

## METEOROLOGICAL OBSERVATIONS.

PSYCHROMETER  
HYGROMETER.

DATE.	Barometer reduced to 32° F. and attached Thermometer.						THERMOMETER.				PSYCHROMETER.				HYGROMETER.			
	BAROM.	ATT. COR.	RED. BAR.	ATT. COR.	RED. BAR.	ATT. COR.	MEAN	7 A.M.	2 P.M.	9 P.M.	MEAN	7 A.M.	2 P.M.	9 P.M.	MEAN	7 A.M.	2 P.M.	9 P.M.
1	31.2	4.2	28.6	2.34	58.5	155	28.4	6.2	19.6	21.3	2.0	33.5	1.9	2.4	17			
2	31.3	4.0	28.3	5.00	67	39.8	7.37	6.5	6.20	4.33	7	14	16.5	16.11				
3	31.4	4.1	28.4	8.18	61.5	73.1	6.90	5.3	3.624	7.13.0	8	26	7	13.67				
4	4.96	37.5	47.2	4.33	65	337	4.44	58.3	370	39.8.0	10.5	41	37.3	29.67				
5	6.33	5.2	57.1	6.95	65.5	57.2	5.33	57.2	4.76	54.6.3	35		2.9					
6	2.53	4.8	2.00	3.89	66	2.91	5.85	60	5.02	5.31	35	31	17	27.67				
7	7.02	38.5	6.70	6.76	64.5	58.1	6.05	60.5	5.21	59.0.7	-2.5	21	11	9.83				
8	4.24	4.0	3.94	3.10	42.5	2.73	3.20	38	2.95	3.21.7	7	27	11	15.00				
9	4.06	2.7	4.10	5.74	64	4.20	6.75	59	5.95	4.75.0	-4.3	8	-3	10.11				
10	6.56	3.2	6.47	6.00	59	5.20	6.84	66	5.85	5.84.0	-3	23	16.5	12.17				
11	7.14	4.0	6.82	7.73	65	6.96	7.72	67	6.69	6.82.3	14.3	35	28.5	24.00				
12	3.06	4.9	3.53	0.74	64.5	9.81	7.75.2	65.5	6.57	7.96.4	31	39.3	42	37.36				
13	7.924	5.3	7.85	7.972	69	8.67	7.95.7	70.5	8.48	7.85.8	40.5	42	37	39.83				
14	7.996	5.1	7.98	2.97	61	2.13	5.62	64.5	4.67	2.06.0	2.9.5	25	15	23.17				
15	7.12	4.3	6.74	7.72	67.5	6.69	7.43	56	6.70	6.71.0	10	25.5	17	17.50				
16	4.80	4.6	3.84	2.85	64	1.89	3.71	67	2.69	2.80.7	23	31	33	29.00				
17	4.62	5.2	3.98	5.30	69.5	4.32	7.09	66	6.10	4.76.7	2.9.5	31.3	28.5	28.22				
18	7.90	4.5	7.46	7.50	64.5	6.53	7.94	66	6.95	6.98.7	12	22	14	16.00				
19	7.85	4.1	7.48	8.10	64.5	7.06	7.93	63.5	6.99	7.17.7	2.3	30	18.5	17.00				
20	4.50	4.6	4.04	2.55	65.5	5.79	1.09	61	0.29	1.95.3	21	30.3	24.5	25.33				
21	7.844	4.7	8.47	7.844	60	8.14	2.34	64	1.42	7.93.4.3	2.9.3	37.5	15.3	27.64				
22	6.08	3.6	6.88	7.22	39	6.44	7.52	34	7.37	7.06.3	-2.5	17	1	5.17				
23	4.98	2.4	5.59	6.32	68	5.28	8.83	65.5	7.86	6.07.7	-3	14	-6	1.67				
24	6.95	2.8	6.95	5.64	67.5	4.61	7.40	64.5	4.45	6.08.3	-1.4.5	15	7	2.56				
25	1.014	31	1.007	1.138	61.5	1.053	0.79	62	9.91	1.016.7	-1.9	-4	-12	-1.67				
26	5.25	31	4.98	2.40	55	1.70	2.34	66	1.33	2.67.0	1	20.3	14.3	12.11				
27	2.59	4.0	2.27	2.52	63.5	1.42	3.74	60.3	2.89	2.19.3	17.5	31.5	15	21.33				
28	6.21	4.1	5.98	8.50	64.5	7.53	0.14	42	9.80	7.74.3	-2	1	-11	-4.00				
29	6.37	1.9	6.63	1.050	2.9	0.49	1.046	23.5	0.60	1.057.3	-2.9	-4.5	-20	-17.83				
30	9.48	11	9.95	8.98	57.5	8.37	7.18	63	6.27	8.19.7	-2.1	13	11	1.00				
31	2.58	3.8	2.32	1.32	64	0.38	0.57	67	9.60	0.76.7	2.1	40.3	33	31.56				
SUMS	15754		13395		14741		30542	72883	46250	47761								
MEANS	488.8		432.1		475.5		9.852	242.4	149.19	154.23								

Note: - Aurora January 24. There was quite a brilliant aurora thro' the whole evening, though for nearly the whole time there were clouds more or less in the northern quarter of the heavens, occasional streamers. The presence of the clouds did not in any measure diminish the intensity of auroral action, obscuring it, of course the parts immediately behind them, but by no means dimming it did not in the least in this instance.

Jan. 20. Received this morning a Psychrometer of Jas. Green, No. 881A = Dry Bulb and No. 881B = Wet Bulb, both read precisely alike, unvet.

Jan. 28. A brilliant aurora in early part of evening. It commenced not far from 6.25 P.M. and had almost entirely died out by 8. At 6.42 M. P.M. I noticed the following appearances that may assist in determining its altitude. There was a bright arch spanning the northern horizon, much like a rainbow. This arch was nearly the same breadth throughout tho' the edges were not perfectly defined. It then I saw it at 6.42 P.M. it was apparently stationary and passed through the stars forming the arch of the great dipper, filling the whole space so much as possible without touching the stars. Beneath this upper arch, and separated from it

## DARTMOUTH COLLEGE.

January

1854

DATE.	CLOUDS.						WIND.						PRECIPITATION.				REMARKS.			
	Kind.	Amt.	Kind.	Amt.	Kind.	Amt.	Kind.	Amt.	Kind.	Amt.	Kind.	Amt.	Kind.	Amt.	Kind.	Amt.	Kind.	Amt.	Kind.	Amt.
1		10		10		H														
2	W 4	Scud	3	W 4	2	3	SSW	0	NW	0	NW	0								
3		0		10		H														
4		H. H		4		3	SW	0	S	0	S	0								
5		Scud	4		SW	5	S	0	S	0	S	0								
6		10	NW	5	10	NNW	4	SE	0	NW	2	NW	4							
7		1	NNW	4	5	NNW	4	NNW	0	WSW	0	WSW	0							
8		3		10	NW	4	5	SSW	0	SW	0	NW	0							
9		Scud	4		Scud	5		0	NW	0	NW	1	NW	0						
10		10		10		10	NNW	0	E	0	E	0								
11		10	SW	4	10		NE	0	SE	1	SE	0								
12		10		10		10	SE	0	SE	0	SE	1								
13	NNW	4	10	SW	4	1	10	WSW	0	SW	4	0	SSW	0						
14	NNW	4	10	NW	4	3	CS	2	W	0	NW	1	NW	0						
15		0	NNW	3	9	10	NW	0	NW	0	N	0								
16		10		10	W	4	10	SE	0	SE	0	SE	3							
17		10	W	3	4	NNW	1	SW	0	NW	1	NNW	1							
18		10		10		10	NW	0	NW	0	NW	0								
19	W	3	6	W	4	9	10	NNW	0	NW	0	W	4	3						
20		10		10		10	NW	0	SE	0	SE	0								
21	NW	4	9		10		0	SE	0	W	2	NW	6							
22		10	W	3	8	5	N	0	N	0	NNW	0								
23		10	NW	5	9		0	NW	0	NW	5	NW	0							
24		10	W	4	1		0	NNW	0	SSW	7	SW	2							
25		0					10	N	0	N	0	N	0							
26		10		10		2	SE	0	SE	0	SE	0								
27	W	4	1		10		10	N	0	N	0	N	0							
28		0			3		0	N	2	NW	2	NW	0							
29		0			0		0	N	0	N	0	N	0							
30		10		10		10	N	0	NW	0	NW	0								
31		10		10		10	N	0	WSW	0	S	0								

by a clear space, was the common auroral arch, very low and its upper edge just touching Penetrated B.

SCALE OF WINDS (See page 409)  
H = Green's Thermometer.

Copied by G. S. Moore  
Observer Albert A. Young.



METEOROLOGICAL OBSERVATIONS.

DATE.	Barometer reduced to 32° F. and attached Thermometer.				THERMOMETER.				FORCE OF VAPOR.				PSYCHROMETER.				RELATIVE HUMIDITY.			
	7 AM.		2 PM.		9 PM.		MEAN.		INCHES.		W.B.		W.B.		W.B.		W.B.		W.B.	
	Barom.	Therm.	Barom.	Therm.	Barom.	Therm.	Mean.	Therm.	Barom.	Therm.	Barom.	Therm.	Barom.	Therm.	Barom.	Therm.	Barom.	Therm.	Barom.	Therm.
1	777	41	723	7944	66347	1.978	65.8	882	1.8840	39	42.2	38	39.75							
2	092	52	031	220	64128	352	64	260	139.7	38	26	16.3	26.77							
3	442	39	413	528	69	420	624	65	528	43.7	59	93	-5	3.40						
4	646	29	645	765	66666	807	47	758	689.7	-20.8	6.5	-10.5	-8.27							
5	766	18	794	600	25	609	573	23	528	643.7	-24.3	6	5	-4.43						
6	646	19	671	750	65	653	939	65	741	735.0	-2	7.5	-2	1.17						
7	870	30	866	919	70	808	936	66	835	836.3	-13	16	2.7	1.90						
8	706	37	691	505	64	411	057	64	062	388.0	8.2	22.8	28.0	19.67						
9	7865	49	812	051	67	950	165	66	068	7949.3	35	38	32.1	35.03						
10	140	57	091	270	665	169	569	66	469	243.0	35	29	13.5	25.80						
11	737	39	706	860	70	750	969	63	867	774.3	-1.5	6.5	-3	10.67						
12	947	25	956	900	35	883	840	34	825	880.0	-18	9	10.2	0.40						
13	750	29	749	708	57	639	552	60	469	619.0	16.2	25.0	27.5	22.90						
14	489	46	443	548	63	2456	552	62	3463	454.0	27.5	36	32.5	32.0						
15	402	53	387	400	71	288	382	67	280	318.3	31.6	35.9	33.0	33.50						
16	413	53	348	412	65	416	526	62	438	407.7	27.6	32.8	24.0	28.13						
17	608	41	575	691	66	7590	741	65	645	403.3	16.3	19.8	14.4	16.83						
18	574	41	7339	436	66	337	335	67	234	370.0	6.0	34.2	29.8	23.33						
19	477	47	426	760	73	642	776	66	676	581.3	16.7	19.7	9.5	11.30						
20	760	33	6744	776	73	658	616	63	524	642.0	-10.2	13.0	13.4	5.40						
21	463	42	6426	414	70	305	497	68	393	374.7	8.5	21.7	13	14.40						
22	408	40	3377	364	62	3276	114	64	022	225.0	1.8	36.6	33.0	28.80						
23	140	50	084	392	46	244	605	62	577	277.3	14.5	6.0	1.6	7.37						
24	584	33	571	600	685	495	759	63	666	577.3	-6	14.8	13.0	7.27						
25	1033	36	013	1165	69	053	1198	50	3079	1049.0	-2.5	11.8	8.1	5.80						
26	912	34	897	574	36	550	7924	39	897	448.0	13.9	25.9	34.0	24.60						
27	114	39	9	086	560	66	460	903	58	837	461.0	26.3	22.1	10.7	19.70					
28	6018	33	005	988	08	882	842	65	765	884.0	-3.0	29.7	23.0	16.57						
29																				
30																				
31																				

SUMS 14269 13637 13929 13944.8 269.7 597.85 439.8 434.79 24.8 357 416 33.3 309 375  
MEANS 5096 4870 497.4 498.0 9.63 21.35 15.71 15.53 080.5 071.5 083.0 84.2 61.8 75.0

Barometric readings of February 26, 2.55 PM. 714.36  
3.20 " 353.36  
4.00 " 280.36  
4.30 " 196.36  
4.40 " 185.36  
5.00 " 166.37  
5.15 " 130.37  
5.45 " 100.37  
5.55 " 86. = 0.64  
6.30 " 015.38  
7.08 " 002.38  
11.2 " 1885.39 = 2885.6  
11.2 " = 1.886.

