

SCOTTISH METEOROLOGICAL SOCIETY.

Observations taken at Bogside, Lochet-Cushnie, County of Aberdeen, in Lat. 57°10'50", Long. 2°45'00", Distance from Sea 28 miles.
Height of Cistern of the Barometer above Mean Sea-level 885 feet, above Ground 3 feet. During the MONTH of January, 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. ———				WIND.				RAIN.		CLOUDS.				SUNSHINE. Hours.	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.												
		Barometer.	Attach- ed Ther- mometer.	Barometer.	Attach- ed Ther- mometer.	Max.	Min.	Max. in Sun/shade	Min. on Grass.	Dry bulb.	Wet bulb.	Dry bulb.	Wet bulb.	Direction.	Force.	Direction.	Force.	Readings of the H. Cup Anemometer. No. ———	No. of hours in which it fell.	Amount in inches.	Velocity (0-10), and Direction.	Amount (0-10), and Species.	Velocity (0-6), and Direction.		Amount. (0-10), and Species.	No. 3 inches.	No. 12 inches.					No. 22 inches.		
		* No. ———	inches.	No. ———	inches.	No. ———	No. ———	No. ———	No. ———	No. ———	No. ———	No. ———	No. ———	No. ———	No. ———	No. ———	No. ———	No. ———	No. ———	No. ———	No. ———	No. ———	No. ———		No. ———	No. ———	No. ———					No. ———	No. ———	No. ———
		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.	9 h. A.M.	9 h. P.M.
1	29.000	42	29.050	44	40	37	43	24	34	33	38	36	5	5	5	05150	—	—	—	7	—	—	—	—	—	—	—	—	—					
2	29.130	43	29.000	42	37	30	39	21	32	31	34	33	5	5	1	14030	—	—	10 at	10 at	—	—	—	—	—	—	—	—						
3	29.020	42	29.130	44	45	33	42	27	38	37	45	43.5	5	5	1.5	26380	—	—	8 at	10 at	—	—	—	—	—	—	—	—						
4	29.260	45	29.310	47	45	40	47	31	44	43	45	44	5	5	1.5	51920	—	—	10 at	10 at	—	—	—	—	—	—	—	—						
5	29.330	45	29.440	47	45	40	45	36	41	40	41	40.5	5	5	5	72570	—	—	10 at	10 at	—	—	—	—	—	—	—	—						
6	29.550	46	29.700	45	41	34	41	29	39	39	34	34	5	5	1.5	86940	—	—	10 at	10 at	—	—	—	—	—	—	—	—						
7	29.740	40	29.700	40	34	31	40	29	32	31	33	32	5	5	1.5	05250	—	—	10 at	10 at	—	—	—	—	—	—	—	—						
8	29.500	40	29.240	40	33	28	33	26	33	32	28	27	5	5	5	66380	—	—	10 at	10 at	—	—	—	—	—	—	—	—						
9	29.400	38	29.440	38	28	16	32	7	18	18	26	25	5	5	5	22000	—	—	10 at	10 at	—	—	—	—	—	—	—	—						
10	29.600	38	29.550	40	33	25	36	22	32	31	32	30.5	5	5	5	84940	—	—	10 at	10 at	—	—	—	—	—	—	—	—						
11	29.520	39	29.230	37	31	28	36	13	25	23	30	29	5	5	1	03140	—	—	5 ci	—	—	6	—	—	—	—	—	—						
12	29.070	38	29.400	38	37	30	40	25	36	34	35	34	5	5	5	50890	—	—	5 at	4 at	—	—	—	—	—	—	—	—						
13	29.600	39	29.630	39	37	29	40	19	35	34	29	28	5	5	5	87760	—	—	10 at	3 at	5	—	—	—	—	—	—	—						
14	29.650	38	29.620	43	36	20	51	12	24	23	34	35	5	5	5	91540	—	—	6 at	10 at	3	—	—	—	—	—	—	—						
15	29.570	41	29.400	43	46	33	46	26	38	37	46	41	5	5	3	24450	—	—	10 at	10 at	2	—	—	—	—	—	—	—						
16	29.250	41	29.350	44	50	37	51	31	42	38	39	36	5	5	5	20970	—	—	8 ci	3 at	4	—	—	—	—	—	—	—						
17	29.290	42	28.800	42	38	35	39	27	37	35	38	37	5	5	2	30910	—	—	10 at	10 at	3	—	—	—	—	—	—	—						
18	28.750	42	29.100	44	44	37	48	30	41	38	38	37	5	5	5	60280	—	—	—	10 at	3	—	—	—	—	—	—	—						
19	28.800	42	28.600	46	47	34	48	26	42	39	43	42	5	5	1	21450	—	—	10 ci	10 at	2	—	—	—	—	—	—	—						
20	28.560	42	28.820	43	45	30	46	28	39	35	31	31	5	5	1	29810	—	—	10 ci	10 at	3	—	—	—	—	—	—	—						
21	29.000	40	29.140	40	32	22	42	13	26	25	23	22	5	5	5	41020	—	—	—	—	—	7	—	—	—	—	—	—						
22	29.200	37	28.950	39	36	19	41	9	24	23	35	33	5	5	4	92910	—	—	10 at	10 at	3	—	—	—	—	—	—	—						
23	29.070	40	28.830	40	48	35	48	35	43	40	48	44	5	5	4	60120	—	—	10 at	10 at	—	—	—	—	—	—	—	—						
24	29.100	40	29.440	45	49	38	50	28	20	35	39	36	5	5	5	63230	—	—	—	—	—	8	—	—	—	—	—	—						
25	29.470	45	29.450	45	44	37	49	30	41	39	41	38	5	5	2	25300	—	—	—	3 ci	7	—	—	—	—	—	—	—						
26	29.160	44	29.200	47	45	38	45	33	43	40	45	43	5	5	5	82990	—	—	7 at	10 at	2	—	—	—	—	—	—	—						
27	29.200	46	29.200	50	46	42	48	36	45	43	45	44	5	5	1	11080	—	—	5 at	10 at	3	—	—	—	—	—	—	—						
28	29.230	48	29.380	49	46	38	58	31	43	41	41	41	5	5	5	33120	—	—	3 at	10 at	4	—	—	—	—	—	—	—						
29	29.300	47	29.240	49	44	38	44	29	39	38	42	41	5	5	1.5	51640	—	—	8 at	10 at	2	—	—	—	—	—	—	—						
30	29.240	47	29.245	47	40	37	43	31	41	40	38	38	5	5	5	82890	—	—	10 at	—	4	—	—	—	—	—	—	—						
31	29.170	48	29.100	50	50	37	50	30	49	47	48	45	5	5	2.5	31650	—	—	10 at	10 at	—	—	—	—	—	—	—	—						
Sums.	1010	65	127	13	14	14	13	14	13	13	15	131	300	375	103																			
Means.	29.249	42.1	29.248	43.5	41.0	32.5	43.9	25.6	36.7	34.6	37.5	36.1	1.0	12																				
† Total Corrections for Instrumental Errors.	-100		-100																															
† Corrections for Diurnal Range.																																		
"Corrected Means."																																		
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				

