414 METEOROLOGICAL OBSERVATIONS.	DARTMOUTH COLLEGE, January 1854 415
DATE, Barometer reduced to 32°E and attached Thermometer.	Main
MEAN TAM. 2P.M. 9. P.M. MEAN TA.M. 2P.M. 9. P.M. MEAN TA.M. 2P.M. 9. P.M. MEAN TAM. 2P.M. 9. P.M. MEAN M. B. W. B. W. B. BAROM. MILE PAR. BAROM. MILE PAR. BAROM. MILE PAR. BAROM. MILE PAR. A N N M. B. W. B. W. B. 1 3/2 42 286 234 584 155 284 62 196 212.3 2.0 33 ± 19 2417 -	Send Send Send O NEW O NEW -A.M. 3P.M. Snow3' - maily stormy the deared what a PM
2 3/3 40 283 500 67 398 737 653 620 433.7 8 14 163 16.11	A HANN THE RUNN (SEE Storm sheet) When obside 2,40AM.
3 819 413 784 818 613 731 690 39 3:624 713.0 8 26 7 13.67	4 H.H. 4 Bend H. Bound B. S. O. S.
1 496 372 472433 65 337 444 562 370 393.0 103 41 373 29.67 5 633 52 571 695 652 592 533 572 476 5463 35 29	5 4 10 O WSW O N O N O N O
0 253 482 200 389 66 291 585 60 502 331. 35 31 17 27.67	6 10 NW5 10 WNW4 9 SE 0 NW 2 NW 4 7 Nor therm pat observed but from the indication of 8 NN 2 NW 4
T 702 382 670 676 642 581 605 602 521 590.7 - 22 21 11 9.83	7 1 WNW4 J NWMW 0 WSW 0 WSW 0 WSW 0 8 3 10 NW 4 J SSW 0 SW 0 NWW 0 8 3 10 NW 4 J SSW 0 SW 0 NWW 0
8 727 70 397 310 72/2273 320 38 295 3207 7 27 11 15:00 9 406 27 410 574 67 420 675 59 595 475:0-42 8 -3 +0.11	9 4 5 0 NW 0 NW 1 NW 0 To By pleasant. Sky modely guergast Bar. 1
10 656 32 647 600 59 520 684 66 585 5840-3 23 162 12.17	10 10 10 io WNW O E O E O ZAM 6RM 0.35 Letween y - TRM at +: 05 read 29 6 +1 = 26 3 in t
$\frac{11}{714} + \frac{103}{3}682793 65 696772 67 669 682.3 143 35 283 26.00$	11 10 SW4 10 10 NE 0 SE 1 SE 0 8P.M. Clouds Carometer rose till 10AM and then fill till f. mist mist mist mist SE 0 8P.M. and then rose again, more rapidly in livening f.
12 306 +92255 074 4+2981 7.752 653 657 7.964.3 31 3936 42 37.56 13 7.924 533 858 7.972 69 867 7.957 703 848 7.858 402 42 37 39.83	12 10 10 SE O SE O SE I 93PM 1.042 245FM min. abs. at 2P.M. Bargmeter menty tationary tim 13 WNW 4 10 SW 4 1 10 WSW 0 SW 4 9 SBW 0 SBW 0
14 7.996 51 938 297 61 213 562 64 467 206.0 29 2 25 15 23.17	14 WNW4 10 NW4 3 CS. W O NW I NYW O NW I NYW O NW I NYW O South were driving furthered from WSW accompanies.
15 712 43 674 772 672 672 672 670 671.0 10 252 17 17.50 16 430 46 384-285 64 189 371 67 269 280.7 23 31 33 29.00	15 0 WNWS 9 10 NMW 0 NMW 0 N 0 8 Am PM. Snow 2 13 Duylwarm and theavy they were changed in the sine in morning and more than the sine in morning and more that and the sine in morning and more that and the sine in morning and more that and the sine is morning and more that a start a start and the sine is morning and more that a start a st
17 462 523 398 530 6933422709 66 610 4767 292 313 232 28:22	17 10 W 7 4 WNW3 / SW 0 NAME WAW /
18 790 45 746 750 644 655 794 66 695 698.7 12 22 14 16.00	18 10 10 NAW O NAW O NAW O WAYW O WAY
19 785 +123 748810 672 706 792 632 699 717.7 273 30 182 17.00 20 +50 +6 +0+255 652 159 109 61 029 195.3 21 3073 342 25.33 26.9	10 W 3 6 W 4 9 10 NNW 0 NW 0 Ways 0 10 W 3 6 W 4 9 10 NNW 0 NW 0 Ways 0 Inows preceding night but had cloud by morning a Inows preceding night but had cloud at 5 Aminimum about the morning of the standard of the second of t
21 T894 +7 847T894 60 814 234 64 142 T,934.3 29 = 37 ± 15 3 27.64 32.0 31.5	20 10 10 NAW & SE O Style O -A.M. /IRM 0.70 moon. Wind through most of Am way But into 1 21 NW + 9 10 0 Style O W 2 NW 6 21 NW + 9 10 0 Style O W 2 NW 6
22 608 36 36 688 722 39 694 752 34 737 706.3 -2 17 1 517 26.2 26.2 26.2	21 NW # 9 10 0 Style 0 W 2 NW 6 Inow commenced GRM. Char. rising and neulind. 22 H Send H N 0 N 0 N 0 22 10 W 3 8 5 N 0 N 0 N 0 23 10 NW 5 8 5 N 0 N 0 N 23 10 NW 5 9 0 N 5 N 0 N 23 10 NW 5 9 0 N 5 N 0 N
28 498 24 509 632 68 528 883 65 786 607.7 -3 14 -6 167 32.0 31.5 21 695 28 2 695 564 67 2461 740 64 2 645 600.3 -14 3 15 7 256	23 10 NW 5 9 0 NW 0 NW 5 NW 0 21-> Slight rain in A.M. Elight wind at the million of the second of t
25 1,014 31 1,007 1,138 6121,0521,079 62 991 1,016,7 -19 -4 -12 -11.67	24 10 W 4 1 0 NNW 0 93W 3 SW? 2 25 0 10 N 0 N 0 N 0 - Pm Cloudy till SP.M. Bale in greening 25 0 10 N 0 N 0 N 0 - Pm Snow squalls in morning. High wind at 1 26 0 10 N 0 N 0 N 0 - Pm Snow squalls in morning. High wind at 1
26 505 31 498 240 55 170 234 66 133 267.0 1 2073 1473 12.11	26 10 11 2 SE 0 SSE 0 SSE 0 912 0.30 bar not observed. auroral area in 1119 BM. 26 10 11 2 SE 0 SSE 0
27 259 70 ± 227 252 63 ± 142 374 60 ± 289 219,3 17 ± 31 ± 15 21.33 28 621 41 598 850 64 ± 7537,014 42 980 774.3 -2 1 -11 -4,00	27 W # 1 10 10 N 0 N? 0 N 0 51 RM. 8 AM. 0.05 -15. Barometer about 57. M. 541.581 = 472 at 63 533.580
20 6.037 19 063 6050 29 049 1,046 23 2060 6057.3 - 29 - 42 - 20 - 17.83	28 0 N 2 NW 2 NW 0 28 0 N 2 NW 2 NW 0 clear till 4 RM. at 4 RM were light sine stratus cloude running from NW to SE. may bar at 9 f A.M. 29 0 N 0 N 0 N 0 N 0 20 0 N 0 20 0 N 0 N 0 20 0 N 0
30 948 11 995 898 512 837 718 63 627 8197 -21 13 11 1.00	20 NON WO NEW O NEW O NEW O
BUMS 15754 13375T 14741 305742 7288 4000 10	31 10 N O WSW O S O 35 Cloudy all day and the atting down
MEAND 488.8 4321 475.5 9,852 24294 14919 (6332)	208 221 160 6.71 7.15 5.17 N 30, NEI, E2, SE13, 313, SW 11, WG, NW 17.876 6.71 7.15 5.17 N 30, NEI, E2, SE13, 313, SW 11, WG, NW 17.876
note - aurora January 2". 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 heavener the sky most of the time was filled with bright auroral light up to an article quarter of the heavener	E.TI 7.15 5.17 N 30, NEI, E2, SE13; 313, SW 11, WG, NW 17, " edge just touching Denstrach O. by a clear space, was the common auroral arch, Very low and its upper edge just touching Denstrach O.
The sky most of the time was filled with bright aword light up to an attitude of from 20° to 30° with occasional streamers. The presence of the clouds did not in any measure diminish the intensity of aword action observing of course the parts immediately behind them, but by no means dimming the rest. It has been thought by some that the continued prevence of cloud prevents aword action, fan 20° Received this morning a Baychrometer of the first have a filled prevents aword action	by a clear space, Scale OF WINDS (See page 409) Scale OF WINDS (See page 409) St. = Streen's Thermometer. Copied by St. S. Morre
an 20" Received this morning a Byphrometer of Jas Green no. 881A= Dry Bull	. Observer albert a. young.
A commenced at a find the first of the first	
entirely died outly 8. at 6:42 m. 2 P.M. I noticed the following appearances that from 6:25 P.M. and had almost altitude there was a bright arch opanning the northern horyon, much like a rainbow. This arch was marry the same breadth throughout the the edges were not perfectly defined. This arch was	
altitude there was a bright arch spanning the northern horyon, much like a rainbow. This arch was mearly the same breadth throughout the edges were not perfectly defined rainbow. This arch was was apparantly stationary and passed through between 4 stars forming the arch of the great 142 P.M it the whole space he much as possible without touching the stars. Beneach this upper arch of the great slipper, filling	

416 METEOROLOGICAL OBSERVATIONS.	DARTMOUTH COLLEGE, February 1854 417
DATE. Barometer reduced to 32° F. and attached Thermometer. 7 A.M. 2.R.M. 9.R.M. MEAN 7A.M. 2.R.M. 9.R.M. MEAN 7A.M. 2.R.M. 9.R.M. 7A.M. 9.R.M.	DATE. 7 CLOUDS. 9 WIND. PRECIPITATION. REMARKS. Mind. Amt. Kind. Amt. Mind. Amt. Direc.
BAROM FREEM BAR BAROM ATT COR BAROM ATT COR BAROM ATT COR X X X N MEN. Men. Men. Men. Men. Men. Men. Men. Men	Kind. Amt. Kind. Amt. Direc. Amt. D
1 T. 977 473 723 T, 944 66847 T. 978 652 882 T. 8840 39 424 38 39.75	2 WNW6 10 30 10 10 10 10 10 10 10 10 10 10 10 10 10
2 092 52 031 220 64 128 352 64 260 139.7 38 26 16.3 26.77	3 -> Day pleasant and cool. Plainet & snow in the 1130 P.M. De previous day when the decommeter stort
8 442 39 4 413 528 69 4 420 624 65 528 453.7 59 93 -5 3.40	A O O I NW O NW O NW O TERM when cloude were chen SW.
4 646 29 645 765 66 666 807 47 758 689.7 -20.8 6.5 -10.5 -8-27 6 766 18 794 600 25 600 6712 20 78 612 20 78 612 20 8 6.5 -10.5 -8-27	5 10 10 10 10 10 10 10 10 10 10 10 10 10
0 746 18 794 600 25 609 573 23 528 643.7 -243 6 5 -4.43	6 3 0 NNW O NW O NW O NW O 122AR - PM 1.20 June snow till sometime in night. 6 NNW O NW 3 N O the vang settled in the W. Sky in AM deep agure.
6 676 19 671 750 65 655 939 65 971 7550 -2 7.5 -2 1.17 7 870 30 866 919 70 808 936 66 835 8363 -13 16 27 190	7 0 0 a we we a we what have
8 706 37 691 505 64 411 057 64 062 388.0 812 228 28.0 19.67	8 10 10 F 1 SE O SE O SEC 1 14 A Sor 9 R.M. Wind was shifting from N to BE at time of
9 7.86549 812 051 672 950 165 66 068 19433 35 38 321 35-03	9 WNWS 9 0 WS 3 NW MW 2 W 0 SSW 1 0.69 Wind larly part of PM. Shy Tright
10 140 513 091 270 665169 569 66469 243.0 35 29 13.5 25.80	10 W.3 3 WNW5 6 NW5 3 5 0 WWW 5 NW 4
11 734 39 706 860 20 750 969 633 867 9743 -12 62 -3 +0.67	11 0 0 NNW 3 NEWW 3 NEWW 1 "Decasional flurries of onow accompanied of
12 947 25 956 900 35 883 840 34 8258800? -18 9 10.2 0.40	12 12 12 10 10 N 10 N 10 N 10 N 10 N 10
18 750 29 749 700 517639 552 60 469 619.0 162 25.0 275 22.90	13 10 10 W O SEE I SE O ZPM. GRM. My Dury cloudy, cloude half way down the
14 489 46 443 548 63.2456 552 62.3463 454.0 27.5 36 32.5 32.0	14 10 10 SEE Z ESE O ESE O SPM 1.127 to ESE. Hain and slut after SPM.
10 452 53 387 400 71 288 382 67 280 318.3 31.6 35-9 33.0 33.50	15 10 10 SE O S O S O TRM P.M. 16-> morning and most of P.M. addidy. There E
16 413 53 3348 412 65 416 526 62 438 4007 27.6 32.8 24.0 28.13	16 10 9 WH & NW O NW O W 2 Obscured by cloude, slightwind also at the time of
17 608 41 575 691667590 741 65 645 6033 163 198 14.4 16.83	17 W 4 2 0 Why S 0 W 2 W 0 and of deep agure, Bar, rising slowly, gentle
18 574 41.7 339 436 66 337 335 67 234 370.0 6.0 34.2 29.8 23.33	18 W SW 4 6 W SW 3 9 10 W SW 0 SBW 2 9 0 10 W SW 0 SBW 2 9 0 10 W SW 0 SBW 2 9 0 10 W SW 0 SBW 2 9 0
19 477 477 426 740 73 642 776 66 676581.3 167 1.3.7 9.5 11.30	19 WNW5 9 0 N I N 2 N 0 20- Forenoon pleasant and shy clear early
20 760 33.6744 776 73 658 616 63 524 642.0-10.2 13.0 13.4 5.40	20 0 10 NAYE O N O E O Sneveningcloude were thinney. Wind sheld
21 463 42.6426 414 70 305 497 68 393 3747 8.5 21.7 13 14.40	21 10 ONE ONE ONE ONNE O
22 408 40.3377364 629276 114 64 0222250 18 36.6 33.0 23.80	22 WI CS WWW3 /0 WSW3 /0 NNE 0 ESE 0 9 2 . Claude thin about sunset Bande of cirro.
23 140 50 084 392 46 234 605 62 517 297.3 14.5 6.0 1.6 7.37	23 10 NW 5 7 NW 5 0 NW 5 NOW + N 6 AN 112A and different heights lying crossinie.
21 584 33 3 571 600 68 3 495 759 63 3666 577.3 -6 14.8 13.0 7.27 .052 .044 14.8 13.0 12.6 11.0 61 62	24 W3 9 10 St NEW O NEW 4 Glakes through P.M. till about TRM when clouds
25 1,033 36 013 1,165 69 3055 6198 50 3079 1,049.0 -2.5 11.8 8.1 5.80 .026 .028 .043-25 11.8 8.1-3.4 9.0 6.7 71 49 68	25 0 W 2 a W 2 10 NEW 0 NE 0 NEE revealed in the N. a fine aurora enace
20 912 34 897 574 36 550 7, 924 39 897 448.0 13.9 25.9 34.0 24.60 .074 .121 . 192 13.9 25.9 34.0 13.3 24.8 338 92 87 98	28 10 10 SSE 0 SSE 0 SSE 0 AM. IIRM. 555 norming clear and pleasant. Wind 10 10 SSE 0 SSE 0 SSE 0 AM. IIRM. 555 order more or less in R.M.
27 114 39 3086 560 66 460 903 53 3837 4610 263 221 10.7 19.70 1.05 .077 .057 26.3 22110.7242 19.6 9.8 74 65 81	27 NW 5 Cud 3 NW4 10 NWW 4 NNW 2 NNW 0 carly M. till 3 or 3 Demonstration from
28 6018 33 005 988 68 882 862 65 765 8840 -3.0 29.7 23.0 16.57 037 .079 .080 -3.029.723.0-3.124.820.496 47 66	28 a NW a WINN a Shirt a through the whole compass from to to NW
	20 20 20 Day pleasant High wind till one cloude
	30 30 30 30 south and early P.M. moving rapidly. Faint 4
31 30MS 14269 13637 13929 13944.8 269.7 597 85 439.0 474.0 040	31 31 31 28 Day pleasant, Shy clouded over by noon and wind in P. m. shifted by the W
Menny 15096 +187.0 +97.4 498.0 9.63 21.35 15.71 1553 080.5 071.5 .083.2 84.2 61.8 75.0 Barometric readings of February 26, 2.55 FM +14.363	168 152 168 N25, NES, ES, SE9, S9, SW3, W10, NW18. (101+9) 6.00 5:44 6.00
Care blocked up by the ice, after 4.00 280. 363 this storm, and delayed over two days. 5.00 196. 364 5.00 196. 364 5.00 196. 364 5.00 196. 364	SCALE OF WINDS (See page 409) Copied by U.S. Moore
	Observer albert a. young.
5.55 * * 086. = 064	

