

SCOTTISH METEOROLOGICAL SOCIETY.

Observations taken at Adulo House, County of Aberdeen, in Lat. 57° 24', Long. 2° 14', Distance from Sea 12 miles.

Height of Cistern of the Barometer above Mean Sea-Level 180 feet, above Ground 4 feet.

During the MONTH of January 1894.

The Hours of Observation are of Greenwich Time.

ELECTRICITY.	Days of Month.	BAROMETER.				SELF-REGISTERING THERMOMETERS. Read Daily, at 9 P.M.				HYGROMETER.				Rain.	WIND.				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. Sun's rays Grass.		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.		0-10.														
		Barometer. * No.	Attached Thermometer.	Barometer. No.	Attached Thermometer.	Max. No.	Min. No.	Max. in Sun's rays.	Min. on Grass.	Dry bulb.	Wet bulb.	Dry bulb.	Wet bulb.		No. of flashes which it fell.	No.	Direction.	Force.	Direction.	Force.	Readings of the H. Cup Anemometer No.	9 h. A.M.	Velocity (0-6) 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.	Temperature of Wind at height of feet, No.	Temperature and Density.	9 A.M.	9 P.M.
		inches.	°	inches.	°	°	°	°	°	°	°	°	°		°	°	°	°	°	°	°	°	°	°	°	°		°	°			°	°	°	°	°	°	°	°
	1	30.202	37	30.228	35	36	32	36	28	34	32	33.5	32.5	+	N	N			64	15							34	26	39							1			
	2	30.204	34	30.458	33	34	30	32	25	32	30.5	32	31		N.E.	S.E.			64	28							34	26	39							2			
	3	30.516	32.5	30.566	33	34	29.5	33	26	32	30	32	30		S.E.	S.E.			75	59							34	38	39							3			
	4	30.406	34	30.260	34	34	29	35	27	32	30.5	34	32	+	E	E			81	43							34	26	39							4			
	5	30.008	34	29.632	32	34	29	34	29	32.5	31	30	30	+	E	E			96	28							33	26	38							5			
	6	29.388	25	29.438	13	31	5	32	3	23	23	9	9	+	S	S.E.			16	37							32	35	38							6			
	7	29.468	14	29.656	27	28.5	4	26	2	12	12	28	28	48	S	S.W.			18	05							30	34	37							7			
	8	29.842	26	29.678	35	36	14	35	9	25	25	36	34	+	S	S.			18	46							31	35	37							8			
	9	29.470	36	29.576	36	38	35	38	30	37	26	38	37	+	S	S.E.			31	66							32	35	37							9			
	10	29.268	29	29.386	42.5	45	38	43	37	40	39	43	42	+	S.E.	S.			41	08							32	35	37							10			
	11	29.242	43.5	29.552	42	48	37.5	47	32	45	44	42	41.5	+	S.E.	S.W.			51	34							34	35	37							11			
	12	29.370	43	29.606	40.5	47	39	46	34	43	42.5	40	38.5	+	S.E.	S.W.			63	76							37	36	37							12			
	13	29.422	43	29.442	44.5	46	39	45	36	44	42.5	45	43	+	S	S			73	75							39	37	37							13			
	14	29.468	41	29.518	37	45	32	45	29	40.5	39.5	34	32.5	+	S.W.	S			82	83							39	38	37							14			
	15	29.536	32	29.408	39.5	41	28	39	23	28.5	28	39.5	38.5		W	S.E.			83	38							34	37	37							15			
	16	29.192	41.5	29.158	43	46	34	46	31	42.5	41.5	42	40.5	+	S.W.	S.W.			87	10							36	37	37							16			
	17	29.024	43	28.952	40	46	38	48	35	43.5	42.5	39.5	38.5	+	S.E.	S.W.			90	18							38	37	37							17			
	18	28.960	42	29.234	41	45	34	45	30	41	39	41	38.5	+	W	S.W.			94	77							38	37	37							18			
	19	29.368	35	28.956	44	45	31	44	26	34	32	43	42	+	S	N.W.			07	87							38	37	38							19			
	20	28.636	42	29.046	38	46	36	52	31	41	39	37	35		S.W.	S.E.			15	66							39	38	38							20			
	21	29.106	40	29.024	35	47	30	49	24	40	38	32	30	15	S.W.	W			26	37							36	38	38							21			
	22	28.876	37	29.026	34.5	41	30	45	25	36	34.5	33	32	+	W	N			45	01							34	37	38							22			
	23	29.448	32	29.648	28	34	22	43	15	29	28	25	24.5	+	N	W			60	86							34	37	38							23			
	24	29.292	35	29.020	44	48.5	24	46	17	35	34.5	48.5	45	+	S	W			67	07							34	37	38							24			
	25	29.128	37	28.978	35	48	33	48	32	36.5	34	33	32.5	+	W	N			84	12							34	37	38							25			
	26	29.036	31.5	28.968	35	35	28	44	22	30	28.5	35	34		W	S			94	41							33	36	37							26			
	27	28.606	41	28.708	35	49	34	47	30	43.5	41.5	36	32	+	N.W.	N.W.			100	1							35	36	37							27			
	28	29.566	34	29.258	34	38.5	30	41	27	34	32	33	31	+	S.W.	N.W.			30	86							34	36	37							28			
	29	29.506	32	28.820	36	36	27	40	22	31	31	36	35	+	W	S.E.			44	02							33	38	37							29			
	30	28.718	37	28.696	36	41	33	44	31	37	34	37	35		S.W.	W			57	47							33	35	37							30			
	31	28.788	37	29.088	33.5	37	31	37	26	36	32	31.5	29.5	105	N.W.				85	58							33	35	37							31			
Sums.		13 13 16		14 14 17		17 17		11 11		11 3	12 5	13 2	12 5														1071	1122	1165										
Means.		29.357	35.8	29.384	36	41.0	29.6	41.4	25.2	35.2	33.8	35.4	34.0														34.5	36	37.6										
+ Total Corrections for Instrumental Errors.		+0.35		+0.35																																			
+ 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.	enotes meteor.
ci.	cirrus.	ms.	meteors.
ci.-cu.	cirro-cumulus.	n.	nebulae.
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.	sleet.
fr.	frost.	s.	snow.
h. fr.	hoar-frost.	so. ha.	solar halo.
h.	haze.	sq.	squall.
h. d.	heavy dew.	sq.	squalls.
hl.	hail.	t.	thunder.
l.	lightning.	t. s.	thunder-storm.
li. cl.	light clouds.	w.	wind.
li. sh.	light showers.	g.	gale of wind.
lu. co.	lunar corona.		
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.	aurora.	m.	meteors.
ci.	cirrus.	ms.	meteors.
ci-cu.	cirrus-cumulus.	n.	nebulae.
cu.	cumulus.	r.	rain.
cu-s.	cumulo-stratus.	c. h. r.	continued heavy rain.
d.	dew.	s.	stratus.
f.	fog.	sc.	squall.
fr.	frost.	s.	sleet.
h.	haze.	s.	snow.
h-d.	heavy dew.	so. ha.	solar halo.
hl.	hail.	sq.	squall.
li.	lightning.	sq.	squalls.
li. cl.	light clouds.	t.	thunder.
li. sh.	light showers.	t. s.	thunder-storm.
lu. co.	lunar corona.	w.	wind.
lu. ha.	lunar halo.	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 $\frac{1}{100}$ for Temp. (Col. 2), = 29.392.....19 = 29.373
 "Corrected Mean" of Barometer at 9 P.M., minus the Correction $\frac{1}{100}$ for Temp. (Col. 4), = 29.419.....20 = 29.399
 Mean at Station, corrected, and at 32°..... = 29.386
 Correction for height, feet above Mean Sea-level..... = 203
 Mean, reduced to 32°, and Sea-level..... = 29.589
 Highest Reading, corrected for Index error, on the 3rd th..... = 30.586
 Lowest Do. Do., on the 16th th..... = 28.566
 Difference, or Monthly Range, = 2.000

S-R. THERMOMETER, (in shade, etc.), Highest in Month, (corrected for Index Errors), on the 24th..... = 48.5
 Lowest in Month, corrected for Index errors, on the 4th..... = 40
 Difference, or Monthly Range, = 44.5
 "Corrected Mean" of all the Highest, (Col. 5), = 41.0
 "Corrected Mean" of all the Lowest, (Col. 6), = 29.6
 Difference, or Mean Daily Range, = 11.4
 ** Calculated Mean Temperature of Month, = 35.3
 S-R. THERMOMETER, Black Bulb in Sun, Highest, (corrected for Index Errors), on the 20th..... = 52.0
 "Corrected Mean," (Col. 7), of Black Bulb, Max. in Sun, = 41.4
 Lowest at Night, Black Bulb (corrected for Index errors), on the 7th th..... = 2.8
 "Corrected Mean," (Col. 8), of Black Bulb, Min. on grass, = 25.2
 Difference of above means or range ("exposed"), =

HYGROMETER, Mean (corrected) A.M. and P.M. Reading of Dry Bulb, (Cols. 9 and 11), = 35.3
 Mean (corrected) A.M. and P.M. Reading of Wet Bulb, (Cols. 10 and 12), = 33.9
 # Computed Temperature of Dew-Point, = 31.9
 # Do. Elastic Force of Vapour, = 180
 # Do. Weight of Vapour in a Cubic Foot of Air, = 88
 # Relative Humidity (Saturation = 100), = 88
 RAIN fell on 22 Days; Amount in Inches, = 1.61

WIND.		SUMMARY.			
Direction.		N	NE	E	SE
A.M.	2	1	2	5	7
P.M.	2	2	7	5	5
Mean.	2	1	2	6	6

Observations made and
Return verified by

(Signed)

SCOTTISH METEOROLOGICAL SOCIETY.

Observations taken at *Haddo House*, County of *Aberdeen*, in Lat. *57°24'*, Long. *2°14'*, Distance from Sea *12* miles.Height of Cistern of the Barometer above Mean Sea-Level *180* feet, above Ground *4* feet.During the MONTH of *February* 189*4*.

The Hours of Observation are of Greenwich Time.

ELECTRICITY.	Days of Month.	BAROMETER.				SELF-REGISTERING THERMOMETERS. Read Daily, at 9 P.M.				HYGROMETER.				Rain.	WIND.				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 h. A.M.		9 h. P.M.		9 A.M.	9 P.M.							
		No.	Barometer.	No.	Barometer.	No.	Barometer.	No.	Barometer.	No.	Barometer.	No.	Barometer.		No.	Barometer.	No.	Barometer.	No.	Barometer.	No.	Barometer.			No.		Barometer.	No.	Barometer.		
		°	inches.	°	inches.	°	inches.	°	inches.	°	inches.	°	inches.		°	inches.	°	inches.	°	inches.	°	inches.			°		inches.	°	inches.	°	
	1	29.240	29	29.026	34	35	26	38	20	28.5	28	33.5	32	+	W	S	9440						33	35	36		6	8	2 inches of Snow		1
	2	29.182	41	29.148	41	52	36	57	31	43.5	40	43	39	+	W	W	0565						33	35	36		7	6			2
	3	29.270	41	29.736	38	44.5	36	50	32	41	38	37.5	35	+	W	NW	2591						34	35	36		5	6			3
	4	29.706	43	29.712	41	52.5	35	52	30	45	42	42.5	39	+	W	W	4210						35	35	36		7	7			4
	5	29.460	36.5	29.782	38	46	31	53	24	36.5	33	37	35.5		W	S.E.	5750						34	36	36		6	6			5
	6	29.312	44	28.924	46	53	37	52	37	45	43	48	46.5	+	W	S.W.	6822						38	36	36		5	6			6
	7	28.992	43	29.182	39	51	36	48	31	46	43.5	38	35	+	NW	NW	8753						40	37	36		7	7			7
	8	29.401	41	29.444	41.5	47	36	54	32	41	37.5	42.5	38.5		NW	W	0564						36	37	37		6	5			8
	9	29.044	41	28.996	38	48	35	57	32	42	39	36	35	+	S.W.	W	3252						37	37	37		6	7			9
	10	28.816	35	28.998	34	38	31	42	29	33.5	32	33	32	+	W	W	5987						35	37	37		10	9	fale and snow storm		10
	11	28.882	34	28.236	35	36	27	35	23	33	32.5	34	33.5	+	S.W.	S	8061						33	36	37		6	9	3 inches of Snow. Fog		11
	12	28.692	35	29.114	32	38	30	42	26	34	32	30.5	29.5	+	NW	NW	8521						34	36	37		10	8			12
	13	29.520	33.5	29.705	30	35	28	47	23	32	32	29.5	29.5	+	NW	NW	9885						33	36	37		9	7			13
	14	29.846	28.5	29.912	30	35	24	50	20	27	26.5	29	29		NW	N.E.	1037						33	36	37		7	6			14
	15	29.748	20	29.802	36	37	11	41	7	16	16	36	35	+	S	S.E.	1401						32	36	37		7	9			15
	16	29.802	37	29.928	36	38	35	38	33	38	37	36	35	+	S.E.	S.E.	2506						33	36	37		10	11			16
	17	29.932	35	30.058	34	35	32	35	32	35	34	34	33	+	S.E.	S.E.	5402						33	36	37		10	9			17
	18	30.146	36	30.216	34	37	33	41	31	36	34	34	31.5		S	S.E.	7025						34	35	36		9	6			18
	19	30.080	34	30.648	36	40	32	40	31	33	30	35.5	33.5		S.E.	S	7921						33	35	36		5	6			19
	20	30.128	35	36.124	37	48	32	55	28	34	32.5	38	36		W	S.W.	8591						33	35	36		7	5			20
	21	29.834	36	36.012	37	50	32	60	28	37.5	36	34.5	33.5		S.W.	W	9008						35	36	36		6	6	Aurora		21
	22	30.008	38	29.688	38	47.5	31	58	24	38.5	35	38.5	35.5		S.W.	S.E.	9862						34	36	36		6	5			22
	23	29.378	39	28.716	38	48	34	48	28	39	37	38	34	+	S.W.	NW	0477						35	36	37		8	7	Aurora		23
	24	28.960	38	29.228	35	41	31	51	28	35.5	32	34	33	+	W	W	2536						34	36	37		6	8			24
	25	28.896	37	28.758	36	51	31	59	26	36.5	35	35	34	+	S.W.	W	4386						34	36	36		5	9	Aurora		25
	26	28.980	37	29.018	39	48	33	63	29	33	35	40	39	+	S.W.	S	6501						35	36	37		7	6			26
	27	29.036	41	29.336	36	45	34	54	29	40	36	35	32	+	NW	W	8094						35	37	37		9	6			27
	28	29.312	37	29.438	36.5	46	30	58	25	36.5	34	36.5	33	+	W	W	0126						34	37	37		5	6	Aurora very bright		28
	29																													29	
	30																													30	
	31																													31	
Sums.		824.45	10253	824.235	1026	12225	879	1378	769	10205	7625	7019	6605	2.20									962	1005	1023		197	196			
Means.		29.433	36.6	29.437	36.6	43.4	31.4	49.2	27.4	36.4	34.4	36.4	34.3									34.3	35.9	36.5		7.0	7.0				
+ Total Corrections for Instrumental Errors.		+0.35		+0.35																											
+ 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