NOTATION USED IN GENERAL REMARKS.					
a.	denotes aurora.	m.	denotes meteor.		
ci.	" cirrus.	mx.	" meteora.		
ci-cu.	" cirro-cumulus.	n.	" nimbus.		
ci-s.	" cirro-stratus.	r.	" rain.		
cu.	" cumulus.	h. r.	" heavy rain.		
cu-s.	" cumulo-stratus.	c. h. r.	" continued heavy rain.		
d.	" dew.	s.	" stratus.		
f.	" fog.	sc.	" scud.		
fr.	" frost.	s.	" sleet.		
h-fr.	" hoar-frost.	s.	" snow.		
h. d.	" haze.	sol. h.	" solar halo.		
hl.	" heavy dew.	sq.	" squall.		
hl.	" hail.	sq.	" squalls.		
l.	" lightning.	t.	" thunder.		
li. cl.	" light clouds.	t. s.	" thunder storm.		
li. sh.	" light showers.	w.	" wind.		
lu. co.	" lunar corona.	g.	" gale of wind.		
lu. ha.	" lunar halo.				

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

NOTATION USED IN GENERAL REMARKS.

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

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†† = 29.344
for Temp. (Col. 2), = 29.349 - 0.35
"Corrected Mean" of Barometer at 9 P.M., minus the Correction†† = 29.308
for Temp. (Col. 4), = 29.348 - 0.40
Mean at Station, corrected, and at 32°, = 29.311
Correction for height, feet above Mean Sea-level, = 979
Mean, reduced to 32°, and Sea-level, = 30.290
Highest Reading, corrected for Index error, on the 7 th, = 29.640
Lowest Do. Do., on the 20 th, = 28.460
Difference, or Monthly Range, = 1.180

S-R. THERMOMETER, (in shade, etc.), Highest in Month, (corrected for Index Errors), on the 31 th, = 50.0
Lowest in Month, corrected for Index errors, on the 9 th, = 16.0
Difference, or Monthly Range, = 34.0
"Corrected Mean" of all the Highest, (Col. 5), = 41.0
"Corrected Mean" of all the Lowest, (Col. 6), = 32.5
Difference, or Mean Daily Range, = 08.5
** Calculated Mean Temperature of Month, = 36.8
S-R. THERMOMETER, Black Bulb in Sun, Highest, (corrected for Index Errors), on the 28 th, = 58.0
"Corrected Mean," (Col. 7), of Black Bulb, Max. in Sun, = 43.9
Lowest at Night, Black Bulb, (corrected for Index errors), on the 9 th, = 7.0
"Corrected Mean," (Col. 8), of Black Bulb, Min. on grass, = 25.6
Difference of above Means or Range ("exposed"), =

HYGROMETER, Mean (corrected) A.M. and P.M. Reading of Dry Bulb, (Cols. 9 and 11), = 371
Mean (corrected) A.M. and P.M. Reading of Wet Bulb, (Cols. 10 and 12), = 354
†† Computed Temperature of Dew-Point, = 33.0
†† Do. Elastic Force of Vapour, = 188
†† Do. Weight of Vapour in a Cubic Foot of Air, = 85
†† Relative Humidity, (Saturation = 100), = 85
RAIN fell on 7 Days; Amount in Inches, = 1.03

Direction.	SUMMARY.										Mean Force.	Mean Velocity in miles per day.
	N	NE	E	SE	S	SW	W	NW	Calm or Variable.			
A.M.					2	10	12	6	1			
P.M.	2		1	1	6	12	8	1				
Mean.	1	0	1	1	8	12	7	1	0			

* Each instrument tested at the Office in Edinburgh bears the stamp "S.M.S.," and a number to be entered in the Heading; or the Number and Initials of the Maker may be here given.
† Enriching corrections for both capillarity and Index Errors.
† The Diurnal Range for Scotland is as yet unknown.
†† These "Hygrometrical Deductions" are calculated from Glaisher's Hygrometrical Tables, Second Edition only.
While the Diurnal Range is unknown, the Arithmetic Mean of Cols. 5 and 6 will be entered as the "Calculated Mean Temperature."
Any Observations not taken under the conditions specified in the Directions on the other side, or noted at the Top of each column, must be marked as such by the observer, in each Schedule. See over.

Observations made and Return verified by William Bruce
Bogside, Lochet-Cushnie

(Signed) William Bruce
The weather has been excellent for the season during the month, and farm labour which was in arrears is now brought up. Turnips in many cases scarce, as a good many of them especially on low ground are rotted. Little or no disease in the district people in general healthy. Cattle and sheep of all kind healthy, except a few cases of foot- and mouth disease among the cattle.

