

SCOTTISH METEOROLOGICAL SOCIETY.

Observations taken at Hammerhead, Cupar, Angus County of Aberdeen, in Lat. 57° 8' 3" N, Long. 2° 4' 35" W, Distance from Sea 2 1/4 miles.
Height of Cistern of the Barometer above Mean Sea-level 139 1/2 feet, above Ground 15 1/2 feet. During the MONTH of January 1876

The Hours of Observation are of Greenwich Time.

ELECTRICITY.	Days of Month.	B.T. BAROMETER.				SHIP-REGISTERING THERMOMETERS. Read Daily, at 9 P.M.				HYGROMETER. No. 2237				WIND.				RAIN.		CLOUDS.				THERMOMETERS under Ground.				SEA.	OZONE.	GENERAL REMARKS. As to occurrence of Thunder, Lightning, Storms, Hail, Meteors, Remarkable Depression or Elevation of Barometer, Prevalent Diseases, etc. Mention the hour at which Storms, including Thunder and Lightning, began and ended.		Days of Month.																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																										
		9 h. A.M.		9 h. P.M.		Protected in Shade, 4 feet above Ground.		Exposed Black Bulbs.		9 h. A.M.		9 h. P.M.		9 h. A.M.		9 h. P.M.		9 A.M.		P.M.		9 h. A.M.		P.M.																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																		
		Barometer.	Attached Thermometer.	Barometer.	Attached Thermometer.	Max.	Min.	Max.	Min.	Dry bulb.	Wet bulb.	Dry bulb.	Wet bulb.	Direction.	Force.	Direction.	Force.	Velocity (0-10).	Amount (0-10).	Direction.	Velocity (0-10).	Amount (0-10).	Direction.	Velocity (0-10).	Amount (0-10).																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																	
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BAROMETER, "corrected Mean" at 9 A.M., minus the Correction $\frac{1}{1000}$ for Temp. (Col. 2), = 29.945
for Temp. (Col. 2), = 29.944 -0.001
"Corrected Mean" of Barometer at 9 P.M., minus the Correction $\frac{1}{1000}$ for Temp. (Col. 4), = 29.940
for Temp. (Col. 4), = 29.940 -0.000
Mean at Station, corrected, and at 32°, = 29.942 29.984
Correction for height, 139 1/2 feet above Mean Sea-level, = +0.136 +0.114
Mean, reduced to 32°, and Sea-level, = 30.078 30.098

SCOTTISH METEOROLOGICAL SOCIETY.

Observations taken at Hammerfield, Culhaden Road, Aberdeen, County of Aberdeen, in Lat. 57° 8' 3" N, Long. 2° 13' 5" W, Distance from Sea 2 1/2 miles.
Height of Cistern of the Barometer above Mean Sea-level 139 1/2 feet, above Ground 15 1/2 feet. During the MONTH of February 1876.

The Hours of Observation are of Greenwich Time.