Cars blocked up by the ice, after this storm, and delayed over two days.

Sudden change of wind (see Feb. 26 above).

DARTMOUTH COLLEGE, February 1854

DATE.	CLOUDS.				WIND.				PRECIPITATION.				REMARKS.		
	7		2		9		TAM.		2PM.		9PM.			RAIN AND MELTED SNOW	
	Kind.	Amt.	Kind.	Amt.	Kind.	Amt.	Dir.	Amt.	Dir.	Amt.	Dir.	Amt.		Hour.	Hour.
		Scud											BEGAN.	ENDED.	INCHES
1	WNW	3	10	10	W	1	SW	SW	2				1 - Warm, cloudy and showy. Thermometer at 12.50 Min. bar. at 2 P.M. Shower 2 P.M. slight only. Clouds moving from the W. nearly through day.		
2	WNW	6	10	10	WNW	3	NE	0	NNE	1			2 - Day cloudy and temperature gradually increasing. Wind shifted to the N. at 10 AM. Occasional showers.		
3		10	0	1	NW	1	N	0	NNW	0			3 - Day pleasant and cool. Rain at 9 AM in P.M. at 11.30 AM. At present day when the thermometer stood at 12° (or 3° below the freezing point).		
4		0	0	1	NW	0	NW	0	NW	0			4 - Day pleasant but cold. Sky wholly clear till 7 AM when clouds were seen SW.		
5		1	10	10	NW	0	WNW	0	NW	0	12.4 AM - PM.	1.20	5 - Morning clear. Sky clouded over gradually in AM. and commenced snowing about noon. Sky fine snow till sometime in night.		
6		1	0	0	NNW	0	NW	3	N	0			6 - Day fine. Some wind about noon, an afternoon the snow settled in the N. Sky in AM. deep grey. A little haze at horizon in P.M.		
7		0	0	0	NW	0	NW	0	NW	0			7 - Day pleasant. Atmosphere somewhat hazy. Occasional cirro-stratus clouds across the sky.		
8		10	10	10	E	0	SE	0	SSE	1	AM.		8 - Snow mostly through the day, changed to rain at 8 PM. Wind and shifting from NW to SE at time of morning observation passing by E. SE. SE. Rain in P.M.		
9	WNW	3	0	W	3	WNW	2	W	0	SSW	1		9 - Day pleasant, temperature mild. Sky variable. Wind early part of P.M. shifting from W to NW.		
10	SW	2	0	W	3	WNW	5	NW	4				10 - Day pleasant. Sky very clear and more southerly air transparent. Strong wind about noon. Wind shifted westerly 8 AM.		
11		0	0	0	NNW	3	NW	3	NW	1			11 - Occasional flurries of snow accompanied by wind.		
12		0	0	10	N	0	N	0	N	0			12 - Sky clear till 3 or 4 PM when it clouded over gradually from the West. Day fine.		
13		10	10	10	W	0	SSE	1	SSE	0	2 PM. 6 PM.		13 - Day mostly stormy. Wind shifted southerly early in AM. Snow 2 PM. succeeded by sleet and rain.		
14		10	10	10	SSE	2	ESE	0	ESE	0	5 PM. -	1.127	14 - Day cloudy. Clouds half way down the hills. Atmosphere misty. Wind in AM. changed to ESE. Rain and sleet after 5 PM.		
15		10	10	10	SE	0	S	0	S	0	7 PM. - PM.		15 - Day cloudy. Afternoon drizzle.		
16		10	9	W	8	NW	0	NW	0	W	2		16 - Morning and most of P.M. cloudy. There was a bright auroral light in the N. and N. E. obscured by clouds. Slight wind about the time of day.		
17	W	4	0	0	W	0	W	2	W	0			17 - Day pleasant. Sky entirely clear in P.M. and of deep grey. Sky rising cloudy. Gentle snowing over. Wind shifted toward the N. (southward) Bar. falling. Therm. rising.		
18	WSW	4	0	10	WSW	0	SSW	2	S	0			18 - Day fine. Sky clear and deep grey. Gentle wind till 3 PM. Therm. falling through the day.		
19	WNW	5	0	0	N	1	N	2	N	0			19 - Forenoon pleasant and sky clear early in P.M. Sky clouded over and became cloudy in evening clouds were thinner. Wind shifted to ESE. P.M. and. 1.26 by 4 PM.		
20		0	0	10	NW	0	N	0	E	0			20 - Evening clear and pleasant.		
21		10	0	0	NE	0	NE	0	NNE	0			21 - Sky broke E. N. E. Max. therm rose to 44. Clouds thin about sunset. Bands of cirro-stratus at different heights lying crosswise.		
22	W	3	0	WSW	3	0	NNE	0	ESE	0	S	2	22 - Snow drifting in AM. Amundt wholly indistinct. Very high wind most of day.		
23		10	0	NW	5	0	NW	5	NW	4	N	6	23 - Cloudy. Occasional snow. Calm at 1 PM. flakes through P.M. till about 7 PM. when clouds cleared up about 9 PM. A fine aurora was revealed in the N.		
24	W	3	0	0	NW	0	NW	0	NW	4			24 - Morning clear and pleasant. Wind shifted N. Easterly about 11.30 AM. Sky clouded over more or less in P.M.		
25		0	0	0	NE	0	NE	0	NEE				25 - Day stormy throughout. Snow from early AM. till 3 or 4 PM when it changed to sleet and rain. At 4 PM. the wind shifted through the whole compass from SE to NW by the E and back from NW to SE by the E likewise. Bar. fell rapidly. Min. at 2 PM.		
26		10	10	10	SSE	0	SSE	0	SSE	0	AM. 11 PM.	1.535	26 - Day pleasant. High wind till one cloud in AM. and early P.M. moving rapidly. Faint aurora in the North at 9.20 PM.		
27	NW	5	0	0	NW	4	NNW	2	NNW	0			27 - Day pleasant. Sky clouded over by moon and wind in P.M. shifted by the W to the southward.		
28		0	9	7	NW	0	NW	0	NW	0			28 - Day pleasant. Sky clouded over by moon and wind in P.M. shifted by the W to the southward.		
29													29 - Day pleasant. Sky clouded over by moon and wind in P.M. shifted by the W to the southward.		
30													30 - Day pleasant. Sky clouded over by moon and wind in P.M. shifted by the W to the southward.		
31													31 - Day pleasant. Sky clouded over by moon and wind in P.M. shifted by the W to the southward.		

168 152 168 N25, NE5, E5, SE9, S9, SW3, W10, NW18. (10.5) 2.772  
6.00 5.44 6.00

SCALE OF WINDS (see page 409)

Copied by S. S. Moore  
Observer Albert A. Young.



DATE.	Barometer reduced to 32° F. and attached Thermometer.								THERMOMETER.				FORCE OF VAPOR INCHES.			PSYCHROMETER.				RELATIVE HUMIDITY.							
	BAROM.	W. B.	D. B.	BAROM.	W. B.	D. B.	BAROM.	W. B.	7 AM.	2 PM.	9 PM.	MEAN.	7 AM.	2 PM.	9 PM.	MEAN.	7 AM.	2 PM.	9 PM.	MEAN.	7 AM.	2 PM.	9 PM.	MEAN.			
1	764	43	726	709	73	593	755	71	642	653.7	30.0	86.3	26.4	22.57	.061	130	.133	80	36.3	26.4	7.9	31.2	5.9	98	52	92	
2	762	48	710	814	71	701	791	69	683	698.0	12.1	41.3	33.0	28.80	.072	134	.151	121	41.3	33.0	11.9	35.6	31.1	96	57	80	
3	560	49	506	404	70	294	538	69	450	416.7	32.0	34.5	32.0	32.83	.179	169	.154	320	34.5	32.0	31.9	33.0	34.3	99	80	82	
4	398	44	357	526	68	421	252	67	150	309.3	32.0	41.0	35.0	36.00	.178	160	.183	320	41.0	35.0	31.5	36.3	34.0	94	60	9	
5	220	57	160	476	61	396	521	61	434	330.0	35.1	34.5	24.4	31.00	.141	1043	.106	351	33.5	24.4	32.0	28.4	23.5	69	50	88	
6	578	46	532	737	68	631	771	64	677	613.3	23.0	50.5	19.1	24.20	.088	100	.086	23.0	50.5	19.1	20.9	26.6	18.0	71	58	89	
7	538	48	486	538	66	438	473	69	366	430.0	14.6	33.0	28.9	25.50	.075	136	.139	14.6	33.0	28.9	14.0	28.8	28.0	91	78	87	
8	272	58	214	080	63	490	025	60	492	048.7	28.6	34.4	32.0	31.67	.143	150	.181	28.6	34.4	32.0	28.0	32.0	29.3	76	100		
9	323	53	258	428	66	329	503	65	407	331.3	32.0	42.3	36.0	36.97	.179	138	.159	320	42.3	36.0	31.9	36.5	33.5	97	52	74	
10	352	53	287	195	64	200	063	53	497	161.3	34.2	37.0	34.4	35.20	.176	191	.185	34.2	37.0	34.4	33.8	33.5	33.7	96	86	93	
11	210	48	159	558	72	443	734	66	635	412.3	36.2	39.8	28.7	34.90	.173	120	.128	36.2	39.8	28.7	34.2	34.0	27.1	80	49	82	
12	738	50	681	656	72	574	593	68	581	507.3	19.0	41.7	34.0	31.57	.000	153	.139	19.3	41.7	34.0	19.0	36.7	31.3	94	57	72	
13	526	51	466	460	66	369	578	56	504	443.3	25.5	50.7	40.0	38.73	.154	164	.162	25.5	50.7	40.0	25.0	42.5	36.9	94	40	71	
14	572	50	515	452	59	371	402	57	327	404.4	37.1	36.1	33.5	35.57	.191	119	.178	37.1	36.1	33.5	35.7	32.7	28.6	55	91		
15	412	49	356	353	46	256	158	62	370	227.3	34.7	48.0	37.8	40.17	.181	198	.198	34.7	48.0	37.8	33.7	42.4	36.4	90	59	86	
16	185	56	78	1738	69	1634	1865	68	763	1728.3	40.0	57.4	44.7	47.37	.242	154	.071	40.0	57.4	44.7	47.37	45.7	34.6	97	32	23	
17	2940	53	876	982	60	900	1738	66	640	1805.3	33.0	42.3	32.2	35.83	.008	1080	.161	33.0	42.3	32.2	32.6	32.2	31.0	46	30	0.39	
18	7906	45	664	1940	66	838	319	59	239	1913.3	16.0	15.7	15.5	15.73	.046	1053	.045	160	15.7	15.5	128	135	125	45	62	48	
19	487	39	458	410	42	373	368	38	341	390.7	11.2	23.0	21.0	18.40	.043	1035	.061	146	16.5	10.0	125	135	77	61	43	54	
20	380	34	375	597	66	478	701	42	645	506.0	14.6	16.5	10.0	13.70	.052	1041	.036	10	20.0	14.0	10	16.0	11.3	100	41	50	
21	710	30	706	786	69	679	788	66	688	691.0	1.0	20.0	14.0	11.67	.046	1045	.043	3.9	29.7	29.8	33.3	33.3	27.4	87	29	73	
22	692	38	665	526	67	424	397	68	294	461.0	1.5	29.7	29.8	20.33	.044	1056	.122	27.3	33.5	33.0	26.7	34.0	32.3	94	85	92	
23	7180	48	129	053	68	930	1964	65	869	1982.7	27.3	35.5	33.0	31.93	.138	1176	.172	32.0	28.0	19.5	31.0	31.0	17.5	89	70	71	
24	1832	55	763	846	61	762	1911	48	860	1795.0	32.0	28.0	19.5	26.50	.163	1115	.074	15.5	25.0	17.1	13.6	20.7	15.0	69	46	60	
25	1860	38	835	1902	68	799	1968	56	896	1843.0	15.5	25.0	17.1	17.20	.059	1062	.062	14.0	24.5	14.0	13.0	20.5	13.3	82	50	40	
26	1958	38	832	018	42	983	138	38	112	009.0	14.0	24.5	19.0	19.17	.067	1064	.049	16.0	25.5	18.0	14.4	21.4	17.0	74	54	84	
27	176	33	164	278	66	180	361	18	309	217.7	16.0	25.5	18.0	19.83	.067	1084	.083	10.0	19.2	12.7	9.0	16.0	11.1	79	51	69	
28	964	30	934	522	68	417	714	65	618	459.3	10.0	19.2	12.7	13.97	.055	1053	.054	15.0	22.0	12.0	34.1	18.5	10.0	89	51	61	
29	716	42	679	811	61	723	868	65	770	724.0	1.50	22.0	12.0	16.33	.073	1064	.064	3.9	30.1	25.0	3.9	25.0	21.9	100	46	61	
30	842	38	816	826	68	721	813	63	721	752.7	3.9	30.0	25.0	17.03	.097	1077	.062	37.2	34.5	32.0	36.3	31.5	30.5	76	96	84	
31	800	48	748	802	62	712	660	58	580	680.0	27.3	34.5	32.0	31.23	.110	1173	.154	11.2	23.0	21.0	9.0	18.7	17.1	57	27	37	
SUMS		10354		9556		9930	19446	6715	10289	8307	84370	3418	3487	3477													
MEANS		33400		30826		32032	32086	21662	33190	26797	27216	11026	11261	11219													