BAROMETER, "corrected Mean" at 9 A.M., minus the Correction \ddagger = *29.447*
for Temp. (Col. 2), = *29.468*.....*2.1*.
"Corrected Mean" of Barometer at 9 P.M., minus the Correction \ddagger = *29.451*
for Temp. (Col. 4), = *29.472*.....*2.1*.
Mean at Station, corrected, and at 32', = *29.449*
Correction for height, feet above Mean Sea-level, = *2.02*
Mean, reduced to 32', and Sea-level, = *29.651*
Highest Reading, corrected for Index error, on the 18th, = *30.216*
Lowest Do. Do., on the 11th, = *28.236*
Difference, or Monthly Range, = *1.980*

S.-R. THERMOMETER, (in shade, etc.), Highest in Month, (corrected for Index Errors), on the 6th, = *53.0*
Lowest in Month, corrected for Index errors, on the 15th, = *11.0*
Difference, or Monthly Range, = *42.0*
"Corrected Mean" of all the Highest, (Col. 5), = *43.4*
"Corrected Mean" of all the Lowest, (Col. 6), = *31.4*
Difference, or Mean Daily Range, = *12.0*
** Calculated Mean Temperature of Month, = *37.4*
S.-R. THERMOMETER, Black Bulb in Sun, Highest, (corrected for Index Errors), on the 26th, = *63.0*
"Corrected Mean," (Col. 7), of Black Bulb, Max. in Sun, = *49.2*
Lowest at Night, Black Bulb (corrected for Index errors), on the 15th, = *7.0*
"Corrected Mean," (Col. 8), of Black Bulb, Min. on grass, = *27.4*
Difference of above means or range ("exposed"), =

HYGROMETER, Mean (corrected) A.M. and P.M. Reading of Dry Bulb, (Cols. 9 and 11), = *36.4*
Mean (corrected) A.M. and P.M. Reading of Wet Bulb, (Cols. 10 and 12), = *34.4*
 \ddagger Computed Temperature of Dew-Point, = *31.5*
 \ddagger Do. Elastic Force of Vapour, = *1.78*
 \ddagger Do. Weight of Vapour in a Cubic Foot of Air, =
 \ddagger Relative Humidity (Saturation = 100), = *83*
RAIN fell on 19 Days; Amount in Inches, = *2.20*

WIND.		SUMMARY.									
Direction.		N	NE	E	SE	S	SW	W	NW	Calm or Variable.	Mean Force.
A.M.					3	2	7	10	6		
P.M.		1		6	4	2	10	5			
Mean.		0	1	0	4	3	4	10	6	0	

Observations made and
Return verified by*John Forrest*

(Signed)

SCOTTISH METEOROLOGICAL SOCIETY.

Observations taken at Haddo House, County of Aberdeen, in Lat. 57° 24', Long. 2° 14', Distance from Sea 12 miles.Height of Cistern of the Barometer above Mean Sea-Level 180 feet, above Ground 4 feet.During the MONTH of March 1894.

The Hours of Observation are of Greenwich Time.

ELECTRICITY.	Days of Month.	BAROMETER.				SELF-REGISTERING THERMOMETERS. Read Daily, at 9 P.M.				HYGROMETER.				Rain.	WIND.				CLOUDS.				SUNSHINE.	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 h. A.M.		9 h. P.M.			9 h. A.M.		9 h. 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), and Species.	Amount (0-10), and Species.	Velocity (0-10), and Direction.	Amount (0-10), and Species.		No.	No.	No.		Temperature of Water at depth of feet, No.	Temperature at 1 fathom and Density.	9 A.M.	9 P.M.	
		* No.		No.		No.	No.	No.	No.	No.	No.	No.	No.		No.	No.	No.	No.	No.	No.	No.	No.		No.	No.	No.		No.	No.	No.	No.	
	1	28.951	43.5	29.022	39.5	49	35	66	32	45	42	39	35	+	S.W.	S.W.	1474						37	37	37		6	6			1	
	2	29.010	41.5	29.601	38	48	36	61	29	42.5	38.5	36	33.5		W	W	4361						37	37	37		5	5			2	
	3	29.628	41	29.506	37	48.5	33	58	26	43.5	39	35.5	33		S	S.W.	6230						35	37	37		7	6			3	
	4	29.430	36	29.678	36	47	32	62	27	35	34	35	32	+	S.W.	W	6708						35	37	37		7	7			4	
	5	29.728	38.5	29.032	39.5	41.5	31	41	27	36	33.5	41	38.5	+	S.W.	W	7583						35	37	37		5	6			5	
	6	29.844	42	29.398	42	47.5	38	58	33	42	40	39	37.5	+	N.W.	N.	9157						37	37	37		5	9			6	
	7	29.516	39.5	29.268	39	44	28	53	23	41	39	39	37.5	+	W	S.E.	0072						26	37	37		5	4			7	
	8	28.972	41.5	29.110	37	48.5	33	65	28	41	39	33	31.5	+	W	W	1463						40	38	37		10	5			8	
	9	29.124	41	28.866	40	45	32.5	50	27	40	38.5	39	37	+	S	W	2268						37	38	38		6	8			9	
	10	28.954	41	29.022	38	49	29	63	24	41	37	37.5	35	27	S.W.	S	3085						35	38	39		6	5			10	
	11	28.446	40.5	28.724	38	47	34	58	31	44.5	37.5	37.5	34		S.W.	N.W.	5067						39	38	38		9	5			11	
	12	28.772	40	28.804	38	47.5	31	55	28	41	37	37	34.5		W	W	7763						37	38	38		5	7			12	
	13	28.608	37	28.780	38	49	33	61	25	34.5	32.5	37	35	+	S.W.	N.W.	8960						35	38	38		7	7			13	
	14	29.020	40.5	29.096	37	48.5	32	62	26	39.5	36	34	31.5		W	W	9035						26	38	38		8	6			14	
	15	29.168	40.5	29.376	34	48	31	70	26	39	35.5	33	30.5		W	N.W.	0660						35	38	38		5	6			15	
	16	29.598	41	29.784	33	48.5	29	73	24	39	36.5	32	30		N.W.	N.W.	1311						35	38	38		6	7			16	
	17	29.878	40.5	29.892	37	52	22	68	18	40.5	37	35	33	02	S.W.	W	1426						34	38	38		8	6			17	
	18	29.834	41	29.908	47	64	22.5	81	18	45	41.5	49.5	46		N.E.	S.W.	1675						35	38	38		6	5			18	
	19	29.974	47	30.030	47	61	41.5	73	35	46	44	42	41.5	+	N.W.	W	2224						42	40	38		8	6			19	
	20	30.032	46	29.980	48	58	36	80	31	46	43	37	35.5		W	S.E.	2563						43	41	39		7	6			20	
	21	29.930	41	30.020	43	61	26.5	75	22	45	42	39.5	37.5		S.W.	S.W.	2854						40	42	40		6	5			21	
	22	30.106	45	30.198	41	62	27	76	24	46	43	38.5	37.5		S.E.	S.E.	3289						40	42	40		7	4			22	
	23	30.222	40.5	30.284	44	68	27	80	22	42	40	40.5	38		S.E.	S.E.	3501						40	42	40		5	4			23	
	24	30.234	44	30.174	41	63	26	70	22	45	41	36	34.5		S.W.	S.W.	3743						40	42	40		5	4			24	
	25	30.034	43	29.974	41	59	29	79	24	43.5	42.5	37	35.5		S.E.	S.E.	4023						41	42	41		8	7			25	
	26	29.862	46.5	29.864	39	55	27.5	67	22.5	47.5	43	36	34.5		S	E	4365						41	42	41		8	7			26	
	27	29.948	40	30.048	39	41	27	43	22	38	38	38	37.5		E	S.E.	4692						41	42	41		8	12			27	
	28	30.036	43	29.966	38	53	33	70	29	40	38	36	35		S.E.	S	5358						41	42	41		10	7			28	
	29	29.848	55	29.776	48	67	29	78	25	53	47.5	47.5	43		W	S.W.	5957						42	42	42		9	5			29	
	30	29.670	55	29.462	40	63	31	76	25.5	53	45	46.5	38		S.W.	S.W.	6358						42	42	42		7	6			30	
	31	29.512	43	29.642	44	61	34.5	68	28	40.5	40	43	40.5		S.E.		6848						42	43	42		9	7			31	
Sums.		1620	445.889	1314	445.265	1229	1644	958	2043	774	1335	1216	1186	1123	29								1185	1219	1193		220	193				
Means.		15	15	17	17	9	2	2	7	7	9	25	18										38.2	39.3	38.5		71	62				
+ Total Corrections for Instru- mental Errors.		4035	4035																													
+ Correc- tions 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.	enotes 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.	s. ha.	snow.
h.	haze.	so. ha.	solar halo.
h. d.	heavy dew.	sq.	squall.
h.	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

BAROMETER, "corrected Mean" at 9 A.M., minus the Correction \ddagger = 29.510
for Temp. (Col. 2), = 29.547..... 37 }
"Corrected Mean" of Barometer at 9 P.M., minus the Correction \ddagger = 29.561
for Temp. (Col. 4), = 29.591..... 30 }
Mean at Station, corrected, and at 32', = 29.536
Correction for height, feet above Mean Sea-level, = 200
Mean, reduced to 32', and Sea-level, = 29.736
Highest Reading, corrected for Index error, on the 23 th, = 30.389
Lowest Do. Do., on the 13 th, = 28.608
Difference, or Monthly Range, = 1.771

S-R. THERMOMETER, (in shade, etc.), Highest in Month, (corrected for Index Errors), on the 23 th, = 68.0
Lowest in Month, corrected for Index errors, on the 17 th, = 22.0
Difference, or Monthly Range, = 46.0
"Corrected Mean" of all the Highest, (Col. 5), = 53.1
"Corrected Mean" of all the Lowest, (Col. 6), = 30.9
Difference, or Mean Daily Range, = 22.2
** Calculated Mean Temperature of Month, = 42.0
S-R. THERMOMETER, Black Bulb in Sun, Highest, (corrected for Index Errors), on the 18 th, = 81.0
"Corrected Mean," (Col. 7), of Black Bulb, Max. in Sun, = 65.9
Lowest at Night, Black Bulb (corrected for Index errors), on the 17 th, = 18.0
"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), = 40.4
Mean (corrected) A.M. and P.M. Reading of Wet Bulb, (Cols. 10 and 12), = 37.6
†† Computed Temperature of Dew-Point, = 34.1
†† Do. Elastic Force of Vapour, = 196
†† Do. Weight of Vapour in a Cubic Foot of Air, = 79
†† Relative Humidity (Saturation = 100), = 79
RAIN fell on 9 Days; Amount in Inches, = 29

WIND.		SUMMARY.									
Direction.		N	NE	E	SE	S	SW	W	NW	Calm or Variable.	Mean Force.
A.M.		1	1	5	3	10	8	3			
P.M.		1	1	6	2	7	9	4			
Mean.		1	1	5	3	8	8	4	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.
† Emending corrections for both capillary and Index Errors.
‡ The Diurnal Range for Scotland is as yet unknown.
†† Practically, though not absolutely a mean correction.
‡‡ These "Hygrometrical Deductions" 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.

Observations made and
Return verified by

John Forrest

(Signed)

SCOTTISH METEOROLOGICAL SOCIETY.

Observations taken at Haddo House, County of Aberdeen, in Lat. 57°24', Long. 2°16', Distance from Sea 12 miles.Height of Cistern of the Barometer above Mean Sea-Level 180 feet, above Ground 3 feet.During the MONTH of April 1896.

The Hours of Observation are of Greenwich Time.