ELECTRICITY.	Days of Month.	BAROMETER.				SELF-REGISTERING THERMOMETERS. Read Daily, at 9 P.M.				HYGROMETER. No. 2237				WIND.				RAIN.				CLOUDS.				THERMOMETERS under Ground.				SEA.	OZONE.	GENERAL REMARKS. As to occurrence of Thunder, Lightning, Storms, Hail, Meteors, Remarkable Depression or Elevation of Barometer, Prevalent Diseases, etc. Mention the hour at which Storms, including Thunder and Lightning, began and ended.		Days of Month.				
		9 h. A.M.		9 h. P.M.		Protected in Shade, 4 feet above Ground.		Exposed Black Bulbs. 2224		9 h. A.M.		9 h. P.M.		9 h. A.M.		9 h. P.M.		9 A.M.		P.M.		9 h. A.M.																
		Barometer. No. 236	Attached Thermometer.	Barometer. No. 236	Attached Thermometer.	Max. No. 235	Min. No. 247	Max. No. 247	Min. No. 247	Dry bulb.	Wet bulb.	Dry bulb.	Wet bulb.	Direction.	Force.	Direction.	Force.	Amount (0-10)	Direction.	Amount (0-10)	Direction.	Amount (0-10)	Direction.	No. 3 inches.	No. 12 inches.	No. 22 inches.	Temperature of Wells, at depth of feet. No.		Temperature at 1 fathom, and Density.						0-10.			
		inches.	°	inches.	°	°	°	No.	No.	°	°	°	°	°	°	°	°	°	°	°	°	°	°	°	°	°	°	°	°						°	°	°	
		No. 236	No. 236	No. 235	No. 247	No. 235	No. 247	No.	No.	°	°	°	°	°	°	°	°	°	°	°	°	°	°	°	°	°	°	°	°						°	°	°	
1	29.730	51.3	29.674	53.0	48.7	43.4	43.9	46.3	45.8	44.0	44.0	SW	2	SW	0.5	SSW	3	2	0.057													Hoarfrost	aw.	1				
2	29.726	49.0	29.580	47.2	44.9	35.4	30.6	37.9	36.8	39.7	38.9	SW	1	SW	3.5	WSW	4	2	0.065														2					
3	29.606	46.6	29.592	46.7	42.3	33.9	33.3	37.8	37.1	35.3	34.3	W	1	NW	1	Hyg	2	0	0														3					
4	29.830	44.4	29.956	44.9	41.0	32.4	28.6	35.1	34.5	35.1	34.8	N	1	N	1	NW	2	4	0.150														snow, sleet		4			
5	29.976	44.6	30.012	44.8	43.0	33.4	30.4	35.9	35.0	36.2	35.7	NW	1.5	N	1	NW	2	3	0.075														snow, sleet, hail		5			
6	30.048	45.0	30.104	45.7	41.7	34.0	31.0	37.7	35.9	36.0	35.5	NE	0.5	NW	0.5	NE	1	1	0.010															Hail, sleet		6		
7	30.102	45.6	30.096	46.0	38.3	31.1	27.4	35.2	34.7	35.0	33.0	Var	0.5	Var	0.5	NE	1	3	0.015															Hail, sleet		7		
8	30.060	45.1	29.976	45.0	37.0	30.7	27.1	34.0	33.6	35.3	34.5	E	1	E	1	ENE	1.5	6	0.110															Hail, snow, sleet		8		
9	29.866	44.9	29.858	43.6	37.9	33.0	32.0	33.9	33.9	33.0	33.7	E	0.5	SE	1	ESE	1.5	6	0.150															Hail, snow, fog		9		
10	29.902	42.8	29.874	44.0	39.0	25.0	22.0	29.0	28.7	33.7	32.9	Var	0.5	Var	0.5	ENE	1	6	0.140															snow	cr. ha.	10		
11	29.696	42.5	29.616	43.9	38.3	29.6	24.8	36.0	35.2	34.5	34.5	NW	1	NW	0.5	WNW	2	8	0.295															sleet, snow		11		
12	29.760	45.8	29.760	43.1	38.0	28.3	29.7	35.3	33.6	30.0	30.0	E	1	NE	0.5	ENE	1	7	0.110															Hail, snow, sleet		12		
13	29.712	43.7	29.628	41.3	36.0	25.6	22.2	32.3	32.0	31.3	31.0	SE	1	SE	1.5	ESE	2	8	0.140															Hail, snow		13		
14	29.510	41.1	29.492	42.0	36.9	28.8	27.1	32.4	32.0	36.3	35.0	NE	1	SE	2.5	SE	3	8	0.195															Hail, snow, sleet		14		
15	29.120	41.4	29.098	44.2	42.9	34.1	28.4	36.2	36.2	37.7	37.5	SE	2	SW	0.5	SE	4-5	2	0.065															sleet		15		
16	29.076	45.4	29.168	47.2	47.8	35.7	30.9	38.9	38.2	38.8	37.6	SW	1	NW	1	WSW	1.5	0	0																Hoarfrost		16	
17	29.280	47.3	29.292	49.0	49.7	35.6	29.6	39.9	38.1	38.5	38.0	W	0.5	SW	0.5	WSW	1	6	0.125																Fog		17	
18	29.066	49.1	28.726	48.7	43.0	35.0	31.6	39.0	39.0	39.0	38.3	W	0.5	W	1	W	1	15	0.395																Fog		18	
19	28.752	50.0	29.226	46.7	43.5	32.9	31.4	37.1	37.0	34.3	33.0	NW	0.5	NW	1	NW	3.5	4	0.115																sleet snow, fog;	aw.	19	
20	29.500	46.8	29.738	44.0	39.0	26.2	25.6	32.1	30.6	27.5	27.5	NW	1	NW	0.5	NW	1.5	7	0.135																snow	aw.	20	
21	29.476	43.0	29.448	45.2	41.7	26.0	20.4	38.2	38.2	41.7	40.8	SW	2	SW	1	SSW	3	5	0.140																			21
22	29.272	47.8	29.202	49.1	51.3	36.3	32.6	42.0	41.0	42.0	41.0	SW	1	N	1	WSW	1.5	0.5	0.005																		22	
23	29.218	47.2	29.508	46.1	42.0	34.0	29.9	39.9	39.5	35.3	34.0	NW	1	NW	0.5	WNW	1.5	3	0.023																		23	
24	29.548	45.1	29.878	43.7	39.3	29.7	27.8	36.6	36.0	30.6	29.0	NW	2	NW	0.5	WNW	3	4	0.020																	snow, sleet		24
25	29.750	43.4	29.376	41.8	36.0	26.2	22.8	29.0	28.9	35.0	35.0	Var	0.5	SE	1.5	ESE	3.5	15	0.400																	Hail, snow, sleet		25
26	29.232	45.4	29.142	45.0	41.2	34.1	28.7	39.0	39.0	40.8	40.8	E	1	SE	1	ESE	1.5	20	0.740																Fog		26	
27	29.194	46.6	29.122	49.7	41.3	37.1	36.3	38.1	38.0	39.3	39.3	E	1	Var	0.5	ENE	1.5	9	0.260																Fog		27	
28	29.486	46.3	29.638	47.7	44.4	35.1	32.7	38.4	36.8	36.0	35.9	NE	1	Var	0.5	ENE	2.5	5	0.230																	Fog		28
29	29.292	48.3	29.442	51.9	48.0	35.2	29.4	42.3	42.3	38.0	36.7	SW	1	NW	0.5	SSW	3	6	0.240																		29	
30																																						30
31																																						31
Sums.		856.786	1325.5	856.922	1331.2	1224.1	937.8	88.2	106.5	104.6	105.9	1032.2	29.5	27.0		165.2	440.5																					
Means.		29.544	45.7	29.579	45.9	41.8	22.3	29.2	36.7	36.1	35.6		1.02	0.93		57	0.442																					
† Total Corrections for Instru- mental Errors.		-0.013	-	-0.013	-	+0.2	+0.1	-0.2	0	0	0	0																										
† Corre- ctions for Diurnal Range.																																						
"Cor- rected" Means.		29.531	45.7	29.536	45.9	42.1	32.4	29.0	36.7	36.1	35.6		1.02	0.93		57	0.442																					
No. of		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30							

BAROMETER, "corrected Mean" at 9 A.M., minus the Correction \uparrow for Temp. (Col. 2), = 29.486 at Beverly
for Temp. (Col. 2), = 29.531 - 0.045
"Corrected Mean" of Barometer at 9 P.M., minus the Correction \uparrow for Temp. (Col. 4), = 29.490
for Temp. (Col. 4), = 29.536 - 0.046
Mean at Station, corrected, and at 32°, = 29.488 29.530
Correction for height, 139 1/2 feet above Mean Sea-level, = +0.157 +0.115
Mean, reduced to 32°, and Sea-level, = 29.645 29.645
Highest Reading, corrected for Index error, on the 6 th, = 30.091 30.133
Lowest Do. Do. on the 18 th, = 28.713 28.755
Difference, or **Monthly Range**, = 1.378 1.378

S.-R. THERMOMETER, (in shade, etc.), **Highest in Month**, (corrected for Index Errors), on the 22 th, = 57.5
Lowest in Month, corrected for Index errors, on the 10 th, = 25.1
Difference, or **Monthly Range**, = 26.4
"Corrected Mean" of all the **Highest**, (Col. 5), = 42.1
"Corrected Mean" of all the **Lowest**, (Col. 6), = 32.4
Difference, or **Mean Daily Range**, = 9.7
** Calculated **Mean Temperature** of Month, = 37.2
S.-R. THERMOMETER, **Black Bulb in Sun**, **Highest**, (corrected for Index Errors), on the th, =
"Corrected Mean", (Col. 7), of **Black Bulb**, **Max. in Sun**, =
Lowest at Night, **Black Bulb**, (corrected for Index errors), on the 21 th, = 20.2
"Corrected Mean", (Col. 8), of **Black Bulb**, **Min. on grass**, = 29.0
Difference of above Means or Range ("exposed"), =

HYGROMETER, **Mean** (corrected) A.M. and P.M. Reading of **Dry Bulb**, (Cols. 9 and 11), = 36.5
Mean (corrected) A.M. and P.M. Reading of **Wet Bulb**, (Cols. 10 and 12), = 35.9
Computed **Temperature of Dew-Point**, = 35.0
Do. **Elastic Force of Vapour**, = 2.14 0.205 in.
Do. **Weight of Vapour in a Cubic Foot of Air**, ... = 2.42 grs.
Relative Humidity, (Saturation = 100), = 95.5
RAIN fell on 27 Days; Amount in Inches, = 4.405

WIND.		SUMMARY.									
Direction.		N	NE	E	SE	S	SW	W	NW	Calm or Variable.	Mean Force.
A.M.	1	3	5	2	0	6	3	6	3	1.02	
P.M.	2	1	1	5	0	5	4	7	4	0.93	
Mean.	2	2	3	4	0	5	3	6	4	0.98	= 0.95

Evaporation = 0.845 in

Observations made and Return verified by Alex. Beverly, assisted by Wm. Dawson, Janitor, Grammar School, Aberdeen.