\*Note: The Psychrometer and Relative Humidity readings for the 1<sup>st</sup> of March (Difficult) are written on the 31<sup>st</sup>. From the 1<sup>st</sup> to the 31<sup>st</sup> inclusive, the readings are advanced one day. Readings on the 1<sup>st</sup> should read for the 30<sup>th</sup> etc. S. S. M.

SCALE OF WINDS (See page 409)

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Observer Albert A. Young

29. F. min. therm. 41 Day fine. C. B. clouds  
in W at 6 $\frac{1}{2}$  P.M. Auroral light in evening.  
30. Day pleasant but sky gradually  
clouded up from the W thro' the day.  
N. Max + 2 $\frac{1}{2}$  F. min. +.  
31. Day cloudy. Wind and slight  
rain in evening. N. Max therm 43



## METEOROLOGICAL OBSERVATIONS.

DATE.	Barometer reduced to 32° F. and attached Thermometer.					THERMOMETER.				FORCE OF WIND.			HYGROMETER.				RELATIVE HUMIDITY.	
	BAROM.	RED. COR.	BAROM.	RED. COR.	BAROM.	MEAN	7 AM.	2 PM.	9 PM.	MEAN	Min.	D. B.	W. B.	7 AM.	2 PM.	9 PM.	7 AM.	9 PM.
1	218	48	167	092	62 1/2	107.7	34.1	41.0	37.4	37.30				34.1	41.0	33.0	38.9	37.0
2	463	50	406	794	68	823	639.3	17.0	28.1	24.0	26.37			27.0	28.1	24.0	23.9	22.0
3	1068	45	1024	1072	65	975	1016	42	926	975.0	9.9	33.0	25.0	9.3	33.0	25.0	26.7	22.0
4	893	57 1/2	831	860	69	751	862	66	752	778.0	25.5	42.0	35.2	25.3	42.0	35.2	35.0	32.0
5	742	50 1/2	681	688	68	583	620	69	513	593.3	29.0	50.9	38.9	29.0	50.9	38.9	39.6	36.0
6	452	58	374	379	72 1/2	284	157	67	057	237.0	36.7	54.0	44.9	36.7	54.0	44.9	45.2	42.0
7	325	57	242	589	66 1/2	489	802	57	727	486.0	37.0	38.3	31.0	37.0	38.3	31.0	35.4	33.0
8	875	47	825	794	64	700	610	60	529	684.7	26.9	41.0	37.0	26.9	41.0	37.0	34.9	32.0
9	484	52	422	522	68	418	406	61	320	386.7	37.3	44.0	36.0	37.3	44.0	36.0	39.1	37.0
10	152	51	093	039	65 1/2	943	200	68	097	044.7	35.0	38.0	35.0	35.0	38.0	35.0	36.0	34.0
11	322	55 1/2	252	482	70	373	550	57	475	366.7	30.9	39.4	27.5	32.5	39.4	27.5	32.6	30.0
12	616	47	567	615	66 1/2	575	602	61	576	532.7	23.0	50.3	35.5	23.0	50.3	35.5	36.3	33.0
13	635	51	585	757	69 1/2	648	896	64	301	674.7	31.9	42.0	27.1	31.9	42.0	27.1	33.6	30.0
14	774	46 1/2	896	928	69 1/2	818	814	65 1/2	715	809.7	19.5	35.2	31.0	19.5	35.2	31.0	28.5	25.0
15	652	52	590	538	68 1/2	433	530	64 1/2	435	486.0	27.7	41.4	32.0	28.3	44.4	32.0	33.7	30.0
16	589	50 1/2	529	600	56	527	601	57 1/2	571	532.3	27.5	40.9	33.5	30.0	40.9	33.5	33.7	30.0
17	533	46	487	498	59 1/2	417	488	50 1/2	342	415.3	33.0	32.2	30.9	35.0	32.2	30.9	32.7	30.0
18	302	46	256	300	60	217	463	55 1/2	392	388.3	32.0	45.0	30.7	32.0	45.0	30.7	37.5	35.0
19	408	53 1/2	342	334	67	233	342	62 1/2	252	275.7	34.2	53.0	42.0	34.2	53.0	42.0	43.0	40.0
20	266	54	200	264	68 1/2	159	380	61 1/2	294	217.7	33.5	57.0	39.0	33.5	57.0	39.0	41.6	38.0
21	436	50	387	478	69	371	521	60 1/2	436	398.7	24.8	55.0	41.0	24.8	55.0	41.0	41.9	38.0
22	484	48	432	374	64	281	292	58 1/2	213	308.7	33.1	49.7	41.7	33.1	49.7	41.7	41.5	38.0
23	256	53	191	350	71 1/2	239	514	60 1/2	429	286.3	40.0	56.0	37.0	40.0	56.0	37.0	44.3	40.0
24	558	50	501	458	70	379	377	62	289	389.7	37.5	56.7	37.0	37.5	56.7	37.0	40.4	37.0
25	364	56 1/2	291	314	70 1/2	202	321	69	215	236.0	28.0	67.0	57.0	40.0	67.0	57.0	48.6	45.0
26	257	62	170	118	66	021	049	69	944	045.0	43.0	48.5	46.4	43.0	48.5	46.4	45.9	43.0
27	126	60 1/2	043	279	65 1/2	182	408	62	328	184.8	47.0	41.0	37.0	47.0	41.0	37.0	41.6	38.0
28	500	55	430	724	66	624	838	63 1/2	744	589.3	35.0	38.7	36.5	35.0	38.7	36.5	36.3	33.0
29	826	53	760	789	64	674	689	64	574	669.3	35.1	39.7	42.0	35.1	39.7	42.0	39.0	36.0
30	589	61 1/2	502	534	69	427	447	64 1/2	352	427.0	49.7	58.8	53.8	49.7	58.8	53.8	54.0	51.0
31																		
SUMS		13468		12576		13185	13076.4	961.8	13522	11020	113868							
MEANS		44893		41920		43950	43588	320.6	45.07	3673	3762							

## DARTMOUTH COLLEGE.

April

1857

DATE.	CLOUDS.				WIND.				PRECIPITATION.				REMARKS.
	Kind.	Amt.	Kind.	Amt.	Kind.	Amt.	Dir.	Amt.	Kind.	Amt.	Dir.	Amt.	
1	10		10		NW	10	S	0	S	0	W	3	1 Day cloudy and warm. In A.M. the hills were shrouded with mist. At P.M. the clouds were thin and moving from the W. N.W. max. 54.5° P.M. 30.0
2	WNW	5			NW	2	NNW	2	NNW	2	NNW	1	2 Pleasant. Clouds variable. N. max. 34.5
3													3 Bar. 8 1/2 AM. 172.62:784. Day pleasant. Bright comet in W. first seen it set at 5.33 in P.M.
4													4 Day warm, mostly cloudy. Caught one gopher of corn at 8 min. 7.8
5	NW	8											5 Day warm, clear in middle of P.M. but cloudy after sunset. 8 min. 25.8
6	NNW	8	WSW	10	W	10	S	0	S	0	SW	0	6 Day warm and mostly cloudy. 8 min. 33.0
7	NW	6											7 Day fair, gentle wind. Comet visible in evening but moon light too bright to observe it well.
8													8 Day cloudy. 8 min. thermometer 23.0
9													9 Day cloudy. Slight wind. min. therm. 33.0
10													10 Day Aprilish, rising in P.M., changed to snow at 6 P.M. 8 min. therm. 33.0
11													11 Day beautiful.
12													12 Clouds at noon converged in SW. Day beautiful. Thinner, cleared out today. 9 min. 20.1
13													13 Day pleasant.
14													14 Day pleasant. Sky clouded over gradually in P.M. 8 min. therm. 30.1
15													15 Snow in A.M. snow very nearly disappeared from the Common today. 9 min. therm. 27.0
16													16 Day pleasant. Sky clouded over in evening. snow mostly gone from Common.
17													17 P.M. snowy, little wind. 8 min. therm. 30.0
18													18 Day pleasant. snow disappeared today. all but a small patch from the Common.
19													19 8 min. therm. 28.0
20													20 Mostly cloudy. 8 min. therm. 24.5
21													21 Day pleasant. Auroral streamers in the low north. 9 P.M. 8 min. therm. 30.8
22													22 Day pleasant. Cumulus clouds and cirro-stratus higher up, much of the A.M. 8 min. therm. 26.8. Aurora at 9 P.M. and 1 P.M.
23													23 Cloudy, drizzling rain commenced in evening. 8 min. therm. 24.0
24													24 Day pleasant. Brilliant Aurora in evening. (See note) Frogs singing.
25													25 Day pleasant. Cloudy in early evening. 8 min. therm. 23.0. One more Hepatica in blossom.
26													26 Day pleasant. Very warm. 8 min. therm. 27.1. Psychrometric observation at 2 A.M.
27													27 Drizzling. Mist in evening upon the river. 8 min. therm. 41.0
28													28 Afternoon raining. Temperature previous night in equilibrium.
29													29 Raining through morning. Slight snow on Norwich hills. 8 min. therm. 33.0
30													30 Raining till noon. Rain again at sunset. 8 min. therm. 33.0
31													31 Occasional showers through day. 8 min. therm. 41.0
	191		199		189		N 23, NE 6, E 1, SE 7					4.145	
	6.37		6.63		6.30		S 20, SW 2, W 5, NW 28						

SCALE OF WINDS (See page 409).