5.30* * 0.86. = 0.64 6.30* * 0.15.38 7.08* * 0.02.385 $11\frac{4}{7} * * 1.885.39\frac{1}{3} = 28856?$ $11\frac{3}{7} * * -1.886.$

418

METEOROLOGIC

DATE.	Baro	mater :	reduce	d to 32	F. and	attach	ed Therm	ometer				THERMO	OMETER			RCE OF VAL	POR	HYOROME	TER. TER. 74. 2P. 9P	HU	MIDIT	TY.
		No.	Inn		[w.					MEAN	7A.M.	2P.M		MGAN.		NCHES						4.5.
	ZA ROM.	Bleim	BAR .	BAROM.	Presta	COR.	BAROM	THERE	BAR	x	e	9.	Mean						Wawa wa Wa.			
	764	43	726	709	73	593	755	7/	642	653.7	30.0	86.3	264	22.57	.061	130	, 133	8.0 36.3 26.	+ 7.931325.9	78	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	12.1 41.3 334	0 11 9 356 31.1	96	51	80
3	560	49	506	404	703	294	538	691	450	+16.7	320	34.5	320	3283	. 179	.169	. 154	32.0 345 32	0 31.9 330 303	99	85	52
4	398	++	357	526	681	421	252	67	150	309.3	32.0	41.0	35-0	36.00	.178	160	. 183	32.041.035.	0 31.536834.0	94	60	90
6	220	511	160	476	61	396	521	613	434	3300	35-1	39.5	24.4	31.00	. 141	.093	,106	35:133.574	+ 320 28.4 23,3	-69	50	88
																			120.9.266 180			
																			9 14.0 288 280			
																			28,0 32,0 32.0			
								_											03193653330			
																			+33834,5 33.7			
																			7 34,2 34,0 27,1			
																			19.0 367 31.3			
																			0 25.0 42,5-369			
																			30.732.932.7			
			T						Ti										5 33.742.4-36.4			
																			739.7 457 346			
			T			F.													2 37.6 32.2 31.0			
																			5-128 135-125			
19	487	392	458	410	+23	3.73	348	3873	341	390.7	11.2	23.0	21.0	18 40	. 043	035-	.061	14.616510	125-135-77	61	43	54
20	380	34	375	592	66	498	701	+2	645	506.0	14.6	16.5	10.0	13.70	.052	.041	.036	(1.0 20.014.0	1.0 16.011.3	100	41	50
21	714	30	70 6	786	69	479	788	66	488	6910	1.0	20.0	14.0	11.67	.046	.045	.043	3-9 29729	8 3 3 23 4 27.1	87	29	73
22	692 0	38.33	665	526	67	+24	397	48	294	461.0	1.5-	29.7	29 8	20-33	.044	.056	.122 .	27.3 35.5 33.	026734032.3	94	85	92
23 5	180	+8	129	053	28±	9501	964	65	869	1,982.7	273	35-5-	33.0	31.93	138	.176	.172	32028.0 195	31.0 31.0 17.5	89	75-	71
24 7	.832 .	55	763	1.846	61	7621	.911	+8	860	1, 795.0	32.0	28.0	19.5	26.50	.163	.115	.074	15-5-25:017.1	13.620.7 15.0	69	46	45
25 1	860	38	835	1902	183	7991	968	56 3	896	1,843.0	15.5	250	17.1	19.20	. 059	.062	.062	140 245-19.0	13.0 20.5 15.3	- 82	50	45-
26 %	F. 958	382	132	018	42	983	138	382	112	009.0	14.0	24.5	19.0	19.17	.067	.064	.049	16.0 255 18.	1+++ 21.+ 17.0	74	54	84
																			79.0 16.0 11.1			
																			13++ 18-5-10.0			
																			-3925.021.9			
																			0-3923.021.9			
31	800	48 7	48	800	62	712	660	584	580	6 80.0	27.2	34.5	32.0	\$1.23	110	.173	14	4, 4343-32	9.0 18.7 17.1	16	76	27
SUMS			354			556		9	930	99466	\$7.15	10289	8307	84370	3418	3487	2422	11 2 23.0 21.0	4.0 18.7 17.1	57	27	57
MEANS		33	400		30	824		3	2032	32086	21662	33190	26797	27216	11026	11261	11219					

*note The Boychrometer and Relative Humidity readings for the 19th March (left out) are written on the 31st. From the 19th to the 31st inclusive, the readings are advanced one day. Readings on the 19th should read for the 20th etc. I.S.M.

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AT	OBSERVATIONS	à.
AL	ODSERVATION	

		D	ART	ΓN	IOU]	Ή	С	OLI	LE.	GE,			7	narch	1857 419
DATE.		74	CLOUD	DS. 2P.	92		2	WIN 2	D. P	9	P.			ITATION.	REMARKS.
	Kind.	Amt.	Kind.	Amt.	Kind. Amt	Direc	Arat	Direc	Amt.			HOUR	MOOR	AMOONT	
1		0		0								DEGAN	CAUCU	TACHES	1 Day beautiful. Sky was cloudy most of
2	W4	17		25					0	WingN					2 Marmand thaury in evening the sky was
and the second s								W by N	0	W.by N	0			- Inows	3 Mormand thanky In evening the sky was obscured with this clouds. 3 Snow storm in A.M. accompanied by
5	SE 3	10	W 4	10	10	SE	2	SE	2	SE	٥		11 2 44	1 .27	fresh wind . A. m. claudy but not stormy.
4		10	35	9 Seul	10	3	0	5	0	3	0				obscured with clander the first of P.M. was
5	W4	9	NW 4	8	I EWN	w	2	NNW	3	NNW	0				stray pleasant. Evening fine Flury of Snow 8AN3.
		acua		- and the second	- 0										"Day fine Occasional facing defide thro' 1.
		9													snowlakes in A.M. and P.M.
					10									S Call 1	AM. Main and sleet at 67 m Hills slightly
A DESCRIPTION OF TAXABLE PARTY.		3		3	10	N	0	SSE	1	SEYE	0	2 R.M.	~2.P.	.300	a Day overcast and warm. I make level
9	WNW-	3 10		18 m	10	E	0	E	0	E	0	9 2 PM.			low and clouds lowering.
10	3E. 4	10		10	10	SE	0	SE	0	SE	0		6 P.M.	.0 18	and atmachere misty day. clouds low
11	NW				0										cloude maving rapidly, min, Therm, previus
12					WNWT 4										(noon abs. Cargo. made without use of fam) 5
13		0		South	0.5					0	0				alloat with melting snow. N. max. thermore
a second s	WNW	I CS			W+ 7										afloat with melting snow. N. max. Therm 575 A Day cloudy. SE wind little min. Thum 225 snow at + P.M. clouds at many different height
14	SE 4	+ Series	-	10	10	SE	S.	SE	1	SE.	1	+PM.		1145	moving in different directione. man (W) Them with
15		10	WNW3	800	10	SE	6	SSE	0	SSE	0				min. (2) Therm. 32.5. Law 3 Robin Hadfreasts. 5
16	6	10	WNW 4	5	1	3		SSW	2	W	6				" mostly partially clear from 37 2m. Aquelly
17		0		2 10	10	W	4	SSW	0	SED	0	5-1 R.M.			min, abs Bar. 225 P. M. T #13.69= T. 509. High -
18												7			a few streaments fin the Nat 84 F.M. 8
					a t										Therm. 50.2. S. min, 32.0. Day cloudy
1.9					9										18 Verybevere gale previous 1.598.60= T.518
20	K	2	NNW4	1	0	WYN	0	NW	3	Nar	0				" clouded over in P.M. Day pleasant. N. man
21					0										Therm, 292. H. min Therm. 55.
22	2	0		0	10	NW	0	SSW	0	SAW	2				21 Day fine Sky whally clear Minan. " 80
23		10		10	10	SR	0	SSA	0	ShyE	0	A.M.			may cherm. 25.0. 9 min Sherm - 1.2 aurora
24														SEmit	22 morning and early P.M. very Jo lowarde.
and the second se	NWY	100		5	10					NW			1 miles	0.80	pleasant From BRM. shy gradually overcast
		0		10				WNW							N. max. therm. 35-8. min therm. a.
26	NW 4	+ 9		10	16	NW	0	N	0	N	0				of spow on ground at 1 0P. M.
27	NWJ	- 10	NNWS	10	10	N	0	NNW	la	NNW	2				night. N. may, them to 5. Them sucked
28	NI	CS 8		10	4	N	0	N	3	N	0				25 Day cloudy and a little wind from NW.
	NW +			0	0	N	1	N	٥	N	0				12RM. Wind somewhat variable. Barometer
)			H	14			N(?)							chermen 34.0 1 min. 14.2. Parceptible aurora 1200
		0		10											26 Chaudre best ment attended will be and
31	-	10			1.0						2			0	shifted N max 30 8 8 min therm 1/19 wind
		205		22+				OES S WOWIS						2.133	* 22 they cleared all somewhat in evening
															streamets. 3 P.M. cloude almost motiontees.
				SCALE	E OF WIN	os (See	pag	ke 409)							min. 85
												Cop	ied-	ly &.	1. moore 29. 7 min. therm. W Day fine. Collink in Wat 63 7 M. auroral light in even of 8. Day pleasant but shygradually clouded up from the W. thro the day. 31 Day cloudy. Wind and slight
											(Obse	rver	alber	+ G. young clouded up from the W throut day
															31 Day cloudy. Wind and slight
															rain in evening. N. max theun 435

METEOROLOGICAL OBSERVATIONS.

DATE.	Barc	meter	reduce	d to 32*	F. and attac	hed There	ometer.	MEAN		THERMO			FORCEON			HYGROMETER PSYCHROMETER 74 28 98 74 88 98	REALATIVE HUMIDITY 74. 28 98.
	BAROM.	ATT.	CAR.	EARon -	ATT. COR	BAROM.	THE SAR		2	8	Moan.	Lifeter.	Min.	D, B.	W. B.	18. 18. 18. W.B. W.B. W.B.	-W. B.
							662152		34.1	41.0	37.4	37.50				341 410 374 53.0 389 34	2
							64 823									270 281 240 252 239 200	
							42 924									9.3 330 250 27 267 220	
							6 9 75.									25,3-420352-700-30,032,0	,
							69 51									290 509 389279 431 86	
							67 05									367 540 449 340 470 420	
							57 72									370 383 310 349 320 291	4
							63 529									269 410 370 250340 332	
							61 320									373 440 347 347	
							68 09									350 380 343 343 355 370	
							57 47									325394275291330260	
																230 505 355 226 412 32	
							61 51									319 420271302 359 22	
							64 801									195 352 310 167 277 276	
							652 710										
							64 2 43.									283 444320 273347 28	
							57557									30-0 409 33,5 244 32 0 280	
							503334									350 322309 270 314 30	
							55339.									32 0 450 357 319 384 308	
							623250									34.2.53,0 42.0 31.3 40.7 37.3	
20	266	54	200	264	682 15	9 380	6173294	+ 217.7	33.5	51-0	39.0	+1.16				33.551.0390322.43.034	7
							607343									298550411=9.042.935	1
							585213									331 497 41.7 31:043.0403	
23	256	53	191	350	71223	9514	60 73+2	9 286.3	40.0	560	37.0	4433				40.056 37.039.043.0 30.0	-
24	558	50	501	+88	70 37	9397	6228	1 389 7	275	56.7	37.0	40.40				37.556737.0265 40.7320	
25	364	52 30	291	314	70 3 20	2321	69 215	236.0	28.0	67.0	07.0	48.67				40.067051.040050.7432	
26	257	62	170	118	66 02	1 049	69 944	045.0	43.0	48.5	46.4	45.97				43.0485464380464954	
27	126	603	043	279	653 18.	2 408	62 328	184 8	47.0	41.0	37.0	+1.67				47.0 410 370 453 393 360	
28	500	55	430	724	66 62	- 838	637 74	+ 389.3	3570	387	36.5	36.73				35.0 38.7 365 340 368 34	
20	826	53	760	789	6+ 47	4 689	44 574	669.3	3571	39.7	420	39.00				35-1399420344390 415	
· 30	589	613	502	534	69 427	++7	6+1352	427.0	49.7	588	53.8	54.10				497588538 482561 521	
31																	
SUMS		1	3468		12:57	4						113868					
MEANS		H	4893		4192	0	4393	0 4358	8 320	6 45.07	7 3673	3762					