(Signed) Alex. Beverly

Greatest daily range = 15.7 on the 21st

SCOTTISH METEOROLOGICAL SOCIETY.

Observations taken at Hammerhead, Culterstone Road, County of Aberdeen, in Lat. 57° 8' 3" N, Long. 2° 7' 35" W, Distance from Sea 2 1/2 miles.Height of Cistern of the Barometer above Mean Sea-level 139 1/2 feet, above Ground 15 1/2 feet.During the MONTH of March 1876.

The Hours of Observation are of Greenwich Time.

ELECTRICITY.	Days of Month.	13. T. BAROMETER.				SELF-REGISTERING THERMOMETERS. Read Daily, at 9 P.M.				HYGROMETER. No. 2237				WIND.				RAIN.		CLOUDS.				THERMOMETERS under Ground.				SEA.	OZONE.	GENERAL REMARKS. As to occurrence of Thunder, Lightning, Storms, Hail, Meteors, Remarkable Depression or Elevation of Barometer, Prevalent Diseases, etc. Mention the hour at which Storms, including Thunder and Lightning, began and ended.		Days of Month.
		9 h. A.M.		9 h. P.M.		Protected in Shade, 4 feet above Ground.		Exposed Black Bulbs.		9 h. A.M.		9 h. P.M.		9 h. A.M.		9 h. P.M.		9 A.M.		P.M.		9 h. A.M.		P.M.								
		Barometer. No. 226	Attached Ther- mometer	Barometer. No. 226	Attached Ther- mometer	Max. No. 232	Min. No. 107	Max. No. 232	Min. No. 232	Dry bulb.	Wet bulb.	Dry bulb.	Wet bulb.	Direction.	Force.	Direction.	Force.	Velocity (0-10), and Species.	Amount (0-10), and Species.	Velocity (0-10), and Species.	Amount (0-10), and Species.	No. 3 inches.	12 inches.	No. 22 inches.								
		inches.	inches.	inches.	inches.																											
		9 h. A.M.	9 h. P.M.	9 h. A.M.	9 h. P.M.	9 h. A.M.	9 h. P.M.	9 h. A.M.	9 h. P.M.	9 h. A.M.	9 h. P.M.	9 h. A.M.	9 h. P.M.	9 h. A.M.	9 h. P.M.	9 h. A.M.	9 h. P.M.	9 h. A.M.	9 h. P.M.	9 h. A.M.	9 h. P.M.	9 h. A.M.	9 h. P.M.	9 h. A.M.	9 h. P.M.	9 h. A.M.	9 h. P.M.					
1	29.194	47.9	29.170	50.1	49.9	33.9	27.7	42.1	41.7	40.5	39.3	SW	1.5	W	1	SSW 3	1	0.010		7	LS	4							Light, 9 P.M.	1		
2	29.246	47.7	29.382	49.6	50.6	36.0	32.1	40.0	38.6	37.2	36.0	W	1.5	W	1	WSW 2.5	6	0.220		7	LS	6							Light, 9 P.M.	2		
3	29.156	48.0	28.750	50.1	52.0	35.3	31.0	41.8	41.8	46.7	44.0	S	1.5	SW	4	WSW 5	2	0.010		9	LS	4							Fog A.M.	3		
4	28.796	48.4	28.994	51.0	49.9	40.0	38.4	42.9	40.8	44.7	42.0	SW	2.5	NW	1.5	WSW 6	0	0		7	LS	7									4	
5	29.266	51.0	29.174	52.9	50.8	40.0	38.4	45.9	42.3	41.2	40.7	SW	1.5	SW	1	NW 3	1	0.010		7	LS	5								Hail	5	
6	28.986	49.4	29.008	50.8	49.2	38.1	32.2	42.0	38.6	40.0	36.8	W	1	W	1.5	WSW 2.5	0	0		6	LS	7									6	
7	29.110	49.6	29.312	48.0	44.4	32.8	30.0	37.3	34.4	36.0	33.4	W	1	NW	1	NW 3	0	0		4	LS	8								Honfret	7	
8	29.180	47.2	28.450	48.0	43.1	33.2	28.6	38.0	36.4	36.2	36.0	SW	0.5	SW	0.5	SSW 4	6	0.310		9	LS	3								Sleet	8	
9	28.070	46.6	27.934	45.5	40.0	32.6	30.4	35.2	33.0	34.1	34.0	SW	1	NW	1	NW 4	10	0.600		9	N	0								Snow	9	
10	28.030	42.9	28.194	43.8	42.6	33.3	31.4	36.2	35.7	38.2	38.0	NW	2	NW	1.5	NW 4	12	0.695		9	N	2								Snow, Sleet	10	
11	28.704	44.3	28.910	46.2	47.3	33.4	31.0	39.9	38.5	34.6	34.1	NW	1	NW	1	NW 1.5	0	0		7	LS	6										11
12	28.922	46.0	29.100	45.0	40.7	30.7	28.6	38.3	37.0	31.9	31.0	N	1	NW	1	NW 2	6	0.140		8	N	5								Snow, hail	12	
13	29.198	43.0	28.946	43.9	37.3	22.3	18.9	30.7	29.8	34.3	33.5	SW	1	SW	1	WSW 1.5	3	0.040		9	LS	2								Snow	13	
14	28.800	46.6	28.648	46.7	47.0	32.4	26.7	42.8	40.7	35.3	34.9	SW	1	SW	0.5	WSW 2	4	0.030		8	LS	4								Mock sun 8-9 am	14	
15	28.430	45.0	28.892	45.0	43.0	31.6	29.3	35.3	35.1	34.3	33.5	W	1.5	NW	2.5	NW 4	6	0.150		7	N	5								Snow, Sleet	15	
16	29.060	43.7	29.222	45.7	41.0	28.8	26.4	35.6	35.0	31.9	30.9	NW	2	NW	0.5	NW 3	6	0.105		4	N	8								Snow, hail	16	
17	29.362	42.6	29.480	43.6	39.0	25.3	25.1	31.6	31.0	34.0	34.0	NW	1	NW	2.5	NW 4-5	8	0.150		8	N	3								Snow	17	
18	29.848	42.0	29.680	40.4	39.0	25.9	28.9	34.7	33.4	32.1	32.1	N	1.5	N	5	NW 5-6	15	0.320		8	N	3								Snow - Terrible gale in evening, snow & rain, much blown.	18	
19	29.966	41.1	30.010	40.3	37.3	27.0	28.9	32.3	32.1	28.5	28.5	NW	1.5	NW	1.5	NW 4	6	0.165		7	N	6								Snow, hail	19	
20	29.960	41.0	29.880	43.0	41.0	26.0	23.4	35.3	34.3	31.7	31.3	NW	1.5	NW	1	NW 2	3	0.025		7	LS	8								Snow, hail. So. Ha. 11 AM.	20	
21	29.830	43.2	30.084	46.0	41.0	28.0	24.4	37.3	36.6	36.3	35.3	NE	1	NE	1	ESE 1.5	4	0.135		7	LS	6								Snow, hail, Sleet	21	
22	30.010	46.0	29.804	45.4	42.0	26.3	21.2	36.7	35.9	38.0	37.3	NE	1	NW	1.5	NW 2	4	0.070		9	LS	6									Snow, Sleet, hail	22
23	29.628	45.0	29.418	49.0	49.3	36.5	32.8	40.4	39.6	41.3	41.0	NW	0.5	SW	0.5	WSW 1	1	0.010		9	LS	5										23
24	29.362	48.2	29.664	51.4	48.0	36.3	32.1	43.0	42.6	40.0	40.0	SW	1	SE	0.5	SW 1.5	2	0.020		3	LS	6								Fog, etc.	24	
25	29.844	49.0	29.748	48.7	41.9	37.0	32.4	39.0	38.7	38.7	38.0	SE	1.5	S	1	SE 2	6	0.025		9	LS	0								Fog	25	
26	29.506	45.1	29.454	44.2	39.0	35.7	35.1	37.0	36.8	37.0	35.0	SW	1.5	SW	2	SW 2.5	5	0.045		10	LS	0								Snow	26	
27	29.444	43.6	29.460	44.3	39.0	32.4	29.8	36.0	35.4	37.3	36.0	SE	1	SE	1	SSE 2	10	0.190		10	N	2								Snow, Sleet.	27	
28	29.370	44.4	29.168	44.8	39.0	33.6	32.3	37.9	36.0	38.5	38.0	SE	1	SE	0.5	ESE 1.5	15	0.430		10	N	0								Snow, Sleet, hail	28	
29	29.140	46.2	29.264	48.0	50.9	36.4	35.0	40.1	39.6	39.0	38.1	SW	0.5	NW	0.5	WSW 1	6	0.205		7	LS	3										29
30	29.276	49.4	29.400	50.8	48.0	38.0	32.5	42.6	42.3	41.5	41.3	E	0.5	E	0.5	ESE 1.1	3	0.010		10	LS	2								Fog	30	
31	29.496	49.3	29.452	50.3	44.0	33.6	30.3	41.7	40.9	42.7	42.3	NW	0.5	SW	0.5	WSW 1	12	0.385		10	LS	1								Fog. Th. L. afternoon evening (Sunday)	31	
Sums.		71.190	1423.4	706.072	1452.5	1363.2	812.4	144.1	1189.6	1157.6	1133.7	1126.3	37.0	40.0	4.505	241	127															
Means.		29.23	45.9	29.228	46.9	44.1	32.8	29.8	38.7	37.2	37.2	36.3	1.19	1.29	0.145	7.8	4															
+ Total Corrections for Instrumental Errors.		-0.013	-	-0.013	-	+0.2	+0.1	-0.2	0	0	0	0																				
+ Corrections for Diurnal Range.																																
Corrected Means.		29.219	45.9	29.215	46.9	44.3	32.8	29.6	38.4	37.2	37.2	36.3	1.19	1.29	0.145	7.8	4															
No. of Column.		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	