Copied by H. S. Moore  
Observer Albert A. Young.



## METEOROLOGICAL OBSERVATIONS.

DATE.	Barometer reduced to 32° F. and attached Thermometer.				THERMOMETER.				SYCHROMETER.				RELATIVE HUMIDITY	
	7 A.M.	2 P.M.	9 P.M.	MEAN	7 A.M.	2 P.M.	9 P.M.	MEAN	7 A.M.	2 P.M.	9 P.M.	MEAN	7 A.M.	9 P.M.
1	371	60 288 390	60 317 386	61 300 30.17	510	590	480	52.67	510	59	48	49.7	53	46
2	464	58 385 356	64 350 256	63 265 30.00	390	690	571	53.03	39	69	57.1	37	58.5	50.0
3	238	59 158 270	71 157 350	67 248 187.7	495	544	501	51.33	51.2	54.4	50.0	47.8	50.4	49.1
4	394	61 308 448	69 335 441	68 336 326.3	482	560	473	50.63	49.5	56.0	47.3	48.0	50.4	45.2
5	306	62 218 130	74 011 098	68 996 075.0	429	650	-	-	42.9	65.2	-	42.0	53.1	-
6	192	54 126 195	69 089 190	61 104 106.3	323	278	265	28.87	31.2	27.8	26.5	31.0	24.4	22.0
7	131	46 086 139	60 057 193	61 118 087.0	275	420	412	36.90	28	42	41.2	25	35	34.8
8	380	53 313 311	75 188 327	61 249 250.0	351	551	447	43.97	35.1	53.1	41.7	31.1	45.1	37.4
9	378	54 311 329	69 222 327	67 225 252.7	350	692	610	53.07	35.0	69.2	61.0	33.3	51.2	49.0
10		297	68 194 260	66 161 177.5	510	710	620	61.33	71.0	62.0	6	62.0	60.0	-
11	341	61 253 484	70 325 541	65 744 341.3	600	690	555	61.50	60.0	69.0	55.5	58.0	57.8	48.2
12	642	56 156 645	70 153 727	62 163 580.0	465	765	604	61.13	46.5	76.5	60.4	44.4	56.0	51.2
13	856	60 771 836	73 817 869	71 863 813.7	520	800	660	66.00	52.0	80.0	66.0	49.0	59.5	60.8
14	887	65 787 780	70 670 629	67 525 660.6	589	641	608	61.27	58.9	64.1	60.8	56.2	61.0	59.5
15	468	65 370 400	75 288 458	71 346 434.7	634	770	620	67.57	63.4	77.0	62.0	61.7	63.0	52.0
16	496	61 449 579	70 418 571	68 487 438.0	521	731	585	54.57	52.0	73.1	58.5	50.0	58.2	52.4
17	626	59 546 592	71 579 550	69 443 489.3	548	780	648	65.87	54.8	78.0	64.8	52.7	63.0	58.7
18	434	66 335 396	68 291 425	68 321 315.7	618	674	627	63.97	61.8	67.4	62.7	59.8	65.3	61.5
19	471	66 370 491	73 374 523	70 414 386.0	624	765	593	66.13	62.4	76.5	59.5	60.4	64.5	54.4
20	546	59 464 464	69 356 527	67 424 413.7	570	762	600	64.40	57.0	76.2	60.0	53.4	65.8	57.8
21	625	62 535 580	67 477 539	65 542 484.7	520	640	550	57.13	52.0	64.0	55.0	50.5	56.0	52.0
22	632	61 553 656	70 547 748	64 653 585.0	527	670	510	56.90	52.7	67.0	51.0	45.3	53.1	46.5
23	816	61 729 760	67 658 788	64 794 727.0	470	645	577	54.40	47.0	64.5	57.7	42.8	50.4	46.0
24	805	54 736 668	69 561 616	66 515 604.3	415	735	590	58.00	41.5	73.5	59.0	48.0	59.0	53.4
25	543	62 455 423	63 331 319	62 320 338.7	540	559	540	54.63	54.0	55.9	54.0	55.9	54.0	53.0
26	255	60 172 449	65 273 440	63 349 264.7	579	592	580	58.37	57.9	59.2	57.7	55.8	52.8	52.5
27	543	60 459 538	68 434 519	67 416 486.3	565	756	570	63.03	56.5	75.6	57.0	52.1	63.0	53.2
28	500	61 423 427	72 311 487	69 380 371.3	80.4	610	6560	53.4	80.4	61.0	54.1	62.8	52.4	-
29	529	57 454 463	69 376 425	65 319 383.0	478	729	530	57.90	47.8	72.9	53.0	45.6	58.2	52.0
30	362	59 281 299	66 199 499	640 295 291.3	460	719	490	58.63	51.0	71.9	49.0	48.6	56.2	41.0
31	680	50 573 624	66 525 700	59 617 572.0	358	610	470	47.93	35.0	61.8	44.0	33.3	50.0	40.2

SUMS 12441 10871 11845 118965 15268 20526 16397 171083  
MEANS 41470 35068 38210 38376 49152 66213 54657 57023

## DARTMOUTH COLLEGE,

May

1854

DATE.	CLOUDS.				WIND.				PRECIPITATION.				REMARKS.				
	7A.		2P.		9P.		7A.		2P.		9P.						
	Kind.	Amt.	Kind.	Amt.	Kind.	Amt.	Dir.	Amt.	Dir.	Amt.	Dir.	Amt.					
													RAIN AND MELTED SNOW.				
													HOURLY AMOUNT				
													BEGAN ENDED INCHES				
1	SG	Scud 9		7		3	SE	0					P.M. 0.145	Rain previous night, over by sunrise.			
2		1		2		10					SW			8. Min. therm. 33.7. Day warm and pleasant.			
3		10	EG	10	ET	10	SW	0	ESE	2	ENE	0		Day pleasant, occasional showers.			
4	EG	10	EG	10		10	NE	0	NE	0	E	0	0.314	Occasional showers.			
5		CS	6	W4	9		9	SE	0	S	0	W	3	Day pleasant. Cirro stratus clouds at 7 A.M. hanging from NNW to SSE. 8. Min. therm. 40.3.			
6		9	NW7	7	NW7 WS	7	WNW	4	NW	6	NW	6	0.055	Day very windy. Snow squalls early P.M. 8. Min. therm. 24.0.			
7	NW7	5		5	NW4	5	NNW	5	NNW	3	NNW	0		8. Min. therm. 34.0.			
8		5		0		0	N	0	NW	2	NW	0		Wind mostly subsided by noon. Day very warm and pleasant. Clouded over about sunset. 8. Min. therm. 31.0.			
9		0		0		10	NW	0	WSW	0	SSW	0		Sultry. Slight rain in P.M. 8. Min. therm. 49.0.			
10	SW + SW	0		10	SG	10	SSW	0	SW	0	SW	0	P.M. 0.214	Pleasant and warm.			
11	W	5	WSW	2		0	SW	0	WNW	2	SSW	0		Fair. Fresh wind at noon. Min. therm. 39.0.			
12		0		0		0	S	0	W	3	WSW	0		Sultry. Fair. Wind variable. Min. therm. 44.5.			
13		0	W	2	1		0	SW	0	SSE	2	SSW		Stormy through day. 8. Min. therm. 53.0.			
14	SH	10	SEG	10		10	S	0	SE	2	SE	0	7 A.M. 9 P.M. 0.0750	Day pleasant. Little wind. Faint Aurora.			
15		10	WSW	4		0	S	0	WSW	0	WSW	0	9	Pleasant. Wind shifted about noon. 8. Min. therm. 44.0.			
16	W	2		4		4	WSW	0	SSE	0	SSE	0		(Ray north) 8. Min. therm. (earlier evening of May) 48.0. Slight aurora at 9 P.M.			
17		H		7	6	2	10	SSE	0	SSE	3	SE	1	Pleasant. Passing clouds in A.M. Dried wind and clouds at 8 P.M. 8. Min. therm. 47.5.			
18	SEG	10	SG	10		8	SSE	0	S	0	S	0	9 A.M. 4 P.M. 0.964	Rainy.			
19	SW	6	SW	5		0	S	1	S	1	S	0		Fair. Passing clouds. 8. Min. therm. 58.0.			
20		0	WSW	4		2	S	0	SSW	3	SSW	0	4 P.M. 11 A.M. 0.247	Low auroral arch at 11 P.M.			
21	SW	7	SW	3	10		4	SW	0	W	4	3		Fair. early in A.M. Thunder showers at 11 A.M. and accompanied with hail 1/2 inch in diameter. Min. therm. 49.0 after 4 P.M.			
22		0	WSW	3		2	SW	0	W	4	3	2		Cloudy till evening. A few drops of rain. 8. Min. therm. 46.0.			
23		0		1		0	W	0	NNW	2	N	0		Day pleasant. Many passing clouds.			
24		0		0		0	NW	0	SW	0	S	0		Min. therm. 39.5. Day fine. Sky mostly cloudless.			
25		0		0		0	NW	0	SW	0	S	0		Min. therm. 37.7. Heavy dew.			
26		0		0		0	NW	0	SW	0	S	0		Day pleasant.			
27	NW	4	N	5	10		10	SW	1	N	3	N	+	10 A.M. 6.04	Stormy. 8. Min. therm. 49.0.		
28	ENE	4	E	4	1		1	N	3	NW	0	N	0		Day cloudy. Occasional glimpses of the sun before and after but not at the annular phase. 8. Min. therm. 49.0.		
29	NNW	7		3		6	N	0	NNW	3	NNW	0		Mostly fair. 8. Min. therm. 53.0.			
30	NW	2		3		4	NNW	0	WNW	2	WNW	0		Pleasant. cloudy more or less in P.M.			
31		0		2		0	N	0	N	1	N	0		Pleasant.			
													163 5.29	147 4.74	143 4.61	SCALE OF WINDS (See page 409)	9.455
													WINDS FOR THE MONTH	MONTHLY EXTREMES			
													N 5	4	13		
																Fine. Atmosphere in A.M. very transparent. Wind at 11 A.M. N.E. Slight frost. 8. Min. therm. 35.2.	

SCALE OF WINDS (See page 409).  
WINDS FOR THE MONTH  
N 5 4 4 13  
NE 1 1 1 3  
E 0 1 1 2  
SE 5 4 3 12  
S 11 7 10 27  
SW 2 2 4 8  
W 9 5 2 10  
NW 3 5 5 13  
N 5 4 2 13  
7 A.M. 2 P.M. 9 P.M. W.M.  
MAXIMA  
7 A.M. 2 P.M. 9 P.M. MONTH  
78.7 81.7 85.3 81.3 78.6 81.1 79.0 85.0  
THERMOMETER 63.4 80.4 66.0 67.5 72.5 27.8 26.5 32.0  
HUMIDITY

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## METEOROLOGICAL OBSERVATIONS.