420

TE.		71.	CLOU	DS. 2P.		P.	7	a.	WIN			ap.			PITATION.	REMARKS.
	Kind	Amt.	Kind.	Amt	Kind.	Amt.	Direc	Amt.	Direc.	Amt	Direc.	Amt	HOUR	HOUR	AMOUNT	
1		10		10	WY	10	5	0	s	0		1.2			0.118	were skirted back mist. at + AM the claude
2	WNWS	Send 5 7	-			Strik			NNW							chin and mouring from the W. N. Max. 57,5 P.M. 3 2 Deceant, cloudy variable N. max. 345
3		0				CS			N DON	1 AL	NNW					3 Bar 8 1 AM 1, 172 62= 78.4 Day pleasant Br comet in W first seen it set at 3. 38 in P.M.
		S		Send		3		0	_N.	0	5	0				of comet & min 7.8 " middle of P.M. but cla
4		10	WNWA	cs		05	S		5	0	5	0				after dincet & min 25 8 . tay warm and mostly cloudy. & min, 33.
0	NW +	8		8		9	5	0	S	0	S	0				2 they fair, gentle wind. Comet visitle in even
	WNW A	SOUR	-						2							1. Day cloudy. & min thermometer 220 1. Day cloudy. Elight wind, min (20) them. 3
7	NW 6	6		0		0	NW	3	N	3	NAW	T.				at 6 5 P.M. M. min, therm. 33.0
8		50		10		10	N	0	SSW	2	SSW	0				12 claude at noon converged in SW. Day
									SE							beautiful. Timer cleared out to day. gran a.
									NhyE				11 4.10			in P.M. & min therm 16%
	SW &	CAL														15 Inow in AM. Inow very nearly disapped
				Gra										-0 M.		from the Common today. 9 min. therm. 27.0
14		CS.	W I						3							17. F.M. snowy, little wind & min. them. 3
13		/	WNWS	4		0	Skyw	Ø	NNW	3	NNW	2				all lidet a small patch from the Commo
14		0		3		10?	NNW	0	NW	0	NW	0				1. min. therm. 28:01 11. mostly cloudy, & men. them. 24.5
15		10	WZ	10		t le B	NNW	0	E	0	ENE	0	5A M.	TOAM.	0.05	the low north 97m. Il. min. therm. 30.8
16		0		0		en al	NE	0	NNW	0	NNE	0				21. Day pleasant, Gumulus clouds and
17	SE 2	10		10		10	NE	3	NE	0	NE	0	12 A.M.			4. min therm. 26.13. autora at 9 RM and 10.
									NW						(++)	in evening & min thirm. 29.0 13 Day bleasant. Brilliant aurora in
		00							e w(e)							evening (See notice) Frage singing
				ês												eventilg. I. min therm 23.0. ane
				K					NW.							" Day pleasant, Very warm. S.
		0	N 4	2		0	N	0	NNW.	3	NINIW	0				therm, 27.1 Coychrometric adversatio
9.9	NI	10		10		10	N	0	3	0	5	0	77 M.			4. Stringling. mist in wening up
23	W3	10		0 CS		0	S	0	NNW	2	NNW	0		- n.m.	0.20	The River. S. mn. therm. 41.0
24		0		3		0	N	0	N	ž	N	0				preirous night in equilibrium.
25		0		# 3		8	N	0	N	I.	WNW	0				28. Rainiz through morning. Iliz
26		10	55	10		10	NNW	0	NNW	0	NNW	0	10A.m.			mow on nowich hills I mini
27									N							Thermometer. 33.0
																and in the set
			W 6													at sunset. S. min them. 63.0
													Aire		1.182	hand a second and a second a s
30	SE 6	10	SE 5	10		1.0	SE	*	38	2	SE	0	Sho	maria	0.345	accasional showers through day
31																S. min. therm. + 1.0
															4.145	
		191 199 189 N.23, NEG, 61, SET 6.37. 663 630 \$ 20, SW 0, WS, NW28. SCALE OF WINDS (See page 409).														

422 METEOROLOGICAL OBSERVATIONS.	DARTMOUTH COLLEGE, May 1854 423
DATE. Barometer reduced to 32° F. and attached Thermometer. 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. 7.A.M. 7	DATE. CLOUDS. 7A- 2R 9R 7A. WIND. PRECIPITATION. REMARKS. Kind Amt Kind and
BAROM. THERM BAR	Kind. Amt. Kind. Amt. Kind. Amt. Direc. Amt. Direc. Amt. Direc. Amt. Direc. Amt. Direc. Amt. Direc. Amt. BEGAN ENDED INCHES
1 371 60 288 390 60 317 386 61 300 30.17 510 590 480 52.67 510 59 48 49.7 53 46	P.M. 0.145 Rain previous night, over ly sunrise.
2 +6+ 582 385 356 662 250 256 63 265 30,00 390 690 571 53.03 39 69 57.1 37 585 500	2 10 SW S. Min. therm. 33.7. Day warmand pleasants
3 238 59 158 270 713 157 350 67 248 187.7 495 544 50.1 51.33 51.2 54.4 50.0 47.8 50.4 49.1	3 10 EG 10 ET 10 SW O ESE 2 ENE 0 Day pleasant, occasional showere.
4 394 61 308 443 693 335 441 682 336 326.3 482 560 473 50.63 49.5 56.0 473 48.0 50.4 45.2	4 EG 10 ES 10 10 NE 0 NE 0 E 0 1314 Occasional showers. 5 CS NUM 0 NE 0 NE 0 E 0 1314 Decasional showers.
5 306 62 218 130 743011 098 68 996 075:0 429 65:0 - 42.9 65:2 42.0 55:1	7 SE O S O W 3 TAM hanging from NNW to SSE. &. min. them 403.
6 192 54 124 195 69 089 190 61 104 106.3 32.3 27.8 26.5 28.87 31.2 27.8 26.5 31.0 24.4 22.0	6 9 NW7 7 NW7 7 WNW # NW 6 NW 6 .055 S. Min them. 24.0 WS WS WWW # NW 6 NW 6 .055 S. Min them. 24.0
7 131 46 086 139 60 057 193 613/3/18 087.0 275 42.0 41.2 36.90 28 42 41.2 25 35 34.8	7 NW7 5 5 NW4 5 NNW 5 NNW 3 NNW 0 Wind mostly subsided by noon.
8 380 53 313 311 752 188 327 612 249 250.0 351 551 41.7 4397 351 551 41.7 31.1 451 37.4	ON ONW 2 NW O ver about sunset. & min. them. 31.0
8 378 54 311 829 693 222 327 67 225 252.7 350 692 61.0 5507 35.0 692 61.0 33.3 512 49.0	9 0 10 NW 0 WSW 0 SSW 0 10 NW 0 WSW 0 SSW 0
10 297 68 194 260 663 161 1775 510 710 620 61.33 71.0 62.0 6 62.0 600	10 SW 4 SW 10 SG 10 SSW 0 SMW 0 SMW 0 RM. 1214 Pleasant and warm.
11 341 613 255 434 70 325 541 657444 341.3 600 69.0 555 6150 60.0 69.0 55.5 58.0 54.8 48.2	11 W 5 10 WSW3 2 0 Shyw 0 WNW 2 SSW 0 Jair. Fresh wind at noon. Min(3) therm.
12 642 565568645703535727 6236375800 465 765 604 6113 46.5 76.5 60.4 444 56.0 51.2	12 0 0 S O W 3 WSW 0 Sultry Fair Wind variable ming them
13 856 60 771 836 73 817 869 7173863 813.7 520 800 660 52.0 80 660 49.0 59.5 60.8 14 887 6573787 780 70 670 629 675525 660.6 589 641 608 6127 58.9 64.1 60.8 56.2 61.0 59.5	13 0 W2 1 0 Styw 0 SEE 2 SSW Stormy through day & min. therm. 59.0
15 468 657370 400 75 288 458 71 346 434.7 634 770 620 6757 63.4 77.0 62.0 61.7 63.0 52.0	14 SH 10 SEG 10 10 S 0 SE 2 SE 0 TAM. 9BM. P. 0750 Day pleasant. Little wind. Faint aurora 1 15 (Reasont. Wind shifted about noon 95 Rm. 1
10 496 617 409579 70% 418591 68 487 438.0 521 731 585 5457 52.0 73.1 585 50.0 58.2 52.4	15 10 WSWH H 0 S 0 WSW 0 9 (By north) & min. therm. (since evening of my) 4 Cs H H 0 S 0 WSW 0 9 (By north) & min. therm. (since evening of my) 4 H H 0 S 0 WSW 0 9
17 626 59 546 592 713479 550 69 443 489.3 548 780 648 6587 54.8 78.0 64.8 52.7 63.0 58.7	16 W2 7 7 2 WSW 0 SEE 0 SSE 0 H H 2 WSW 0 SEE 0 SSE 0 Wind and claude St- 8RM & min. therm. 77.5
18 434 66 335 396 682 291 425 68 321 315.7 618 674 62.7 6397 61.8 67.4 62.7 59.8 65.3 61.5	17 7 64 2 10 SSE 0 SSE 3 SE 1 10 00 11 Tair, Rassing claude, & min them soo
19 471 663370491 73 374523 70 414 386.0 624 765 593 6613 62.4 765 595 60.4 64.5 54.4	18 BEG 10 85 10 8 85E 0 8 0 S 0 9A.M. HAM. 964 Law auroral architert. Send Send 10 80 8 85E 0 9 0 S 0 9A.M. HAM. 964 Law auroral architertures at Tair, early in AM Thunder showers at
20 546 595464464 693356 527 673424 413.7 570 76.2 600 6440 57.0 76.2 6000 53.4 65.8 57.8	19 SW 6 7 SW2 5 0 S 1 S 1 S 0 HAM. and accompanied with hail y inch for the sin diameter. mint 9 therm 49.00 fter 4 Fim.
21 625 627535 580 675477539 655442 484.7 520 64.0 550 5713 52.0 644 55.0 50.5 58.0? 52.0	20 0 WSW57 2 S 0 SSW 3 5SW 0 11Am247 Cloudy till evening. a few drope of CS CS WSW57 2 S 0 WILL 2 SSW 0 11Am247 rain. & min. therm. 46
22 632 613555656 70 547748 646653 5850 527 670 510 5690 52.7 67.0 51.0 45.3 53.1 46.5	21 SWEI2 8 SWEI310 4 SWEI 0 Ways 3 5 0 22 0 WSW4 3 2 SC 0 Ways 2 WSW 2 min. U. therm. 395. Day fine they
23 816 6173729 760 67 658788 64 794 7270 470 645 517 5440 470 645 51.7 42.8 50.4 46.0	mostly cloudless.
21 805 54 736 668 69 561 616 663 515 6043 415 735 590 5800 41.5 735 59.0 40.0 59.0 53.4	21 Day pleasant.
25 543 62 455 423 63 \$ 331 319 62 \$ 230 338.7 540 559 540 5463 540 55.9 54.0 50.8 545 53.0	25 25 56 10 10 S 0 S 3 Style 0 11 An Day cloudy. Occasional glimpser
26 255 60 \$ 172 469 65 273 440 63 349,264.7 579 592 580 5837 57.9 59.2 57.7 55.8 52.8 52.5	20
27 543 60 \$ 459 538 68 434 519 67 \$ 416 4363 565 756,2 570 6303 56.5 75.6 57.0 52.1 63.0 55.2	27 ENE 4 9 E4 1 1 N 3 NEVE O N O mostly fair. &. min. therm. 53.0
28 500 615 423 427 7273311487 69 380 371.3 \$5.4? 80.4 61.0 6560 55.4 80.4 61.0 54.1 62.8 52.4	28 NNWS 7 3 6 N O NNW 3 NNW O Pleasant, cloudy nove or less in P.M.
29 529 57 454 463 69 376 425 65 319 383.0 47.8 729 53.0 47.8 72.9 53.0 45.6 58.2 52.0	20 NW2 5 9 4 NNW 0 WNW 2 WNW 0 Reasont.
30 362 59 3281 299 465 199499 640 295 291,3 460 719 490 5563 51.0 71.5 49.0 48.6 56.2 41.0	30 CS CS OWNWON 2 NW 4 Fine. Whad at U.M. N.E. & ministerm. 44.2
31 630 50 573 624 66 525 700 597 617 5720 358 610 470 4793 350 618 440 32.3 500 40.2	31 ON ON IN ON Fine atmosphere in AM mental
SUMS 12441 10871 11845 118965 15268 20526 16397 1710.83 MEANS 41470 35068 38210 38376 49252 66213 54657 57028	163 147 143 BCALE OF WINDS (Supage 409). 5:29 4.74 4.61 WINDS FOR THE MONTH MONTHLY EXTREMES
MEANS 41470 35068 38210 38376 49252 66213 54657 57028	NET I TAM PER MONTH 74H OPH TEM. HONTH
	E 0 1 1 2. BARCMETER 787 817 853 8137 086 011-1.9960750 SE 5 4 3 12 THERMOMETER 63,7 80,7 660 6757 275 278 265 3220
	S. 11 7 10 27 HUMIDITY. SW. 2 2 4 8 W. 2 5 2 (1) Copied by & S. Moore
	NW. 3 5 5 13 N JAM. ZPA JAM. Wh.