BAROMETER, "corrected Mean" at 9 A.M., minus the Correction \uparrow for Temp. (Col. 2), = 29.174
for Temp. (Col. 2), = 29.174 - 0.043...
"Corrected Mean" of Barometer at 9 P.M., minus the Correction \uparrow for Temp. (Col. 4), = 29.167
for Temp. (Col. 4), = 29.167 - 0.044...
Mean at Station, corrected, and at 32°, = 29.171 29.213
Correction for height, $\frac{139 \frac{1}{2}}{101 \frac{1}{2}}$ feet above Mean Sea-level, = 0.157 + 0.114
Mean, reduced to 32°, and Sea-level, = 29.328 29.327
Highest Reading, corrected for Index error, on the 19 th, = 29.997 30.040
Lowest Do. Do., on the 9 th, = 27.921 27.964
Difference, or Monthly Range, = 2.076 2.076

S.-R. THERMOMETER, (in shade, etc.), Highest in Month, (corrected for Index Errors), on the 3rd th, = 52.2
Lowest in Month, corrected for Index errors, on the 13th th, = 22.4
Difference, or Monthly Range, = 29.8
"Corrected Mean" of all the Highest, (Col. 5), = 44.3
"Corrected Mean" of all the Lowest, (Col. 6), = 32.8
Difference, or Mean Daily Range, = 11.5
** Calculated Mean Temperature of Month, = 38.5
S.-R. THERMOMETER, Black Bulb in Sun, Highest, (corrected for Index Errors), on the th, =
"Corrected Mean," (Col. 7), of Black Bulb, Max. in Sun, =
Lowest at Night, Black Bulb, (corrected for Index errors), on the 13th th, = 18.7
"Corrected Mean," (Col. 8), of Black Bulb, Min. on grass, = 29.6
Difference of above Means or Range ("exposed"), =

Evaporation = 1.815 in.

HYGROMETER, Mean (corrected) A.M. and P.M. Reading of Dry Bulb, (Cols. 9 and 11), = 37.8
Mean (corrected) A.M. and P.M. Reading of Wet Bulb, (Cols. 10 and 12), = 36.8
Computed Temperature of Dew-Point, = 35.5
Do. Elastic Force of Vapour, = 0.208 in.
Do. Weight of Vapour in a Cubic Foot of Air, ... = 2.46 grs
Relative Humidity, (Saturation = 100), = 92.5
RAIN fell on 27 Days; Amount in Inches, = 4.505
4.970

WIND.												SUMMARY.		
Direction.	N	NE	E	SE	S	SW	W	NW	Calm or Variable.	Mean Force.	Mean Velocity in miles per hour.			
A.M.	2	2	1	3	1	9	4	8	1	1.19				
P.M.	1	1	1	3	1	8	3	12	1	1.29				
Mean.	1	2	1	3	1	9	3	10	1	1.24				

Observations made and Return verified by Alex. Beveridge, assisted by Wm. Dawson
Janitor, Grammar School, Aberdeen

N.B. Additional readings of Bar. were made on 8th, 9th, 14th, 15th
The reading at 9 P.M. was lower than any other made that day (or any day since I began to observe in Jan., 1864.)