slowly inverted 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, whence it may escape. Since there is the weight of two atmospheres—the pressure of the mercury in the Barometer, and the air outside—pressing on any air that may be inside the tube, it 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 bringing up the Barometer, care must be taken to screw down the mercury in the tube before unscrewing the float 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 Bogside, Lochel-Cushnie, County of Aburdeen, in Lat. 57° 10' 50", Long. 2° 45' 0" W, Distance from Sea 2.8 miles.
Height of Cistern of the Barometer above Mean Sea-level 885 feet, above Ground 3 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. _____				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.		Readings of the H. Cup Anemometer. No. _____ 9 h. A.M.		No. of hours in which it fell.	Amount in inches.	9 A.M.		P.M.		9 h. A.M.											
		Barometer. * No. _____ inches.	Attach- ed Ther- mometer No. _____ inches.	Barometer. No. _____ inches.	Attach- ed Ther- mometer No. _____ inches.	Max. No. _____	Min. No. _____	Max. in Sun's rays No. _____	Min. on Grass. No. _____	Dry bulb. No. _____	Wet bulb. No. _____	Dry bulb. No. _____	Wet bulb. No. _____	Direc- tion.	Force.	Direc- tion.	Force.	Velocity (0-10), and Dirrec- tion.	Amount (0-10), and Species.			Velocity (0-10), and Dirrec- tion.	Amount (0-10), and Species.	No. _____ 8 inches.	No. _____ 12 inches.	No. _____ 22 inches.											
																															SUNSHINE.		Temperature of Water at foot of Wind, No. _____		Temperature at 10 feet and Density, No. _____	9 A.M.	9 P.M.
																															Hours.	Velocity (0-10), and Dirrec- tion.	Amount (0-10), and Species.	Velocity (0-10), and Dirrec- tion.			
1	28.980	48	28.920	50	47	43	48	39	46	45	42	41	SW	5	SW	1	95570	—	10 at	10 at	—	—	—	—	—	—	—	1									
2	28.980	45	28.840	47	41	35	46	27	36	34	36	35	SW	5	SW	1.5	65670	10	—	10 at	5	—	—	—	—	—	—	2									
3	28.850	44	28.820	45	37	32	37	24	35	34	33	30	W	1.5	W	1	39810	—	—	2 at	6	—	—	—	—	—	—	3									
4	29.100	41	29.200	42	37	31	40	23	33	32	32	32	SW	1.5	SW	1.5	37160	18	10 at	10 at	4	—	—	—	—	—	—	4									
5	29.300	43	29.300	40	35	30	40	20	32	31	35	34	W	1.5	W	2	593370	04	10 at	—	4	—	—	—	—	—	—	5									
6	29.270	40	29.310	42	37	29	38	20	34	33	34	33	W	5	W	2	598680	—	10 at	10 at	3	—	—	—	—	—	—	6									
7	29.340	40	29.300	41	35	26	58	18	27	26.5	29	29	W	—	W	—	500210	07	2 at	10 at	2	—	—	—	—	—	—	7									
8	29.310	39	29.210	40	30	25	35	12	29	28	31	30	W	5	W	2	502230	12	10 at	10 at	—	—	—	—	—	—	—	8									
9	29.110	40	29.120	39	32	28	35	20	30	29.5	28	28	W	5	W	2	507530	11	10 at	10 at	2	—	—	—	—	—	—	9									