ELECTRICITY.	Days of Month.	BAROMETER.				SELF-REGISTERING THERMOMETERS. Read Daily, at 9 P.M.				HYGROMETER.				Rain.	WIND.				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 h. A.M.		9 h. P.M.		9 h. A.M.		9 h. P.M.							
		Barometer.	Attached Thermometer.	Barometer.	Attached Thermometer.	Max.	Min.	Max.	Min.	Dry bulb.	Wet bulb.	Dry bulb.	Wet bulb.		Direction.	Force.	Direction.	Force.	9 h. A.M.	9 h. P.M.	9 h. A.M.	9 h. P.M.	No. 3 inches.	No. 12 inches.	No. 22 inches.	9 A.M.						9 P.M.
		* No.	inches.	No.	inches.	No.	No.	No.	No.	Dry bulb.	Wet bulb.	Dry bulb.	Wet bulb.		No. of days in which it fell.	Amount in inches.	No.	No.	No.	No.	No.	No.	No.	No.	No.	No.						No.
	1	29.766	57	29.782	44	58	29	73	24	50	46	39.5	38.5	+	S.W.	S.W.	7238					42	43	42			Thunder	1				
	2	29.788	46	29.764	42	55	31	66	28	44	42.5	39	38.5		S.E.	S.E.	7451					44	43	42			Fog	2				
	3	29.692	41	29.804	43	50.5	35	63	26	40	40	43	41		S.E.	S.E.	8120					44	44	43			Fog	3				
	4	29.860	45	30.034	44	49	41	67	33	44	41	43	41.5		S.	S.E.	8935					45	45	43				4				
	5	30.050	45	30.152	41	51	39	64	38	44	42	40	38		S.E.	S.	9716					45	45	43				5				
	6	30.108	46.5	30.048	42	46	39	51	37	44	41	41	40	+	S.E.	S.	0794					45	45	43				6				
	7	29.976	48	29.910	42	49	37	67	33	47	43.5	41	40		S.E.	S.E.	1817					45	45	43				7				
	8	29.812	45	29.708	43.5	48	40	57	32	47	46	42	41.5		S.	S.E.	3098					44	45	43				8				
	9	29.612	44	29.648	46	61	39	76	35	44.5	44	45	43.5		S.E.	S.E.	3847					44	43	43				9				
	10	29.768	54	29.768	47	55	36	68	32	52	48.5	45.5	43.5		S.W.	S.W.	4421					46	45	44				10				
	11	29.778	55	29.804	46	64.5	41	75	35	52	48.5	42	41.5		S.E.	S.E.	5040					46	45	44				11				
	12	29.768	55	29.782	44	53.5	32	64	27	50	47	41	40.5		S.E.	S.	5793					46	46	44				12				
	13	29.804	50	29.702	44	51	34	66	32	46	43	41.5	40		S.E.	S.E.	7661					46	46	45				13				
	14	29.600	46	29.452	43	47	31	68	24	44	41	42.5	41.5	+	S.E.	S.E.	8985					45	46	45				14				
	15	29.470	53	29.422	46	58	42	73	37	49.5	47	44	43.5		S.	S.E.	6507					47	46	45				15				
	16	29.372	46	29.246	46	57.5	42	70	40	44	43.5	42	41.5	+	S.	S.	1507					47	47	45				16				
	17	29.086	47	29.334	44	56	40	74	36	46	45	42	41.5	+	S.W.	S.W.	2078					48	47	45				17				
	18	29.496	47	29.782	44	53	38	64	33	47	46	41	40	+	N.W.	N.W.	2387					47	47	45				18				
	19	29.936	54	29.958	44	58	32	81	26	50	45	42	40		N.W.	S.	2661					47	47	46				19				
	20	29.956	55	29.896	46	57	36	72	30	54	48	48	46		N.E.	S.E.	3059					48	47	46				20				
	21	29.846	46	29.878	42	52.5	39	55	35	44	42	40.5	39	+	S.E.	S.	3900					48	47	46				21				
	22	29.784	45	29.696	43	48	38	60	33	45	41	41.5	41	+	S.E.	S.	5272					46	47	46				22				
	23	29.548	44.5	29.501	42	48	39	55	37	44	42	40	39		S.	S.	7223					46	47	46				23				
	24	29.452	47	29.350	45	51	39	51	36	44	42	44	43	+	S.E.	S.E.	8541					46	47	46				24				
	25	29.414	52	29.338	45	53.5	37.5	70	32.5	50	46	44	41		S.E.	S.E.	9868					46	46	46				25				
	26	29.418	57	29.392	45	58.5	37.5	86	36	52	47	42.5	41.5		S.E.	S.E.	1058					48	47	46				26				
	27	29.368	58.5	29.526	47	58	42	73	40	46	44	45	43.5		S.E.	N.E.	1821					49	48	46				27				
	28	29.740	51	29.818	46.5	61	43.5	88	37	50	44.5	45	41.5		S.W.	S.W.	2046					51	49	46				28				
	29	29.728	53	29.808	50.5	61	43	79	37	54	51	49	48	+	S.W.	N.E.	2534					51	50	47				29				
	30	30.028	57	30.112	47	57	42	84	36	52	45	43.5	41.5	+	N.W.	N.W.	2900					52	50	47				30				
	31																											31				
Sums.		8154		71213		153	141															1291	1285	1247								
Means.		29.102	48.4	29.138	43.3	53.3	37.3	70.3	32.3	50.3	46.3	44.3	41.3									43	42.8	41.5								
+ Total Corrections for Instrumental Errors.		+0.35		+0.35																												
+ 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.	in.	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.	s.	" snow.		
h.	" haze.	so. ha.	" solar halo.		
h. d.	" 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.	" squall.
fr.	" frost.	s.	" sleet.
h.-fr.	" hoar-frost.	s. ha.	" snow.
h.	" haze.	so. ha.	" solar halo.
h. d.	" 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.	s.	" 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

BAROMETER, "corrected Mean" at 9 A.M., minus the Correction $\frac{1}{100}$ for Temp. (Col. 2), = 29.736.....5.7. = 29.679

"Corrected Mean" of Barometer at 9 P.M., minus the Correction $\frac{1}{100}$ for Temp. (Col. 4), = 29.747.....4.4. = 29.703

Mean at Station, corrected, and at 32', = 29.691

Correction for height, feet above Mean Sea-level, = 199

Mean, reduced to 32', and Sea-level, = 29.890

Highest Reading, corrected for Index error, on the 5th th., = 30.152

Lowest Do. Do., on the 17th th., = 29.086

Difference, or Monthly Range, = 1.066

S.-R. THERMOMETER, (in shade, etc.), Highest in Month, (corrected for Index Errors), on the 11th, = 64.5

Lowest in Month, corrected for Index errors, on the 1st th., = 29.0

Difference, or Monthly Range, = 35.5

"Corrected Mean" of all the Highest, (Col. 5), = 54.3

"Corrected Mean" of all the Lowest, (Col. 6), = 37.8

Difference, or Mean Daily Range, = 16.5

** Calculated Mean Temperature of Month, = 46.0

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 th., =

"Corrected Mean," (Col. 8), of Black Bulb, Min. on grass, =

Difference of above means or range ("exposed"), =

HYGROMETER, Mean (corrected) A.M. and P.M. Reading of Dry Bulb, (Cols. 9 and 11), = 45.0

Mean (corrected) A.M. and P.M. Reading of Wet Bulb, (Cols. 10 and 12), = 42.9

†† Computed Temperature of Dew-Point, = 40.5

†† Do. Elastic Force of Vapour, = 25.1

†† Do. Weight of Vapour in a Cubic Foot of Air, =

†† Relative Humidity (Saturation = 100), = 84

RAIN fell on 10 Days; Amount in Inches, = 0.72

WIND.		SUMMARY.									
Direction.		N	NE	E	SE	S	SW	W	NW	Calm or Variable.	Mean Force.
A.M.		1	4	16	1	5	0	3			
P.M.		2	8	14		4	2				
Mean.		0	2	6	15	1	4	0	2	0	

Observations made and
Return verified byJohn Forrest

(Signed)

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Adams No
April 1894

water, in cases where the observations cannot be taken daily, the observation may be made on the 5th, 15th, and 25th of each month. When convenient, extra Sea Observations might be taken for other months, and greater depths, noting always the Temperature of the Air; and the Heat of Observation. It is also very desirable that observations on the Maximum and Minimum Air Thermometers should be taken, and the results be recorded on the coast, as at Portcharwell, Liverpool, &c. It is also necessary to put down the depth of the water at the bottom of the vessel, and the depth of the water being noted.

that the structure varies with the season, and that the wind is from the N.W., and that its force on the lee side of the mountain is 4, or blowing fresh.

Too much importance cannot be attached to the electric condition of the atmosphere in connection with terrestrial magnetism, barometrical, thermometrical, and meteorological phenomena generally. A proper Electrometer is, in truth, necessary to every complete meteorological observatory.

valours, Grace, Power, and Glory, is character, velocity, and directness, and the difference 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, elevations, and fluctuations of the Barometer, 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 hinted at above. When lofty hills are in the vicinity of a Station, the observations on the Snow, which is in winter, should be recorded.

of falling, and ending, as well as such Notes on Storms as have been printed at above. When heavy hills are in the vicinity of a Station, the Height of Clouds and of the Snow-line in winter should be recorded. By the use of observations, the state of the weather at 9 A.M. and 9 P.M. should be registered, either in two columns, otherwise unoccupied, or ruled off for the purpose, from the column of Remarks.

Observations in connection with the Periodic Return of the Observations in Seasons, possess not only great scientific value, but are also of considerable importance in connection with the Periodic Re-Agriculture, Horticulture, and Natural History. The Council would direct the special attention of Observers to the registration of such phenomena, so that the published Summaries may fairly represent the whole of Scotland.

Observations ought to be confined to individual trees and shrubs, to particular species of birds, and, in the case of crops, to specified sorts reared from year to year on a selected piece of ground or farm. The Annual Table, published yearly in the Society's Journal, will indicate the species of plants and animals to which special attention is more particularly directed.

To particular species of birds, and a selected piece of ground, or farm. The Annual Table, published yearly in the Society's Journal, will indicate the species of plants and animals to which special attention is more particularly directed.

The Council recommend Observers, before purchasing new instruments, and in repairing old ones, to communicate with the Meteorological Secretary, in order that every instrument may be examined and improved before being used; and they consider it highly satisfactory that should any of the instruments be found faulty, which may be the case, the Council does not afford him satisfaction on being presented for compensation.

(By Order) A. E.

EDINBURGH, *December*. 1891.

[illegible]

Heart Buds first appears.	In Leaf.	Divested of leaves.	CROP mentioning
			Barley,
			Bere or B
			Oats,
			Wheat,
			Beans,
			Pease,
			Potatoes,
			Turnips,
			Rye Grass

OBSERVATIONS IN C					
Forest trees.	Alder,	Beech,	Birch,	Elm,	Larch,
					Time,
					Oak,
					Sycamore or Plane,

sun or cooled by nocturnal radiation. At or near the time of his

OBSERVATIONS IN CONNECTION WITH THE PERIODICAL RETURN OF THE SEASONS.

[illegible]

EDINBURGH, December 1891.

(By Order) A. B.

Have the goodness also to send any information you may be able to collect relative to the crops of grain, hay, potatoes, fruits, etc., whether planted or in perfection; whether any have suffered from blight, disease, etc. Whether zoonotic disease prevails among cattle; and the Agricultural condition of the district generally.

To the SECRETARY

Scottish Meteorological Society.

122 George Street.

EDINBURGH.

BOOK POST,

SCOTTISH METEOROLOGICAL SOCIETY.

Observations taken at Staddo House, County of Aberdeen, in Lat. 57°24', Long. 2°14', Distance from Sea 12 miles.Height of Cistern of the Barometer above Mean Sea-Level 180 feet, above Ground 5 feet.During the MONTH of May 1896.

The Hours of Observation are of Greenwich Time.

ELECTRICITY.	Days of Month.	BAROMETER.				SELF-REGISTERING THERMOMETERS. Read Daily, at 9 P.M.				HYGROMETER.				Rain.	WIND.				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. Sun's rays Grass.		9 h. A.M.		9 h. P.M.			9 A.M.		P.M.		9 h. A.M.			0-10.										
		Barometer. No.	Attached Thermometer.	Barometer. No.	Attached Thermometer.	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.		Direction.	Force.	Direction.	Force.	Velocity (0-10), and Species.	Amount (0-10), and Species.	Velocity (0-10), and Direction.	Amount (0-10), and Species.		No. 1 inches.	No. 2 inches.	No. 3 inches.		Temperature of Wells at depth of feet. No.	Temperature at 1 fathom, and Density.	9 A.M.	9 P.M.	
		* No.																														
	1	30.158	55	30.108	47	5.2	41	6.4	35	5.2	47	4.6	43	+	N	N	3727					50	50	47		6	9			1		
	2	29.786	47	29.400	50	5.3	32	5.8	26	4.5	43	5.5	50	+	SW	SW	3974					48	49	47		9	8			2		
	3	29.340	51	29.342	42	5.3	36	7.3	32.5	4.6	43	3.5	34	+	SW	SW	4790					49	49	47		5	6			3		
	4	29.348	39.5	29.502	47	5.3	32	6.5	27	3.8	36	3.9	37.5	+	SW	SW	6353					48	48	47		10	9		Snow showers	4		
	5	29.608	47	29.372	44	5.3	37	7.4	32	4.6	41	4.3	41	+	SW	SW	7718					46	47	47		4	5			5		
	6	29.290	58	29.362	45	5.9	34	8.4	29	5.1	45	4.1	39	+	SW	W	8480					48	48	47		10	5			6		
	7	29.356	60	29.512	46	5.3	34	7.0	27.5	5.5	45	4.2	40	+	W	W	9223					49	48	47		8	7			7		
	8	29.530	51	29.426	50	5.3	32	6.8	28.5	4.5	45	4.9	37.5	+	SE	SE	9710					47	48	47		10	9			8		
	9	29.452	57	29.360	45	5.1	41.5	7.9	32	5.2	46	4.3	41	+	SE	SE	10385					49	48	47		7	7			9		
	10	29.296	51	29.286	47	5.6	31	7.0	24.5	4.8	44	4.5	43	+	SE	SW	10962					47	48	47		10	7			10		
	11	29.422	57.5	29.580	49	5.0	33	8.7	30	5.2	47.5	4.5	45.5	+	SW	SW	1826					49	48	47		7	9			11		
	12	29.760	53	29.892	47	5.9	40	8.3	35	5.3	48	4.4	43	+	SW	SW	2180					50	49	47		9	7			12		
	13	29.936	64	29.888	46	5.6	33	8.2	27	5.5	49	4.2	41	+	SW	SE	2412					50	50	47		9	8			13		
	14	29.826	48	29.550	47	4.8	40	4.8	33	4.5	45	4.5	45	+	E	E	2817					49	50	47		8	10			14		
	15	29.886	48	29.462	47	4.7	44	4.9	44	4.6	46	4.5	45	+	E	E	3657					49	49	47		12	11			15		
	16	30.072	46	30.194	44	5.0	42	7.4	41	4.4	44	4.2	39.5	+	NE	NE	4016					48	49	48		10	5			16		
	17	30.280	53	30.240	43	5.5	42	7.8	31	4.7	43.5	4.0	43	+	NE	N	4596					48	49	48		4	4			17		
	18	30.250	54	30.276	43.5	5.5	30	8.2	24	4.9	44.5	4.1	38.5	+	NE	N	4833					49	50	48		7	7			18		
	19	30.176	42.5	29.968	37.5	5.6	33	7.2	30	4.0	36	3.4	33	+	N	SW	5790					47	49	48		5	7			19		
	20	29.840	41.5	29.776	38	4.8	32	7.2	27	3.6	35	3.5	34.5	+	SW	W	5691					48	48	48		9	5		Snow showers	20		
	21	29.810	51	29.835	40	5.1	31	7.1	26	4.4	42	3.6	35	+	W	N	6106					45	48	48		12	4		Snow showers	21		
	22	30.020	61	30.126	41.5	5.2	26	8.3	19	4.9	43	3.9	37	+	SE	SE	6249					46	48	48		8	4			22		
	23	30.268	66	30.280	43.5	5.5	28	7.6	20	5.2	46	4.0	38	+	S	S	6947					48	49	45		9	5			23		
	24	30.266	61	30.124	43.5	6.1	29	9.0	24	5.4	46.5	4.6	41	+	SE	SE	7901					49	50	48		4	4			24		
	25	29.968	54	29.784	45	5.5	39	8.9	33	5.1	48.5	4.2	40	+	N	N	7935					51	50	49		8	5			25		
	26	29.750	45	29.814	43	4.8	39	8.9	33	4.5	43	4.0	39.5	+	SW	N	8608					49	50	48		9	9			26		
	27	29.646	47	29.448	44	5.0	36.5	7.0	31	4.5	42	4.3	42	+	W	N	9073					48	49	48		7	9			27		
	28	29.400	46	29.376	45	5.1	42	6.3	40	4.5	44	4.4	43	+	NE	NE	9360					48	48	48		9	8			28		
	29	29.468	50	29.524	46.5	5.4	42	7.7	37	4.9	46	4.5	44	+	E	E	9703					50	49	48		9	7			29		
	30	29.496	50.5	29.504	47	5.8	35.5	7.2	29.5	4.9	46	4.6	45	+	NE	E	10280					50	50	48		9	8			30		
	31	29.492	51	29.508	45	5.5	35.5	8.6	30	4.9	46	4.1	40	+	E	E	10539					50	50	48		8	8		Thunder	31		
Sums.		15 17 11		15 15 11		15 11		15 11		15 11		15 11		15 11		15 11		15 11		15 11		1496	1574	1474		753	216					
Means.		29.749	31.8	29.732	44.7	5.3	35.8	7.4	23.3	4.7	44.1	4.2	40.6								48.2	48.8	47.5		8.2	7.0						
+ Total Corrections for Instrumental Errors.		+0.35		+0.35																												
+ 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	