(Signed) Alex. BeveridgeGreatest Daily Range 16.7 on the 30th

Aber der
Mar. 1846-

BOOK POST.

Mr ALEXANDER BUCHAN,

EDINBURGH

Have the goodness also to state any information you may be able to collect relative to the crops of Gram, Hay, Potatoes, Turnips, Fruits, etc., whether plentiful, or in perfection; whether any have suffered from blight, disease, etc. Whether Epizootic disease prevails among cattle; and the Agricultural condition of the district generally.

FOREST TREES.		In Flower.		In Leaf.		Diseased or		CROPS.		Sowing or		In Ear.		First Out	
Alder.	Barley.	.	.	.	.	.	.	.
Asp.	Bere or Bigg.	.	.	.	.	.	.	.
Beech.	Oats.	.	.	.	.	.	.	.
Birch.	Wheat.	.	.	.	.	.	.	.
Elm.	Beans.	.	.	.	.	.	.	.
Larch.	Pease.	.	.	.	.	.	.	.
Lim.	Potatoes.	.	.	.	.	.	.	.
Oak.	Turnips.	.	.	.	.	.	.	.
Sycamore or Plane.	Rye Grass.	.	.	.	.	.	.	.

EDINBURGH, December 1874.
(by Order)
A.D.

EDINBURGH, December 1874.
(by Order)
A.D.

SCOTTISH METEOROLOGICAL SOCIETY.

Observations taken at Hammerfield, Cuparstone Road, Aberdeen, County of Aberdeen, in Lat. 57° 8' 3" N, Long. 2° 7' 35" W, Distance from Sea 2 1/4 miles.
Height of Cistern of the Barometer above Mean Sea-level 139 1/4 feet, above Ground 15 1/4 feet. During the MONTH of April 1876.

The Hours of Observation are of Greenwich Time.

ELECTRICITY.	Days of Month.	B.T. BAROMETER.				SELF-REGISTERING THERMOMETERS. Read Daily, at 9 P.M.				HYGROMETER. No. 2237				WIND.				RAIN.				CLOUDS.				THERMOMETERS under Ground.				SEA.	OZONE.	GENERAL REMARKS. As to occurrence of Thunder, Lightning, Storms, Hail, Meteors, Remarkable Depression or Elevation of Barometer, Prevalent Diseases, etc. Mention the hour at which Storms, including Thunder and Lightning, began and ended.		Days of Month.																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																										
		9 h. A.M.		9 h. P.M.		Protected in Shade, 4 feet above Ground.		Exposed Black Bulbs. 7022.		9 h. A.M.		9 h. P.M.		9 h. A.M.		9 h. P.M.		9 h. A.M.		9 h. P.M.		9 h. A.M.		9 h. P.M.																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																				
		Barometer. No. 226	Atmospheric Thermometer	Barometer. No. 226	Atmospheric Thermometer	Max. No. 225	Min. No. 107	Max. in Sun. 7022.	Min. on Grass. No. 225	Dry bulb.	Wet bulb.	Dry bulb.	Wet bulb.	Direction.	Force.	Direction.	Force.	9 h. A.M. No. 225	9 h. P.M. No. 225	9 h. A.M. No. 225	9 h. P.M. No. 225	9 h. A.M. No. 225	9 h. P.M. No. 225	9 h. A.M. No. 225	9 h. P.M. No. 225																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																			
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BAROMETER, "corrected Mean" at 9 A.M., minus the Correction†† = 29.655
for Temp. (Col. 2), = 29.718 - 0.063.....
"Corrected Mean" of Barometer at 9 P.M., minus the Correction†† = 29.649
for Temp. (Col. 4), = 29.715 - 0.066.....
Mean at Station, corrected, and at 32°, = 29.652 29.693
Correction for height, 189 1/4 feet above Mean Sea-level, = +0.155 +0.113
Mean, reduced to 32°, and Sea-level, = 29.807 29.806
Highest Reading, corrected for Index error, on the 6 th, = 30.311 30.352
Lowest Do. Do., on the 20 th, = 28.925 28.966
Difference, or Monthly Range, = 1.386 1.386

S.-R. THERMOMETER, (in shade, etc.), Highest in Month, (corrected for Index Errors), on the 8 th, = 62.6
Lowest in Month, corrected for Index errors, on the 13 th, = 24.4
Difference, or Monthly Range, = 38.1
"Corrected Mean" of all the Highest, (Col. 5), = 50.1
"Corrected Mean" of all the Lowest, (Col. 6), = 37.5
Difference, or Mean Daily Range, = 12.6
** Calculated Mean Temperature of Month, = 43.8
S.-R. THERMOMETER, Black Bulb in Sun, Highest, (corrected for Index Errors), on the th, =
"Corrected Mean," (Col. 7), of Black Bulb, Max. in Sun, =
Lowest at Night, Black Bulb, (corrected for Index errors), on the 13 th, ... = 21.4
"Corrected Mean," (Col. 8), of Black Bulb, Min. on grass, = 34.4
Difference of above Means or Range ("exposed"), =

Evaporation = 2.680 inches

HYGROMETER, Mean (corrected) A.M. and P.M. Reading of Dry Bulb, (Cols. 9 and 11), = 44.1
Mean (corrected) A.M. and P.M. Reading of Wet Bulb, (Cols. 10 and 12), = 41.8
Computed Temperature of Dew-Point, = 39.1
Do. Elastic Force of Vapour, = 0.238 in.
Do. Weight of Vapour in a Cubic Foot of Air, ... = 2.75 lbs
Relative Humidity, (Saturation = 100), = 82.8
RAIN fell on 14 Days; Amount in Inches, = 2.928

WIND.											
SUMMARY.											
Direction.	N	NE	E	SE	S	SW	W	NW	Calm or Variable.	Mean Force.	Mean Velocity in miles per day.
A.M.	3	1	4	5	1	10	2	4	0	1.00	
P.M.	1	4	4	2	2	9	1	7	0	1.00	
Mean.	2	3	4	4	1	9	2	5	0	1.00	1.00

Observations made and Return verified by Alex. Beverly, assisted by, Wm. Dawson, Janitor, Grammar School, Aberdeen.

(Signed) Alex. Beverly.

Greatest Daily Range 22.4 on the 2nd

Over den
April 1876.

Mr. ALEXANDER BUCHAN.

Secretary of the Meteorological Society of Scotland,

EDINBURGH.

BOOK POST.

Temperature of Wells.

When practicable, to be taken, both the length of the well and of the water being noted.

Mention what Test-Papers are used, Schönbéin's or Mofatt's, etc.

The paper is affixed by a pin to a board in the monitor box, and the indications registered on the scale.

On the 19th 12.21.