10	29.120	39	29.140	39	32	20	38	13	23	21	32	30	W	5	W	2	507820	16	10 at	10 at	—	—	—	—	—	—	—	10									
11	29.000	39	28.900	42	35	26	40	20	32	31.5	34	33	SW	1.5	SW	1.5	67360	63	10 at	10 at	—	—	—	—	—	—	—	11									
12	29.000	40	29.030	39	34	25	51	15	27	26.5	25	24.5	W	5	W	2	583760	09	5 at	7 at	6	—	—	—	—	—	—	12									
13	28.970	40	28.900	39	30	21	43	12	25	25	27	26	SE	5	W	1	09130	16	10 at	10 at	2	—	—	—	—	—	—	13									
14	28.800	38	28.750	38	33	21	46	15	26.5	26	26	26	W	5	W	2	523490	30	10 at	10 at	3	—	—	—	—	—	—	14									
15	28.430	38	28.390	40	38	26	50	20	33	32	33	32.5	W	1.5	W	2	573000	—	10 at	5 at	2	—	—	—	—	—	—	15									
16	28.370	40	28.430	40	42	32	52	26	34	33	39	35.5	SW	5	SW	2	09770	—	6 at	—	5	—	—	—	—	—	—	16									
17	28.570	41	28.590	44	44	36	59	32	40	39	37	36	W	5	W	2	545790	03	10 at	10 at	2	—	—	—	—	—	—	17									
18	28.340	42	28.040	43	37	34	38	29	36	35	36	35	W	5	W	2	550240	55	10 at	10 at	—	—	—	—	—	—	—	18									
19	28.040	42	28.460	43	36	30	50	27	36	35	31	30	W	1.5	W	1.5	03560	—	10 at	6 at	2	—	—	—	—	—	—	19									
20	28.650	40	28.940	41	33	21	48	14	22	21	21	20.5	W	5	W	2	521000	—	—	10 at	6	—	—	—	—	—	—	20									
21	28.720	38	28.460	42	39	17	40	11	34	33	39	38	SE	1.5	W	2	535040	03	10 at	10 at	—	—	—	—	—	—	—	21									
22	28.510	42	28.500	45	44	32	57	28	41	38	38	36	SW	2	W	2	594240	—	5 at	6 at	5	—	—	—	—	—	—	22									
23	28.520	42	28.750	43	38	34	38	30	37	36	34	32	SW	1.5	W	1.5	29690	10	10 at	10 at	3	—	—	—	—	—	—	23									
24	28.860	40	29.110	40	33	25	40	20	33	32	25	24	SW	3	SW	5	08800	12	10 at	10 at	4	—	—	—	—	—	—	24									
25	29.000	39	28.690	39	33	21	33	16	27	26	32	31	W	5	W	2	32560	35	10 at	10 at	—	—	—	—	—	—	—	25									
26	28.500	40	28.440	42	36	26	37	28	33	32.5	36	35	W	5	W	2	557530	50	10 at	10 at	—	—	—	—	—	—	—	26									
27	28.500	41	28.410	42	35	32	36	30	33	33	35	35	W	5	W	2	561770	35	10 at	10 at	—	—	—	—	—	—	—	27									
28	28.800	40	28.880	42	38	32	59	29	33	32	32	32	W	5	W	2	572160	18	10 at	10 at	—	—	—	—	—	—	—	28									
29	28.600	42	28.680	44	43	32	63	29	38	37	37	35	W	5	W	1.5	01870	07	—	2 at	6	—	—	—	—	—	—	29									
30																												30									
31																												31									
Sums.	137	23A90	23	23600	53	19A242	129	67	755	475	79	490	260				250		424																		
Means.	28810	409	28.814	418	567	283	444	223	326	318	327	317	9				9																				
† Total Corrections for Instru- mental Errors.	-100		-100																																		
† Corrections for Diurnal Range.																																					
“Cor- rected Means.”																																					
No. of Column.	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									