424						AL		FO	Ģ	OI	00	ICA	Ι.	OF	BSE	RVA	1TI	ONS. PSYCHROMETER	
					1	VIE	11	EU	n	UL.	UU.	IUA		~					RELATIVE
DATE.	Ban	meter re	educed	to 32	F. and a	attached	d Therm	ometen				THERM		R. MEAN	FORC	E OFVAPO	R	2P. 19P. 7A. 2P 9	B 87A 2P 9D
	BAROM.	THERM	San I	BAROM	ATT	SOR R	AROM.	SATT O		MEAN	S.		Street	Max	7 A.M.	PERM.	SAM.	PB: B.B.B.B. WB.B. WB.B.	LE TO
								1. Second Second			+4.7	677	50.1	53.17	223	194	.226	417 680 501 399 5254	1092 31
2	747	45														A DECEMBER OF THE OWNER			
								1 20 20 1 2	All states in the		1 100 m	and the state	12A	1.44.00	311		and the second se		and the second se
4	555	630	11 2 12	11150	Same I	and -	a second	max 1	n 1 1		and and	01.0	120	65.97	.358	200			00
5	435	104	341	377	74	257	1622	74 0	12	242.77	540	82.0	67.7	67.90	391	.3.61	The second second		
6	499	682	394	469	7320	357	502	72 73 4	+86	410.3	570	773	63.0	65.77	436	567	512	570 830 630 540 70 5 5	27 82 602 77
Carrier and	422	6.62	322	383	72 :	258	401	7.2 3	86	322.0	0 621	740	670	77.70	459	Left	554	6217906705907026	28 88 91 94
8	318	683	212	218	70	119	186	70 0	77	136.0	640	698	638	65.86	540	600	450	6406986386286796	70 94 54 9.2
30	185	6720	084	204	72 0	94	270	69% 1	61	11.3.0	641	744	580	63:30	361	258	391	64.18005886306405 53.16305675735705	438666
11	597	120	401	570	96	471 .	577	64 4 4	82	402.3	531	630	56.7	57.60	379	418	435	57.167.5569542 6005	60 82 61 94
																		5257645985206425	
																		54.182,559,053,566,20	
														65-10				578 82.0 61.0 568 70.0 5	
														66.40				59.0 80.0 65.0 584 692 6	9,5
														40.50				5857005305455654	83
														55.40			10	4407605404315405	00
18	G18	5935	37	509	70 4	00 4	159	71 3.	50	+29.0	501	78.5	620	43.53			-	50.176562049.06575	90
19	452	613	66	402	732 3	284 4	++0	72 3.	25	325.0	53.5	785	64.1	46.03			-	553 81.0 64.134.0 69.46	3,0
														62.67				55.0 774 578542 5400	-79
														62.77				51.3 773 62.151.0 65.85	79.0
														62.73			-	59.0 61.2359057062.85	4,3
														58.60			4	57.6 61.0 57.2 56,2 59.3 5	62
														61.60			6	569 70.057.956.566.75	7.5-
														55.97				57.8 61.948254854040	5.7
														56.90			- 4	12.7 72.1600+20 61.96	9.0
28	400	8 29	16 2	507	+2 12	9 33	38 7	4.0 21	87	14.3	650	62.0	06.8	66.90			3	59.876.166.858,365763	9.7
29 4	167 6	5 37	10			4	38 7	10 5 32	8.3	149.0	56.8	73.22	599	66.90			6	5.0 69.0 66.7 627 68.9 6	SP
30 4	+50	4635	1 2.	89 6	75 18	6 3.5	46 3	351 24	72	61.4	41.4	62.0	59.2	63.27			3	59.1 63.257.2 50	78
31													- 10	60.90				61.4 62060 598 60.15	9.3
BUMS		1121 3840			905	57		108	97	10733.2 35777	55250	21454	4 18010	187463					

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

36323 35177 55250 78180 60033 62487

	DARTMOUTH COLLEGE, June 1854 425															
DATE.	2 7	ZA -	CLOUD	S.	98	12 - 14	74		WIND		10.030				TATION.	REMARKS.
	Kind.	Amt.	Kind.	Amt	Kind.	Amt.	Direc.	Amt:			Direc	Amt	HOUR HOUR	HOUR A	TED SNOW AMOUNT INC常的	
1		0		1		0					Di out	Contra	BEGAN	ENDED	INCHES	Trian Callegerman at 12 A.M. ESE, H. min, therm.
2		0		CS.			N	0	N	0	N	0				Fair. College vane at 12 A.M. ESE. G. min. therm. 34.5. Frost, a little heavier than previous A.M.
		10.21		H		0 H	NNW	0	WSW	0	WEW	0				aleasant.
3		-O H		3 4		+ H	w	0	W	0	SSE	0				Pleasant. atmosphere hazy. & min. therm ++?
4		3		4		1.1.2.	SSE	0	WSW	3	SW	0	-			& Pleasant, atmosphere very hazy.
5		3		1		8	SW		WNW							4 Pleasant and hat very hazy.
6		as 8		4					SE				1			
7		10	W/P	5					SE							Pleasant.
8						The state										Claudy One or two drops of rain in A.M.
		10	52	10	5 [3	7	SE	0	SE	0	SE	0	63/A.	10A.	0.346	claudy and partly rainy. Lightning in the Swat 9 R.M. S. min. therm. 63.3
9	53	10	W-3	8	N 4	10	ESE	1	SW	1	NAYE	2	SP.M.			cloudy Evening rainy & min therm 62.7
10		10		10					N	2	18 -	a	1		1.100	Claudy and cool. (previous night)
11	N 2 W 4	10		10		CS 3	N	0	N	0	N-	0				claudy, began to clear up at 4 AM. in the E. S. min! therm. 53.3
12		E		3		1	N	0	N	0	NW	0				Pleasant. S. min. therm. 508. Bright
13		F														Gleasant. Slight thunder chowere 3
		1.4		4					Nayw							& min. therm. 52.0. B. min therm. 56.5.
14		9		8 +		1.0	ENE	0	NNE	0	MNW.	29	8±P	9날 8	. 0.38	Thurder shower in evening.
15		10		10 H		10 H	NNE	0	NNE.		WSWO	8.3				Very have through day, enlighting
16		6		10			NW	ø	N	3	N	0				over the whole region, coming at parently
17		10		#		7	N	0	NNW	0	NNW	0				from the morch. I amoke than previous day
18		H		H		H	NNW	0	NNW	0	NINW	0				S. min. therm. 46.0
		F	97	0									CHPM			Pleasant but little anohe mindet them 54.
19		10 F	WNW#	H		H			w							Pleasant. Inske cleared up at noon.
20		10 F		5 H					N							Sucasant. in are cuaren up a north.
21		10		10		10	N	0	N	0	SSE	3				
22		10		10		10	SSE	2	SSE	0	SBE	- 0				Less hazy than before.
23		10	SE 6	10		10	SSE	0	59E	0	SSE	0	12 A.M	. GRA		Claudy.
24						10	SSE	0	NW	5	NW	0	P.M.	-	J 0.90	Stormy-
		10						I	N			0				partly clear. S. min therm. 56.0. Pain
25	NG	10 F	N3	8		-	N			1			44		. 136	previous day and night about 0.58. Cold. Cloudy till Sunset.
26		10	NNW5 NW3	8		10	N	0	3				ABI	1	1.100	S. men taesm, TIT
27		10		8		3	E	0	ENE	0	Noy		TA	m.	. 280	Occasional showers after 45 BM.
28		10		10		0	5	2	3	3	NW	0	27	: M.	. #+26	Dleasant, M. min. therm. 2.80
29				17		10	NNW	0	WHM	0	?					afternoon variable
		, 0									NW		TAN	1. 6 R.M	0.23	Stey clouded over about noon.
30		10	S.5	10	NW	0	IN WI	1	1.							Erizzling rain through day. cloud chin in evening. U. min therm. 59.0
31	1			-		1	1		WINDS C	Seap	age 4	09).		1 and	3.921	
		2.38.		214	-	6.30	P.a.	m	ONTHLY E	MIN	and second state					
	MINDA	EDR T	HE MON	TH.		4	and the second sec	GP.	MONTH 7	4. 27	P. ARMI	MONT	1. 0	opi	ed by-	G. S. moore

WINDS FOR THE MONTH. N 10 11 10 31 NE 1 1 0 2 E 3 0 2 5 SE 5 5 6 16 W 2 9 1 7 W 2 9 1 7 MEAN MEAN

426		MEI	EOROL	.OGI	CAL	OBSI	ERVA	TIC)NS.		
							ORCE OF VAROR		YGROMETER.	9	
DATE.	Barometer reduc	ed to 32° F. and attached The	P.M. MEAN.		HERMOMETER	the second s	INCHESA	1	D. B. W. B.	D. B.	W. B.
	BAROM THE MAN	BAROM ATT. COR. BARO	The submitted and the second of	8	-9 Mean	Max 7A.W	A. D.B.	GRM.	12 652 583 550	600 568	
1		9 516 693408 703		0 572	720 583	62.50				2.00	
		0 673 673570 579				65.73			20 780 672 570		
3	308 64 414	+ +29 79 256 343	3 76 218 296	0 56.5	82.7 70.	69.73			5 701550		
4	400 74 280	313 81 175 289	807 152 20.2	4 68.0	89.0 77.3	78.10			80 734 773 665		
5	340 772 211	1 376 82 235 47	7 74 359 26.8	3 72.5	82.9 66.0	73.60			5-840660685		
		6 533 76 408 673						Contraction of the local division of the loc	65:1550		
7	679 663,57	9 630 75 508 624	- 74 504 530.	3 59.0	79.9 67.6	68.90			9 830678576		
8	602 70 493	3 557 75.7.428 570	773 447 456.	0 56.5	82.0 74.5	71.00		1.4	5-860745555		
		1386 80 250 484						72	7 85 710 704	795-664	
		7676 742453584						56	1 807 610550	64.7 570	
		6560 72 445563						50	50748648540	678551	
12	536 647 46	1514 73.0397 663	72 548 468.	7 550	748 648	6153		53.	1751590507	629570	
13	783 63 5691	1774 692 664757	70 647 6673	531	730 590	61.70		58	0 688 610565	615582	
14	733 65 631	7669 68 565659	6635395870	580	688 41.0	62.60		60	0 780 650 590	740.620	
15		612 72 3 492 652	72 537 514.3	600	78.6 65.0	67.87		62	22.85.7685 610	725-657	
		659 75 537 687						67	0 891685637	754670	
17	686 70 5570	583 78 453 584	7573460496.	3 67.0	86:0 68:5	73.83		62	2 819 600 605	630559	
18	700 615 613	3-41 76 416 528	72 413 480.7	62.2	81.9 600	68.03		56:	5 89 750 540	745 723	
19	499 63 408	8+16 73 299 441	79 308 338.0	3 56.5	87:0 76.0	73-17		66	0 74.5 760 645	188730	
20	458 72343	410 85 261 435	- 813,296 300.0	66.0	89.2 765	7723		720	5-875-685 710	730650	
		4 630							6 840 710 6 18		
		609 79476725							0 83.0 700		
		597 77469							0 825750704		
		625 795491 544									
		483 79 350480							5840758677		
		408 84 262470						14	0 890 762 720		
		652 75 530 776							745 537 3		
		640 75 518 611							0 528.500		
		383 74-263 328						634	6810 708614	690650	
		500 745479 600						70	0		
	tun 2 2 minus	in autura in	nativer man	1000				700	0 75-1 615 6	38667	
Sums	14321	41800	1356.2 139	57.2 19352	0 24789 201.	32 209087		53	0819 638520 6	48595	
MEANS	47737	41800	45207 450	23 62419	9 79964 671	07 69830		From	the 9th to.	the 30 1	inclusive,

Psychrometer readings should advance a day. Readings for the 10th should be for the 18th.

		D	AR7	[M	OU	TI	H	C(DLL	,E	GE,				July	1854 427
DATE.		А	CLOUD	R	9 <i>P</i> .		7 R		WIND 2P		Li China	347			ITATION.	REMARKS.
	Kind.	Amt.	Kind.	Amt.	Kind. A	unt.	Direc.	Amt.			Direc.	Amt	HOUR	HOUR	AMOUNT INCHES	
1	W 5	4	N 5	3					NW				BEGAN	ENDED	INCHES	
2		1		0					NW							Pleasant & min. therm. 57.0.
3		CS H		6			NW									Eine. G. Min, therm. 48.2.
4		FIO	WSW4	3					WNW							S. min therm, 56.0. Day fine. Weather hat.
5			WSW+						SSW			-				Pleasant. Thunder shower 7 2 P.M. H. min . 60:0
R		0							NW			0				Fine. G. min (previous might) them. 70.0 /
7		CS							NNW			0				Fine & min therm. 55.0
		2	- YV 1	7		1	NNW	0	NW	0	W	0				Fine & min. therm. 56.5
8		8		8		3	w	0	S	2	S	3				Fine. College vane at 7 A.M. way S. S. min. them. 55.0
9		10		10	N2.	2	S	2	S	2	N	0				Eleasant. S. min. therm. 69.9
10		10		1		0	NEWW	0	NayW	0	Nayw	0				Fine. auroral appearances in north.
11		F		0		1	Náyw	0	Norger	0	WSW	0				Fine, Sky almost cloudless through
12		1	W 2	8		0	wsw	0	WSW	0	N	3				day. S. men. therm. 53.0 Eleasant, Sprinkled at 2 P.M. S. min.
13		1	W 3	cs 7		10?	N	0	NNE	2	NayE	0				Pleasant. S. minitkerm, 500
14		10		10					SE							cloudy.
15		10				0	SE				SE	0				claudy till 10 A.M. G. min. them. 59.0
		H					SE			7		0				Reasant. S. min. thema. 57.2.
16		2		0		0	34		S	-						Decasant but hat. & min them. 64.0
17		0 F		2		0	3									
18		10		0					NNW							Pleasant. Hat. & min. therm. 52.0
19		3		0		1	N		3							Hat. S. min. therm. 600?
20		2	2.23	3		2	S	0	S	0	S	0				
21		F 4		0		0	S	-	S			0				Hot. G. min. therm. 68.0 a little caster, thunder chower
22		0		7					SE							in evening. &. min. therm. 61.9
23		10		5											1. 1.042	Pleasant.
24		10		7		10	s	0	S	0	S	0	103	"RM		Lesshot, Rain commenced in the
25		1	SW2	4					S						m. 0:200	
			JWZ		311				S							G. min. therm. 71.8. Cooler in tim.
	5 4	CS					wsw		NW							Reasont and cool & min. therm.
27	SW4	6 F		4		Tak La			N							Fine. St. min. therm. 47.8
28		7		0					WSW							cloudy but no rain M. min. therm. 58.
29	wsw	3 8	WJ-	7		100										Cleasant and Cool. Wind fresh till.
30	N 4	2		0					NNW							Fine. Comfortably coal & min. therm. 51
31		03		0		0	NNW	0	NNW	2	- NH	w c	-		1.242	
		170		111 3.770		9.8 927	SCALE WINDER NEO	S FOWER O	BAROMET	INTH	1 13 27 2 2 9 9 7 1 6 6 4 6 9 1 6 7 1 6 7 1 6 7 1 6 7 1 7 1 6 7 1	Mont Mont 667. 78.1	THLY H 74. 2 3 211 / 5/06	EXTRE 7.98	MES MONTH 2024 + 4/53 14 C	opied by G. S. more

0739772 0739772 07397727 EE9937777 E99377777

10/11/11

abserver albert a young.