DATE.	Barometer reduced to 32° F. and attached Thermometer.								THERMOMETER.					FORCE OF VAPOR		PSYCHROMETER.				RELATIVE HUMIDITY							
									MEAN					7 A.M.		9 P.M.		INCHES		7 A.M.		9 P.M.		7 A.M.		9 P.M.	
									BAROM.	ATT. THERM.	COR. BAR.	BAROM.	ATT. THERM.	COR. BAR.	BAROM.	ATT. THERM.	COR. BAR.	MEAN	7 A.M.	9 P.M.	MEAN	7 A.M.	9 P.M.	W.B.	D.B.	W.B.	D.B.
1	747	44½	692	711	62½	621	738	62½	647	653.3	41.7	67.7	50.1	53.17	223	194	226	41.7	68.0	50.1	53.99	525.7	445	84	28	61	
2	747	45	743	630	70½	520	591	67	489	584.0	49.9	75.0	56.0	60.20	336	227	307	49.9	75.0	56.0	79.0	570.5	10	93	26	68	
3				567	74½	446	590	72	477	462.0	46.0	83.0	63.0	64.00	311	254	353	46.0	83.0	63.0	450	613.6	1	91	22	63	
4	555	630	464	449	70	340	431	72½	316	373.3	53.7	81.2	63.0	65.77	358	258	459	53.7	81.2	63.0	51.7	630.5	74	87	20	80	
5	435	64	341	377	74	257	433	74	313	303.7	54.0	82.0	67.7	67.90	391	361	465	54.0	82.0	67.7	53.0	638	615	93	28	68	
6	499	68½	394	469	73½	351	502	72½	486	410.3	57.0	77.3	63.0	65.77	436	567	357	57.0	77.3	63.0	56.0	78½	575	93	57	56	
7	422	66½	322	383	72	258	401	72	386	322.0	62.1	74.0	67.0	77.70	459	414	512	62.1	74.0	67.0	57.0	702	627	82	62	77	
8	318	68½	212	218	70	119	186	70	077	136.0	64.0	69.8	63.8	65.86	540	608	554	64.0	69.8	63.8	62.8	679	628	88	91	94	
9	185	67½	084	204	72	094	270	69½	161	113.0	64.1	74.4	58.0	65.50	561	587	450	64.1	80.0	58.0	63.0	640.5	70	94	54	93	
10	337	60	254	570	66	471	577	64½	482	402.3	53.1	63.0	56.7	57.60	353	358	391	53.1	63.0	56.7	57.3	705	743	86	66	85	
11	587	63.0	446	536	71½	426	572	69	463	461.7	57.1	67.5	56.9	60.50	379	418	435	57.1	67.5	56.9	54.2	608	560	82	61	94	
12	580	61½	413	393	71½	283	375	68	272	322.7	52.5	72.3	59.8	61.53	408	438	425	52.5	72.3	59.8	52.0	642	569	97	48	83	
13	355	61½	270	225	71	114	319	71	208	197.3	54.1	77.0	62.1	64.40	405	427	445	54.1	77.0	62.1	53.3	662	570	96	89	88	
14	334	66½	233	306	72.0	191	376	71½	245	229.7	57.8	76.5	61.0	65.10													
15	338	65½	241	291	70½	179	352	71	241	220.4	59.0	75.2	65.0	66.40													
16	447	67½	344				663	66½	563	453.5	58.5	78.0	63.0	60.50													
17	722	58½	443	643	67	571	626	66½	526	570.0	44.0	68.2	54.0	55.40													
18	618	59½	537	529	70	400	457	71	350	429.0	50.1	78.5	62.0	63.53													
19	452	61	366	402	73½	284	440	72	325	325.0	53.5	78.5	64.1	66.03													
20	474	64	380	470	75	348	503	72.0	388	372.0	55.0	75.2	57.8	62.67													
21	500	60	417	470	70	361	558	70	449	409	51.3	72.8	62.1	62.77													
22	611	65½	514	603	67	501	634	66½	534	516.3	59.0	70.2	59.0	62.73													
23	532	62½	442	494	66½	394	449	70	340	392.0	57.6	61.0	57.2	58.60													
24	325	62	287	292	69.0	185	336	68½	231	217.7	56.9	70.0	57.9	61.60													
25	418	66	319	437	67	335	502	64	408	354.0	57.8	61.9	48.2	55.97													
26	553	60	470	413	66	314	402	65	306	363.3	42.7	68.0	60.0	56.90													
27	459	64	365	520	70	411	509	70	400	392.0	59.8	71.0	66.8	65.87													
28	400	68	296	250	74½	129	338	74.0	218	214.3	45.0	69.0	66.7	66.90													
29	467	65½	370				438	70½	328	349.0	56.8	73.2	59.8	63.27													
30	450	66	351	289	67½	186	346	351	247	261.4	61.4	62.0	59.3	60.90													
31																											
SUMS	11210				9057			10897	62733.2	1657.5	21654	18010	187463														
MEANS	38655				32354			36323	35777	55350	72180	60033	62487														

Notice: The noon of the 3rd, I used one of Green's thermometers, situated on east side of the house, for external thermometer instead of the reading of the dry bulb. Thermometer. The two instruments read exactly alike in water of even temperature.

## DARTMOUTH COLLEGE,

June

1854

DATE.	CLOUDS.				WIND.				PRECIPITATION.				REMARKS.
	Kind.	Amt.	Kind.	Amt.	Kind.	Amt.	Dir.	Amt.	Kind.	Amt.	Kind.	Amt.	
1		0		1		0	N	0					Fair. College vans at 12 A.M. S.E. & min. therm. 34.5. Frost, a little heavier than previous A.M.
2		0		1		0	NNW	0					Pleasant.
3		0		3		0	W	0					Pleasant. Atmosphere hazy & min. therm. 44.9.
4		3		4		0	SSE	0					Pleasant. Atmosphere very hazy.
5		3		1		0	SW	0					Pleasant and hot. Very hazy.
6		3		4		0	WNW	0					Pleasant.
7		10		5		0	ESE	0					Cloudy. One or two drops of rain in A.M.
8		10		10		0	SE	0					Cloudy and partly rainy. Lightning in the S.W. at 9 P.M. & min. therm. 65.2.
9	S 3	10	W 3	8	N 4	10	ESE	1	SW	1	N 4 E	2	Cloudy. Evening rainy & min. therm. 62.7 (previous night).
10		10		10		0	N	0					Cloudy and cool.
11	N 2 W 4	10		10		0	N	0					Cloudy, began to clear up at 4 P.M. in the E. & min. therm. 53.3.
12		10		3		0	N	0					Pleasant. & min. therm. 50.8. Bright Aurora at 10 P.M.
13		10		4		0	NNW	0					Pleasant. Slight thunder showers at 5 P.M. & min. therm. 52.0.
14		9		8		0	ENE	0					Thunder shower intervening. & min. therm. 56.5.
15		10		10		0	NNE	0					Very hazy.
16		10		10		0	NW	0					Dense smoke through day, enlightening over the whole region, coming apparently from the north.
17		10		8		0	NNW	0					Smoke less dense than previous day obscured by smoke and hot by clouds.
18		9		8		0	NNW	0					& min. therm. 46.0.
19		10	WNW 4	10		0	NNW	0					Pleasant but little smoke. min. therm. 54.0.
20		10		5		0	N	0					Pleasant. Smoke cleared up at noon.
21		10		10		0	N	0					& min. therm. 52.5.
22		10		10		0	SSE	2	SSE	0	SSE	0	Less hazy than before.
23		10	SE 6	10		0	SSE	0					Cloudy.
24		10	NW 4	10		0	SSE	0					Stormy.
25	N 6	10	N 5	8		0	N	3					Shower in P.M. sky occasionally partly clear. & min. therm. 56.0. Rain previous day and night about 0.58.
26		10	NNW 5	8		0	N	0					Cold. Cloudy till sunset.
27		10	S 5	8		0	E	0					Occasional showers after 4 1/2 P.M. & min. therm. 41.4.
28		10		10		0	S	2					Pleasant. & min. therm. 28.0.
29		0		7		0	NNW	0					Afternoon variable.
30		10	S 5	10		0	NW	8					Sky clouded over about noon.
31													Drizzling rain through day. Cloudy, thin in evening. & min. therm. 57.0.

WINDS FOR THE MONTH.				SCALE OF WINDS (See page 409).				MONTHLY EXTREMES			
7 A.	2 P.	9 P.	W. RESULTANT.	MAXIMA	1st	MINIMA	7 A.	2 P.	9 P.	W. RESULTANT.	MINIMA
N 10	11	10	31	74.3	62.1	64.7	65.30	084	094	077	1130
NE 1	1	0	2	65.0	60.6	67.7	77.2	41.7	61.0	48.2	53.17
E 3	0	2	5	34	32	24	23				
SE 5	5	6	16								
S 1	3	0	4								
SW 1	3	3	7								
W 2	3	1	7								
NW 7	4	8	19								
N											
MEAN											

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## METEOROLOGICAL OBSERVATIONS.

DATE.	Barometer reduced to 32° F. and attached Thermometer.				THERMOMETER.				FORCE OF VAPOR				PSYCHROMETER			
	7 A.M.	8 P.M.	9 P.M.	MEAN.	7 A.M.	8 P.M.	9 P.M.	MEAN.	7 A.M.	8 P.M.	9 P.M.	MEAN.	7 A.M.	8 P.M.	9 P.M.	MEAN.
1	562	637	469	576	69	695	524	608	572	720	583	625	572	652	583	608
2	764	64	670	673	67	750	579	71	407	569	520	780	672	570	634	643
3	308	64	414	429	79	256	343	76	218	296	565	827	70	697	70	697
4	400	74	380	313	81	175	289	80	152	202	480	890	773	7810		
5	340	77	211	376	82	235	479	74	359	26	83	725	829	660	7360	
6	535	66	436	533	76	408	673	72	357	4670	560	795	651	6687		
7	679	66	579	630	75	508	624	74	504	530	3	590	799	676	6890	
8	602	70	493	557	75	428	576	77	447	4560	565	820	745	7100		
9	483	750	361	386	80	250	484	76	257	289	3	727	80	710	7457	
10	585	69	477	676	74	453	584	67	481	4710	640	742	595	6590		
11	618	63	526	560	72	445	563	70	453	4747	561	790	610	6503		
12	636	64	461	514	73	0397	663	72	548	4687	550	748	648	6153		
13	783	63	461	774	69	464	757	70	647	6673	531	730	590	6170		
14	733	65	637	669	68	565	659	66	537	5780	580	638	610	6260		
15		612	72	426	72	537	5145	600	786	650	6787					
16	719	67	617	659	75	537	687	75	565	5720	620	857	685	7187		
17	686	70	570	583	78	453	584	75	460	4963	670	860	685	7833		
18	700	61	613	541	76	416	528	72	413	4807	622	819	600	6050		
19	499	63	408	416	73	299	441	79	308	3383	565	870	760	7317		
20	458	72	343	410	85	261	435	81	296	3000	660	892	765	7723		
21	497	75	374		630	765	504	4390	725	865	725	7717				
22	653	70	543	609	79	476	725	76	569	5727	636	812	710	7193		
23	641	74	521	597	77	469		4958	715	830		715				
24	623	75	500	625	79	491	544	75	422	4710	730	790	700	7367		
25	566	70	448	483	79	350	480	80	324	3740	685	801	758	7477		
26	415	77	287	408	84	262	470	80	334	2943	740	850	752	7807		
27	548	72	433	652	75	530	776	70	665	430	650	717	627	6290		
28	764	63	673	640	75	578	611	70	502	5643	510	780	528	6393		
29	525	67	423	383	74	263	328	74	207	2967	686	784	709	7097		
30	414	70	304	580	74	579	600	72	485	4227	70	747	615	6873		
31	749	65	553	601	74	480	613	73	496	5097	530	795	638	6543		
Sums	14321		12540		13562	13957	19350	24789	20132	209087						
Means	47737		41800		45207	45023	62419	79464	67107	64696						

From the 9th to the 30 inclusive,  
Psychrometer readings should  
advance a day. Readings for the  
10th should be for the 11th.