In connection with the following remarks—this $\frac{25}{100}$ of an Ozonæ cylinder, the shade will indicate the Ozonæ paper is fixed as 9 on the scale, that the wind is from the N. W., and that its force on the scale, that is 0—6 is 4, or blowing fresh.

assigned. The use of contractions ought, therefore, to be given every advantage of, and a list of such words and contractions given at the foot of the column. It ought to be given in this column to observations great differences in character, colour, velocity, and direction between the Lower and Upper Strata of Clouds, the Colour of the Sky, &c. Remarks ought to be made on the occurrence of Meteors, Auroræ Boreales, remarkable depressions, deviations, and fluctuations of the Barometre, Thunder Storms, and remarkable falls of Snow, Hail, or Rain, the Hour of Storms of Wind commencing, attaining their maximum, and ending as well as such notes on Storms as have been noted at above. When lofty hills are in the vicinity of Station, they

The Council recommend Observers, before purchasing new instruments, and in replacing old ones, to communicate with the Meteorological Secretary, in order that every instrument may be examined and approved before being used; and they consider it necessary that he should have full power to reject any instrument which, on being presented for comparison, does not afford him satisfaction.

(By Order) A. B.

EDINBURGH. December 1874.

(By Order) A. B.

OBSERVATIONS IN CONNECTION WITH THE PERIODICAL RETURN OF THE SEASONS.

[illegible]

Wind. The accuracy of the Observations of the time and Force, is so essential towards the right Discussion of many of the more important problems of the science, that a Wind-Vane ought to be elevated at least 12 feet above surrounding objects. When it oscillates necessarily, the mean direction should be taken. In all cases, but especially when the Vane is very small, the wind is feebly, reference may be made to the direction of smoke, etc. Careful observations are recommended to be made on the changes in the direction of the wind and turning

GRADIENTS, and other points connected with storms. The Council would recommend the Hemispherical-Cup Anemometer, a self-registering instrument which shows the amount of Wind that passes in per day, and also the time of day, also the mean velocity of the wind, and the time of day of its prevalence.

Observation may be secured by indicating the Force of the Wind at any particular hour of observation, the Pressure Anemometer being recommended by the Society by Messrs. J. B. Stiles and J. H. McGee, and the Anemometer by Messrs. H. P. Rogers and Mr. R. Balling, the latter at Fallaba, are recommended as likely to secure uniformity in making observations on the Force of the Wind.

Many causes conspire to produce anomalies in Rain Returns, arising partly from the difficulty of obtaining a

is rare, it being found that a stem projecting above the water surface seriously interferes with the proper measurement of the Rain Gauge. When a projecting class is used, care should be taken to hold it quite perpendicular. The Rain Gauge ought to be read daily at 9 A.M., and the reading entered in the *Readings* of the previous day. If the Gauge is read once a month, the reading is to be made on the first of the month, and the amount entered for the previous month. Since falls vary so much, it is better to make the readings on the first of the month, and the amount entered for the previous month, as before. Since falls vary so much, it is better to make the readings on the first of the month, and the amount entered for the previous month, as before.

Conditions :—When a Snow

For the previous month, registered in the rain columns,

of detection or inference.

Convenient abbreviations for the nomenclature of Clouds will be found on the other side. The amount of Cloud ought to be estimated from the greater or less obscuration of the sky overhead (*viz.* within 20° or 30° of the zenith).—The status of Clouds that appear near the horizon are viewed obliquely; and thus, being unable to judge of their amount, we ought not to take them into account in the Clouds-column,—though appearances and changes may be noted among them, thus, when the sky over-Cloud is entered from a state of 0 to 10, thus, when the sky over-head is free from Clouds it is entered 0, when half covered by the Cloud, 5, fully covered, 10.

Observations of the position and currents of the upper and lower regions of the atmosphere, as well as of the clouds, are to be made in the following manner.—Thus, in the column Velocity and Direction, 6, S. W., will indicate that the upper strata of Clouds travel with a S. W. wind, and those in the lower regions from extreme velocity from S. W.; and these in the second column, W., with one-third the speed of the former. Again, in the second column, an entry of $\frac{1}{4}$, st., will indicate that the higher strata of clouds are moving at the rate of $\frac{1}{4}$ mile per hour, and that the sky is further observed to the extent of 2-tenths by the lower Clouds of the annulo-stratus kind.

Remarks on peculiar Clouds, accompanied with drawings, will assist materially in the development of a more exact knowledge of Clouds, as well as throw light on the electrical, and other of the more obscure phenomena of Meteorology, which objects in the sun's rays cast shadows, should be entered in the properties column.

As the germination and growth of crops and plants generally depend greatly on the temperature of the soil,—its humidity, amount and constancy,—the Council recommend that observations in this interesting department be made daily, at 9 A.M. by Thermometers permanently fixed in the soil, their bulbs being sunk to depths of 3, 12, and 22 inches, and the stems above ground protected from the sun's rays, and fitted with sloping thin collars, to prevent rain water being conveyed to the bulbs by the stems or wooden frames.

A knowledge of the Temperature of the Sea is not only in itself important, but in its relations to that of our Island, a most important and potent branch of Meteorology. The Council therefore fore recommended that the Temperatures of the Sea be carefully taken by a properly constructed apparatus, from land and coast, where it is not influenced by the effluvia of rivers and freshets, if this be impracticable, from the ends of piers and rocks, and as little influenced as possible by currents sweeping along the coast; and this requiring the temperature of radiation, either readily obtained by the

Professors Phillips and Negretti and Zambelli's Maximum Thermometers, and Phillips' and Zambelli's Minimum Thermometers, are recommended. It is recommended that these Thermometers be graduated on the glass stem. The maximum Thermometer is liable to two temptations, — viz., the loss of spirit breaking, and part of the spirit distilling by high temperature and lodging at the top of the thermometer, and the occasional occurrence of the so-called "faded" Thermometers, but of course, with Exposed Thermometers. Hence a system of their use, with a minimum of Minimum Thermometers ought to be a regular part of the work carried on by each Observer.

and a piece of black rubber mat were placed over the thermometer to register the greatest heat. The bulbs of the thermometers were placed in the sun, away from the heat from radiation from the sun's rays, and the black coating, which may easily be made by dipping the bulb in black ink, was applied by the application of a mixture of lamp black and water's ink. They are placed in shallow blacked tin cans, whose sides protect the bulbs from the wind. The Minimum thermometer should be freely exposed to the sun, and the Maximum thermometer should rest on wooden supports a few inches from the surface of the grass, in an open situation. Snow must not be allowed to cover either of these thermometers; nor the sun's heat be allowed to affect the Minimum thermometer by distillation. Black bulbs enclosed in "glass jackets" may also be used, being indel preferable to the above. It must, however, be added, that the whole subject of the observation of Solar and Terrestrial Radiation is not yet in sufficiently advanced state to warrant the exclusive recommendation of any one of the methods.