428			M	FT	FC	R	OL	OGI	CA	L	OB	SE	RV	ATI	ON	s.	a	
-									THERMO		1000			7A.M.	HYGRO	METER. 2 P.M.	1 R.	TRELATIVE HUMIDITY
DATE.	Barometer re -7A.M.		P. and attac				MEAN	7A.M.	Z.R.M.	9RM.	MEAN		D. B.	1	D. B.	W. B.	W.B.	W. B.
	BAROM PHERM	BAR BARON	MATT OB	BAROM.	THERE	COR.	7.		9	Mean-	-Max-	Min				54.5	72.5-	72.0
1	572 653 4			382	79	249	362.0	580	845	740	7283		58.0	87.3	16.0		1 7.1	58.2
2	282 75-21	49 300															63.1	
	506 67 3																63.0	
	321 66 2 3																69.2	
	440 67 3																66.5	
	419 67 3												58.0	81.0	61.2	59.5-	63.6	55.8
	565 69 2												56.0	71.0	59.0	50.0	57.5-	53.2
													and the second second				57.7	
the second s	623 64 3																63.0	
the second s	798 54.3																67.0	
	780 60.0																67.0	
1	682 63.7	1855793	71.048	1618	73	501	522.3	592	757	627	65.87							
13	619 693	512528	78.0 39	3 480	75.0	358	422.7	668	79.Z	697	7190						71.0	
I.	388 73	271 280	76.5-150	348	77	221	21377	715	841	697	7570		71.5	86.4	69.7	65.3	71.0	61.5-
1	498 703	388586	70.742	5606	67.4	504	453:7	595	190	529	4047		59.5	70.0	52.9	51.0	55.7	48.5
the second s	575 59.54												46.0	65.8	58.8	45.1	57.9	55-2
	439 63.5																	
	532 651												56.2	74.5	58.7	54.7	58.7	49.6
	647 6210												467	73.8	54.2.	455	567	50.8
and the second second	709 60.30																64.4	
	516 67.14												63.0	83.6	68.7	60.3	68.7	62.0
21	679 6523	82593	70.148	+ 471	73.0	3.37	473,0	53.9	782	662	6610		53.9	77.8	66.2	51.1	64.7	62.0
22	342 72.20	27 448	78.8 316	6.75	73.4	537	366.7	70-2	789	59.7	6960		70.2	7.8.9	59.7	65.8	62.6	53.0
23	781 61.56	93 6 93	71.3 580	663	70.2	554	609.0	48.0	763	63.7	6267		48.0	74.9	63.7	46.5	62.6	54.8
24	507 4644	07302	764 176	328	32.	187	256.7	634	872	815	7737		63.4	87.8	81.5	58.3	76.0	200
25	483 72730	67536	77.0 408	580	72.	465	413.3	630	764	586	6500						54.0	
26	588 6734	85479	69 372	493	683	389	415.3	530	675	5-90	5983							
	568 66 4																60.0	
	814 6457																60.1	
													+8.5	74.0	57.0	48.1	63.0	52.0
	880 6257												45.0	76.7	59.1	44.1	61.8	53.0
	708 60?6.												47.9	79.6	70.0	46.8	65.1	61.8
	653 70 5																69.2	
SUMS	and the second sec	57	12285 40950	,	13	+387	44010	56613	2359	7 19867	3 65263	and the second s						

		D.	ART	ΓN	IOU	T	H	C	DLL	,E(GE,		I DOLL	augus	t 1854 429
DATE.	7		CLOUD	æ.	98.		7		WIND		- ORA	go/t		ITATION.	REMARKS.
	Kind.	Amt.	Kind.	Amt.	Kind.	Amt.	Direc.	Amt.	Direc.	Amt	Direct	Amt	HOUR HOUR BEGAN ENDED	AMOUNT	
1	NWI	9		CS 7	WNW4	10				- Annea	Oliger.	MILLE	BEGAN ENDED	INCHES	Wind shifted S. about 8 + P.M. Day warm.
2		0				H	NW	0 1	NSW	0	'sw	0	9 1 PM.	.056	G. Min. therm. 52.1
		H		cs	HW 6	3	NW	3	NW	6	NW	4		- and a second s	nuch smoke from the North & min therm.
3		2	W 3	5		10	N	o	WNW	2	wsw	0		A State and	Fine. clauded over just after sumset.
4		10	WNW 3			0	W	0	SSW	2	NNW	0			Fine in P.M. Threatening rain in A.M. S. min.
5		50		0	W 3	8	W	0	W	0					therm. 59.0 1
6		0		8	We			1		0	W	0			Fine. Shawer passed min. them. 53.5
7		2				4	SW	0	SW	2	N	0		9	it 5 F.M. 269. 5. Evening most glorioup. S. min
			W *												Pleasant. atmosphere in A. M. Cherm. 525
8		0 CS	W 2	4		0	N	2	N	0	N	0			2. min. them. 52.6
9		3		-1		0	N	0	38	L	SE	0			Gleasant. Gentle wind occasionally
10		cs 5													M. min. therm. 40.7. Day pleasant and mild. Temporary claude at sunset. Froste
11	WSW2		SHYEZ												on the flats, killed the buck wheat crops
						CS									I. min. therm. 44.0. Clouded over in A.M
12	SSW2	10	WNWS	5		2	SSE	0	SSW	3	S	0		a south a second a s	though half obscured by clouds. Somin. therm. 60.0. Day pleasant two
13		10	WSW4	3		1	S	0	S	Z	WNW	4		A COX ST.	or three drops of rain at 8 A.M.
14		1		0		0	N	4	NNW	3	NNW	0		7	M. 262.78. Shower passed around us
15		F		10	NW2	1	NNW	0	SW		NW		HR.M. 4.10		& min. them. 565. Day pleasant a
16															refreshing breeze most of day Evening calm.
		0		2		0	w		w		W				After fog cleared up, slight hower that
17		6	SW 2	1		0	NW		SW		W				min. 51
18		0		1		0	W		W	3	W				min. 41.4
19		0		1		0	SW		SW		SSW	6			min. 43. Imohy. Gusty in evening
20		1		4		2	S		SW	3	W				min. 48. Very hazy Tainin P.M.
		1		-		-			W		SW				min. 50. Very smoky
21		0		0		0	N								more hazy and smoky
22		0		3		2	S		NW		N	-2			min. 61. than ever Sun hardly?
23		2		J		8 5	N		NE		NE				min. 46. Nery moky theym at
24		2		1		10	SW		S		S				min. 47. 10 PM. on Ecided house.
25		HR		0		10	N	I	NNW	2	Nayw	0			min. 59.7. Very smoky.
													HA.M. 7+2A.M.	.050	min. 51.0. Smoky Lightning at
26		10		10		5									7 2 P.M. accasional droppingo grain in A.M.
27		10		10					ENE						neightornod
28		F	N2	10					SHE						min. 43.7. Day fine. air clear
29		es		0		0	ShyE	1	SW	2	S	0		the second second	auroral arch of 2° elevation in the north min. 48. Day fine. Builliant at 22mm.
30									SMW						meteorin the SW at abbut 75 P.M. near star
30		0		9					N			0			3 of distance from mars to the moon. Min. 62.0. Day pleasant. Threating
31			NW4	7		8	(Inc.)	AF 14	INDS (S	12.60	az +0.	9).		0.114	
		127 410		130		3.93	WINI N 9	15 -01	(I ME I'V	MTH			P.M. MONTH 7A.M.	2F.M. 9 R.M. MONT	H
							NE I	21	4 BARON	ETER	790 0	937	51 7207 160	155 187 208	
							E /	34	10 HUNII	DITY	2 2	24.0	24 24 24	2 658 570568 127 8th 1	
							5 4	66	18	- 3					4) moore

S & 6 6 10 SW 3 4 14 SW 3 4 5 5 14 NW 4 5 5 14 NW 4 5 5 14 NW 9 2 6 17

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copied by &. J. moore abserver albert a. young.

430 METEOROLOGICAL OBSEI	RVATIONS.	DARTMOUTH COLLEGE, September 1854 431
DATE Brownelse undered to 32° E and attached Thermometer THERMOMETER.	TAM. PSYCHROMETER HYGROMETER. 2RM. 9P.M.	DATE. CLOUDS. 74-M. 2P.M. 9P.M. 7AM. WIND. 2P.M. 9P.M. 9P.M. PRECIPITATION. REMARKS. Kind, Amt. Kind, Amt. Kind, Amt. Kind, Amt. On the Description of the Main Melited Snow
EAROM. DER'M. BAR. BAROM. THERE SAR. BAROM. THERE BAROM. THERE BAR	D.B. D.B. D.B. W.B. W.B. W.B. 605 5.71 5.53 59.0 56.2 54.9	Kind. Amt. Kind. Amt. Direc. <
2 782 672 680 807 687 700 779 66 682 68.73 60.5 57.1 50.0 57.10	55.5 588 57.6 55.0 57.8 55.9	2 5.6 10 10 10 S I S O S O IIRA 12AA 0.300 min therm. 54.5. morning storing clouds 3 10 NNW 5 4 I N O WWW D W D W O NO O D D D D D D D D D D D D D D D D
3 564 64 470 570 683 406 597 720 482 45-27 600 797 641 6860	60.0 81.7 66.1 59.5 69.9 63.0 59.0 79.9 65.5 57.6 68.9 62.6	4 10 3 0 NNW 0 WNW 0 WNW 0 min. therm. 54.4. Fine me
370 970 998511 131 358 984 210 376 38.90 631 680 10 10	63.7 87.6? 76.0 63.0 75.1 73.0 68.1 91.8 67.5 67.0 79.0 67.0	5 2 1 0.58W 0 SW 3 SW 0 min. therm. 61.9. Therm at 3PM. 885 7Min. 6 1 10 5 0 S 3 SW 0 6 1 10 5 0 S 3 NbyE 2 9\$ A.M. 10\$ A.M. 10\$ A.M. 20\$
7 444 74.0324 477 780347 570 70 461 87.73 67.0 75.4 630 6847.	67.0 76.2 63.0 66.9 63.9 57.4	7 10 0 N O N 3 N O SSW 5 K CS
5 619 00.0 5 00 5 TT 101707 TG8 10 00 1 TOTO TT. 10.0 001 000	49.9 76.0 65.7 47.5 65:4 61.0 60.0 59.6 55.1 60.0 58.8 53.0	8 WNW 5 3 0 10 NAYW 0 S 1 Styw 0 1032. Min. therm. 49.5. Day pleasant. 9 10 NEH 10 WNWH 8 NE 1 NE 2 N 0 13RM 2.809 amount of rainby 75AM 1.90
10 548 623 459 558 70 449570 650 474 4607 500 610 450 52.00	500 61.0 43.0 47.9 53.9 43.1	10 9 NI. 5 N SE Z SE Min. therm. 48.8 Stry cleared up about 11 For 0 5 8E 0 35W 1 55W 0 min. therm. 36.0. Day pleasant mofront.
	39.0 64.3 48.8 38.9 53.0 46.8 54.0 69.8 59.0 52.4 64.6 58.0	12 9 10 0 SSW 2 SSW 0 WSW 0 min. them. 405.
13 764 583 685 810 700 700 848 65:7 750 711.7 470 604 440 50.47 14 841 581 763 784 700 674605 69.1 498 645:0 411 536 53.0 49.28	47.0 60.4 44.0 42.7 51.7 42.0 41.1 53.6 53.0 40.8 52.2 51.8	13 WH 5 0 NNE 2 NHYE O NHYE O 14 9 10 10 N 0 SSW 0 SbyW 2 12M. Thin them. 39.2
15 464 637 371 541 670 439 655 680 557 453.7 540 601 46.8 53.47	53.5 60.1 46.3 55.0 55.5 43.6	15 10 NG 10 0 Style O NNW 2 NNW 0 AM 0.320 Pleasant. 16 0 0 NHW 0 NW 3 NW 0 AM 0.320 Pleasant. 16 0 0 NHW 0 NW 3 NW 0 AM 0.320 Print. Light frost. Fine aurord min. therm. 32.11 Frost. Fine aurord
	36.8 58.5 43.0 36.0 46.1 42.3 36.8 58.5 43.0 36.0 47.2 40.5	17 F 1 0 NNW 0 NW 1 NW 0 streamers at 1/P.M. springing up from the
	36.1 68.2 60.1 35.8 59.5 56.0 60.9 68.5 64.0 59.0 65.9 63.5	18 2 W + 6 10 WNW 0 Style 3 Style 3 Min. therm. 32.0. trost. steatent. 18 2 W + 6 10 WNW 0 Style 3 Style 3 19 10 W 6 10 WNW 10 Style 3 Style 3 Min. 140 0.600 Min. therm. 556. Weather impleasant. 19 10 W 6 10 WNW 10 Style 2 SW 0 AM 0.240 Min. therm. 556. Weather impleasant.
20 102 658005 416 675313626 63.0535 2.84.3 57.9 53.0 440 51.63	57.9 53.0 44.0 51.0 45.8 39.6	20 0 NWS 4 NWS 2 W 2 NW 3 NNW 4
90 and and the transfer in and the	30.3 500 36.0 29.0 42.2 33.5 33.1 57.2 41.0 43.0 49.2 40.0	22 10 0 NW O WSW I WSW O frost. Day leautiful.
At the company the second the sec	33.2 66.3 50.0 32.5 55.7 48.0	23 10 0 1 Shyw o WSM o WSM o min. therm. 41.0. Clouded over in P.M.
25 499 62-0311 440 677 337 483 680 379 942.3 510 69.5 631 61.20	455 70.3 56.0 45.3 61.4 54.0 51.0 69.5 63.1 50.9 63.2 59.4	25 10 10 8 SW O Styl O Styl O Min. them. 52.3. Elessant. Bright
398 730281394 731 277 279.0 59.5 771 67.5 68.03	53.0 76.9 60.1 52.8 69.0 59.0 59.5 78.8 66.0 58.0 70.0 63.5	26 4 WSW3 4 O SkyW O SkyW 2 SkyW O 27 10 WNW4 4 3 SkyW O SkyW 2 SkyW O 27 10 WNW4 4 3 SkyW O SkyW 2 SkyW O 27 10 WNW4 4 3 SkyW O SkyW 2 SkyW O 27 10 WNW4 4
28 500 671 498 494 738 375603 703498 453-3 610 700 560 62.34	61.0 71.0 56.0 56.5 57.0 51.3	28 O WNW4 3 / NNW 3 NW 3 NW 0 NW 0 min. therm. 410. Pleasant Stron
30 978 584 898 860 754 734 824 680 719 7840 31.7 54.1 47.0 44.27 3	42.5 54.6 400 41.3 43.0 35.0 31.7 54.1 47.0 30.4 43.2 43.0	20 0 2 0 NAYW O NW 3 NM 0 wind in P.M. 20 0 05 10 NAYW O NAYW 3 NAYW 0 over at sunset.
80105 15952 14764 1 15366 154539 14966 19724 16402 17031 MEANS 55006 492.13 51220 51523 49887 65747 54673 56770		31 130 128 133 SCALE OF WINDS CSuperge 409). 180 128 133 SCALE OF WINDS FOR THE MONTHLY EXTREMES 4-27 4-43 WINDS FOR THE MONTH MAXIMA MINIMA
		6.00 NE2 / 0 3 E 0 0 0 BAROMETER 920 905 876 9003 005 187067 / 813 E 0 0 0 0 BAROMETER 68/ 900 760 75.90 303 500 360 3821
		3. 9 11 9 21 Home on 13 3W 2 5 6 13 W 2 2 1 5 Copied by & S. Moore
		NW 5 6 7 18 N. 9 4 6 19 NEW Observer albert a. Young