BAROMETER, "corrected Mean" at 9 A.M., minus the Correction $\frac{1}{100}$ = 29.723
for Temp. (Col. 2), = 29.744.....(1.)
"Corrected Mean" of Barometer at 9 P.M., minus the Correction $\frac{1}{100}$ = 29.716
for Temp. (Col. 4), = 29.767.....(5.)
Mean at Station, corrected, and at 32°, = 29.720
Correction for height, feet above Mean Sea-Level, = 200
Mean, reduced to 32°, and Sea-level, = 29.920
Highest Reading, corrected for Index error, on the 17 th, = 30.280
Lowest Do. Do., on the 10 th, = 29.286
Difference, or Monthly Range, = 0.994

S-R. THERMOMETER, (in shade, etc.), Highest in Month, (corrected for Index Errors), on the 24 th, = 61.0
Lowest in Month, corrected for Index errors, on the 22 th, = 26.8
Difference, or Monthly Range, = 35.0
"Corrected Mean" of all the Highest, (Col. 5), = 53.4
"Corrected Mean" of all the Lowest, (Col. 6), = 35.7
Difference, or Mean Daily Range, = 17.7
** Calculated Mean Temperature of Month, = 44.6
S-R. THERMOMETER, Black Bulb in Sun, Highest, (corrected for Index Errors), on the 4 th, = 90.0
"Corrected Mean," (Col. 7), of Black Bulb, Max. in Sun, = 74.2
Lowest at Night, Black Bulb (corrected for Index errors), on the 22 th, = 19.0
"Corrected Mean," (Col. 8), of Black Bulb, Min. on grass, = 30.3
Difference of above means or range ("exposed"), =

HYGROMETER, Mean (corrected) A.M. and P.M. Reading of Dry Bulb, (Cols. 9 and 11), = 45.1
Mean (corrected) A.M. and P.M. Reading of Wet Bulb, (Cols. 10 and 12), = 42.4
Computed Temperature of Dew-Point, = 39.3
Do. Elastic Force of Vapour, = 2.40
Do. Weight of Vapour in a Cubic Foot of Air, =
Relative Humidity (Saturation = 100), = 80
RAIN fell on 25 Days; Amount in Inches, = 4.0 - 4-10

WIND.		SUMMARY.							
Direction.		N	NE	E	SE	S	SW	W	NW
A.M.		4	5	4	5	1	3	2	7
P.M.		6	2	5	6	1	4	3	4
Mean.		5	3	5	5	1	4	3	5

Observations made and
Return verified by

John Forrest

(Signed)

SCOTTISH METEOROLOGICAL SOCIETY.

Observations taken at *Haddo House*, County of *Aberdeen*, in Lat. $57^{\circ}24'$, Long. $2^{\circ}14'$, Distance from Sea 12 miles.Height of Cistern of the Barometer above Mean Sea-Level 180 feet, above Ground 3 feet.During the MONTH of *June* 189*4*.

The Hours of Observation are of Greenwich Time.

ELECTRICITY.	Days of Month.	BAROMETER.				SELF-REGISTERING THERMOMETERS. Read Daily, at 9 P.M.				HYGROMETER.				Rain.	WIND.				CLOUDS.				SUNSHINE.	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. <i>Mention the hour at which Storms, including Thunder and Lightning, began and ended.</i>		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 h. A.M.		9 h. P.M.			9 h. A.M.		9 h. 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), and Species.	Amount (0-10), and Species.	Velocity (0-10), and Direction.	Amount (0-10), and Species.		No. 3 inches.	No. 12 inches.	No. 22 inches.		9 A.M.	9 P.M.			
		* No.	inches.	°	inches.	°	No.	°	No.	°	°	°	°		°	No. of inches it fell.	No.	°	°	°	°	°		°	°	°		°	°			
	1	29.620	53	29.684	45	58	38	80	33	52	49	43	42	+	N.E.	8			0839				51	50	49		7	8	Fog. Thunder		1	
	2	29.636	53	29.626	49	58	36	75	30	54	50	46	45		S.E.	8			1193				52	50	49		8	5	Fog.		2	
	3	29.780	56	29.892	50	57	41	77	35	54	49	48	46		E	8			1712				55	52	49		9	5			3	
	4	29.862	58	29.708	50	57	37	72	33	52	54	47	46		E	8			2254				54	53	50		8	5			4	
	5	29.630	51	29.622	49	54	45	65	42	50	48	46	43	+	E	N.E.			2904				53	53	50		8	6			5	
	6	29.754	60	29.678	50	59	55	78	31	52	46	49	46	+	N	N.W.			3169				52	53	50		8	4			6	
	7	29.626	53	29.648	50	61	44	84	39	53	57	46	44	+	N	N			3348				54	53	51		7	6			7	
	8	29.665	52	29.678	50	68	43	89	38	53	50	48	47		N	S.E.			3654				54	53	51		7	9			8	
	9	29.686	51	29.701	48	57	46	72	39	50	48	46	45	+	S.E.	S.E.			4080				55	53	51		8	3			9	
	10	29.596	61	29.410	50	57	38	73	33	54	50	49	48	+	S.E.	S.E.			4464				56	54	52		8	9			10	
	11	29.400	52	29.572	51	55	47	67	47	50	48	50	49	+	N.W.	N.W.			5235				53	54	52		10	8			11	
	12	29.638	55	29.672	49	58	44	77	39	53	49	48	46	+	N.W.	N.W.			6507				54	54	52		10	8			12	
	13	29.784	50	29.878	50	59	46	78	35	49	47	48	46	+	N.W.	N.W.			6238				53	54	52		10	6			13	
	14	29.868	55	29.824	51	63	44	90	42	54	49	50	47		N.W.	S			6636				55	55	53		5	6			14	
	15	29.636	55	29.772	57	63	42	67	37	57	55	50	47	+	S.W.	N			7046				56	55	53		8	9			15	
	16	29.870	60	29.475	55	60	55	76	31	58	56	53	41		N	S.E.			7467				55	55	53		8	4			16	
	17	29.478	53	29.436	55	61	55	75	37	57	53	52	48	+	S.W.	N			8508				57	55	53		4	4			17	
	18	29.572	65	29.580	51	64	34	92	28	58	56	46	45	+	S.W.	S.W.			8707				56	55	53		8	8	Thunder		18	
	19	29.738	62	29.604	54	64	37	80	31	59	57	52	49	+	N	S.W.			8978				56	55	53		8	4			19	
	20	29.676	59	29.784	52	64	34	81	34	58	53	48	45		N	N.W.			9576				56	55	53		8	4			20	
	21	29.910	64	29.826	58	64	37	77	31	58	52	57	53	+	S.W.	S.W.			9799				57	56	53		8	4			21	
	22	29.762	65	29.688	57	65	42	81	35	61	55	52	49	+	S.E.	S.W.			10361				58	57	54		6	5			22	
	23	29.644	53	29.398	52	58	43	63	37	53	50	49	47	+	S	N.W.			10888				56	56	54		6	5			23	
	24	29.538	60	29.688	53	61	40	92	32	53	47	49	45	+	N.W.	N			1540				55	56	54		10	4			24	
	25	29.898	64	29.918	54	59	58	75	32	58	50	52	51		N	S.E.			2589				56	56	54		7	5			25	
	26	30.042	61	30.156	58	74	50	95	46	64	60	58	54		N	S.E.			3024				58	56	54		6	4			26	
	27	30.218	62	30.232	58	70	45	87	41	64	60	57	56		S.E.	S.E.			3216				60	57	54		5	6			27	
	28	30.148	63	30.212	59	65	54	73	51	64	61	58	56		S	S.E.			3595				62	58	54		6	7			28	
	29	30.292	71	30.280	57	70	52	92	47	67	63	54	53		S.E.	E			3769				62	59	55		5	5	Fog		29	
	30	30.282	66	30.244	57	66	48	87	47	61	58	53	52	+	E	E			4392				6	60	56		6	7	Fog		30	
	31																															31
Sums.		181512		181573	12	18305	263	23745	1131	1682	1534	1491	1434									1673	1642	1571								
Means.		893.18	1742	892.02	23	1531		2374.5		1682		1491.5										53.7	54.7	52.3								
+ Total Corrections for Instrumental Errors.		773		768																												
+ Corrections for Diurnal Range.		+055		+055																												
"Corrected Means."																																
No. of Columns.		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.	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.		
f.	fog.	s.	stratus.		
f.	fog.	sc.	scud.		
fr.	frost.	s.	sleet.		
h-fr.	hoar-frost.	s.	snow.		
h.	haze.	so. ha.	solar halo.		
h. d.	heavy dew.	sq.	squall.		
h.	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 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.	h.	hail.
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.	sleet.
fr.	frost.	s.	snow.
h. fr.	hoar-frost.	s. ha.	solar halo.
h.	haze.	sq.	squall.
h. d.	heavy dew.	sq.	squalls.
li.	light.	t.	thunder.
li. cl.	light clouds.	t. s.	thunder-storm.
li. sh.	light showers.	w.	wind.
li. co.	lunar corona.	g.	gale of wind.
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 \ddagger = 29.729
for Temp. (Col. 2), = 29.808 79
"Corrected Mean" of Barometer at 9 P.M., minus the Correction \ddagger = 29.739
for Temp. (Col. 4), = 29.803 64
Mean at Station, corrected, and at 32, $+020$ 29.754
Correction for height, feet above Mean Sea-level, 196
Mean, reduced to 32, and Sea-level, 29.950
Highest Reading, corrected for Index error, on the 9th, 30.292
Lowest Do. Do., on the 18th, 29.410
Difference, or Monthly Range, 0.882

S-R. THERMOMETER, (in shade, \ddagger Highest in Month, (corrected for Index Errors), on the 16th, 74.0
Lowest in Month, corrected for Index errors, on the 26th, 34.0
Difference, or Monthly Range, 40.0
"Corrected Mean" of all the Highest, (Col. 5), 61.7
"Corrected Mean" of all the Lowest, (Col. 6), 42.1
Difference, or Mean Daily Range, 19.6
** Calculated Mean Temperature of Month, 51.9
S-R. THERMOMETER, Black Bulb in Sun, Highest, (corrected for Index Errors), on the 16th, 95.0
"Corrected Mean," (Col. 7), of Black Bulb, Max. in Sun, 76.4
Lowest at Night, Black Bulb (corrected for Index errors), on the 18th, 28.0
"Corrected Mean," (Col. 8), of Black Bulb, Min. on grass, 37.4
Difference of above means or range ("exposed"), 39.0

HYGROMETER, Mean (corrected) A.M. and P.M. Reading of Dry Bulb, (Cols. 9 and 11), 52.9
Mean (corrected) A.M. and P.M. Reading of Wet Bulb, (Cols. 10 and 12), 50.8
†† Computed Temperature of Dew-Point, 47.1
†† Do. Elastic Force of Vapour, 323
†† Do. Weight of Vapour in a Cubic Foot of Air, 81
†† Relative Humidity (Saturation = 100), 81
RAIN fell on 16 Days; Amount in Inches, 1.45

WIND.		SUMMARY.			
Direction.		N	NE	E	SE
A.M.					
P.M.					
Mean.					

Observations made and
Return verified by

John Foran

(Signed)

OBSERVATIONS,

water, in cases where the observations cannot be taken daily, the observation may be made on the 5th, 15th, and 25th of each month. When convenient, extra Sea Observations might be taken for other months, and greater depths, notwithstanding the Temperature of the Air; and the Hour of Observation. It is also very desirable that observations on the Hourly Maxima and Minima by Hygrometers be continuously ministered, as well as to recording the course, at least once every day, of the S. E. Trade Wind blowing from the coast, at Port Antonio. The Temperature of the water at the bottom of Wells ought, when practicable, to be taken, both the depth of the temperature Well and of the water being noted.

The Paper is affixed by a pin to a board in the Theater. The Paper is used, Schönbein's or Moffat's, etc. Mention what Test-Paper are used, Schönbein's or Moffat's, etc.

Ozone.

meter, Box, and the indications registered at 9 A.M. and 9 P.M. It is desired that these indications be registered in connection with the force and direction of the wind at the time of observation, in the following manner—thus 3nd, as an Ozone entry in the schedule will indicate that the Ozone Paper is Ozoned as 3 on the scale, that the wind is from the N.W., and that its force on the scale 0-5 is 4, or blowing fresh.

Too much importance cannot be attached to the electric condition of the atmosphere in connection with terrestrial magnetism, barometrical, thermometrical, and meteorological phenomena generally. A proper Electrometer is, in truth, necessary to every complete meteorological observatory.

The Remarks column is unavoidably too narrow. Some of the observations are unduly long, but they cannot be taken out.

Remarks. These contractions ought to give no harm assigned. The use of such words can be given every advantage of a list of all kinds and general uses given at the foot of the column besides special and extraordinary Observations or great differences in character colour velocity and direction between the Lower and Upper Strata of clouds the Colour of the Sky etc. Remarks ought to be made on the occurrence of Meteors Auræ Boreales remarkable depressions and fluctuations A few Storms Thunder Storms & remarkable Snow-Hail

or Rain, the Hour of Storms of Wind commencing, training, then increasing, and ending, as well as such Notes on Storms as have been inserted above. When lofty fairs are in the vicinity of a Station, the Heights of Clouds and of the Show-line in winter should be recorded. By the use of abbreviations, the state of the weather at 9 A.M. and 9 P.M. should be registered, either in two columns, otherwise uncoupled, or ruled off for the purpose, from the column of 'Remarks'.

Observations in connection with the Periodic Return of the Seasons, possess not only great scientific value, but are of considerable importance in connection with the Periodic Return of the Seasons, Agriculture, Horticulture, and Natural History. The Council would direct the special attention of Observers to the registration of such phenomena, so that the published Summaries may fairly represent the whole of Scotland.