## DARTMOUTH COLLEGE,

July

1854

DATE.	CLOUDS.				WIND.				PRECIPITATION.				REMARKS.
	Kind.	Amt.	Kind.	Amt.	Kind.	Amt.	Kind.	Amt.	Kind.	Amt.	Kind.	Amt.	
1	N 5	4	N 5	3		0	NW	2	NW	3	NW	0	Pleasant. & min. therm. 57.0.
2		1		0		10	NW	0	NW	2	NW	0	Fine. & min. therm. 48.2.
3		CS		6		1	NW	0	NNW	0	NNW	0	& min. therm. 56.0. Day fine. Weather hot.
4		10	WSW	4		10	W	0	SSW	3	WSW	-	Pleasant. Thunder shower 7.5 PM. & min. therm. 65.0.
5		6	WSW	4		0	W	0	NW	3	N	0	Fine. & min. (previous night) therm. 70.0.
6		0	NW	4		0	N	0	NNW	3	NNW	0	Fine. & min. therm. 55.0.
7		2	W	1		1	NNW	0	NW	0	W	0	Fine. & min. therm. 56.5.
8		8		8		3	W	0	S	2	S	3	Fine. College vans at 7 A.M. was 3.
9		10		10	N 2	2	S	2	S	2	N	0	Pleasant. & min. therm. 69.9.
10		10		1		0	NW	0	NW	0	NW	0	Fine. Auroral appearance in north at 7 P.M. and after.
11		F		0		1	NW	0	NW	0	WSW	0	Fine. Sky almost cloudless through day. & min. therm. 53.0.
12		1	W 2	8		0	WSW	0	WSW	0	N	3	Pleasant. Sprinkled at 2 P.M. & min. therm. 57.2.
13		1	W 3	7		10	N	0	NNE	2	NW	0	Pleasant. & min. therm. 50.0.
14		10		10		10	NW	0	SE	2	SE	0	Cloudy.
15		10		1		0	SE	0	SE	0	SE	0	Cloudy till 10 A.M. & min. therm. 59.0.
16		2		0		0	SE	0	S	1	S	0	Pleasant. & min. therm. 57.2.
17		0		2		0	S		S	0	SW	0	Pleasant but hot. & min. therm. 64.0.
18		10		0		2	NNW	0	NNW	2	NNW	0	
19		3		0		1	N	0	S	0	SSW	0	Pleasant. Hot. & min. therm. 53.0.
20		2		3		1	S	0	S	0	S	0	Hot. & min. therm. 60.0.
21		F		0		0	S	0	S	0	S	0	Hot. & min. therm. 68.0.
22		0		7		10	S	0	SE	2	NW	2	A little cooler. Thunder shower in evening. & min. therm. 61.0.
23		10		5		10	S	0	S	0	S	0	Pleasant.
24		10		7		10	S	0	S	0	S	0	Less hot. Rain commenced in the evening.
25		10	SW 2	4	SW 4	7	S	0	S	0	S	2	Hot. Passing clouds in the evening. & min. therm. 67.0.
26	S 4	8				4	S	1	S	0	SW	4	& min. therm. 71.3. Cooler in P.M.
27	SW 4	6		4		0	WSW		NW	3	N	0	Pleasant and cool. & min. therm. (previous night) 67.0.
28		7		0		1	N	0	N	3	S?	0	Fine. & min. therm. 47.8.
29	WSW 3	8	W 5	7		10	SW	0	WSW	3	SW	3	Cloudy but no rain. & min. therm. 58.0.
30	N 4	2		0		2	N	3	NNW	3	NNW	0	Pleasant and cool. Wind fresh till 3 P.M.
31		1		0		0	NNW	0	NNW	2	NNW	0	Fine. Comfortably cool. & min. therm. 57.0.

SCALE OF WINDS  
WINDS FOR THE MONTH (12 MONTHLY EXTREMES)  
7 E 9 W  
N 8 4 6 15 BAROMETER 69.464 69.7 66.73 211 73.152 202.4  
NE 0 0 0 0 THERMOMETER 74.0 82.7 73 78.1 51.0 68.5 52.7 61.53  
E 0 0 0 0 HUMIDITY 25 25 25 25 25 25 25 25  
SE 2 3 2 7  
S 8 12 10 30  
SW 3 2 4 9  
W 4 1 2 7  
NW 6 9 7 22

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## METEOROLOGICAL OBSERVATIONS.

DATE.	Barometer reduced to 32° F. and attached Thermometer.				THERMOMETER.				Min.	PSYCHROMETER.						RELATIVE HUMIDITY
	7 A.M.	8 A.M.	9 A.M.	10 A.M.	7 A.M.	8 A.M.	9 A.M.	10 A.M.		7 A.M.	8 A.M.	9 A.M.	10 A.M.	11 A.M.	12 M.	
1	57.2	65.2	47.5	38.2	79	24.9	36.2	0	58.0	87.3	76.0	56.5	72.5	72.0		
2	28.2	75.2	14.9	30.0	81	16.3	45.0	74	330	217.7	72.0	82.1	69.0	74.37		
3	50.6	67	40.4	45.4	70.3	84.1	38.7	72	272	339.0	52.0	78.0	63.0	63.67		
4	32.1	66.2	22.1	28.6	73	17.0	35.0	73	233	208.0	62.1	71.5	62.0	65.20		
5	44.0	67	33.8	43.2	76.3	30.6	45.3	73.5	335	326.3	56.0	19.5	63.2	66.23		
6	41.9	67	31.7	27.7	75	15.6	32.3	71	211	228.0	58.0	79.0	61.2	66.07		
7	56.5	69	25.8	39.1	68	28.7	54.7	67.8	444	329.7	56.0	69.0	59.0	61.33		
8	62.3	64	52.9	65.7	68.5	54.5	72.9	63.0	633	569.0	53.5	70.5	57.0	58.33		
9	79.8	54.3	72.6	74.0	64.2	64.6	74.3	67.8	639	670.3	40.0	74.3	60.0	60.13		
10	78.0	60.0	69.7	71.0	67.0	60.8	79.1	67.0	589	631.3	50.9	72.7	61	61.53		
11	68.2	65.7	58.5	57.3	71.0	48.1	61.8	73	501	522.3	59.2	75.7	62.7	65.87		
12	61.9	69	57.2	52.8	78.0	39.8	48.0	75.0	358	422.7	66.8	79.2	69.7	71.90		
13	38.8	73	27.1	28.0	76.5	15.3	34.8	77	221	215.7	71.5	84.1	69.7	75.70		
14	49.8	70.5	38.8	58.6	70.7	47.5	60.6	67.4	584	453.7	59.5	19.0	52.9	60.47		
15	56.5	59.5	48.4	35.9	66	26.0	38.6	62.5	297	347.0	46.0	65.8	58.8	56.87		
16	43.9	63.5	34.6	40.6	75.2	28.3		314.5	57.6	77.3				67.75		
17	53.2	65.1	43.5	45.3	68.2	45.7	52.3	66.8	422	436.0	56.2	73.9	58.7	62.93		
18	64.7	62.1	55.9	62.9	68.2	52.4	67.3	68.1	569	550.7	46.7	73.1	54.2	58.00		
19	70.9	60.3	62.5	60.2	67.9	49.8	58.8	72.3	473	532.0	49.2	81.5	70.0	66.90		
20	57.6	67.1	41.4	41.2	71.2	29.9	54.3	70.3	420	377.7	63.0	84.2	68.7	71.97		
21	67.9	65.2	58.2	59.3	70.1	48.4	47.1	73.0	337	473.0	53.9	78.2	66.2	66.10		
22	34.2	72.2	23.7	44.8	78.8	31.6	67.5	73.4	537	366.7	70.2	78.9	59.7	69.60		
23	78.1	61.5	69.3	69.3	71.3	58.0	66.3	70.2	534	609.0	48.0	76.3	63.7	62.67		
24	50.7	66.4	40.7	30.2	76.4	17.6	32.8	32	187	256.7	63.4	87.2	81.5	77.37		
25	48.3	72.7	36.7	53.6	77.0	40.8	58.0	72	465	413.3	63.0	76.4	58.6	65.00		
26	58.8	67.5	48.5	47.9	69	37.2	49.3	68	389	415.3	53.0	67.5	59.0	59.83		
27	56.8	66	46.9	63.3	68	52.9	73.4	70	625	541.0	57.9	65.8	53.1	58.93		
28	81.4	64.5	71.8	80.6	71.0	69.3	86.3	71.0	751	720.7	48.5	72.1	57.0	59.20		
29	88.0	62.5	79.0	77.8	71.0	66.6	76.2	70.9	658	702.0	45.0	73.8	59.1	59.30		
30	70.8	60.7	62.3	59.4	71.2	48.1	58.8	75	466	523.3	47.9	79.6	70.0	65.83		
31	65.3	70	54.6	66.6	78.7	53.4	74.1	75	619	566.3	64.5	81.0	68.0	71.17		
SUMS	1465	12285			13316	12443.9	17556	23597	19867	202315						
MEANS	47.261	40.930			44.387	44.010	56.613	76.120	66.223	65.263						