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432 . METEOROLOGICAL OBSERVATIONS.	DARTMOUTH COLLEGE, October 1854 · 433
DATE, Baromoter reduced to 32 F, and attached Thermometer. TAM. 2P.M. MEAN 7AM. 2P.M. MEAN 7AM. 2P.M. MEAN 0. D.B. W.B. W.B.	DATE. CLOUDS. 2R 2R WIND. 2R 9R PRECIPITATION. RAIN AND MELTED SNOW HOUR, AMOUNT BEGAN ENDED / NCHES REMARKS.
DAROM HIERAY BAR BAROM - THERE BAROM THE B	1 6 10 10 NW 0 SW 0 SW 0 SW 0 SW 0 32.0 midnight.
2 272 475170 388 482 204489 152 293 2010 407 500 487 590 410 432 47.8 390	2 NW 5 10 0 NW 4 WNW 3 WNW 0 48.0? Pleasant. Fresh Breeze
8 454 562381 232 660/34 995 690 897 1350 370 326 542 47.93 370 526 542 35.1 520 326	3 WSW 4 8 10 10 Style 0 Style 3 Style 3 10AM. 4 WSW 4 10 10 WNW3 9 SSW 2 SSW 2 W 3 7AM. 0.480 510 P.M. about sunset.
5 548 565 474 716 758 590 813 620 724 5960 421 508 346 4250 421 508 346 400 408 328	5 NW3 8 3 O NW I WHYN WHYN O Fine.
6 908 544 839832 740711 812 620 723 7577 292 615 49.0 46.57 292 615 490 290 510 452	6 0 7 0 WhyN O ShyW 2 SkyW 0 28.0 Pleasant 7 0 3 0. SkyW 0 W 0 W 0 38.8 Fine. Passing clouds in RM.
7 755 551 685650 725 534 683 660584 6010 400 687 53.5 54.07 40 53.5 390 572 8 708 606623635 630543633 6355405687 576 63.8 558 5707 51.6 63.8 55.8 510 600 55.0	8 10 10 NOW OW OW OW OHROW ARD BASS Fine. Passing clouds in RM. 8 10 10 NOW OW OW O HO HTO Ereary, threating rain.
9 500 620 412 406 657 310 367 667 267 32.97 530 640 625 5983 53.0 64.0 62.5 53.0 60.4 58.0	9 10 10 8 NNW 0 W 0 W 3 AM. +AM 08 53.0 Occasional sprinkles through day 10
10 626 603542698 635606771 6806666047 420 576 362 4327 42.0 51.6 36.2 38.0 44.2 35.0 11 665 645 570 522 710 410 520 680 416 4653 428 668 550 5487 42.8 66.8 55.0 41.8 58.0 53.0	10 3 0 0 NMW 3 N 2 WNW 0 Hor Pleasant. 11 5 8 WNW 0 S 2 S 0 317 Pleasant Wind shifted by the W
12 459 620371326 672 225327 690221 2723 557 705 620 6253 55.1 70.5 62.0 55.0 64.8 62.0	. 12 WNWH 3 10 10 Style 0 Style 0 24 PM 50.0 Forenoon pleasant. Jung.
13 582 60 499594 67 492608 63.0517 50.20 505 582 458 5750 50.5 58.2 45.8 47.4 51.3 44.0 11 500 580422250 620/63080 656984 189.70 480 490 462 4773 48.0 49.0 46.2 44.0 48.0 45.6	is in the second and the strange in the trunc in the
15 016 370 937 975 685 872 911 625 823 T8770 412 409 410 4103 41.2 40.9 410 38.6 38.2 37.9	15 10 10 NNW 2 NNW 57RM - FM 1.150 39.00 few snowflaker.
16 908 615 823 982 645 889 204 690099 79370 360 490 420 4233 36.0 49.0 42.0 34.6 410 38.6 17 321 590241 405 656 307490 650394 3140 386 427 380 3977 38.6 42.7 38.0 36.3 410 35.3	16 10 7 10 WNW 2 W 0 W 0 RM. A.M. 0.21 33.6 17 10 10 10 NW 0 WNW 0 WNW 0 A.M. 089
18 520 598435 449 648 353 543 645 448 4120 292 472 310 3847 29.8 47.2 39.0 29.2 42.0 38.0	28.8 AM fine
19 741 587661848.0700 737927 678247407 343 440 310 3643 343 44.0 31.0 34.0 37.0 30.0 20 920 556 017 920 717 904 105 110 201 9210 715 715 715 715 715 715 715 715 715 715	18 0 10 10 W 0 Strand Chine. Inace disappeared from a 19 7 5 0 NNW NEWE 0 NEWE 0 5 0 NNW NEWE 0 NEWE 0 5 0 NNW NEWE 0 NEWE 0 5 0 NNW 0 W 0 5 0 0 NNW 0 W 0 5 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
20 990 556 917 970 717 854 1005 660 904 8917 245 300 33.00 24.5 44.5 30.0 24.5 30.0 30.0 24.5 30.0 </td <td></td>	
22 899 478 847 866 20 755 885 632 791 7977 289 445 362 36.53 28.9 445 36.2 28.9 49.5 34.8 28 026 52 010 021 500 010 026 500 0100 500 0100 0100 0000 0000 0000	22 F O NW O NW O NW O 2516 Heavy frost. DO
21 952 535 885 878 690 769 880 60 795 8163 300 512 360 3907 30.0 51.2 36.0 29.0 43.2 34.0	23 0 7 10 SSE 0 SSE 0 SSE 29.2 24 0 0 SSE 0 SSW 0 SW 28.0
20 922 506863 921 692 811 950 618 861 8450 298 589 422 4363 29.8 58.9 42.2 29.0 51.2 41.0	25 F 0 W O NNW O NNW O 27.0 Pleasant. Froste Pleasant. Froste
20 100 6 538 938 92 6 640 831 909 60 824 8643 370 590 430 4633 37.0 59.0 43.0 37.0 52.3 42.6 27 902 472 852 877 710 763 872 63.0779 7980 351 623 430 4680 351 62.2 430 35.1	26 I O NNW O WSW O WSW O 27 I O O NSW O WSW O WSW O 27 I O O NSW O WSW O WSW O 27 I O O NSW O WSW O WSW O
28 881 55 818 820 67.0 717 826 610 739 7580 368 640 446 4847 368 640 446 368 640 446	1 WSW O WSW O WSW O
30 668 651 269614 692 507 604 68250 52 586 202 601 4421 451 650 593 5647 451 650 593 44.8 61.2 590	29 SSEH 9 SH 10 10 WSW 0 SSE 0 SSE 0 HZA. Have Occasional showers through day
31 752 652355288 662 190 205 670 104 21.63 60.2 642 590 6113 60.2 64.2 590	30 SSE4 9 S4 10 SHE 0 SSE 0
SUMS 17120 14962 15340 158073 12630 17366 14146 147140 MEANS 55226 48265 49484 50991 40742 56019 45633 47464	WINDS FOR THE MONTH MAXIMA MINIMA N 5 4 3 12 MAXIMA JON MINIMA TAM 2PA 9PA MONTH TAM. 2PM. MONTH
	E. 0 1 1 2 BAROMETER 938 857 904 8917 823 872 823-1.8770 E. 0 1 1 2 THERMOMETER 602 705 605 6360 245 409 300 3 300
	5. + 6 + 14 noments 3W. + 5 5 14 SW. + 5 5 14 copied by U.S. moore
	N. 8 4 3 15 N. 8 4 3 15 N. 5 4 3 12

Ι	C	DLL	E.	GE,		00	Pct	ober	1854 . 433
TA		WINC 28).	ge.	E H R			TATION.	REMARKS.
Direc.	Amt.	Direc;	Amt		Amt	HOUR	HOUR	AMOUNT	
		SW				DEGAN	CNDED	INCHES	THER. Threatening rain. stigh wind at
		WNW							32:0 midnight." #8:0? Pleasant. Fresh Sreeje.
		StyE				10 P.M.			35.6 Occasional sprinklinge this day.
		SSW		w			7A.M.	0.480	510 P.M. about sunset.
		Wayn		WhyN					400 Fine
		Sim							28.0 Aleasant
		W							33.3 Fine, Passing clouds in P.M.
		W							470 Dreary, theatening rain.
		w				A.M.	+ P.M.	.08	530 Occasional sprinkles through day
		N							+00 Reesant.
		S							317 Pleasant. Wind shifted by the W
Shyw	0	SAYE	3	StyE	0	24 AM			50.0 Horenson pleasant.
NATE	2	NNE	0	NNE	0				495 clouds through day.
SSE	0	SSE	2	SSE	0	12 P.M.			440 Starmy in P.M., threatening in A.M.
N		WNW	2	NNW	5	TR.M.	-AM	1.150	39.0 a few snow flakes.
WNW	2	w	0	w	0	R.M.	A.M.	0.21	33.6
NW	0	WNW	0	WNW	0		A.M.	. 089	
w	0	S	1	W	0				28.8 A.M. fine.
NNW		NAYE	0	NAYE	E Q				338 neighboring hills today. East at 7 AM.
NW	0	NW	0	Ŵ	0				240 Pleasant. Heavy frost.
N	0	N	0	N	0				27.8 Fine Frost.
NW	0	NW	0	NW	Ó				2576 Heavy frost.
SSE.	0	SSE	0	SSE.	0				29.2
SSE	0	SSW	0	6W	0				28.0
w	0	NNW	0	NNN	v 0				29.0 Pleasant. Frost.
NNW	0	WSW	0	WSW	0				342 cleared off at 10/2 A.M.
WSW	0	WSW	0	WSM	v o				34.0 Pleasant.
WSW	0	WSW	0	WSW	1. 0				368 Pleasant.
WSW	10	SSE	0	556	- 0	+ 2	a.		ra.a
SHE	. 0	SSE	0	398	<u>a</u> 0				58.6 Occasional showers through day Showery. Cleared up at 9 p.M. Brick
SSE	2	ESE		ESE				2.45	59.0 sprinkle at TP.M. and through day.
MIND	S FOR	WINDS	See ON TH		KIMP	and the second se	LY EN	TREMES	
N. 5	4 0	2 0		TAM.20	R GPAI	NONTH 7/	a.n. 2RA	2 9PM MONTH	
E. 0	1 1	1 2 BAR	MOMET	ex cour is	5 625	6360	245 40	9 300 3 300	
5. + SW. +	6	4 14 1101	IDITY						
WG	71	3 15		Co Obs	pie	d by	berto	S. moore 7. young	
N. 5	-4	3 12						0	