NOTATION USED IN GENERAL REMARKS.					
a.	denotes aurora.	m.	denotes meteor.		
ci.	cirrus.	nas.	meteors.		
ci.-cu.	cirro-cumulus.	n.	nimbus.		
ci.-s.	cirro-stratus.	p.	rain.		
cu.	cumulus.	h. r.	heavy rain.		
cu.-s.	cumulo-stratus.	c. h. r.	continued heavy rain.		
d.	dew.	s.	stratus.		
f.	fog.	sc.	scud.		
fr.	frost.	s.	sleet.		
h.-fr.	hoar-frost.	s.	snow.		
h.	haze.	sol.ha.	solar halo.		
h. d.	heavy dew.	sq.	squall.		
hl.	hail.	sqe.	squale.		
l.	lightning.	t.	thunder.		
ll. cl.	light clouds.	t. s.	thunder storm.		
ll. sh.	light showers.	w.	wind.		
lu. co.	lunar corona.	g.	gale of wind.		
lu. ha.	lunar halo.				
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	2-3	Fresh breeze	5	Blowing a gale
1*	Light air	5	Very fresh	6	Violent gale

BAROMETER, "corrected Mean" at 9 A.M., minus the Correction†† = 28.878
for Temp. (Col. 2), = 28.910 - 0.32 }
"Corrected Mean" of Barometer at 9 P.M., minus the Correction†† = 28.880
for Temp. (Col. 4), = 28.914 - 0.34 }
Mean at Station, corrected, and at 32°, = 28.879
Correction for height, feet above Mean Sea-level, = 990
Mean, reduced to 32°, and Sea-level, = 29.869
Highest Reading, corrected for Index error, on the 7 th, = 29.240
Lowest Do. Do., on the 19 th, = 27.940
Difference, or Monthly Range, = 1.300

S.-R. THERMOMETER, (in shade, etc.), Highest in Month, (corrected for Index Errors), on the 1 th, = 47.0
Lowest in Month, corrected for Index errors, on the 21 th, = 17.0
Difference, or Monthly Range, = 30.0
"Corrected Mean" of all the Highest, (Col. 5), = 36.7
"Corrected Mean" of all the Lowest, (Col. 6), = 28.3
Difference, or Mean Daily Range, = 8.4
** Calculated Mean Temperature of Month, = 32.5
S.-R. THERMOMETER, Black Bulb in Sun, Highest, (corrected for Index Errors), on the 26 th, = 63.0
"Corrected Mean," (Col. 7), of Black Bulb, Max. in Sun, = 46.4
Lowest at Night, Black Bulb, (corrected for Index errors), on the 21 th, = 11.0
"Corrected Mean," (Col. 8), of Black Bulb, Min. on grass, = 22.3
Difference of above Means or Range ("exposed"), =

