									78	87	91	84	85.5	10	9	8	10
17									80	82	89	87	83.	10	10	8	10
18									73	76	82.	79.	77.5.	10	0	5	8
19									70	76	78.	73.	74.25	10	8	7	0
20									65.	68	79	71.	70.75	5	8	5	10
21									63.	67.	80.	70.	70.5	10	10	5	10
22									65.	73.	82.	73.	73.25	10	9	8	10
23									68	76	78.	71.	72.25	5	5	8	10
24									67.	78.	82.	74	74.25	0	8	8	5
25									68	73.	87	72.	72.75	0	0	5	10
26									74	87.	92.	89.	83.75	10	9	10	0
27									79.	84	90	87.	85.	10	6	3	6
28									74	78	87.	78	79.25	0	0	8	10
29									71.	76.	85.	76.	77.	10	10	8	0
30									65.	73.	87.	72½	72.75	3	1	8	10
31									67.	76	83.	75.	78.25	10	10	8	10
									2121.	2301 2274.	2542	2302	74.75				
Monthly Mean									68.35	74.23	82.	74.20 ,23	74.69	7.	5.75	6.	6.25

1851.	Wind. Its force and course from. Sun rise	9 A.M.	3 P.M.	9 P.M.	Clouds. Their velocity and course from. Sun rise	9 A.M.	3 P.M.	9 P.M.	Thermometer Wet Bulb. Sun rise	3 P.M.	Rain. Began	Ended	Quantity	Remarks.
1	w2.	nw3.	nw2	0	w1.	nw2	nw1	0						
2	sw1	sw1	sw1	0	0	w1.	sw1	w1.						
3	nw1.	nw1	nw1	nw1	nw1.	sw2	nw1.	—						
4	nw1	w1.	w1	nw2	0	nw1	nw1	0						
5	n1	n1.	nw1	0	0	0	nw1	0						
6	sw-	sw-	s1	sw1	0	—	s2.	sw1.						
7	sw	0	s1.	0	sw1.	w1.	w1.	—					,65	Showers. 2 P.M. & 7. P.M.
8	s1	w1.	w1	sw1	w1	w1	w1	w1.						
9	0	sw1	sw1	sw1	0	0	sw1	w1					,80	Showers. Morning, 3-4 P.M. 6. 6¾ P.M. & 8-9 P.M.
10	sw1	sw1	sw1	0	w1	w1	w1	w1.						
11	0	sw1	w1.	0	0	w1.	w1	w1.						
12	nw1	nw1	sw1	0.	w1	w1	w1.	—						
13	sw1.	sw-	sw1.	0	sw1.	w1	w1.	w1.						
14	0	w1	w-	0	w1.	w1.	w-	0						
15	sw1	sw1	sw2	sw1.	0	w1	w1	0						
16	sw1	sw1	sw3	0	0	w1	w1	0						
17	sw1.	sw-	sw1	w1	0	0	w1.	0						
18	w1	w1.	sw1.	0	0	w1	w1	w1.			6½ P.M.	7. P.	,02	
19	sw1	w1	nw3.	nw1.	0	w1,	nw1	—						
20	nw1	sw1.	sw1	0	nw1	nw1.	nw1	0						
21	nw1.	0	w1.	0	0	0	w1.	0						
22	sw1	sw1	sw1.	0	0	w1	w1	0						
23	sw1	sw1	sw1	sw1	w1	w1	w1.	—			8 P.	11 P.	,18	
24	sw	sw1.	w1	w1	w1.	w1,	nw2.	—						
25	w1	w1.	w1	0	w1	nw1	w1.	0					,02	Showers.
26	w1	w1	nw3.	w2.	0	w1	0	—						
27	w1	sw1 2	nw2.	nw1	0	nw2.	nw1.	—						
28	n1	n1.	nw1	0	n1	n1	nw1	0			8 P.M.	10 P.	,05.	
29	n2-	w1.	0	0	0	0	w1.	—						
30	sw-	w-	nw1	0	w1.	w1.	w1	0						
31	n1	w1	w1.	0	0	w1.	w1.	0						
Monthly Mean													1.70.	

Every person to whom this form may be sent is requested to keep a journal of the winds and weather, even if he has no Barometer or Thermometer, and forward it monthly to the "NAVY DEPARTMENT," Washington, D.C. with the endorsement 'Meteorology' on the corner of the envelope. The wet-bulb observations are made by wetting a thin rag placed around the bulb of the thermometer and fanning it in the shade till it falls as low as it will in the open air. The force of the wind is estimated in numbers, 0 being a calm, 1 a very gentle breeze, 2 a gentle breeze, 3 a fresh breeze, 4 a strong wind, 5 a very strong wind, 6 a violent storm &c. The numbers are put after the course — thus, for example, if the wind is from the S.W. strong it will be set down S.W. 4. The clouds will be marked in the same way, — if for example they have a very gentle motion from the West they will be marked W. 1. The clearness of the sky will also be marked in numbers, 0 representing entire cloudiness, 1 a slight degree of clearness, and so on till 10 entire clearness. The dew-point is the highest temperature at which the vapour in the open air will condense on a bright metallic or thin glass tumbler of water cooled down by ice, or pulverized muriate of ammonia and nitrate of potash in equal quantities. The higher the dew point, the more vapor there is in the air.

N.B. The thermometer should be placed in the open air in the shade, and not exposed to any reflected heat, and so of the wet-bulb. The operation of fanning the wet-bulb may be omitted when the wind is blowing.

4)298.75
74.69

Observers name T. G. Wormley Columbus