[illegible]

The 150-gram packages were stored at 9 A.M. and 9 P.M. The Self-Registering Thermometers were read at 9 P.M. only, as indicating the greatest and least degrees of temperature in the 24 hours preceding. It is not a matter of indifference when the Self-Registering Thermometers are read, since in winter the extremes may occur at any hour; and it is necessary to register the occurrence of their proper meteorological conditions. Society's schedules, the individual schedules, and the weather forecasts are being communicated at 9 P.M. on the 24, and extending till 9 P.M. on the 3d.

No instrument ought to be used for Meteorological purposes till its testimony could be confirmed by other means.

Verification of Standard Thermometers. When such Thermometers are required to be carefully tested by comparison with 100 standard Thermometers, the following points require attention:

1. The thermometers to be tested should be compared with the Standard Thermometers, if possible, by immersion in a water bath, and not graduated on the stem, but merely on an attached scale, undergo repairs, they are very liable to be moved from their position on the Scale, and self-registering, especially those used without being re-tested. The Self-registering, especially those Minimum Thermometers, ought frequently to be compared with the dry bulb of the Hygrometer. The freezing-point of each Thermometer, marked by a scratch on the tube, ought to be tested once a year, in snow or melting ice.

2. In selecting instruments, the following points require attention:—

(a) The divisions of the water of Thermometers in reference to their scales.

one of the chief objects that the Scottish Meteorological Society proposed to itself when the Society was first established in 1855, was to secure exact uniformity in the system of observation pursued at all its stations. Uniformity in observations is absolutely necessary to justify the publication of Monthly Results from different observations, it being found that differences between the returns from two Stations, arising from dissimilarity in the position or the incompleteness of the apparatus, were very considerable as to render them of little use for general purposes. It was therefore deemed expedient to procure different kinds of observation, or even from a set of differently constructed instruments. It is therefore hoped, that those who kindly furnish Reports to the Society will, by their zealous attention to the following Directions, secure for their Monthly Returns, an accuracy and value commensurate with the pains involved in making them; and, for the Tables published by the Society, an entire comprehensiveness with the Reports returned, without which the Society's Reports must inevitably be in achieving one of the main objects of Meteorological Observation.

The Council recommend that Observations be made precisely at 9 A.M. and 9 P.M. (Greenwich or Railway Time only), as specified in the following remarks, or that the observations be made at the same hour, and at the same place, as specified in the columns of the Schedule. It is hoped that the uniformity of the columns in the time of reading these instruments will be almost punctuality in the time of reading them, and that this impossible; Observers, in some few cases, may find it hard opposite every such instance; they are specially requested to mark opposite every reading the time at which it was taken, and to indicate by the Weather-Glasses and Anemids, though well suited to indicate roughly variations of atmospheric pressure, are not so adapted for meteorological purposes. No Barometer should be used for Meteorological Observation that is not supplied with the means of adjustment or compensation which will secure that the surface of the mercury in the tube is accurately measured from the surface of the mercury in the cistern.

The Barometer in which the error arising from the fluctuating surface of the mercury in the cistern is entirely got rid of is Fothergill's Barometer, the arrangement consisting in applying pressure by means of a screw to the bottom of the cistern, which is made of a flexible leather, thus raising or depressing the surface till it just touches the ivory point which forms the zero point of the fixed scale. The Barometer originally constructed by Mr Alder of London, and called usually after the Board of Trade Barometer, has the same convenience of requiring no adjustment of the cistern. As the surfaces are not true inches, but so much shorter as to require the error that would otherwise arise from the fluctuating surface of the mercury in the cistern. This is fully obviates the error of the ordinary Observers, inasmuch as it gives rise to few cases in setting the instrument to show the zero point of the fixed scale when the light is not brought to the zero point of the ivory point, these Barometers are made, with the exception of the Board of Trade Barometer, with a fixed scale, and may be stated, that the memory of the zero point of the scale of the Society's Standard Barometer, particular care being given to the same, is so complete, that the error arising from the surface of the mercury in the cistern, when atmospheric pressure was rising or falling very rapidly, with the result that none of the readings differed from the true value of the Standard more than 0.003 inch.

from those of the Standard, into the Barometer, is used at a number of the Society's Stations, by which the prevalence of the zero point with the surface of the mercury is ascertained by a little ivory float, whose motion passes freely through the glass tube, and is connected with the index-line on this height line, with those on its ivory frame, the curvature of the mercury taking at the exact height from which the observation is graduated. This preliminary settling of the zero point is being made with greatulous accuracy, as a slight error here will vitiate the readings from the vernier.

It is absolutely necessary that the Barometer which is to be used, shall have been compared with a Standard Barometer. The Barometer should be suspended in as good a light as can be secured, and should facilitate the reading, a piece of white paper may be placed behind the tube. It must be hung truly perpendicular, the tube being exposed to neither the sun's direct rays nor the heat of a fire, and must not be hung against a wall heated by a fire. The object being to ascertain mercury, and the attached Thermometer, shall hang at our uniform temperature, it is evident that the best position for the instrument, which is least liable to sudden changes of temperature, is in taking an Observation, The Attached Thermometer is first noted, the tube must then be gently tapped, and the column adjusted carefully made. The eye, by raising and lowering it, usually brought into the plane of the back and front of the index,—adjusted so that the lower edge of the vernier, which must be carefully adjusted so that the vernier exactly a tangent to the convex surface of the mercury in the tube. Observations must be taken quickly; so as to prevent the least from the observer's hands and person affecting the mercury. The use of a lens will facilitate an accurate adjustment and reading of the Barometer. A mistake not unfrequently made by those beginning to observe, consisting in setting the edge of the vernier to the level of the rear surface of the mercury which is in direct contact with the glass tube, must be carefully avoided.

ment. With the new glass frequently made in reading the Barometer are removed of 1400 inch, 0.000 inch, and 0.050 inch; that is to say, the removal of 20-365 inches, either of the 28.863 inches or 29.845 inches, viz. as 20-365 inches, 28-863 inches, 29-863 inches or 29-845 inches. Experience having shown that even the very best Observers make these mistakes, particular attention is directed to the matter.