HYGROMETER, Mean (corrected) A.M. and P.M. Reading of Dry Bulb, (Cols. 9 and 11), = 326
Mean (corrected) A.M. and P.M. Reading of Wet Bulb, (Cols. 10 and 12), = 316
†† Computed Temperature of Dew-Point, = 29.6
†† Do. Elastic Force of Vapour, = 164
†† Do. Weight of Vapour in a Cubic Foot of Air, ... =
†† Relative Humidity, (Saturation = 100), = 88
RAIN fell on 21 Days; Amount in Inches, = 4.24
WIND. SUMMARY.
Direction. N NE E SE S SW W NW Calm or Variable. Mean Force. Mean Velocity in miles per day.
A.M. 4 2 2 4 7 4 1
P.M. 6 8 2 2 9 2
Mean. 5 0 8 1 0 3 8 3 1

* Each instrument tested at the Office in Edinburgh bears the stamp "S.M.S.," and a number to be entered in the Heading; or the Number and Initials of the Maker may be here given.
† The Journal Range for Scotland is as yet unknown.
†† Frequently, though not absolutely a mean correction.
‡ These "Hygrometrical Deductions" are calculated from Gladstone's Hygrometrical Tables, Second Edition only.
§ While the Journal Range is unknown, the Arithmetic Mean of Cols. 4 and 5 will be entered as the "Calculated Mean Temperature."
Any Observations not taken under the conditions specified in the Directions on the other side, or noted at the Top of each column, must be marked as such by the observer, in each Schedule. See over.

Observations made and Return verified by William Bruce
Bogside, Lochel-Cushnie

The weather has been wintering through the month, very little out door work has been got done. Turnips very scarce, straw plentiful. Several cases of inflammation on the lungs, and severe cold has been very prevalent with the above exceptions people healthy. Cattle healthy.

SCOTTISH METEOROLOGICAL SOCIETY.

Observations taken at Bogside, Leochel-Cushnie, County of Aburdeen, in Lat. 57°10'50", Long. 2°45'00", Distance from Sea 28 miles.
Height of Cistern of the Barometer above Mean Sea-level 885 feet, above Ground 3 feet. During the MONTH of March 1876.
The Hours of Observation are of Greenwich Time.