Observations in Seasons, possess not only great scientific value, but connection with are of considerable importance in connection with the Agricultural, Horticultural, and Natural History. The Council would direct the special attention of Observers to the registration of such phenomena, so that the published Summaries may fairly represent the whole of Scotland. Observations ought to be confined to individual trees and shrubs; particular species of birds, and, in the case of crops, and sorts raised from year to year on a selected piece of ground or farm. The Annual Table, published yearly in the Society's Journal, will indicate the species of plants and animals to which special attention is more particularly directed.

The Council recommend Observers, before purchasing new instruments, and in repairing old ones, to communicate with the Meteorological Secretary, in order that every instrument may be examined and improved 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 insatiation.

Observations ought to be confined to individual tus and shrubs to particular species of birds, and, in the case of crops, to specified sorts reared from year to year on a selected piece of ground or farm. The Annual Table, published yearly in the Society's journal, will indicate the species of plants and animals to which special attention is more particularly directed.

The Council recommend Observers, before purchasing new instruments, and in reparing old ones, to communicate with the Meteorological Secretary, in order that every instrument may be examined and improved 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 insatification.

[illegible][illegible]

OBSERVATIONS IN CONNECTION WITH THE PERIODICAL				
FOREST TREES.	In flower.	Leaf buds first appear.	In leaf.	Divested of leaves.
Alder,				Bare, or in bud.
Aspen,				Ons.
Beech,				Wheat,
Birch,				Peas,
Elm,				Turnips,
Lime,				Rye Grass,
Oak,				
Sycamore or Plane,				

122 George Street.

EDINBURGH.

BOOK POST.

Have the goodness also to state any information you may be able to collect relative to the crops of Grain, Hay, Potatoes, Turnips, Fruits, &c., whether plentiful or in perfection; whether any have suffered from blight, disease, &c., and the Agricultural condition of the district generally. Epidemic disease prevalent among cattle; and the Epidemic disease prevalent among sheep.

SHRUBS, &c.	Barberry, Broom, Hazel, Hawthorn, Holly, Laburnum, Lilac, Mezerion, Mountain Ash or Rowan, Red Flowering Currant, Rhododendron Ponticum, Whin,	Apple, Black Currant, Cherry, Gean, Gooseberry, Pear, Palm, Strawberry,	First in Blossom.
FRUITS.			
First in Blossom.	Black Currant, Cherry, Gean, Gooseberry, Pear, Palm, Strawberry,		
Fruit ripe, generally.	Cuckoo, Curtew, House-Swallow, Lapwing, Plover, Sand-Martin, Starling, Swan, Rail or Coot Crane,		
MIGRATORY BIRDS.			
First Arrival.			
Departure.			

[illegible]

OBSERVATIONS IN CONNECTION WITH THE PERIODICAL RETURN OF THE SEASONS.

A. B. er)

01.

A. B.

SCOTTISH METEOROLOGICAL SOCIETY.

Observations taken at Stado House, County of Aberdeen, in Lat. 57° 4', Long. 2° 14', Distance from Sea 12 miles.Height of Cistern of the Barometer above Mean Sea-Level 180 feet, above Ground 3 feet.During the MONTH of July 1894.

The Hours of Observation are of Greenwich Time.

ELECTRICITY.	Days of Month.	BAROMETER.				SELF-REGISTERING THERMOMETERS. Read Daily, at 9 P.M.				HYGROMETER.				Rain.	WIND.				CLOUDS.				SUNSHINE.	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.				0-10.			
		Barometer.	Attached Thermometer.	Barometer.	Attached Thermometer.	Max.	Min.	Max. in Sun/shade.	Min. on Grass.	Dry bulb.	Wet bulb.	Dry bulb.	Wet bulb.		Direction.	Force.	Direction.	Force.	Amount (0-10), and Species.	Amount (0-10), and Species.	Amount (0-10), and Species.	Amount (0-10), and Species.		No. 3 inches.	No. 12 inches.	No. 22 inches.		9 A.M.	9 P.M.		
		* No.	inches.	°	inches.	°	No.	No.	No.	No.	No.	No.	No.		No.	No.	No.	No.	No.	No.	No.	No.		No.	°	°		°	°		
	1	30.238	74	30.082	60	71	46	88	44	66.5	62	59	55		8	8	50	52				63	60	56		6	5		1		
	2	29.996	72	29.806	60	67	48	84	40.5	65	62	58	57		8	S.E.	58	12				63	61	54		5	7		2		
	3	29.786	59	29.848	58	65.5	53.5	82	53	57	54	56	54	X	1.W.	S.W.	67	75				61	61	57		9	5		3		
	4	29.870	72	29.888	62	71.5	40	91	33	65	57	60	54.5		W.	S.W.	70	43				60	60	54		5	5		4		
	5	29.872	68	29.896	59	70.5	51	95	44	65	60	58	54.5		S.W.	S.W.	75	95				61	60	57		6	5		5		
	6	29.862	71	29.740	59	68.5	50	85	41	66	62	54.5	56		S.E.	S.E.	80	11				62	60	57		5	6		6		
	7	29.608	69	29.626	57	70	49.5	94	40.5	65	61	54	51	X	S.W.	S.E.	93	15				62	61	58		7	4		7		
	8	29.648	71	29.636	56.5	70	45	100	34	63	55	54.5	53.5	X	26	S.W.	S.W.	94	44			61	61	54		5	7		8		
	9	29.578	57	29.516	56	62.5	50	71	46	56	55	53.5	52.5	X		S.E.	S.E.	99	57			60	60	54		7	7		9		
	10	29.412	60	29.268	56.5	60.5	49	70	41	58	56	54.5	54	X		S.E.	S.E.	04	81			60	60	54		9	10		10		
	11	29.166	58	29.106	54	61.5	51	73	48	58	56.5	54.5	54	X		8	8	10	22			60	59	54		9	10	Thunder.	11		
	12	28.988	54.5	28.998	56	60	51	72	48	55	54	55	54	X		1	1	13	73			59	59	54		9	9		12		
	13	29.018	60	29.208	58.5	66.5	52	91	48	60	55	57	55	X		W	W	29	27			58	59	54		7	4		13		
	14	29.350	59	29.468	57	59	52	63	52	58	56	55.5	55	X		W	W	35	47			60	59	54		7	8		14		
	15	29.518	55	29.612	54.5	58	52	64	49.5	54	53	52	50	X	2.41	W	W	41	94			58	59	54		9	8		15		
	16	29.524	58	29.268	55	59	48	64	45	54	51.5	54.5	54	X		S.E.	S.E.	45	53			58	59	54		7	8	Fog.	16		
	17	29.246	61	29.242	54	66.5	51	90	44.5	60	54	55	53	X		W	W	50	71			58	59	54		7	7		17		
	18	29.252	58.5	29.370	56	61.5	51	82	48	58	55	52	50.5	X		W	W	53	74			60	59	54		9	8		18		
	19	29.434	54.5	29.516	54.5	61.5	48	78	41	52.5	49	48	47			W	W	60	18			58	59	54		8	4		19		
	20	29.568	62.5	29.546	54.5	68.5	40	98	35	60.5	55	52	51	X		W	W	62	16			58	59	58		5	6	Thunder.	20		
	21	29.616	68	29.508	50	66	43	88	38	63	57	54.5	53			W	S.E.	65	27			61	60	54		5	6		21		
	22	29.588	58.5	29.696	56	68	43	91	44	58	54	53	52	X	56	W	W	69	77			61	60	54		6	6	Thunder.	22		
	23	29.796	60	29.928	54	64	46	90	40	59	56	56	54			W	W	72	21			61	61	58		5	6		23		
	24	29.968	65	30.148	56	64	44.5	89	40	61	56	53	51			W	W	74	11			63	61	58		7	6		24		
	25	30.042	62	29.938	59	65	44	83	38	59	55	58	54	X		W	W	76	81			63	61	58		7	8		25		
	26	29.822	60	29.828	60.5	64	48	82	42	60	58.5	59	58	X		S.E.	S.E.	87	94			63	61	58		9	9		26		
	27	29.840	61	29.888	60	66	51	81	41.5	59	58	54.5	54			S.E.	S.E.	92	90			63	62	59		10	8	Fog.	27		
	28	29.924	61	29.994	60	72	46	86	41	64	61	54.5	54			S.E.	S.E.	97	43			63	62	59		8	9	Fog.	28		
	29	29.998	64.5	29.984	58	72	48	86	43	65.5	61.5	54.5	54		19	S.E.	S.E.	02	47			64	63	59		8	7	Fog.	29		
	30	29.932	61	29.864	59	68.5	53	83	52	65	60	54	54			W	W	06	01			65	64	60		9	8		30		
	31	29.750	57	29.704	59	65	52	80	50	59	54.5	56	54			W	S.E.	07	94			64	64	60		8	5		31		
Sums.		1891		1873		1984		1891		1873		1984										1891	1873	1984							
Means.		29.655	62.4	29.651	57.3	65.9	48.3	82.3	43.6	60.3	56.7	55.3	53.9									61.0	60.4	54.5		7.2	6.8				
+ Total Corrections for Instrumental Errors.		+0.55		+0.55																											
+ 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.	enotes meteor.		
ci.	cirrus.	ms.	meteors.		
ci-cu.	cirro-cumulus.	m.	minibus.		
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.	so. ha.	solar halo.		
h. d.	heavy dew.	sq.	squall.		
hl.	hail.	sqa.	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.	aurora.	m.	enotes 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.	snow.
h.	haze.	sq. ha.	solar halo.
h. d.	heavy dew.	sq.	squall.
hl.	hall.	sq.s.	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

BAROMETER, "corrected Mean" at 9 A.M., minus the Correction ++ for Temp. (Col. 2), = 29.710 9.0 } 29.620
"Corrected Mean" of Barometer at 9 P.M., minus the Correction ++ for Temp. (Col. 4), = 29.706 7.6 } 29.630
Mean at Station, corrected, and at 32', = 29.625
Correction for height, feet above Mean Sea-level, = 195
Mean, reduced to 32', and Sea-level, = 29.820
Highest Reading, corrected for Index error, on the 1 th, = 30.238
Lowest Do. Do., on the 12 th, = 28.986
Difference, or Monthly Range, = 1.250

S-R. THERMOMETER, (in shade, etc.), Highest in Month, (corrected for Index Errors), on the 20 th, = 72.0
Lowest in Month, corrected for Index errors, on the 20 th, = 40.0
Difference, or Monthly Range, = 32.0
"Corrected Mean" of all the Highest, (Col. 5), = 65.9
"Corrected Mean" of all the Lowest, (Col. 6), = 48.3
Difference, or Mean Daily Range, = 17.6
** Calculated Mean Temperature of Month, = 57.1
S-R. THERMOMETER, Black Bulb in Sun, Highest, (corrected for Index Errors), on the 6 th, = 100.0
"Corrected Mean," (Col. 7), of Black Bulb, Max. in Sun, = 83.3
Lowest at Night, Black Bulb (corrected for Index errors), on the 4 th, = 33.0
"Corrected Mean," (Col. 8), of Black Bulb, Min. on grass, = 43.6
Difference of above means or range ("exposed"), =

HYGROMETER, Mean (corrected) A.M. and P.M. Reading of Dry Bulb, (Cols. 9 and 11), = 57.8Mean (corrected) A.M. and P.M. Reading of Wet Bulb, (Cols. 10 and 12), = 55.3Computed Temperature of Dew-Point, = 53.1Do. Elastic Force of Vapour, = 404

Do. Weight of Vapour in a Cubic Foot of Air, =

Relative Humidity (Saturation = 100), = 84RAIN fell on 17 Days; Amount in Inches, = 3.42

WIND.		SUMMARY.			
Direction.		N	NE	E	SE
A.M.		3	4	3	8
P.M.		2	3	4	11
Mean.		3	3	4	9
		0	4	5	3
		0			

Observations made and
Return verified by

John Forrest

(Signed)

SCOTTISH METEOROLOGICAL SOCIETY.

Observations taken at Haddo House, County of Aberdeen, in Lat. 57° 24', Long. 2° 14', Distance from Sea 12 miles.Height of Cistern of the Barometer above Mean Sea-Level 180 feet, above Ground 3 feet.During the MONTH of August 1894.

The Hours of Observation are of Greenwich Time.