When a Barometer having adjustable surfaces has to be removed from its fastenings, the ivory peg must first be screwed so as to form a tight plug to the cistern, thus preventing the escape of the air. Then screw up the mercury not quite to the top of the tube, but to within a quarter of an inch of it, and take down the instrument, if should then be carried with the cistern open, without the space above the Barometer for use, it must be ascertained whether the space above the mercury is a complete vacuum; this is the case if, on making the top of the tube, a sharp tap is produced when the mercury is shaken. If not, the instrument is not a perfect vacuum. If a dull tap is heard, there is air in the tube, which must be got rid of.

is in the tube, which must be got out, by the introduction of air. As Barometeres are liable to be damaged, by the introduction of air into their tubes, on account of the place to place, or in being roughly handled, it may be useful to Officers to know how the air may be expelled. First the screw up the cistern by turning the ivory peg tight, so as to prevent the escape of mercury; then screw up the mercury to about an inch from the top of the tube; and having slowly moved the instrument, place the top of it on a yielding substance, such as the foot, and gently tap on the cistern with the palm of the hand, so as to induce the air to ascend through the column to the cistern, and choose it may escape. Since there is the weight of two or three inches—the pressure of the mercury in the Barometer, the air is usually a tedious operation to get it wholly expelled. After repeated trials, however, it is generally accomplished; and the clear metallic sound of the mercury, when gently struck against the top of the glass tube, will show when the whole of the air has been expelled. On heaving up the Barometer, care must be taken to screw down the mercury in the tube before unfastening the screw of the cistern, for if this be not attended to the mercury will flow out, and the instrument be seriously damaged.

SCOTTISH METEOROLOGICAL SOCIETY.

Observations taken at Hammerfield, Cuparshire Road, County of Aberdeen, in Lat. 57° 3' N, Long. 2° 7' 35" W, Distance from Sea 2 1/2 miles.

Height of Cistern of the Barometer above Mean Sea-level 139 1/2 feet, above Ground 15 1/2 feet.

During the MONTH of May 1876.

The Hours of Observation are of Greenwich Time.

ELECTRICITY.	Days of Month.	B. J. BAROMETER.				SELF-REGISTERING THERMOMETERS. Read Daily, at 9 P.M.				HYGROMETER. No. 2237				WIND.				RAIN.		CLOUDS.				THERMOMETERS under Ground.				SEA.	OZONE.	GENERAL REMARKS.		Days of Month.																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																									
		9 h. A.M.		9 h. P.M.		Protected in Shade, Heat above Ground.		Exposed Black Bulb 922m.		9 h. A.M.		9 h. P.M.		9 h. A.M.		9 h. P.M.		9 A.M.		P.M.		9 h. A.M.		Temperature of WELL at depth of feet. 36.	Temperature at 1 foot and Depth.	9 A.M.	9 P.M.																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																														
		Barometer. No. 2226	Attached Thermometer	Barometer. No. 2226	Attached Thermometer	Max. No. 7332	Min. No. 107	Max. in Sun's rays No. 2252	Min. on Grass. No. 2252	Dry bulb.	Wet bulb.	Dry bulb.	Wet bulb.	Direction.	Force.	Direction.	Force.	No. of hours in which it fell.	Amount in inches. No. 2232	Velocity (0-10), and Direction.	Amount. (0-10), and Species.	Velocity (0-10), and Direction.	Amount. (0-10), and Species.										No. 3	12	No. 22																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																						
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NOTATION USED IN GENERAL REMARKS.

a.	aurora.	m.	denotes meteor.
ci.	cirrus.	ms.	denotes meteor.
ci-cu.	cirro-cumulus.	n.	nimbus.
cu.	cumulus.	r.	rain.
cu-s.	cumulo-stratus.	h. r.	heavy rain.
d.	dew.	c. h. r.	continued heavy rain.
f.	fog.	s.	stratus.
fr.	frost.	sc.	squall.
h. fr.	hoar-frost.	s.	snow.
h. d.	heavy dew.	so. ha.	solar halo.
h. l.	light clouds.	sq.	squall.
h. sh.	light showers.	sq. s.	squalls.
lu. co.	lunar corona.	t. s.	thunder.
lu. ha.	lunar halo.	w.	wind.
		g.	gale of wind.

TABLE FOR ESTIMATING FORCE OF WIND.

Estimated Force, 0-6.	Common Designation.	Estimated Force, 0-6.	Common Designation.	Estimated Force, 0-6.	Common Designation.
0	Calm	1.5	Light breeze	4	Blowing hard
0.5	Very light air	2	Fresh breeze	5	Blowing a gale
1	Light air	3	Very fresh	6	Violent gale

BAROMETER, “corrected Mean” at 9 A.M., minus the Correction†† for Temp. (Col. 2), = 29.988
 “Corrected Mean” of Barometer at 9 P.M., minus the Correction†† for Temp. (Col. 4), = 29.997
 Mean at Station, corrected, and at 32°, = 29.992 30.035
 Correction for height, feet above Mean Sea-level, = +1.55 1.12
 Mean, reduced to 32°, and Sea-level, = 30.147 30.147
 Highest Reading, corrected for Index error, on the 9 th, = 30.494
 Lowest Do. Do., on the 22 th, = 29.482
 Difference, or Monthly Range, = 1.012

S.-R. THERMOMETER, (in shade, etc.), Highest in Month, (corrected for Index Errors), on the 28 th, = 72.7
 Lowest in Month, corrected for Index errors, on the 3 th, = 33.1
 Difference, or Monthly Range, = 39.6
 “Corrected Mean” of all the Highest, (Col. 5), = 56.8
 “Corrected Mean” of all the Lowest, (Col. 6), = 41.7
 Difference, or Mean Daily Range, = 15.1
 ** Calculated Mean Temperature of Month, = 49.2
 S.-R. THERMOMETER, Black Bulb in Sun, Highest, (corrected for Index Errors), on the th, =
 “Corrected Mean,” (Col. 7), of Black Bulb, Max. in Sun, =
 Lowest at Night, Black Bulb, (corrected for Index errors), on the 4 th, = 27.7
 “Corrected Mean,” (Col. 8), of Black Bulb, Min. on grass, = 37.6
 Difference of above Means or Range (“exposed”), =

HYGROMETER, Mean (corrected) A.M. and P.M. Reading of Dry Bulb, (Cols. 9 and 11), = 49.8
 Mean (corrected) A.M. and P.M. Reading of Wet Bulb, (Cols. 10 and 12), = 45.7
 ‡ Computed Temperature of Dew-Point, = 41.8
 ‡ Do. Elastic Force of Vapour, = .266
 ‡ Do. Weight of Vapour in a Cubic Foot of Air, = 3.00
 ‡ Relative Humidity, (Saturation = 100), = 74
 RAIN fell on 12 Days; Amount in Inches, = 0.610
 Total Wet, = 0.540

WIND.	SUMMARY.									
	Direction.	N	NE	E	SE	S	SW	W	NW	Mean Force.
A.M.		2	8	0	3	2	8	0	6	2
P.M.		0	9	0	3	1	13	1	3	1
Mean.		1	8	0	3	2	10	1	4	2

Evaporation = 4.86

Observations made and Return verified by

The Correction for ch. Hygrometer, and
 32° - 52° 0
 53° - 72° - 0.1

(Signed) Ally. Beverly

Greatest Daily Range 27.9 on the 4th