ELECTRICITY.	Days of Month.	BAROMETER.				SELF-REGISTERING THERMOMETERS. Read Daily, at 9 P.M.				HYGROMETER.				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.																			
		Barometer.	Attach- ed Ther- mometer	Barometer.	Attach- ed Ther- mometer	Max.	Min.	Max. in Sun-rays.	Min. on Grass.	Dry bulb.	Wet bulb.	Dry bulb.	Wet bulb.	Direction.	Force.	Direction.	Force.	No. of hours in which it fell.	Amount in inches.	Velocity (0-6) and Direction.	Amount (0-10), and Species.	Velocity (0-6) and Direction.	Amount (0-10), and Species.	No. 3 inches.	12 inches.	No. 22 inches.															
		* No.	inches.	No.	inches.	No.	No.	No.	No.	No.	No.	No.	No.	No.	No.	No.	No.	No.	No.	No.	No.	No.	No.	No.	No.	No.					No.	No.									
	1	28.440	42	28.420	44	44	33	63	28	37	36	40	38	Y	1.5	N	2	39130	—	10 at	3 at	4								1											
	2	28.500	41	28.610	42	45	36	53	32	41	38	35	34	N	5	N	1.5	36750	20	3 at	—	6								2											
	3	28.400	42	28.080	47	53	34	55	30	38	38	44	43	Y	1.5	N	3	76930	—	10 at	3 at	5								3											
	4	28.050	44	28.230	46	46	39	54	37	41	38	42	41	Y	3	N	1.5	01460	02	10 at	4 at	4								4											
	5	28.530	45	28.500	45	45	38	53	35	46	43	38	37	N	2	Y	5	00120	05	3 at	10 at	3								5											
	6	28.240	43	28.300	45	45	35	54	30	42.5	40	35	32	N	2	N	5	14730	—	2 at	—	6								6											
	7	28.380	40	28.570	43	37	30	46	25	34	31	32	31	N	1.5	N	1.5	30990	04	2 at	—	5								7											
	8	28.440	41	27.890	43	38	31	40	25	36	34	34	33	Y	5	Y	5	73270	08	10 at	10 at	—								8											
	9	27.400	41	27.300	40	36	32	37	28	32	31	32	32	N	1.5	N	3	87420	70	10 at	10 at	—									9										
	10	27.400	40	27.660	41	35	30	38	26	34	33	35	34	N	3	N	2.5	42080	36	10 at	10 at	3									10										
	11	27.900	41	28.100	42	39	32	55	26	34	33	32	31	N	5	N	5	83910	28	10 at	—	6									11										
	12	28.120	41	28.380	41	33	28	43	24	32	31	29	29	N	5	N	1	38710	06	10 at	5 at	5									12										
	13	28.460	37	28.130	39	33	20	39	11	28	26.5	30	29	Y	1.5	Y	1.5	67420	—	10 at	10 at	4									13										
	14	28.100	39	28.000	41	39	32	47	28	40	37	32	32	N	2	N	1.5	51670	—	4 at	10 at	6									14										
	15	27.760	38	28.200	40	35	28	40	23	32	31	32	30	N	2	N	3	92730	32	4 at	10 at	5									15										
	16	28.400	37	28.500	40	34	24	44	18	27	26	28	28	N	1	N	1.5	79220	30	3 at	10 at	7									16										
	17	28.650	38	28.600	40	30	22	39	15	26	26	30	29	N	2	N	3	50580	33	10 at	10 at	6									17										
	18	29.000	38	29.110	38	30	23	35	18	25	24	25	24	N	1.5	N	3	63430	80	4 at	10 at	4									18										
	19	29.240	38	29.270	38	30	24	41	17	28	27	27	26	N	1.5	N	2	76290	18	3 at	5 at	6									19										
	20	29.200	37	29.140	39	32	25	41	21	27	26	29	28	N	1.5	N	5	42630	03	7 at	10 at	5									20										
	21	29.070	38	29.270	42	35	27	46	22	29	28	31	30	N	5	N	1	78340	—	10 at	3 at	4									21										
	22	29.270	39	29.100	41	34	25	41	13	35	33	35	33	N	5	N	1.5	35740	08	10 at	10 at	3									22										
	23	28.910	41	28.900	41	43	34	50	30	38	36	38	36	N	1.5	N	5	39490	—	10 at	10 at	2									23										
	24	28.770	44	28.900	43	44	35	57	31	38	37	38	37	N	5	N	5	25330	02	10 at	10 at	0									24										
	25	29.110	45	29.070	45	37	34	37	30	36	35.5	35	34	N	5	N	5	32070	07	10 at	10 at	—									25										
	26	28.760	42	28.700	43	36	32	37	28	36	35	33	33	Y	5	Y	1	46710	33	10 at	10 at	—									26										
	27	28.700	40	28.700	41	37	30	52	25	32	31	33	33	Y	5	Y	5	57260	14	10 at	10 at	—									27										
	28	28.670	41	28.480	42	34	32	34	29	33	32	32	32	Y	5	N	5	09210	25	10 at	10 at	—									28										
	29	28.500	41	28.540	46	43	32	58	25	37	35	40	38	Y	5	Y	5	29560	22	10 at	10 at	2									29										
	30	28.550	45	28.640	44	41	36	48	32	38	37.5	40	39	N	5	N	5	23080	02	10 at	10 at	—									30										
	31	28.740	44	28.700	45	41	32	41	28	37	35	40	40	Y	5	Y	5	23600	27	10 at	10 at	—									31										
	Sums.	15640	23	15990	67	254	15	178	170	139	145	126	96	375	415	515																									
	Means.	28.505	407	28.516	422	38.2	30.5	45.7	25.3	34.5	33.0	34.1	33.1	1.2	1.3																										
	+ Total Corrections for Instrumental Errors.	-100		-100																																					
	+ Corrections for Diurnal Range.																																								
	+ "Cor- rected Means."																																								
	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										
																																NOTATION USED IN GENERAL REMARKS.									
																																a. denotes aurora. m. denotes meteor.									
																																ci. cirrus. max. " meteors.									
																																ci.-cu. " cirro-cumulus. n. " nimbus.									
																																ci.-s. " cirro-stratus. r. " rain.									
																																cu. cumulus. h. r. " heavy rain.									
																																cu.-s. " cumulo-stratus. c. h. r. " continued heavy rain.									
																																d. dew. s. " stratus.									
																																f. fog. sc. " scud.									
																																fr. frost. s. " sleet.									
																																h.-fr. hoar-frost. s. " snow.									
																																h. haze. sol. " solar halo.									
																																h. d. heavy dew. sq. " squall.									
																																hl. hail. sqs. " squalls.									
																																l. lightning. t. " thunder.									
																																li. cl. light clouds. t. s. " thunder storm.									
																																li. sh. light showers. w. " wind.									
																																lu. co. lunar corona. g. " gale of wind.									
																																lu. ha. lunar halo.									
																																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 2-6 Fresh breeze 3-4 Blowing hard 4-5 Blowing a gale 5-6 Violent gale									