434 METEOROLOGICAL OBSERVATIONS.	DARTMOUTH COLLEGE, November 1854 435
DATE. Batemeter reduced to 32 E, and attached Thermometer. 74. 9P.	DATE. CLOUDS. 9R 74 WIND. PRECIPITATION. REMARKS. REMARKS.
7A.M. 3P.M. MEAN 7A.M. 2P.M. MEAN D.B. W.B. W.B. W.B.	Kind, Amt Kind, Amt, Kind, Amt, Direc, Amt D
BAKOM. THERM BAR BAROM. THER. BAR. BAROM THERM BAR	1 W 4 4 W 4 10 10 S 0 WNW 3 WNW 2 Prest night. 0.032 52.
1 209 623122183 640091 254 642161 124 7 573 572 010 001 252 40.8 38.0	2 10 4 10 W I W 2 W 0 350 at SP.M. Rainbow at sunrise
2 342 565 268 506 682 401 521 680 417 362.0 370 479 412 7200 35.0 41.2 49.8 31.2	3 WNW 5 10 W 5 3 9 SbyW 2 W 2 NNW 0 402 The cloude changed from snow clouds
8 420 572 345 552 690445743 640648 479.3 445 438 350 4110 475 73.0 24.5? 28.9 165	4 Z WNW 5 7 O NNW O NNW 3 NNW 2 ISTO
3 420 572345032 690445743 640648 479.3 445 438 000 110 25.6 32.8 19.0 24.5? 28.9 16.5 4 796 52 733 841 650.743 967 537 900 792.0 256 328 186 2567 25.5 143 128 210 130	5 0 0 NAYE O NAYW I WNW O 128 Pleasant, but cold.
176 32 733 841 630743967 337900 792,0236 320 100 14.5 255 143 128 210 130 5 1,002 420 966 979 532 913 944 462 897 925.0 130 255 143 1760 14.5 255 143 128 210 130 6 100 10.8 34.3 33.8 105 32.0 32.0	6 7 10 10 WNW 0 SW 3 S 0 RM? 100
817 595734572 688 466368 660270 4900 108 575 000 200 200 200 21 5 228 26.8 325	7 10 10 R SSE 0 SSE 0 SWW 0 4PM. 0.310 33.0 Stormy, drighty rain and inow till 4P.
1085 85 0161 742 572 907 026 620 737 1954 370 511 5-0 011	8 10 WNWS 4 NNW 2 NNW 2 WNW 0 NNW 2 272
0 112 003056232 032142423 670321 1730 000 0317 -10 000 0317 -10	9 0 0 4 WNW I NAW NAW 0 200
072 TROT88717 75376166 06 990.091.3 dd d 10 11	10 0 7 8 NayW N O N O 148 Reasont- gradually clouding over.
10 100 120 100 000 100 100 100 100 100 1	11 36 10 10 TO S O SSE 2 3 0 AM. 9RM. 1888 323 Stormy therm. rising through
TOST USETEROIT POPARETES UNE UNE UNE UNE UNE	12 10 10 in a N a N a Ro Horal Stranger in Evening threatening the
12 597 590 517 593 685 4885 87 672 485 4967 459 489 468 4703 459 489 463 448 460 450	13 10 SSW 4 9 ON 3 SbyW 1 SSW 0 8A.M. 0.789 460 shifted at 9P.M. to the South.
13 307 657209238 68.1 135 274 630 178 174.0 539 66.0 46.0 539 660 460 538 6.40 451	
11 328 505270335 720221325 6802222377 364 415 372 3837 364 415 372 3830 360 380 380	14 1' 10 10 W 0 WSW 0 WSW 0 340 15 10 10 WSW 0 WSW 0 XRM. 8RM. 0.055 262 Stormy in RM.
15 165 500109 117 60.1035 109 53.8043 162.4 290 34.5 31.3 31.60 2.90 345 313 280 330 313	
16 0.68 48 015 052 63.0963 099 66.800 1.992.7 32.3 375 33.2 34.33 325 323 375 33.2 325 32 320 330 300	16 10 NJ 10 10 Ways a NayW (NayW 3 91.0 Der 200 Stamme in PM
17 033 535 9691.950 6508557,957 650862 1895.3 31.5 37.0 34.7 3440 315 370 347 310 349 340	17 10 10 Nows o S o S o S o Stormy in P.M.
18 052 55 983 118 47.8016 167 68.0005 021.3 338 420 330 3627 338 .330 332 332	18 19 10 7 5 0 5 0 SSW 1 310 Cleared up partially in A.M.
19 197 525 135 190 69.0085 206 652111 0770 260 408 350 5393 26.0 40.8 30.0 26.0 35.0 32.0	19 N3 8 N4 7 8 8 0 NNW? NNW 6 240
20 300 468252322 61.0237439 69.5331273.3 249 302 219 2567 24.9 30.2 21.9 22.0 25.8 20.0	20 2 NW48 I WNW I NW 2 NW 0 23 Startiful 21 3 I WNW 0 WNW I WNW 0 19:0 Beautiful
21 493 544 725552 68 448 630 708 519 464.0 198 320 263 2603 32.0 26.3 27.2 24.2	
22 511 640417403 698294579 606494 4017 292 32.0 81.0 30.73 30.0 32.0 31.2 29.0 31.7 31.0	22 10 10 SE O SE O SE O AM. 8AM. 0.15? 25.0 Stormythroughday.
23 446 50 289427 752309400 6752972950266 848 262 29.20 266 34.8 262 26.6 34.8 262 26.6 32.8 26.0	23 NW 4 . 8 0 3 SSE O WSW O WSW O now 25.0 numplessant. misty clouds low,
21 285 572210152 550082022 623 934 0.753 27.8 36.8 450 3653 27.8 36.8 45.0 27.4 36.4 45.0	21 10 10 10 SSE 0 SSE 0 6RM. 220 smake level and low. Sky cleared up after 11 2 A.M. claudel 05 0 2 10 SE 3 S 2 S 2 1/AM. 0.741 15 over in P.M. amount of rain up to
25 7722 59 T. CHI. 770725 T.GSGT. 936 70 T.828 T. 742.3 330 558 460 5160 53.0 55.8 46.0 53.0 49.0 49.0 41.2	
26 1. 892 60 810 1.997 72 884 170 650075 69230 415 420 362 3990 415 42.0 36.2 41.0 36.0 31.8	26 8 W# 3 WSW410 WbyS 1 WSW 2 WSW # 4 A.M. 0.023 How Shawer at 10 f A.M. likewise early in morning. Wind rising more in
21 249 552 180 348 648 253 505 655 408 290.4 340 365 290 3317 340 340 340 340 340 340 340 340 340 340	26 8 W # 3 WSW 10 Wbys 1 WSW 2 WSW 4 4 MSW 4 morning. Wind rising more in 27 WSW 4 4 10 0 SW 9 SW 3 W 0 27 WSW 4 4 10 0 SW 9 SW 3 W 0
10 FAA SA HOA FAA HOA LOL LOA FAA HOLE	28 6 0 W O SSW I SSW O 21.0 Pt - Dutil delited to N
29 545 550 475 447 43 356 256 635 165 3320 205 30.4 31.2 27.37 20.5 30.4 31.2 20.5 30.4 31.2 205 298 300	29 9 10 10 SW O SW O NNW O 23R. Show 43 before 4 P.M.
30 100 495 046211 665111 331 630241 1327 306 280 221 2690 27.2 22.1 245 202	28 6 0 10 W 0 SW 0 NW 0 23RA 185 Stormy in RM. Wind shifted to N 29 9 10 10 SW 0 SW 0 NW 0 23RA Snow +3 before 4 RM. Wind shifted to N 30 NW 6 9 NW 6 10 10 NW 0 NW 3 NW 0 AM 475 29.0 Cool, somewhat windy, Sleighin commenced.
BUMS 8357 7431 8945 82444 9582 1181.5 999.2 104630 MEANS 27857 24770 29817 27481 31940 39313 333,07 34877	WINDS FOR THE MONTH.
	N 3 5 4 12 NE. 0 0 0 0 E. 0 0 0 0 BAROMETER 966913900 9250643 656828 7423
Barometer 25th 7:05 1.722 59 T. 643 7:25 T. 720 59 T.641	E. 5 4 2 11 THERMOMETER 57.3660 545 5330 10.825.514317.60 B.E. 5 4 8 17 HOMIDITY STATE 12 14 13 6 54 54 54
8:30 T. 698 5957.617 12:00 T. 710 670 T.610	SW 3 8 4 15
	W. 10 6 5 21 NW. 4 3 7 14 Copied by & S. Moore. N. 3 5 4 12 Observer albert a. young.

N. 3 5 4 12 MEAN

3 5 4 12 Abserver albert a. young.

4	36										1. Charles			NDVATIONS
					M	IET	'EO	RO	100	HCA	L	OI	3SE	RVATIONS. STORM RECORD. FOR DECEMBER.
	DATE.	Ban	ometer redu 7A.M.	ced to 3	2° F. and atta	ched The	mometer. 9P.M.	MEA	N		NOMETE	R. MEAN		7 HYGROMETER. 3
		manua			THE REAL PROPERTY.	0	STREET, STREET		3	M ZPI	Mean.	Max.	Min	-B-B. W-B. D.BW.BD.B. W.B.
		BAROM.	THERM BA	R. BARO	M. Freten Ba	R BARON	1. PHER I	BAR A	-	-			DB	cb. clouds this at 7: 30 A.M. but soon after
	1	389	142 34	\$ 339	417 25	7 274	590 1	95 264	17 145	- 215	9,8	1527		c.6. Clouds thin at 1. Son m. and soon after heavier and took the appearance of snow heavier and took the appearance of snow clouds. at 9:15 A.M. Wind was E, at 10:45 A.M.
	2	394	400 26	4 474	657 370	5769	510 3	70 383	3 130	210	3.0	1233		
														Barometer read 412.64 ± = 318, having Barometer read 412.64 ± = 318, having fallen in 5 hours. 278 = 0556 per hour. 1:40 P.M. snow driving. Thermometer 299 Barometer falling at rate of 072 per hour.
and the second design of the s			1		32 302					133	232			fallen in driving. Thermometer 299
11	4	5548	325 53	5 1.500	8 65-2 414	+ 1.52	3 6571 1.	4381.463	3 274	2 27.1	19.9	24.73		Barometer falling at rate of 072 per hour.
			-				-	-						Barometer nearly stationary from 4:30-9:00 P.M. Snow ceased in some
1000		1.010	T.	+1.777	67 681	862	2 6527	67 1.677	13 8.2	9.2	9.2	0801		at 3P.M. beet stell kell
	6	1.976	+3-293	3 7.942	8 642 850	51,98	1 620 8	94 1. 89-	4.0 05	23.2	19.0	14.23		accasionally till GRM. In evening wind began to rise, and the clouds
Beatt	7	1.912	46 86	11.92	+ 70 814	000	10 0	-	7 183	28.8	22.5	- 23.20		talle more broken, thermometer
														riging rapidly. Snow in the morning
	0	129	46 08	+ 421	642 32	7 640	6185	52 321	0 13.3	1202	2.3	9.20		fell in small criptalls some what
	9	956	41 93.	21029	+ 62.8 93	2 980	6218	90 9180	1 -92	11.8	7.0	32.0		of the following figure 35 35
1 2.12													DE	a 12. Day avercast, clauds watery looking, wind if anything, shifted a fraction more westerly.
1		11tt	141 175	3 647	403 616	6 600	4185	65 641	3 15-3	321	33./	2610		a fraction more westerly.
	11	429	412.39	5384	612 29	8 425	- 520 3	63 352	0 30.0	5 36.8	25.1	30.8	DE	C.17. Drigling rain commenced about
A Long					58546									noon, hard rain at 9 P.M.
1000											1			C.18. Barometer fell rapidly previous night, rising very slowly thro forenoon.
1	1.5	397	322.38	7 298	645-201	4302	3740-2	35 275	3 2.0	27.5	29.0	19.50		Mist till 10 A.M. at that time the clouds
1	14	309	4526	5450	670 348	464	673	62 325	0 30.3	40.1	34.2,	3487		where very low and wind SE. at 12AM.
	1. 1. 1. 1. 1. 1. 1.													increase, the clouds driving from NW.
		13.80	789 33	400	730 283	3292	6-23-20	272.	7 2-7-1	3.3	28.3	30.90	DEC	C.23. Note. at 9 A.M. there was a narrow
and the second	16	055	303 99	8132	49 127	362	6652	62 095,	7 288	38.9	25-2	30.97		band about linch in width spairs- stratus clouds extending clear across
1.1.5					39 475									the sky from W to E, passing near the
1. 1. 1. 1.														Zenith, there was also a faint misty
	18	302	310 293	5308	587 229	9659	610 5	73 365.	7 12.0	1.9.5	101	1083		appearance, hard like, about 5 °s of it, accompanying it at its Westerly extremity.
	19	488	325478	508	430 470	2.577	309.5	7 4 426 0	aq	29	4.9	-4.2		mow fell steadily three days any and
														about on mi the barometer feel rapidly
	20	418	145 445	5408	290 407	318	20034	H 39.7.7	1 24.6	-6.0	-11.0	-15-87		till 2 P.M. after which time it vacillatet up and down as far as our observatione
	21	265-	180 292	228	250 237	406	250 41	5-314.	7 -7	13.0	13.0	633		extended, as may be seen from the
														fallowing abservations for the minimum.
			100		240 853									2P.M. T. 924.64°= T.830 7:55P. 850.68= T.746
	23	1,204	210224	1268	590186	1. 196	46 14	9 11.86	3-170	0.6	50	-380		3:45P. T. 875.64 = T.781 8:257. T. 846.675 = GP.M. T. 852.625 = T.771 8:45P. T.854.68 = T.750
	24	843	318 833	603	332 590	477	3.254	63 6.28.2	1100	291	022	5 7 7 7		6.75P. 1, 860,66 = T.761 9RM. T. 824.67%=1.721
											200	4431	DEC	7P.M. T. 842.66 = T741 10 P.M. T. 836.66 = T. 735 24. 7:30A.M. 011 424 TOP. T. 790.625=T.702
		723	330 406	459	432.420	462	4.18 4	26 417.3	323	408	298	3430	DEC.	24. 7: 30 A.M 011 434 = T. 972 27. Snow set in gradually the forenoon
	26	522	400 492	622	680518	635-	648.50	89 516.3	2 300	406	280	3287		and continued until near midnight.
														The amount is uncertain, for the wind
					465380									blew hard in the night and drifted badly. but previous eve. at act. 85 P. Should
	28	523 +	+40482	410	450 366	226	458 18	13430	33.8	38.1	343	35-40		mage of to page the first first
					452 150								DEC.2	
	50	503 8	12 496	489	391461	489	320 48	0 4790	2.0	80	03	3.43		the NE, this morning at 7:3 11:10R T. 864.66
	31	602 2	40 614	640	360 620	737	340 72:	2 6030	3.0	17.0				night, and wind shifted to 9P.M. T. 897.67 = T. 794 the NE, this morning at 7:30 R. T. 864.66 was NNE, by 8P. N by E, and by 8:30 NW.
	SUMS		11455		10559		1179	1 1/26	22 240		0.2	7.40		night and a topidly the prevous
	MEANS		36952		10559 34061		3803	5 3634	9 11.10	7 6813	468.9	49820	-	till 1:30 P.M. Wind began to rise at TA.M. and continued through day, filling the air with snow driving
											101.20	6 16071		with man di through day, filling the air
			73	an man	to be	dina-	for De	1.10 7:	SOAM T	1.500				show ceased & any from the NW, tell in
				ou contra	cter rea	ound	1	9:4	5 . 7 1	509				sand till and (at 4P.M.). Thermometer
								8:3	O 11 11 11	372				minune - and then rose a terrer,
								10:3	0" " .	407				annot be at a mount of snow fallen
								10:5	70	479				the second
								11:3	oun va	467				
								12:20	a.m. +4	4+2				were detained shows or more beyond
								1:33	W . 41	428				104, 300 M I
								2:00		414				
								3:00	A -1	+19-mi	m.			3: P.M. T.886.67 6:30:" T.933.62 4. P.M. T.886.67 9:00. T.936.58/2 4. P.M. T.886.67 9:00. T.936.58/2
								6:40	M. M	437				4. P.M. T. 886.67 9:00 T. 936.58/2 10:00 T. 936.58/2
										and the second	the second			