ELECTRICITY.	Days of Month.	BAROMETER.				SELF-REGISTERING THERMOMETERS. Read Daily, at 9 P.M.				HYGROMETER.				Rain.	WIND.				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.		9 h. P.M.			0-10.																																																																																																																																																																																																																
		Barometer. No.	Attached Thermometer.	Barometer. No.	Attached Thermometer.	Max. No.	Min. No.	Max. in Sun's rays.	Min. on Grass.	Dry bulb.	Wet bulb.	Dry bulb.	Wet bulb.		No. of inches it fell.	No.	Direction.	Force.	Direction.	Force.	No.	Velocity (0-10), and Direction.	Amount (0-10), and Species.	No.	Velocity (0-10), and Direction.	Amount (0-10), and Species.		No.	Velocity (0-10), and Direction.			Amount (0-10), and Species.	No.	Velocity (0-10), and Direction.	Amount (0-10), and Species.	No.	Velocity (0-10), and Direction.	Amount (0-10), and Species.	No.	Velocity (0-10), and Direction.	Amount (0-10), and Species.	No.	Velocity (0-10), and Direction.	Amount (0-10), and Species.	No.	Velocity (0-10), and Direction.	Amount (0-10), and Species.	No.	Velocity (0-10), and Direction.	Amount (0-10), and Species.	No.	Velocity (0-10), and Direction.	Amount (0-10), and Species.	No.	Velocity (0-10), and Direction.	Amount (0-10), and Species.	No.	Velocity (0-10), and Direction.	Amount (0-10), and Species.	No.	Velocity (0-10), and Direction.	Amount (0-10), and Species.	No.	Velocity (0-10), and Direction.	Amount (0-10), and Species.	No.	Velocity (0-10), and Direction.	Amount (0-10), and Species.	No.	Velocity (0-10), and Direction.	Amount (0-10), and Species.	No.	Velocity (0-10), and Direction.	Amount (0-10), and Species.	No.	Velocity (0-10), and Direction.	Amount (0-10), and Species.	No.	Velocity (0-10), and Direction.	Amount (0-10), and Species.	No.	Velocity (0-10), and Direction.	Amount (0-10), and Species.	No.	Velocity (0-10), and Direction.	Amount (0-10), and Species.	No.	Velocity (0-10), and Direction.	Amount (0-10), and Species.	No.	Velocity (0-10), and Direction.	Amount (0-10), and Species.	No.	Velocity (0-10), and Direction.	Amount (0-10), and Species.	No.	Velocity (0-10), and Direction.	Amount (0-10), and Species.	No.	Velocity (0-10), and Direction.	Amount (0-10), and Species.	No.	Velocity (0-10), and Direction.	Amount (0-10), and Species.	No.	Velocity (0-10), and Direction.	Amount (0-10), and Species.	No.	Velocity (0-10), and Direction.	Amount (0-10), and Species.	No.	Velocity (0-10), and Direction.	Amount (0-10), and Species.	No.	Velocity (0-10), and Direction.	Amount (0-10), and Species.	No.	Velocity (0-10), and Direction.	Amount (0-10), and Species.	No.	Velocity (0-10), and Direction.	Amount (0-10), and Species.	No.	Velocity (0-10), and Direction.	Amount (0-10), and Species.	No.	Velocity (0-10), and Direction.	Amount (0-10), and Species.	No.	Velocity (0-10), and Direction.	Amount (0-10), and Species.	No.	Velocity (0-10), and Direction.	Amount (0-10), and Species.	No.	Velocity (0-10), and Direction.	Amount (0-10), and Species.	No.	Velocity (0-10), and Direction.	Amount (0-10), and Species.	No.	Velocity (0-10), and Direction.	Amount (0-10), and Species.	No.	Velocity (0-10), and Direction.	Amount (0-10), and Species.	No.	Velocity (0-10), and Direction.	Amount (0-10), and Species.	No.	Velocity (0-10), and Direction.	Amount (0-10), and Species.	No.	Velocity (0-10), and Direction.	Amount (0-10), and Species.	No.	Velocity (0-10), and Direction.	Amount (0-10), and Species.	No.	Velocity (0-10), and Direction.	Amount (0-10), and Species.	No.	Velocity (0-10), and Direction.	Amount (0-10), and Species.	No.	Velocity (0-10), and Direction.	Amount (0-10), and Species.	No.	Velocity (0-10), and Direction.	Amount (0-10), and Species.	No.	Velocity (0-10), and Direction.	Amount (0-10), and Species.	No.	Velocity (0-10), and Direction.	Amount (0-10), and Species.	No.	Velocity (0-10), and Direction.	Amount (0-10), and Species.	No.	Velocity (0-10), and Direction.	Amount (0-10), and Species.	No.	Velocity (0-10), and Direction.	Amount (0-10), and Species.	No.	Velocity (0-10), and Direction.	Amount (0-10), and Species.	No.	Velocity (0-10), and Direction.	Amount (0-10), and Species.	No.	Velocity (0-10), and Direction.	Amount (0-10), and Species.	No.	Velocity (0-10), and Direction.	Amount (0-10), and Species.	No.	Velocity (0-10), and Direction.	Amount (0-10), and Species.	No.	Velocity (0-10), and Direction.	Amount (0-10), and Species.	No.	Velocity (0-10), and Direction.	Amount (0-10), and Species.	No.	Velocity (0-10), and Direction.	Amount (0-10), and Species.	No.	Velocity (0-10), and Direction.	Amount (0-10), and Species.	No.	Velocity (0-10), and Direction.	Amount (0-10), and Species.	No.	Velocity (0-10), and Direction.	Amount (0-10), and Species.	No.	Velocity (0-10), and Direction.	Amount (0-10), and Species.	No.	Velocity (0-10), and Direction.	Amount (0-10), and Species.	No.	Velocity (0-10), and Direction.	Amount (0-10), and Species.	No.	Velocity (0-10), and Direction.	Amount (0-10), and Species.	No.	Velocity (0-10), and Direction.	Amount (0-10), and Species.	No.	Velocity (0-10), and Direction.	Amount (0-10), and

BAROMETER, "corrected Mean" at 9 A.M., minus the Correction \ddagger = 29.57
for Temp. (Col. 2), = 29.625
"Corrected Mean" of Barometer at 9 P.M., minus the Correction \ddagger = 29.579
for Temp. (Col. 4), = 29.650
Mean at Station, corrected, and at 32°, = 29.580
Correction for height, feet above Mean Sea-level, = 1.97
Mean, reduced to 32°, and Sea-level, = 29.777
Highest Reading, corrected for Index error, on the 25th, = 30.064
Lowest Do. Do., on the 15th, = 28.958
Difference, or Monthly Range, = 1.106

S.R. THERMOMETER, (in shade, etc.), Highest in Month, (corrected for Index Errors), on the 3th, = 69.0
Lowest in Month, corrected for Index errors, on the 26th, = 34.0
Difference, or Monthly Range, = 35.0
"Corrected Mean" of all the Highest, (Col. 5), = 63.4
"Corrected Mean" of all the Lowest, (Col. 6), = 46.8
Difference, or Mean Daily Range, = 16.6
** Calculated Mean Temperature of Month, = 55.1
S.R. THERMOMETER, Black Bulb in Sun, Highest, (corrected for Index Errors), on the 7th, = 93.0
"Corrected Mean," (Col. 7), of Black Bulb, Max. in Sun, = 79.3
Lowest at Night, Black Bulb (corrected for Index errors), on the 26th, = 29.0
"Corrected Mean," (Col. 8), of Black Bulb, Min. on grass, = 41.3
Difference of above means or range ("exposed"), =

HYGROMETER, Mean (corrected) A.M. and P.M. Reading of Dry Bulb, (Cols. 9 and 11), = 55.0
Mean (corrected) A.M. and P.M. Reading of Wet Bulb, (Cols. 10 and 12), = 52.8
†† Computed Temperature of Dew-Point, = 50.7
†† Do. Elastic Force of Vapour, = 370
†† Do. Weight of Vapour in a Cubic Foot of Air, =
†† Relative Humidity (Saturation = 100), = 86
RAIN fell on 23 Days; Amount in Inches, = 7.23 inches

WIND.		SUMMARY.					
Direction.	N	NE	E	SE	S	SW	W
A.M.	4	2	1	1	1	1	6
P.M.	7	2	1	1	4	9	8
Mean.	5	2	0	1	1	3	12

* 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.
† Estimating corrections for both capillarity and Index Errors.
‡ The Diurnal Range for Scotland is as yet unknown.
†† Practically, though not absolutely a mean correction.
‡‡ These "Hygrometric Deductions" are calculated from Glaisher's Hygrometric 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."
|| 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

John Forrest

(Signed)

Backdo

Observation may be made on the 5th, 10th, and 25th of each month, and, if convenient, extra Sea Observations might be taken on other days. The greater depths noting always the Temperature of the Air and of the Water, by Maxima and Minima by the thermometer continuously immersed and substituted at points along the coast, by the method proposed by Mr. Stevenson, and already commenced at Peterhead and Liverpool. The Temperature of the water at the bottom of Wells ought to be noted when practicable, to be taken, both the depth of the Well and of the water being noted.

0—5, that are wind is from the N. W., and that its force on the scale is 4, or blowing fresh.

Too much importance cannot be attached to the electric condensation of the atmosphere in connection with terrestrial magnetism, barometrical, thermometrical, and meteorological phenomena generally. A proper meteorological observatory, in truth, necessary to every complete meteorological observatory.

between the Lower and Upper Strata of clouds, the Color of the Strata, etc. Remarks ought to be made on the occurrence of Meteors, Auroræ Boreales, remarkable depressions, elevations, and fluctuations in the Barometre; Thunder-Storms, and remarkable falls of Snow, Hail, or Rain, the Hour of Storms of Wind commencing, attaining their height, and ending, as well as such Notes on Storms as have been

[illegible]

The Annual Table, published yearly in the Society's Journal, attests the species of plants and animals to which special attention has been particularly directed. The table is arranged in alphabetical order, and in regarding old ones, to communicate with them the names of the Observers, before purchasing new instruments. Theological Secretary, in order that every instrument may be examined and improved before being used; and they consider it necessary that he should have full power to reject any instrument which being presented for comparison, does not afford him satisfaction.

(By Order)

A. B.

Examiner, December 1891.

[illegible][illegible][illegible]

OBSERVATIONS IN	FOREST TREES.
In Flower.	Alder,
	Ash,
	Beech,
	Birch,
	Elm,
	Larch,
	Pine,
	Oak,
	Sycamore or Plane,

EDINBURGH.

BOOK POST.

[illegible][illegible][illegible]

OBSERVATIONS IN CONNECTION WITH THE PERIODICAL RETURN OF THE SEASONS.

EDINBURGH, December 1891.

(By Order) A. B.

(By Order) A. B.

SCOTTISH METEOROLOGICAL SOCIETY.

Observations taken at Haddo House, County of Aberdeen, in Lat. $57^{\circ}24'$, Long. $2^{\circ}14'$, Distance from Sea 12 miles.
Height of Cistern of the Barometer above Mean Sea-Level 180 feet, above Ground 3 feet. During the MONTH of September 1894.
The Hours of Observation are of Greenwich Time.

ELECTRICITY.	Days of Month.	BAROMETER.				SELF-REGISTERING THERMOMETERS. Read Daily, at 8 P.M.				HYGROMETER.				Rain.	WIND.				CLOUDS.				SUNSHINE.	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. <i>Mention the hour at which Storms, including Thunder and Lightning, began and ended.</i>	Days of Month.
		9 h. A.M.		9 h. P.M.		Protected in Shade, 4 feet above Ground.		Exposed Black Bulbs.		Dry No. _____ Wet No. _____		9 h. A.M.			9 h. P.M.		Readings of the H. Cup Anemometer.		9 A.M.		P.M.			9 h. A.M.				Temperature of WELL at depth of feet. No. _____	Temperature at 1 fathom, and Density.		
		Barometer. * No. _____	Attached Ther- mometer	Barometer. No. _____	Attached Ther- mometer	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. _____	No. of drops in which it fell. No. _____	Amount in inches. No. _____	9 h. A.M.	9 h. P.M.	No. _____	Amount (0—6) and Direction. No. _____	Velocity (0—10), and Species. No. _____	Amount (0—10), and Species. No. _____	No. _____	No. _____	No. _____	9 A.M.	9 P.M.					
		inches.	°	inches.	°	°	°	°	°	°	°	°	°	°	°	°	Direction.	Force	Direction.	Force	9 h. A.M.	0—6 and Direction.	Amount (0—10), and Species.	Amount (0—10), and Species.	Hours.	No. _____ inches.	No. _____ inches.	No. _____ inches.	°		
	1	29.880	53	29.900	48	58	42	81	34	53	50	42.5	41	+	N.W.		N.W.		42.42					5.6	5.8	5.7			8	6	1
	2	29.928	50	29.926	43	57	39	76	32	52	49	40	39	+	N		N		47.23					5.4	5.7	5.7			9	7	2
	3	29.894	49	29.889	49	58	38	81	33	49	48	47	46	+	N		N		53.85					5.3	5.7	5.7			9	8	3
	4	29.842	50	29.864	40	58.5	41	77	36	51	49	48.5	47.5	+	N		N		52.86					5.3	5.6	5.6			8	8	4
	5	29.902	52	30.002	50	59.5	44	73.5	37	52	51	47	46	+	N.E.		N.E.		62.60					5.4	5.6	5.6			9	8	5
	6	29.976	50	29.884	57	57	42	86	38	51	48.5	48	46.5	+	N		N.W.		64.35					5.4	5.6	5.6			9	7	6
	7	29.742	52.5	29.732	49	58	44	75	38	53	49	47.5	46	+	N		N		73.11					5.4	5.6	5.6			9	6	7
	8	29.732	50	29.962	51	57	45	75	37	49	47	50	48	+.65	N.E.		N		78.15					5.3	5.6	5.6			5	6	8
	9	30.128	53	30.212	48	59	41.5	81	35	54.5	51	42	41		N.W.		N.W.		81.86					5.4	5.5	5.6			5	6	9
	10	30.130	47.5	29.988	48	64	37	86	27	48.5	48	45	44		N		S.E.		83.07					5.0	5.5	5.5			4	6	10
	11	29.866	56	30.052	53	67	41	85	35	60.5	57	53	50		N		N		86.08					5.4	5.5	5.5			7	5	11
	12	30.176	52	30.232	50	60	44	82	40	53	48	48	46.5		N		N		96.59					5.3	5.5	5.5			5	5	12
	13	30.198	54.5	30.216	54	63	43	82	37	58	53	52	51	+	N.W.		N		98.47					5.5	5.6	5.5			7	6	13
	14	30.122	55	30.128	55	63	44	80	40	61	56.5	56	55	+	N		N		01.68					5.5	5.6	5.5			7	8	14
	15	30.198	56	30.218	54	58	52	64	51	56.5	53	52.5	50.5		N.W.		N		02.56					5.6	5.6	5.6			9	6	15
	16	30.212	54	30.206	50	60.5	43.5	73	37	57.5	52	48	47.5		E		S.E.		04.30					5.3	5.7	5.6			7	8	16
	17	30.162	49	30.184	49	65	34	78	32	55	52.5	47	46		S.E.		S.E.		12.42					5.3	5.6	5.6			5	8	17
	18	30.166	53	30.150	52	56	46	67	39	53	50	50.5	48		S.E.		S.E.		16.34					5.5	5.6	5.6			8	5	18
	19	30.064	53	30.048	57.5	55	49	66	49	54	51	51	50		S.E.		S.E.		19.93					5.5	5.6	5.6			8	7	19
	20	30.018	53	29.996	52.5	62	47	81	47	53	50	51	50		S.E.		E		21.33					5.5	5.6	5.6			5	8	20
	21	29.912	53	29.920	48	57	41	63	37	54	50.5	41.5	41	+	E		E		22.23					5.5	5.6	5.6			9	9	21
	22	29.856	50	29.794	50	55	38	57	34	50	49	47	46	+	N.E.		N.E.		24.45					5.4	5.5	5.5			6	6	22
	23	29.706	50.5	29.724	47	59	44	75	36	50	48	43.5	42.5	+.63	E		N		24.84					5.3	5.5	5.5			8	4	23
	24	29.726	49	29.758	47	62	41	77	36	53	49	44	43	+	N		N.W.		26.82					5.2	5.5	5.5			4	6	24
	25	29.640	50	29.608	48	64	41	81	37	55.5	52	52	45.5	+	N		S.W.		27.70					5.2	5.5	5.5			4	6	25
	26	29.664	48.5	29.508	46	56	36	72	29	50	47.5	44	42	+	N		N		29.87					5.1	5.5	5.5			9	7	26
	27	29.948	48	30.084	47	53	38	64	34	51	48.5	45	43	+	N		N		34.16					5.0	5.4	5.4			9	6	27
	28	30.186	47.5	30.208	48	55	43.5	69	40	48	45	48	47	+	N.E.		N.E.		36.18					5.0	5.3	5.4			6	7	28
	29	30.236	49.5	30.294	48	55	43	67	42	50	48.5	47	46	+	N.E.		N.E.		37.47					5.1	5.3	5.4			10	8	29
	30	30.302	49	30.320	48	52	42.5	54	39	49	47	47	46	+.34	N.E.		N.E.		38.90					5.1	5.3	5.4			6	6	30
	31																														31
Sums.		1516.3	123	1513.13	141	161	112	1763.5	1259	158.5	153	153	133	1.02										1600	1665	1664			214	199	
Means.		29.985	31	29.905	45	52	36	56.5	38	50.5	48	47.5	46											5.3	5.5	5.5			7.1	6.6	
+ Total Corrections for Instrumental Errors.		+0.55		+0.55																											
+ 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.	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.	" squall.		
fr.	" frost.	s.	" sleet.		
h. fr.	" hoar-frost.	s. ha.	" snow.		
h. d.	" haze.	so. ha.	" solar halo.		
h. d.	" heavy dew.	sq.	" squall.		
hl.	" hail.	sq.	" squall.		
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.	s.	snow.
h.	haze.	so.ha.	solar halo.
h.d.	heavy dew.	sq.	squall.
h.	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