a.	denotes aurora.	m.	denotes meteor.		
ci.	" "	mx.	" "		
ci-cu.	" "	n.	" "		
ci-s.	" "	r.	" "		
cu.	" "	h. r.	" "		
cu-s.	" "	c. h. r.	" "		
d.	" "	s.	" "		
f.	" "	sc.	" "		
fr.	" "	sc.	" "		
h-fr.	" "	s.	" "		
h.	" "	solia.	" "		
h. d.	" "	sq.	" "		
hl.	" "	sq.	" "		
l.	" "	t.	" "		
li. cl.	" "	t. s.	" "		
li. sh.	" "	w.	" "		
lu. co.	" "	g.	" "		
lu. ha.	" "		" "		

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† = 28.374
for Temp. (Col. 2), = 28.406 - 03.1 = 28.374
"Corrected Mean" of Barometer at 9 P.M., minus the Correction† = 28.381
for Temp. (Col. 4), = 28.416 - 035 = 28.381
Mean at Station, corrected, and at 32°, = 28.378
Correction for height, feet above Mean Sea-level, = 985
Mean, reduced to 32°, and Sea-level, = 29.363
Highest Reading, corrected for Index error, on the 19 th, = 29.270
Lowest Do. Do. on the 9 th, = 27.300
Difference, or Monthly Range, = 1.970

S.-R. THERMOMETER, (in shade, etc.), Highest in Month, (corrected for Index Errors), on the 3 th, = 53.0
Lowest in Month, corrected for Index errors, on the 13 th, = 20.0
Difference, or Monthly Range, = 33.0
"Corrected Mean" of all the Highest, (Col. 5), = 38.2
"Corrected Mean" of all the Lowest, (Col. 6), = 30.5
Difference, or Mean Daily Range, = 7.7
** Calculated Mean Temperature of Month, = 34.4
S.-R. THERMOMETER, Black Bulb in Sun, Highest, (corrected for Index Errors), on the th, = 63.0
"Corrected Mean," (Col. 7), of Black Bulb, Max. in Sun, = 45.7
Lowest at Night, Black Bulb, (corrected for Index errors), on the th, = 11.0
"Corrected Mean," (Col. 8), of Black Bulb, Min. on grass, = 25.5
Difference of above Means or Range ("exposed"), =

HYGROMETER, Mean (corrected) A.M. and P.M. Reading of Dry Bulb, (Cols. 9 and 11), = 34.3
Mean (corrected) A.M. and P.M. Reading of Wet Bulb, (Cols. 10 and 12), = 33.0
Computed Temperature of Dew-Point, = 30.8
Do. Elastic Force of Vapour, = 1.72
Do. Weight of Vapour in a Cubic Foot of Air, = 86
Relative Humidity, (Saturation = 100), = 86
RAIN fell on 24 Days; Amount in Inches, = 5.15

WIND.	SUMMARY.									
	Direction.	N	NE	E	SE	S	SW	W	NW	Calm or Variable.
A.M.		6	1		2	6	2	9	5	
P.M.		5	1	2	1	3	1	3	5	
Mean.		5	1	2	4	2	1	5	0	

* Each instrument tested at the Office in Edinburgh bears the stamp "S.M.S.," and a number to be entered in the Holding; or the Number and Initials of the Maker may be here given.
† Enhancing corrections for both capillary and Index Errors.
‡ The Diurnal Range for Scotland is as yet unknown.
§ Practically, though not absolutely a minus correction.
|| These "Hygrometrical Reductions" are calculated from Glaisher's Hygrometrical Tables, Second Edition only.
¶ While the Diurnal Range is unknown, the Arithmetical Mean of Cols. 5 and 6 will be entered as the "Calculated Mean Temperature."
‡ Any Observations not taken under the conditions specified in the Directions on the other side, or noted at the Top of each column, must be marked as such by the observer, in each Schedule. See over.

Evaporation 95 of an inch.

Observations made and Return verified by William Bruce
Bogside, Leochel-Cushnie

(Signed) William Bruce
The weather has been very bad during the whole month, rain sleet or snow every day except on seven, no march dust this year, field labour is getting in arrears and the ground is so wet that it will take some time before it be in good order for work. Turnips now scarce, straw plentiful. Much distress in the district, large numbers of people are laid up with severe colds, and bronchitis, whooping cough is also prevalent, and one death from Scotch cholera. Cattle healthy, many deaths among young calves.