## DARTMOUTH COLLEGE.

August

1854

DATE.	CLOUDS.				WIND.				PRECIPITATION.			REMARKS.
	Kind.	Amt.	Kind.	Amt.	Kind.	Amt.	Dir.	Amt.	Dir.	Amt.	Dir.	
1	NW 1	9		7	WNW 4	10	NW	0	WSW	0	SW	Wind shifted S. about 8 1/2 P.M. Day warm.
2		0		0	NW 6	3	NW	3	NW	6	NW	6. Min. therm. 52.1
3		2	W 3	5		10	N	0	WNW	2	WSW	Cool and windy. A.M. clear. At sunset much smoke from the North. 4. Min. therm. 66.3
4		10	WNW 3	7		0	W	0	SSW	2	NNW	Fine. Clouded over just after sunset. 6. Min. therm. 58.0
5		10		0	W 3	8	W	0	W	0	W	Fine in P.M. Threatening rain in A.M. 8. Min. therm. 59.5
6		0		8	W 6	4	SW	0	SW	2	N	Pleasant. Clouded over at 8 P.M. Greenish fine. Shower passed. 10. Min. therm. 53.3
7		2	W 4	10	W 2	9	N	3	NW	2	NW	Around us from 4 to sunset. Min. barom. at 5 P.M. 26.9. Evening most glorious. 4. Min. therm. 52.5
8		0	W 2	4		0	N	2	N	0	N	Pleasant. Atmosphere in A.M. therm. 52.5 remarkably transparent. Clouds in P.M. therm. 52.6
9		3		1		0	N	0	SE	1	SE	6. Min. therm. 47.5
10		5		10	WSW 2	10	SE	0	SE	2	SSE	Pleasant. Gentle wind occasionally mild. Temporary clouds at sunset. First on the flats, killed the buckwheat crops. 8. Min. therm. 46.0. Clouded over in P.M. 8. Min. therm. 52.0. Pleasant. 10. Min. therm. 52.0
11	WSW 2	10	Sk E 2	7		4	SSE	0	SSE	0	SSE	though half obscured by clouds. 8. Min. therm. 50.0. Day pleasant. Two or three drops of rain at 8 A.M.
12	SSW 2	10	WNW 5	5		2	SSE	0	SSW	3	S	8. Min. therm. 65.2. Min. barom. at 4.10 P.M. 26.2. 78. Shower passed around us at 4 P.M. Only one or two drops of rain here.
13		10	WSW 4	3		1	S	0	S	2	WNW	8. Min. therm. 56.5. Day pleasant. A refreshing breeze most of day. Evening calm. 8. Min. therm. 41.8. Smoke atmosphere after fog cleared up. Slight shower about 4 P.M.
14		1		0		0	N	4	NNW	3	NNW	Minimum 49. 5.1
15		10		10	NW 2	1	NNW	0	SW		NW	Min. 41.4
16		0		2		0	W		W		W	Min. 43. Smoky. Dusty in evening. 4.1
17		6	SW 2	1		0	NW		SW		W	Min. 48. Very hazy. Rain in P.M. 4.2
18		0		1		0	W		W	3	W	Min. 50. Very smoky. Smoke hazy and smoky. 6.1. Thanks to sun hardly seen. 4.3
19		0		1		0	SW		SW		SSW	Min. 46. Very smoky. Therm. at 4.7. 10 P.M. on E. side of house. 4.4
20		1		4		2	S		SW	3	W	Min. 59.7. Very smoky. 4.5
21		0		0		0	N		W		SW	Min. 51.0. Smoky. Lightning at 7 1/2 P.M. Occasional droppings of rain in A.M. 4.6
22		0		3		2	S		NW		N	Min. 56.0. Dense smoke all over neighborhood. 4.7
23		2		3		8	N		NE		NE	Min. 46.0. Smoke cleared off in A.M. 4.8
24		2		1		10	SW		S		S	Min. 43.7. Day fine. Air clear. Auroral arch of 2° elevation over the north. 4.8. Day fine. Brilliant (at 12 P.M.) 4.9
25		3		0		10	N	2	NNW	2	NNW	Min. Meteor in the SW at about 7 1/2 P.M. near star 2/3 of distance from Mars to the moon. 5.0
26		10		10		10	N	6	E	2	NNE	Min. 62.0. Day pleasant. Threatening rain in evening. 5.1
27		10		10		3	ENE	0	ENE	1	SSE	
28		10	N 2	10		0	ESE	0	Sk E	2	Sk E	
29		0		0		0	Sk E	1	SW	2	S	
30		0		0	WNW 3	7	S		Sk W	3	SSW	
31		10	NW 4	7		8	S	0	N	3	N	

SCALE OF WINDS (See page 409).

WINDS FOR THE MONTH.

N 9 2 6 17

NE 1 2 1 4

E 1 1 0 2

SE 3 3 4 10

S 6 6 6 18

SW 3 7 4 14

W 4 5 5 14

NW 4 5 5 14

N 9 2 6 17

Copied by S. I. Moore

Observer Albert A. Young.



## METEOROLOGICAL OBSERVATIONS.

DATE.	Barometer reduced to 32° F. and attached Thermometer.			THERMOMETER.				PSYCHROMETER HYGROMETER.							
	7 A.M.	2 P.M.	9 P.M.	7 A.M.	2 P.M.	9 P.M.	MEAN	7 A.M.	2 P.M.	9 P.M.	MEAN	D. B.	W. B.	D. B.	W. B.
1	78.2	67.2	68.0	80.7	68.7	70.0	77.9	66.6	68.2	68.7	60.5	57.1	55.3	59.0	56.2
2	72.0	64	62.6	68.2	65.9	58.2	59.7	65.4	40.0	53.6	53.5	58.8	57.0	57.0	57.10
3	56.4	64	47.0	57.0	68.3	40.6	59.7	72.0	48.2	45.2	7.0	79.7	64.1	68.6	60.0
4	69.2	65.6	59.5	60.0	73	48.3	58.8	72.5	47.2	51.6	57.5	77.8	65.5	66.9	62.6
5	57.0	69.0	46.3	47.7	73.7	35.8	48.4	81.0	34.6	38.9	63.7	88.0	76.0	75.1	73.0
6	50.3	74.7	38.2	42.4	88.1	26.7	42.4	72.5	30.8	31.9	68.1	90.0	67.5	79.0	67.0
7	44.4	74.0	32.4	47.7	78.0	34.7	57.0	70	46.1	37.7	67.0	75.4	63.0	68.4	67.4
8	67.6	63.0	58.5	54.1	77.7	40.9	46.8	70	35.9	45.0	49.9	73.6	65.7	63.4	61.0
9	35.0	68.5	44.5	53.2	64.7	23.1	54.9	66	45.0	30.8	40.4	59.6	55.1	58.8	53.0
10	54.8	62.3	45.9	55.8	70	44.5	70	65.0	47.4	46.0	50.0	61.0	45.0	52.0	43.1
11	62.0	63.8	52.6	59.5	69.0	48.8	57.9	69.0	47.2	48.3	39.0	63.0	48.8	50.2	46.8
12	45.6	61.1	37.0	39.4	68.6	28.9	48.4	68.7	37.8	34.5	57.0	68.0	59.0	60.3	58.0
13	76.4	58.3	68.5	81.0	71.9	70.8	48	65.7	75.0	71.7	47.0	60.4	44.0	50.4	42.0
14	84.1	58.1	76.3	78.4	70.9	67.4	60.5	69.1	49.8	64.5	41.1	53.6	53.0	40.8	51.8
15	46.4	63.7	37.1	54.1	67.0	39.9	65.5	68.0	53.7	45.0	54.0	60.1	46.3	55.5	43.6
16	77.3	62.3	68.3	71.1	68.9	61.0	80.7	67.7	70.5	66.6	36.8	56.8	45.1	36.0	46.1
17	94.2	58.5	86.2	88.8	72.0	77.1	88.1	65.5	78.2	80.5	36.8	58.5	43.0	36.0	47.2
18	85.8	61.2	77.1	70.0	70.0	59.0	69.4	69.1	48.7	61.0	36.1	67.3	40.1	54.4	56.0
19	38.6	65	29.0	29.6	70	18.7	17.8	71.2	06.7	18.3	60.9	67.5	64.0	64.3	63.5
20	102	65.8	90.5	41.6	67.5	31.3	62.6	63.0	53.5	28.4	35.7	53.0	44.0	51.6	39.6
21	81.8	55.2	73.7	79.4	65.0	69.8	86.0	59.3	77.7	73.7	30.3	50.0	36.0	29.0	42.2
22	98.7	53.8	92.0	1.00.4	65.2	90.5	97.2	60.5	87.6	90.8	33.1	56.5	41.0	43.0	49.2
23	91.2	55.0	83.1	74.2	64.7	64.6	65.6	69	54.9	67.5	33.2	66.3	50.0	32.5	48.0
24	60.1	61	57.5	53.0	68.0	42.6	57.1	68.0	40.7	44.4	45.5	70.3	56.0	45.3	54.0
25	49.9	62.0	31.1	44.0	67.7	33.7	48.3	68.0	87.9	54.2	35.7	69.5	63.1	50.9	63.2
26	52.5	61.7	43.7	50.4	73.2	38.6	52.8	71.1	41.6	41.3	53.0	75.0	60.1	62.7	62.0
27		39.8	73.0	28.1	39.4	73.1	27.7	27.9	0	59.5	77.1	67.5	68.0	68.0	68.0
28	50.0	67.1	49.8	44.4	73.8	37.5	60.3	70.3	49.3	45.3	61.0	70.0	56.0	62.3	64.4
29	72.3	56.5	64.9	79.1	69.3	68.9	92.4	70.8	81.4	71.5	42.5	54.6	40.0	45.7	70.0
30	97.8	58.4	89.8	86.0	75.4	73.4	82.4	68.0	71.9	78.4	31.7	54.1	47.0	44.2	47.0
31															

Barom. 15.952 147.64 15.366 154.539 149.66 177.24 164.02 170.31  
 Mean 55.006 49.213 57.220 57.523 49.887 65.747 54.673 56.770

## DARTMOUTH COLLEGE,

September

1854

DATE.	CLOUDS.				WIND.				PRECIPITATION.				REMARKS.	
	7A.M.		2PM.		9PM.		7AM.		2PM.		9PM.			RAIN AND MELTED SNOW HOUR. HOUR. AMOUNT BEGAN ENDED INCHES
	Kind.	Amt.	Kind.	Amt.	Kind.	Amt.	Dirac.	Amt.	Dirac.	Amt.	Dirac.	Amt.		
1		10	S 4	10	S 4	10	NE	0	S	1	S	2	A.M.	Rainy most of day. Thermometer sinking through day.
2	S 6	10		10		10	S	1	S	0	S	0	11PM. 12M. 0.300	Min. therm. 54.5. Morning stormy clouds low in P.M.
3		10	NNW 5	4		1	N	0	WNW	3	N	0		Min. therm. 55.5. Pleasant.
4		10	F	3		0	NNW	0	WNW	0	WNW	0		Min. therm. 54.4. Fine
5		2	F	1		0	SSW	0	SW	3	SW	0		Min. therm. 61.9. Therm. at 3PM. 88.5
6		1		1		10	S	0	S	3	N by E	2	9 1/2 A.M. 10 1/2 P.M. 0.336	Min. therm. 65.5. Heavy storm of wind from 3-4 P.M. Wind veering from S by W to N by W
7	SSW 5	10	K	0		0	N	0	N	3	N	0		Therm. at 3 1/2 P.M. 75.5
8	WNW 5	3	CS	0		10	N by W	0	S	1	S by W	0	10 1/2 P.M.	Min. therm. not as low as 65.5. Day fine.
9		10	NE 4	10	WNW 4	8	NE	1	NE	2	N	0	1 1/2 P.M. 2.809	Min. therm. 49.5. Day pleasant.
10		9	N 1	5		5	N		SE	2	SE			Amount of rain by 7 1/2 P.M. 1.90
11		10	F	0		5	SE	0	SSW	1	SSW	0		Min. therm. 48.8. Sky cleared up about sunset.
12		9		10		0	SSW	2	SSW	0	WSW	0		Min. therm. 36.0. Day pleasant. No frost.
13	W 4	5		0		0	NNE	2	N by E	0	N by E	0		Min. therm. 46.5.
14		9		10		10	N	0	SSW	0	S by W	2	1 1/2 M.	Min. therm. 47.0. Auroral arch and streamers 9-9 1/2 P.M.
15		10	N 6	10		0	S by E	0	NNW	2	NNW	0	A.M. 0.320	Pleasant. Min. therm. 35.9. Light frost. Fine and atmosphere very transparent.
16		0		0		0	NNW	0	NW	3	NW	0		Min. therm. 32.1. Frost. Fine Auroral streamers at 11 P.M. springing up from the northern horizon.
17		2		1		0	NNW	0	NW	1	NW	0		Min. therm. 32.0. Frost. Pleasant.
18		2	W 4	6		10	WNW	0	S by E	3	S by E	3	10 1/2 AM 11 1/2 P.M. 0.600	Min. therm. 55.0. Weather unpleasant. Thundering
19		10	W 6	10	WNW	10	SSW	2	SW	2	SW	0	11 AM. 12 P.M. 0.240	
20		0	NW 5	4	NW 5	2	W	2	NW	3	NNW	4		Min. therm. 29.5. Day pleasant.
21		10	F	2		0	N by W	0	N by W	0	NW	0		Low but bright aurora seen in the north at 9 P.M.
22		10	F	0		0	NW	0	WSW	1	WSW	0		Min. therm. 31.5. Heavy frost.
23		10	F	0		1	S by W	0	WSW	0	WSW	0		Min. therm. 32.0. Heavy frost. Day beautiful.
24		4		1		10	SW	0	SW	0	SW	0		Min. therm. 41.0. Clouded over in P.M.
25		10	CS	10		8	SW	0	S by W	0	S by W	0		Min. therm. 47.5.
26		4	WSW 3	4		0	S by W	0	S by W	2	S by W	0		Min. therm. 52.3. Pleasant. Bright Auroral arch.
27		10	WNW 4	4		3	S by W	0	S by W	2	S by W	0		Min. therm. 53.5. Pleasant and warm.
28		0	WNW 4	3		1	NNW	3	NW	3	NW	0		Pleasant.
29		0		2		0	N by W	0	NW	3	NW	0		Min. therm. 41.0. Pleasant. Strong wind in P.M.
30		0		9		10	N by W	0	NW	3	N by W	0		Min. therm. 27.2. Pleasant. Clouded over at sunset.
31														
	180	128	4.27	133	4.43	SCALE OF WINDS (See page 409)				MONTHLY EXTREMES				
						WINDS FOR THE MONTH				MAXIMA MINIMA				