BAROMETER, "corrected Mean" at 9 A.M., minus the Correction \ddagger = 29.979
for Temp. (Col. 2), \ddagger = 0.040
"Corrected Mean" of Barometer at 9 P.M., minus the Correction \ddagger = 30.012
for Temp. (Col. 4), \ddagger = 0.069
Mean at Station, corrected, and at 32', = 29.996
Correction for height, feet above Mean Sea-level, = 1.98
Mean, reduced to 32', and Sea-level, = 30.194
Highest Reading, corrected for Index error, on the 30th, = 30.320
Lowest Do. Do., on the 25th, = 29.608
Difference, or Monthly Range, = 0.712

S.-R. THERMOMETER, (in shade, etc.), Highest in Month, (corrected for Index Errors), on the 11th, = 62.0
Lowest in Month, corrected for Index errors, on the 10th, = 31.0
Difference, or Monthly Range, = 31.0
"Corrected Mean" of all the Highest, (Col. 5), = 58.8
"Corrected Mean" of all the Lowest, (Col. 6), = 42.0
Difference, or Mean Daily Range, = 16.8
** Calculated Mean Temperature of Month, = 50.4
S.-R. THERMOMETER, Black Bulb in Sun, Highest, (corrected for Index Errors), on the 10th, = 86.0
"Corrected Mean," (Col. 7), of Black Bulb, Max. in Sun, = 74.3
Lowest at Night, Black Bulb (corrected for Index errors), on the 10th, = 27.0
"Corrected Mean," (Col. 8), of Black Bulb, Min. on grass, = 37.3
Difference of above means or range ("exposed"), =

HYGROMETER, Mean (corrected) A.M. and P.M. Reading of Dry Bulb, (Cols. 9 and 11), = 50.2
Mean (corrected) A.M. and P.M. Reading of Wet Bulb, (Cols. 10 and 12), = 48.0
†† Computed Temperature of Dew-Point, = 45.7
†† Do. Elastic Force of Vapour, = 507
†† Do. Weight of Vapour in a Cubic Foot of Air, =
†† Relative Humidity (Saturation = 100), = 85
RAIN fell on 19 Days; Amount in Inches, = 1.02

WIND.		SUMMARY.				
Direction.		N	NE	E	SE	S
A.M.		5	6	3	4	8
P.M.		7	5	2	5	1
Mean.		6	5	3	4	0

Observations made and
Return verified by

John Forrest

(Signed)

19/4
6

SCOTTISH METEOROLOGICAL SOCIETY.

Observations taken at Adams House, County of Aberdeen, in Lat. 57°24', Long. 2°14', Distance from Sea 12 miles.

Height of Cistern of the Barometer above Mean Sea-Level 180 feet, above Ground 3 feet.

During the MONTH of October 1894.

The Hours of Observation are of Greenwich Time.

ELECTRICITY.	Days of Month.	BAROMETER.				SELF-REGISTERING THERMOMETERS. Read Daily, at 9 P.M.				HYGROMETER. Dry No. Wet No.				Rain.	WIND.				CLOUDS.				SUNSHINE.	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. <i>Mention the hour at which Storms, including Thunder and Lightning, began and ended.</i>	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.				9 A.M. 9 P.M.						
		Barometer.	Attached Thermometer.	Barometer.	Attached Thermometer.	Max.	Min.	Max. in Sun's rays.	Min. on Grass.	Dry bulb.	Wet bulb.	Dry bulb.	Wet bulb.		No. of Waves in which it fell.	Amount in inches.	Direction.	Force.	Direction.	Force.	Velocity (0-6) and Direction.	Amount (0-10), and Species.		Velocity (0-6) and Direction.	Amount (0-10), and Species.	No.		No.	No.			Temperature of Well at depth of feet, No.	Temperature at 1 fathom, and Density.	0-10.
		* No.	°	No.	°	No.	No.	No.	No.	°	°	°	°		No.	No.	°	°	°	°	°	°		°	°	°		°	°			°	°	°
	1	30.244	50	30.168	47.5	56	43	72	39	50	45	45	43		S	S.E.	3943						49	53	53			5	4		1			
	2	30.116	45	30.132	45	65	38.5	78	34	43.5	43	39	38.5		S.E.	W	4211						48	52	53			4	5		2			
	3	30.114	42.5	30.108	48	62	33.5	73	29	41	40	49	48		N.W.	N.E.	4264						46	52	53			5	6		3			
	4	30.048	49	30.110	50	53	46	64	40	50.5	49	50	49.5	+	N.E.	E	4450						51	53	53			9	8		4			
	5	30.028	50	30.034	50	53	48	65	48	50.5	50	49	48	+	E	E	4468						52	53	53			7	8		5			
	6	29.976	50	29.982	49.5	56	47	67	47	50	49	49	48	+	E	S	4579						52	53	53			8	9		6			
	7	29.862	49	29.878	50.5	56	44	67.5	39	48	47.5	50	49	+	S.E.	S.W.	4763						52	53	53			7	8		7			
	8	29.980	50	29.876	51	58	46	67	44	53	51	52	51		S.W.	S	4800						52	53	53			5	6		8			
	9	29.830	53	29.746	53	57	47	65	43	58	51	52	51	+	S	S.E.	5452						52	53	53			9	8		9			
	10	29.752	53	29.894	53	64	45	75	39	57	54.5	48	47		W	S.W.	5921						53	53	53			5	6		10			
	11	29.970	49	30.042	43	60.5	43	72	38	44	42	39	38.5		W	S.E.	5980						51	53	53			4	8		11			
	12	29.956	48	29.920	50	67	34.5	64	32	51	50	52	50.5	+	S.W.	S.W.	6079						49	53	53			6	6		12			
	13	29.858	53	29.918	46.5	58	41	65	37	56	55	43	41	+	W	N.E.	6263						52	53	53			7	9		13			
	14	29.940	43.5	30.038	44	50	38	60	32	45.5	43	42.5	40	+	N.E.	N	6506						47	51	53			5	5		14			
	15	30.038	45.5	30.066	44	57	39	58	34	45.5	42.5	42	41	+	N	N	6820						47	51	52			6	9		15			
	16	30.046	45	30.000	43	50	40.5	62.5	36	45	44	40	42	+	N	N	7004						47	50	52			8	9		16			
	17	29.814	45	29.706	43	57	39	60	35	45	44	40.5	40	+	N.W.	N	7646						47	50	51			9	9		17			
	18	29.651	41	29.560	37	47	31	57	36	39	37	35	34	+	N	N	7845						44	49	51			9	8		18			
	19	29.576	36	29.598	37.5	46.5	28	62	22.5	37	33.5	35	34	+	N.E.	N.E.	8493						42	48	50			8	8		19			
	20	29.540	39	29.620	40.5	44	29	62	24	38	37.5	40.5	38	+	N.E.	E	8595						42	47	50			9	8		20			
	21	29.596	40	29.540	37	48.5	33	60	30	41	38	34	33.5	+	N.E.	W	9478						43	46	49			5	8		21			
	22	29.532	38	29.618	34	49	29.5	60	24	41	38	29	28.5		W	W	0085						41	46	48			9	5		22			
	23	29.742	32	29.676	42.5	49	23	67	20	36	32	45.5	42	+	W	S.E.	0463						38	45	48			6	5		23			
	24	29.148	46	28.618	51	52	42.5	52	40	49	48.5	51	50.5	+	S.E.	S.E.	1794						44	45	47			6	9		24			
	25	28.432	48	28.766	40	51	41	62	41	48.5	48	42	41	+	N.E.	N.E.	2745						47	46	47			7	9		25			
	26	29.126	40	29.226	37	47	33	57	28	40	38.5	33	32.5	+	N.E.	N.W.	3077						43	47	47			8	5		26			
	27	29.132	36.5	29.294	34	50	28.5	61	24	34.5	33.5	30	29.5	+	N	N	3255						41	46	47			6	5		27			
	28	29.362	38	29.350	44	48	26	56	23	40	38.5	45	44	+	1.34	S	3326						41	45	47			5	6		28			
	29	29.026	46.5	29.042	37	53	31	63	26.5	45.5	44	31	30.5	+	S.E.	S.W.	5029						44	45	47			6	6		29			
	30	29.332	43.5	29.609	34	53.5	25	64	22	33.5	31.5	29	28.5		N.W.	N.W.	5178						39	45	46			6	4		30			
	31	29.668	45	29.514	48	51	24	62	22	48	44.5	51	50.5	+	.78	S	5487						42	44	46			6	6		31			
Sums.		5312	143	1413	123	32	153	121	131	134	145	125	136	22									12	12	12			286	215					
Means.		9.1232	3.00	9.2064	3.44	16.47	113.75	19.60	10.64	13.94	13.63	13.16	12.83	3.39									148.8	153.3	153.7			6.66	6.9					
+ Total Corrections for Instrumental Errors.		29.144	44.8	29.698	41.0	53.5	36.7	63.2	33.2	45.3	43.3	42.5	41.4									46.8	49.4	50.0										
+ Corrections for Diurnal Range.		688		4070																														
"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.	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.	st.	" stratus.		
f.	" fog.	sc.	" scud.		
fr.	" frost.	s.	" sleet.		
h-fr.	" hoar-frost.	s.	" snow.		
h.	" haze.	so. ha.	" solar halo.		
h. d.	" 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	Fresh breeze	2.	Very light air	5	Blowing gale
1.	Light air	3.	Very fresh	6	Violent gale

BAROMETER, "corrected Mean" at 9 A.M., minus the Correction $\frac{1}{2}$ = 29.645
 for Temp. (Col. 2), = 29.688 - 43 = 29.645
 "Corrected Mean" of Barometer at 9 P.M., minus the Correction $\frac{1}{2}$ = 29.657
 for Temp. (Col. 4), = 29.698 - 41 = 29.657
 Mean at Station, corrected, and at 32° = 29.720
 Correction for height, feet above Mean Sea-level, = 200
 Mean, reduced to 32°, and Sea-level, = 29.920
 Highest Reading, corrected for Index error, on the 1st, = 30.244
 Lowest Do. Do., on the 25th, = 28.432
 Difference, or Monthly Range, = 1.812

S-R. THERMOMETER, (in shade, etc.), Highest in Month, (corrected for Index Errors), on the 12th, = 65.0
 Lowest in Month, corrected for Index errors, on the 23rd, = 23.0
 Difference, or Monthly Range, = 42.0
 "Corrected Mean" of all the Highest, (Col. 5), = 53.3
 "Corrected Mean" of all the Lowest, (Col. 6), = 36.7
 Difference, or Mean Daily Range, = 16.8
 ** Calculated Mean Temperature of Month, = 45.1
 S-R. THERMOMETER, Black Bulb in Sun, Highest, (corrected for Index Errors), on the 7th, = 78.0
 "Corrected Mean," (Col. 7), of Black Bulb, Max. in Sun, = 53.2
 Lowest at Night, Black Bulb (corrected for Index errors), on the 27th, = 20.0
 "Corrected Mean," (Col. 8), of Black Bulb, Min. on grass, = 33.2
 Difference of above means or range ("exposed"), =

HYGROMETER, Mean (corrected) A.M. and P.M. Reading of Dry Bulb, (Cols. 9 and 11), = 43.9
 Mean (corrected) A.M. and P.M. Reading of Wet Bulb, (Cols. 10 and 12), = 42.4
 ** Computed Temperature of Dew-Point, = 40.6
 ** Do. Elastic Force of Vapour, = 254
 ** Do. Weight of Vapour in a Cubic Foot of Air, = 88
 ** Relative Humidity (Saturation = 100), = 88
 RAIN fell on 23 Days; Amount in Inches, = 3.39

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

Observations made and Return verified by

John Forrester

(Signed)

boneter, and is a much less tedious operation, to get it wholly inside the tube, and to screw down the mercury in the manometer. 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 the mercury has been expelled. On hanging up the barometer, care must be taken to screw down the mercury in the tube before unfasting the float of the cistern, for, if this be not attended to, the mercury

SCOTTISH METEOROLOGICAL SOCIETY.

Observations taken at *Academy House*, County of *Aberdeen*, in Lat. $57^{\circ}24'$, Long. $2^{\circ}14'$, Distance from Sea *12* miles.Height of Cistern of the Barometer above Mean Sea-Level *180* feet, above Ground *3* feet.During the MONTH of *November* 189*4*.

The Hours of Observation are of Greenwich Time.