R	OL	OG	ICA	L	OF	BSERVATIONS. STORM RECORD. FOR DECEMBER,
						HYGROMETER.
	CT SO			OMETE	and the second se	X X X
	MEAN	7A.M		THE REAL TO	MEAN	-D-P W-B. D.DW.D. VI.D.
R.A.R	x	2	2	Mean.	TYLO.	A TOTAL A TOTAL A AND A TOTAL A A A A A A A A A A A A A A A A A A
5	264.7	145	215	9.8	1527	
0	383.3	130	210	3.0	1233	
	256.0	0.3	133	232	1227	7 Parometer read 4/2.64 ± = 3/8, having 7 Jallen in 5 hours 278 = 0556 per hour 1:40 EM. snow driving. Thermometer 299
	-		a service			Bas molter talling as since of the per nous.
32	6463.3	272	27.1	19.9	24:73	7 Barometer nearly stationary from 4:30-9:00 P.M. Snow ceased in some
27	T. 677.3	8.2	9.2	9.2	0887	a during at 3P.M. but still fill
4	1. 894.0	0.5	23.2	19.0	14.23	3 scontonally till 6 RM. In winning
79	7.860.7	18.3	28.8	225	23.20	o wind began to rise, and the clouds
				1		rising rapidly. Anow in the morning
R	3210	13.3	1202	2.3	9.20	fell in small criptalls some what
0	9180	-92	11.8	7.0	32.0	
5	6413	15.5	32.1	33.1	2610	DEC. 12. Day avereast, clauds watery looking, wind if anything, shifted a fraction more westerly.
	3520	30.5	36.8	251	30.8	a fraction more westerlig.
					al a	DEC.17. Driggling rain commenced about noon, hard rain at 9 P.M.
8	492.7	6.0	15:3	5.3	8.8.7	DEC. 18. Barometer fell rapidly previous night, rising very slowly thro forenoon.
5	275.3	2.0	27.5	29.0	19.50	" Mest till 10 A.M. at that time the clouds
2	325.0	30.3	40.1	3.4.2	3487	wind was W and leginning to
1	272.7	271	3.7	28.3	30.90	increase, the clouds driving from NW.
						band about linch in width stairs-
2	09577	288	38.9	252	30.97	stratus clouds extending cledr across
-m	+79.7	36	13.3	11.2.	9.37	the sky from W to E, passing near the zenith, there was also a faint misty
5	365.7	12.0	19.5	101	1083	appearance, hard like, about 5 °5 of it.
1	4860	aa	29	1.9	-4.3	Snow fell stillig thro day, Sommercing
						about 8 11. The barometer feel rapidly
-	3977	24.6	-6.0	-11.0	-15-87	and abun as put as our observations
F	314.7	-7	13.0	13.0	633	following abservations for the minimum.
	8830	-16.6	-2.6	-2.4	-7.20	DRU TRAU O
	11863					3:45P. T. 875,64 = T.781 8:257 T.846.674=
					-380	GP.M. T. 852.622= T. 771 8:45P. T. 854.68 = T. 750
3	6287	160	29.0	233	2237	7 P.M. T. 842, 66 = T741 10 P.M. T. 836.66 = T. 735
6	417.3	323	408	298	3430	DEC. 24. 7: 30 A.M 011 434 = T. 972 DEC. 27. Snow set in gradually the forenoon
7 5	516.3	300	406	280	3287	and continued until and an med might
	+33.3					maun is uncertain, for the wind
			380			blew hard in the night and drifted badly. but previous eve at act. 8 5 P. Should
	8430					in depth the been from 4 to 5 inches
1	926	34.3	82.3	10.9	2583	DEC. 29. Sky clouded over inprevious 8:10 " T, 908.69 night, and wind a life in previous 8:10 " T, 908.66 night, and wind a life in gen T. 897.674 = T. 794
	+790	2.0	80	03	3 44 2	the NE. this manufed to 11:10R T. 864.60
	0530	3.0				Barometer Della Nhy E, and by 8:30 NW.
1	112683	9454	100	8.2	7.40	night, and can to apidly the previous
t.	36349	11.103	21.977	468.9	49820	10 till 1:30 P.M. Wind began to rise at TA.M.
					e inser	with snow di i carough day, filling the air
-	1. 7:30		538			snow ceased falling (at 4 P.M.). Thermometer
	9:45	· · · · ·	73			mining then rose a little,
	9:45	" " " "	07			annot la de a amount of snowfaller
	10:30"		Sec. Sec. Sec. Sec. Sec. Sec. Sec. Sec.			was in of its drifting. The stort below
	11:304	n 440	.7			were detaily more the acountains
	12:20 R. 1:00	1 4 54 -				were detained 8 hours or more beyond weres 12:30A.M. T. 890.64. 4:30BM To the daingo
	1:35	* * 41	6			1 x JOAM 1 an warmeles to a dungo
	2:181 "	2021	9-min			3: P.M. T.886. 67 6:30:4 T.933.62
	6:00 1 1			••		4. P.M. T. 886.67 9:00 T. 936.58/2

		D	AR	ΓM	IOI	JT	H	C	DLI	,EC	GE,		De	cember			18	3.54		437
DATE.	7		CLOUI	DS.	9	WIND	x		and the second se		HROMET		PRECIP	TATION.			REM	RKS,		
	K. A.	TX.	A.Kind K.	Ant	Kind A.	Acat.	An K.	AT. 7	ZAM. BRM.	9 P.M. 7	Dirpen A	HOUR BEGA	HOUR SHOULD	AMOUNT	MIK.					
1	10		10 WW	W510 1	ww o	N	ON	0 1	149 215	908 1	37.1959	as A.N	1.	0.050	13.0 OCL	asima	L clean	sky.		
2	NW2 2		0	0	NO	N	O N	0 1	130210	030 1	26 190 3	3.0			9.0					
3	10		10	101	Viny W O	NSYW	I NNW	2	0.3 133	232 0	0.3 130 2	3.3 P.M	b	13 m.	-31 St	ormy i	P.M. T	Bay in	P.M. fo	Ming more
4	58E3 /0		10										IORM.	1.300	about	- 6 inch	is Ino	wheet.)	in type	mabout
0											3.0 8.1 8				8.0 Ri	ver cl	reed."			the second
7	10										1532601									leof snow
8	10										18-1 280 3		n. Letter.	0.15	15.0 St	-1		1 8		
0	0		10								85103				m	ay. ba	r. lette	icent 10	and 12.	thro'day.
	10		10								-8.570,3 53320 3				- 000	asiona	they per	arted.		night.
	10										305 322				These	struck	1-22/25	the stand of	al aliza	inshine.
12	es 7										592/40				5.0 TS		1.			
13													M. 114 A	0.45 m. M. 0.045	-45					
14	SW 2 10										30,537.13				28-5-		1.	+11		00 +-
15	SW2 4	SW 4	cs Z	103	SSW 1	SSW	1 SSW	0	373	28.3	349.	28.0			25.5° an	d cirro	stra	tus cl	oude.	e floating
16	10		10	10	ESW 0	NW	3 NW	3 .	288 38.9	9 25.2 .	28.6345	23.8 97	IM.		275 17	normin	z, tha	wy. Wi	ndichi	fted about
17	Whysi 4		10	10	Nim W 1	NAM	O NEW	10	36 (3.)	3 11.2	26:120	101	A-M.	0.21	3.4					
18	110	NWG	and the second s	0	N byw c	NAM	2 N	0	12019	5-	120.180	0.8			10.0 0	leasa	st fre	eh avi	nd at "	A F.M.
19	0		cs /	5	NO	o N	ON	0	-993.8	-6.8	-9.03.4	-6.3			-9.9 -	Sky mi	ich ob car t	scured hrough	by have	early part
20	0		0	0	NO	2 N	ON	0-	246-6.	0-17.0	238-50	-/68			-24.600	Le rose	louded	Lover	fromew	hich time
21	10		10								-65122					Spie c	ear in	i more	ring, he	ing. cleared
22	0		4								-160-22			24	1	hom 10	P.MLS.	1. M) 30 .		ious night
23	0		2								16.40.4		M. 12A	M 1225	Sh	y clou	ded o	uer in	P.n. fron	19. +7=1.280. n the West.
24		1	10								16.0.26				5.0	al i	. des	in a	hat a	inset.
25	NW5-9	WNW	3 7 NA	W cs	SE I	r www	I NU	NO	32.3 44	830.0	32.33%	3295				Perman	Atalo	in en	mings 5	las different
26	10	WNW	210 W	SW 5	WNW	O WNW	O WHI	w o	30.040	28.0	293384	27.7 1	M.M.		- A	advina	the 1	ku		changed to
27	10	>	10 NU								33.037		n //	AD 4.20	200	telara	and	thown	Ilig	htrain.
28	10		10								3 33.037		1 10	an breeks	2- 021	Accas	ional till	AA.M. I	when	windchange
29	10		100								34.2.29						the second second	a second s	the second s	Jinking.
30	NW3 3		4								2-2215					Bear				slowly,
31	0		0	0	Noyw	O Nor	wo New	oue	vat 11	A.M.	2-2215 Snow	liega	in to	-fall at 8				e.sm	loose	
DE	50. Ther	mom	eter &	egin	ming	tor	ise.	The	baro till 7	mete	M. um	ntine d th	en ci	fall at 8 sing till	d			lbert a		4.
	10:30	A.M., 1	fell a	267.5	de A	ins	the n	ight	tamo	rent	ofsn	ow 3.	inche	minence					1	1
The second	Bar	ome	ter De	22.31	1.	30P.1	1. 258	3.61		SCAL	EOFV	VINDS	See	age 409)	. WIND	S FORT	HE MON	TH.		
						452 .	288		14		A.M. DRM	TEN. MO	NTH 7AM	MINIMANCE -	DITIN EI O		20			
						30" "	303	3.61	E THERM	a second and a second sec	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1			38 1. 414 1.438-1 6 - 60 - 17.0 - 1 20 - 29 -			- 14			
and the second						00	154	1.61	HUMI	DITY	FT. 221			AD APA	W. 3 NW. 5	491	10			

DAR	TN	40)UT	Η	C	DLL	EGE,		De	cember	1857
CLO	UDS.	-	WINI	>	y	the second s	BYCHROME			PITATION.	REMARKS;
A.Kind	K. A.	Kin	A. Acat.	Dires.	Armt.	TAM. DP.M. 47	M. TAM SPM	APPM BE	GAN ENDE	AMOUNT	MIR
							08 137 195			0.050	
- 0							30 126 190				9.0
10							3.2 0.3 130		RM.		34 Starmy in PM Par in PM & 11 rapidle
10										13m. 1, 1.300	-32 Stormy in P.M. Bar, in P.M. falling mor Stormy. Amount of snow fallen at 75 AM about 6 inches Inow set in again about
NW2 2							2 8.0 8.1			1.000	2 P.M. (-See bottom of sheet.) 8.0 River closed.
105							9.0 053260				
10							25 18.1.280		14.11 1.07	M. U.15	0.5 Wind shifted in P.M, slight fall of snow 15:0 Stormy through day.
10									erossie.e.e.e.	en 0.75	Thermometer falling slightly thro'day
							.3 11.0				may bar . letween 10 and 12. Highest
10		1					0 -8.5703				-92 observation 11:50 80. 134.62.2 = 29.963 clouds occasionally parted.
10							3,1 15.3 320				Threatening, with a few streaks ff
9							5.1 305 32;				Wind shifted about IPM. Jourshine.
IN 4 2							53 59?/4			0.45-	
N 4 10	10	NW	O WSW	OWS	wa	2.02752	9.0 1.2.269	127.7 8	(A.M. //全)	A.M. 0,045	-45
10 cs	10	SW	OSWIN	3 O SW	6-15 0	32.8 40.1.3	5.0 30,5 37.1	133-1			28-5 mild and beautiful. Loose floating
W4 2	10	2 53 1	I I SSW	1 59	sw o	3732	8.3 34.	928.0			255 and cirro stratus cloude.
10	1	a ssu	NO NW	3 N	W 3	288.38.92	25.2 28.634	523.8	978M.	2.1	275 morning, thanky Wind shifted about
10	1	O Nim	W I Nayu	VANK	yw o	36 (3.3)	11.2 36:12	0101	PA-U		3.4
W 6 9		Now	WONDE	NZ N	10	120195	120.18	0 0.8			10.0 Pleasant fresh wind at + 2 F.M.
CS /	3	- N	0 N	0 1	N O	-9938 -	6-8-9.03.4	+-6.3			-99 Sky much obscured by have early to Sky clear through day but of hos
0	0	N	ON	0 1	v 0-	-246-60-	17.0 23.8-3	50-168			-24.6 at 11 thm. clouded over from which time
10	10	N	D N.	ON	10.	- 6.8 13.0	13.0-651	22.124			17.0 Day cloudy and threatening. cleared
4	1	O N	1 Nb-1 E	201	NO-	16.6-2.6-	2.4-160-2	2-29		24	-16.8 up gradually thurs, same previous night
2	1	ON	I N	0 1	NO	-170 0.63	5.0 16.40.	4 42	A.M. 12		5-17.0 max. bar. at 93 A.M. 1.329. +7=1.28. Sky clouded over in P.M. from the wee
10	1	O NI	LIS	0 5	s o	16.0.27.0.	23.3 16.0.2	6823,3			510
							30.032.33				26.0 Claude clearing up at sunset. Lunar Halo in evening, also differen
	NNW C.	S WH	W O WNY	NOW	INW O	30.0406	28.0 2933	8.0 27.7	7.A.M.		28.0 set of parallel circo stratul bands
							35.0 33.03				27.6 Inowin morning soon changed
	wws. /	- 33	- 1 000	300	SE I	339990/	34.3.33.03	7.1.3.9.8	87/	0 A.D. 0.2	- 222 Alarmand thown Slightrain.
10							10.9 34.22			and in the second	22 22 DR while till in A.M. where wend chan
1000											1.8 Brilliant evening, Then stinking
4							0.3 1.2				-3.5 Beautiful.
0		O No	MWO NA	WO NI	enw o	-3.0170	N. Snoc	U lies	san to	o fall at	
ming.	clear begin	", as	of to	rise.	. The	baron	neter c	onti	need 1	o fall at	18 P.M. Copied by &. S. Moore
m., felf	till 1:	30P.	M., ros	e ag	night	tamor	int of s	now.	3 inch	commence.	ed Abserver Albert a. Young.
neter &	tec. 3	1 at					YALE OF	WIND	SCon	barr un	9). WINDS FOR THE MONTH.
			5:00"	2 28	38.62		and mil	A - MP	NTHLY E	MINIMA HOL	HAL NE 3 0 0 2
			6:45 -	4 30	3.41	PADAMETE	7A.M. 27.	M. 9PM.	MONTH 74	M. PPM, 9PM,	1-1-4633 SE. 2 2 2 6
		hand	10:30	" 20	00.62	J THERMOME	TY 11 21	8 34-3	35:40-2	4.6 -60-17.0 2.01 201 201 201	-15.879. 5 4 5 14 204 SW. 1 2 2 5 W. 3 5 2 10
			11:00.0	13	54.61						NUN 5 5 8 18 N. 13 13 12 38

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