SCALE OF WINDS (See page 409).  
 WINDS FOR THE MONTH  
 N. 9 4 6 19  
 NE. 2 1 0 3  
 E. 0 0 0 0  
 SE. 1 1 1 3  
 S. 9 11 9 24  
 SW. 2 5 6 13  
 W. 2 2 1 5  
 NW. 5 6 7 18  
 N. 9 4 6 19  
 MEAN

MONTHLY EXTREMES  
 MAXIMA MINIMA  
 7 A.M. 2 P.M. 9 P.M. MONTH 7 A.M. 2 P.M. 9 P.M. MONTH  
 BAROMETER 12.0 90.5 87.6 70.0 0.05 187.0 67.1 81.3  
 THERMOMETER 68.1 96.8 76.0 75.0 30.3 50.0 36.0 38.7  
 HUMIDITY 6 6 5 5 21 21 21 21

Copied by E. J. Moore  
 Observer Albert A. Young



## METEOROLOGICAL OBSERVATIONS.

DATE.	Barometer reduced to 32° F. and attached Thermometer.				THERMOMETER.				PSYCHROMETER HYGROMETER.				THERMOMETER.			
	7 A.M.	8 P.M.	8 P.M.	MEAN	7 A.M.	8 P.M.	8 P.M.	MEAN	7 A.M.	8 P.M.	8 P.M.	MEAN	7 A.M.	8 P.M.	8 P.M.	MEAN
1	629	598	547	439	680	335	188	690	083	32	17	380	517	510	469	491
2	272	675	171	388	682	284	489	652	393	28	20	487	590	410	432	390
3	454	562	381	232	660	134	995	690	897	135	0	370	526	542	951	520
4	1994	600	912	064	646	971	299	610	114	19990	530	579	498	528	529	450
5	548	565	474	716	758	590	813	620	724	5960	421	508	346	400	408	328
6	908	544	839	332	740	711	812	620	723	7577	292	615	490	290	510	452
7	755	551	685	650	725	534	683	660	584	6010	440	687	535	540	572	
8	708	406	623	635	630	543	633	635	540	5687	576	638	558	510	600	5350
9	580	620	412	406	657	310	367	667	267	3297	530	640	625	530	604	580
10	626	603	542	648	635	606	771	680	666	6047	420	576	362	380	442	350
11	665	645	570	522	710	410	520	680	416	4653	428	668	550	418	580	530
12	459	620	371	326	672	225	927	690	221	2723	557	705	620	620	6253	
13	582	60	449	594	67	492	608	630	577	5020	505	582	458	513	440	
14	500	580	422	250	620	163	080	656	984	18970	480	490	462	440	456	
15	016	570	937	975	685	872	911	625	823	18770	412	409	410	386	382	379
16	908	615	823	982	645	889	204	690	099	19370	360	490	420	346	410	386
17	921	590	241	405	656	307	490	650	344	3140	386	427	380	363	410	353
18	520	578	435	449	648	353	543	645	448	4120	292	472	310	340	380	
19	741	587	661	8480	702	737	927	678	24	7407	343	440	310	340	370	300
20	990	556	917	970	717	854	1005	660	904	8917	245	445	300	245	370	290
21	975	528	910	932	667	807	929	538	861	8760	821	472	322	318	318	
22	899	478	847	866	70	755	885	632	791	7977	289	445	362	289	348	
23	976	532	910	931	670	827	975	670	872	8497	332	556	420	338	498	370
24	952	535	885	878	690	769	880	60	795	8163	300	512	360	290	432	340
25	922	506	863	921	692	811	950	618	861	8450	298	589	422	290	512	410
26	1006	538	738	926	640	831	909	60	824	8643	370	590	430	370	523	426
27	902	472	852	877	710	769	872	630	779	7980	351	623	430	351	535	422
28	889	55	818	820	670	717	826	610	739	7580	368	640	446	368	578	448
29	791	58	712	735	757	615	711	702	601	6421	451	650	593	448	612	590
30	668	656	569	614	692	507	604	680	500	5253	590	703	615	590	668	601
31	752	652	355	288	662	190	205	670	104	2168	602	642	590	632	570	
SUMS	17120	14962	15340	158073	12630	17366	14146	147140								
MEANS	55226	48265	49484	50991	40742	56019	45633	47464								

## DARTMOUTH COLLEGE, October

1854

DATE.	CLOUDS.				WIND.				PRECIPITATION.				REMARKS.
	Kind.	Amt.	Kind.	Amt.	Kind.	Amt.	Dir.	Amt.	Kind.	Amt.	Kind.	Amt.	
1		6		10		10	NW	0					Threatening rain. High wind at midnight.
2	NW	5	10	0		0	NW	4	WNW	3	WNW	0	Pleasant. Fresh breeze.
3	WSW	4	8	10		10	SkylE	0	SkylE	3	SkylE	3	Occasional sprinkles thro' day.
4	WSW	4	10	10	WNW	9	SSW	2	SSW	2	W	3	Clouds partially breaking up in P.M.
5	NW	3	8	3		0	NW	1	WNW	0	WNW	0	Clear.
6		0		7		0	WNW	0	SkylW	2	SkylW	0	Pleasant.
7		0		3		0	SkylW	0	W	0	W	0	Fine. Passing clouds in P.M.
8		10		10		10	W	0	W	0	W	0	Breezy, threatening rain.
9		10		10		8	NNW	0	W	0	W	3	Occasional sprinkles through day till 4 P.M.
10		3		0		0	NW	3	N	2	WNW	0	Pleasant.
11		5		8		8	WNW	0	S	2	S	0	Pleasant. Wind shifted by the W about 9 A.M.
12	WNW	4	3	10		10	SkylW	0	SkylE	3	SkylE	0	Forenoon pleasant.
13	N	4	8	4		10	NW	2	NNE	0	NNE	0	Clear first part of evening. Passing clouds through day.
14		10		10		10	SSE	0	SSE	2	SSE	0	Stormy in P.M., threatening in A.M.
15		10		10		10	N	NNW	2	NNW	5	7 P.M. - 1.150	Chilly. Windy. A little rain and a few snowflakes.
16		10		7		10	WNW	2	N	0	W	0	Clear.
17		10		10		10	NW	0	WNW	0	WNW	0	Clear.
18		0		10		10	W	0	S	1	W	0	Clear.
19		7		5		0	NNW	0	NW	0	NW	0	Fine. Snow disappeared from neighboring hills today. Clear migration southward. Snow to the East at 7 A.M.
20		6		0		3	NW	0	NW	0	W	0	Pleasant. Heavy frost.
21		10		4		0	N	0	N	0	N	0	Fine. Frost.
22		10		0		0	NW	0	NW	0	NW	0	Fine. Fog cleared off at 10 1/2 A.M.
23		0		7		10	SSE	0	SSE	0	SSE	0	Heavy frost.
24		0		0		0	SSE	0	SSW	0	SW	0	Clear.
25		10		0		0	W	0	NNW	0	NNW	0	Pleasant. Frost.
26		10		0		0	NNW	0	WSW	0	WSW	0	Pleasant. Fog very dense.
27		10		0		0	WSW	0	WSW	0	WSW	0	Clear.
28		10		0		1	WSW	0	WSW	0	WSW	0	Pleasant.
29	SSE	4	9	84	10	WSW	0	SSE	0	SSE	0	4 1/2 P.M.	Occasional showers through day.
30	34	10	84	10	WSW	10	SkylE	0	SSE	0	SSE	0	showers. Cleared up at 9 P.M. Dried.
31	SSE	3	10	10	SW	56	SSE	2	ESE	0	ESE	2	570 sprinkle at 7 P.M. and through day.

SCALE OF WINDS (See page 409)

WINDS FOR THE MONTH

MAXIMA MINIMA

7 A.M. 2 P.M. 7 P.M. 10 P.M. 1 A.M. 4 A.M. 7 A.M. 10 A.M. 1 P.M. 4 P.M. 7 P.M. 10 P.M.

E. 0 1 1 2 BAROMETER 138.837 904 8911 823 872 823 1.8770

SE. 4 4 4 12 THERMOMETER 602.705 605 6360 245 409 300 3300

S. 4 6 4 14 HUMIDITY

SW. 4 5 5 14

W. 6 7 11 24

NW. 8 4 3 15

N. 5 4 3 12

Copied by G. S. Moore  
Observer Albert A. Young







Barometer reading for Dec. 6.

7:30 A.M.	25.38
9:45 " "	" 50.9
8:30 " "	" 37.3
9:45 " "	" 50.7
10:30 " "	" 48.9
10:57 " "	" 47.9
11:30 " "	" 46.7
12:20 P.M.	" 44.2
1:00 " "	" 42.8
1:35 " "	" 41.6
2:00 " "	" 41.4
2:18 " "	" 41.6
3:00 " "	" 41.1 - min.
6:00 " "	" 41.9
6:40 " "	" 46.37

... fell rapidly the previous night, and continued falling more slowly till 1:30 P.M. Wind began to rise at 4 A.M.

DARTMOUTH COLLEGE, *December* 1854

SCALE OF WINDS (See page 409).		WINDS FOR THE MONTH.			
21-24 MONTHLY EXTREMES		N	13	13	38
21-24 MAXIMUM		NE	0	0	0
7 A.M. 2 P.M. MONTH 7 A.M. 2 P.M. MONTH		E	0	0	2
1.224.1.186.1.147.1.1863.1.538.1.147.1.438.1.463.38E.		S	2	2	2
WINTER 1.23.40.8.34.3.35.42.24.2.60.17.0.15.87.		SW	4	4	14
IDITY		NW	1	2	2
		W.	3	3	10
		NW	3	3	3
		N	12	12	38

Remarks Dec. 26 '54.  
Crossing the sky etc?

Copied by G. S. Moore  
Observer Albert R. Young.