ELECTRICITY.	Days of Month.	BAROMETER.				SELF-REGISTERING THERMOMETERS.				HYGROMETER.				Rain.	WIND.				CLOUDS.				SUNSHINE.	THERMOMETERS under Ground.			SEA.	OZONE.		GENERAL REMARKS.		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.				0-10.					
		Barometer.	Attached Ther-	Barometer.	Attached Ther-	Max.	Min.	Max.	Min.	Dry bulb.	Wet bulb.	Dry bulb.	Wet bulb.	No. of drops in which it fell.	Direction.	Force.	Direction.	Force.	Readings of the H. Cup Anemometer.	Velocity (0-6) and Direction.	Amount (0-10), and Species.	Velocity (0-6) and Direction.	Amount (0-10), and Species.	Hours.	No. 3 inches.	No. 12 inches.	No. 22 inches.	Temperature of Air at surface of Wet Bulb.	Temperature of Air at surface of Dry Bulb.	9 A.M.	9 P.M.		
		"No.	ometer	No.	ometer	No.	No.	No.	No.	Dry bulb.	Wet bulb.	Dry bulb.	Wet bulb.	No.	No.	No.	No.	No.	No.	No.	No.	No.	No.	No.	No.	No.	No.	No.	No.	No.	No.		No.
		inches.		inches.																													
	1	29.344	50	29.322	52	56	50	56	48	52	57	52.5	52	+	S.W.	S			6579						47	44	46			6	6	1	
	2	29.202	51.5	29.400	51	61.5	47	71	39	54	52	50	48		S.W.	S.W.			6854						47	46	46			7	5	2	
	3	29.392	51	29.198	50	53	45	54	41	50.5	50	50	48.5	+	S	S.W.			7522						47	47	47			6	8	3	
	4	29.188	49.5	29.340	48	54	46	61	40	47	45	48.5	45.5	+	S.W.	S.W.			8610						46	47	47			5	5	4	
	5	29.152	47	29.418	46	57	43	67	37	50	49	44	40	+	W	W			9283						46	47	47			6	7	5	
	6	29.588	45	29.536	47	57	40	50	34	45	43.5	47	45		S.W.	S.W.			0462						46	47	47			6	6	6	
	7	29.312	50	29.052	48	53	46	55	40	50	48.5	48	47	+	S.W.	S.W.			1199						47	47	47			5	5	7	
	8	29.014	44	29.106	45	50	36	55	30	43.5	41.5	44	43	+	S.W.	S.W.			1561						44	47	47			6	6	8	
	9	29.196	41	29.034	43	47	36	57	31	41.5	40	42	40.5	+	S.W.	S.W.			2342						43	46	47			7	6	9	
	10	28.996	40	28.944	34	51	32	59	27	41	39	32.5	32		W	W			2902						42	45	46			6	7	10	
	11	28.892	35	28.862	39	47	27.5	52	24	32	31.5	38	37	32	S.W.	S.W.			3142						39	44	46			6	6	11	
	12	28.780	37.5	28.944	40.5	47	34	52	28	38.5	38	41	40	+	S.W.	S.W.			3233						39	43	45			6	5	12	
	13	29.124	39.5	28.725	43	45	30	52	30	38	36	43	42	+	S	S			3722						41	42	45			7	6	13	
	14	28.538	39	28.584	37.5	49	32	59	25	37.5	36.5	38.5	34		W	S.W.			4723						41	42	45			6	5	14	
	15	28.804	36	28.980	36	45	30	48	20.5	38	36	35	33.5		S	S.W.			5071						37	41	44			5	6	15	
	16	29.254	37.5	29.464	39	46	30	57	25	39	37	39	37.5		S	S			5546						37	41	44			6	5	16	
	17	29.528	45	29.682	48	50	37	49	31	47	44.5	50	47.5		S	S			6241						42	41	44			6	7	17	
	18	29.816	46	29.748	46	50	44	49	38	46	44	46.5	45	+	S.W.	S.W.			7375						42	41	43			4	7	18	
	19	29.748	43	29.744	45	49.5	40	60	33	43.5	43.5	45	44		S.W.	S.W.			7440						43	43	43			6	5	19	
	20	29.534	48	29.642	38	57	34	54	27	49	48	38	33.5	+	S.W.	W			8469						43	43	43			5	7	20	
	21	29.886	38	29.770	43	44.5	31	43	24	37	35	44.5	42	+	W	S.W.			9062						39	43	43			6	8	21	
	22	29.696	48	29.818	44	53	41	51	32	50	47	48	41.5		S.W.	S.W.			9799						43	42	43			5	5	22	
	23	29.916	37.5	30.116	35	49	28	50	22	34	33	29.5	29.5		N.E.	S			6530						39	42	43			6	5	23	
	24	30.260	32	30.266	32	41.5	25	39	19.5	27.5	27	28.5	28.5		W	S.W.			0554						36	42	43			6	4	24	
	25	30.240	33.5	30.228	40	42.5	26	41	23	32	31.5	42	41	38	S.W.	S.E.			0565						37	41	43			4	5	25	
	26	30.196	43	30.232	35	44	30	44.5	24	43	41.5	30.5	30		S	S			0657						39	40	42			4	6	26	
	27	30.170	32	30.024	38	41	23	39.5	19	30	29.5	33	32		S	S.W.			0763						35	40	42			4	5	27	
	28	30.004	39.5	29.842	45	50	36	49	32	40	39	47.5	45		S.W.	W			0887						37	39	42			6	5	28	
	29	29.778	46	29.886	42	52	40	51	33	47	45	42	38.5		W	N.W.			1661						41	41	42			5	5	29	
	30	30.174	43	30.186	37	46.5	31	48	25	42	40.5	33	22.5		S.W.	W			3212						41	41	42			5	5	30	
	31																																31
Sums.		1353		884		1268		885		1266		1487		1079		1567		9340		1244		1295		1334		168		173					
Means.		29.490		29.508		22.493		35.6		5.22		30.1		41.2		40.8		41.4		39.5		1.06			41.5		43.2		44.5				
+ Total Corrections for Instrumental Errors.		+070		+070																													
+ Corrections for Diurnal Range.																																	
"Corrected Means."																																	
No. of Columns.		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.	enotes meteor.		
ci.	cirrus.	ms.	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.	haze.	so. ha.	solar halo.		
h. d.	heavy dew.	sq.	squall.		
h.	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

BAROMETER, "corrected Mean" at 9 A.M., minus the Correction $\frac{1}{100}$ = *29.454*
for Temp. (Col. 2), = *29.490* $\frac{1}{100}$ = *29.472*
"Corrected Mean" of Barometer at 9 P.M., minus the Correction $\frac{1}{100}$ = *29.472*
for Temp. (Col. 4), = *29.508* $\frac{1}{100}$ = *29.533*
Mean at Station, corrected, and at 32, *29.533*
Correction for height, feet above Mean Sea-level, *200*
Mean, reduced to 32°, and Sea-level, *29.733*
Highest Reading, corrected for Index error, on the *24* th, = *30.266*
Lowest Do. Do., on the *18* th, = *28.508*
Difference, or Monthly Range, = *1.758*

S-R. THERMOMETER, (in shade, etc.), Highest in Month, (corrected for Index Errors), on the *2* th, = *61.5*
Lowest in Month, corrected for Index errors, on the *24* th, = *25.0*
Difference, or Monthly Range, = *36.5*
"Corrected Mean" of all the Highest, (Col. 5), = *49.3*
"Corrected Mean" of all the Lowest, (Col. 6), = *35.6*
Difference, or Mean Daily Range, = *13.7*
** Calculated Mean Temperature of Month, = *42.5*
S-R. THERMOMETER, Black Bulb in Sun, Highest, (corrected for Index Errors), on the *2* th, = *71.0*
"Corrected Mean," (Col. 7), of Black Bulb, Max. in Sun, = *49.3*
Lowest at Night, Black Bulb (corrected for Index errors), on the *27* th, = *19.0*
"Corrected Mean," (Col. 8), of Black Bulb, Min. on grass, = *35.6*
Difference of above means or range ("exposed"), =

HYGROMETER, Mean (corrected) A.M. and P.M. Reading of Dry Bulb, (Cols. 9 and 11), = *41.8*
Mean (corrected) A.M. and P.M. Reading of Wet Bulb, (Cols. 10 and 12), = *40.2*
†† Computed Temperature of Dew-Point, = *38.2*
†† Do. Elastic Force of Vapour, = *231*
†† Do. Weight of Vapour in a Cubic Foot of Air, =
†† Relative Humidity (Saturation = 100), = *88*
RAIN fell on *12* Days; Amount in Inches, = *1.04*

WIND.		SUMMARY.									
Direction.		N	NE	E	SE	S	SW	W	NW	Calm or Variable.	Mean Force.
A.M.		1	1			6	12	6	4		
P.M.				1	1	5	14	5	4		
Mean.		0	1	1	1	5	13	5	4	6	

Observations made and
Return verified by*John Forrest*

(Signed)

SCOTTISH METEOROLOGICAL SOCIETY.

Observations taken at Gladdo House, County of Aberdeen, in Lat. $57^{\circ}24'$, Long. $2^{\circ}14'$, Distance from Sea 12 miles.

Height of Cistern of the Barometer above Mean Sea-Level 180 feet, above Ground 3 feet.

During the MONTH of December 1894.

The Hours of Observation are of Greenwich Time.

* Note Mr. Forrest explains that the sun never reaches the thermometer during the month of December and during owing to high bars on both sides, &c. 1.1.95.
+ Owing to its situation the anemometer is not reliable.

ELECTRICITY.	Days of Month.	SELF-REGISTERING BAROMETER.								HYGROMETER.								Rain.	WIND.				CLOUDS.				THERMOMETERS under Ground.				SUNSHINE.	SEA.	OZONE.	GENERAL REMARKS.	Days of Month.
		9 h. A.M.		9 h. P.M.		Protected in Shade, 4 feet above Ground.		Exposed Black Bolls.		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.	Attached Thermometer.	Barometer.	Attached Thermometer.	Max. No.	Min. No.	Max. No.	Min. No.	Dry bulb.	Wet bulb.	Dry bulb.	Wet bulb.	Direction.	Force.	Direction.	Force.		Amount.	Direction.	Amount.	Direction.	Amount.	No. 3 inches.	No. 12 inches.	No. 22 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.	No.								
		Inches.		Inches.																															
	1	30.134	33	30.116	37	42.5	26	38	22	29	32	38	36.5		W	W																1			
	2	30.066	30	29.988	30	39	24	35	19	25	25	26	25.5		W	W																2			
	3	29.856	38	29.748	38.5	40	25.5	39	19	38	38	40	29.5		S	S																3			
	4	29.648	42	29.606	42	43	39	42	37.5	42	40	43	41.5		S	S																4			
	5	29.636	39	29.664	39	43	37	41	33	36	35.5	37	37	X	S	S.W																5			
	6	29.614	34	29.538	34	43	29	43	24.5	30	32	31	30.5		S.W	W																6			
	7	29.436	32	29.298	38	44	24	42	21	32.5	31.5	37	36.5	X	S	S.W																7			
	8	29.578	37.5	29.732	33	41	28	44	20	36.5	35	28.5	28		W	W																8			
	9	29.776	31	29.646	39.5	42	22	34.5	18	27	26.5	42	40	X	S.W	S																9			
	10	29.458	44	29.542	45	50	38	48.5	30	47	46	45	44.5	X	S	S.W																10			
	11	29.568	46	29.558	47	50	32	50	27	48	47	47	45.5	X	S	S																11			
	12	29.484	38.5	29.446	47	50	37	48	33	36	35	49.5	46.5	X	W	S																12			
	13	29.252	50.5	29.166	48.5	55	44	51	41	52.5	49.5	50	44		S.W	S.W																13			
	14	29.588	41	29.528	33	40.5	25.5	47	20.5	38.5	36	28	27.5		S.W	S.W																14			
	15	29.310	40	29.614	35	44	26	43	22	36.5	35	32	31		W	W																15			
	16	29.720	36	29.864	33	35	29	34	23	34	32.5	30	29	X	S.W	S.W																16			
	17	29.488	36	29.336	39	41.5	37.5	38	23	35.5	35	41.5	39	X	S	S.W																17			
	18	28.724	43	28.734	37.5	44.5	34	44	29.5	42.5	41	37	34.5	X	S	S.W																18			
	19	28.886	39	29.336	41.5	44	34.5	44	29	39	37.5	41	38.5	X	S.W	S.W																19			
	20	29.764	41	29.698	34	43	29	41	23	40	38	32	31	X	S.W	W																20			
	21	29.528	39	29.066	40	43	28	40	21	37	36	41	40	X	W	S.E.																21			
	22	29.934	40.5	29.398	37.5	40	35	40	31	41	39.5	37	33	X	S.W	S.W																22			
	23	29.572	37.5	29.654	35	43	32	40	25	39	36.5	33.5	32.5	1.27	W	W																23			
	24	29.832	36	29.946	34	37	29	37	24	35.5	34	32	31.5		S.W	W																24			
	25	29.976	32.5	29.958	37	47	25	46.5	22	32	32	35	34		W	W																25			
	26	30.028	41	30.134	38	42	33	41	29	42	40	37	35	X	S.W	S.W																26			
	27	30.206	38	30.300	35	40	32	37	25	39	37	32.5	31.5	X	S.W	S.W																27			
	28	29.444	42	28.788	34	50	36	46	33	42.5	39	32	31.5	X	S.W	S.W																28			
	29	28.442	33	28.796	32	36	29	34	35	32	31.5	30	31.5	X	S.W	S																29			
	30	29.042	33.5	29.328	31	36	28	35	25	29	31.5	31	30	X	S	S																30			
	31	29.454	33	29.608	32	35	28	32	27	33	33	30.5	30.5	X	S	S																31			
Sums.		1615	123	1715	133	102	84	111	84	111	84	111	84																						
Means.		29.498	38.8	29.230	37.3	42.7	30.8	41.3	26.2	37.0	36.1	36.4	35.5	3.88																					
+ Total Corrections for Instrumental Errors.		0.070		0.070																															
+ Corrections for Diurnal Range.																																			
+ "Corrected Means."																																			
No. of Columns.		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 $\frac{1}{100}$ for Temp. (Col. 2), = 29.543
 "Corrected Mean" of Barometer at 9 P.M., minus the Correction $\frac{1}{100}$ for Temp. (Col. 4), = 29.604
 Mean at Station, corrected, and at 32' = 29.574
 Correction for height, feet above Mean Sea-Level, = 2.63
 Mean, reduced to 32', and Sea-level, = 29.727
 Highest Reading, corrected for Index error, on the 17th, = 30.370
 Lowest Do. Do., on the 22th, = 28.004
 Difference, or Monthly Range, = 2.366

S-R. THERMOMETER, (in shade, etc.), Highest in Month, (corrected for Index Errors), on the 13th, = 55.0
 Lowest in Month, corrected for Index errors, on the 9th, = 22.0
 Difference, or Monthly Range, = 33.0
 "Corrected Mean" of all the Highest, (Col. 5), = 42.7
 "Corrected Mean" of all the Lowest, (Col. 6), = 30.8
 Difference, or Mean Daily Range, = 11.9
 ** Calculated Mean Temperature of Month, = 36.8
 S-R. THERMOMETER, Black Bulb in Sun, Highest, (corrected for Index Errors), on the 13th, = 51.0
 "Corrected Mean," (Col. 7), of Black Bulb, Max. in Sun, = 41.3
 Lowest at Night, Black Bulb (corrected for Index errors), on the 9th, = 18.0
 "Corrected Mean," (Col. 8), of Black Bulb, Min. on grass, = 26.2
 Difference of above means or range ("exposed"), =

HYGROMETER, Mean (corrected) A.M. and P.M. Reading of Dry Bulb, (Cols. 9 and 11), = 36.7
 Mean (corrected) A.M. and P.M. Reading of Wet Bulb, (Cols. 10 and 12), = 35.4
 ** Computed Temperature of Dew-Point, = 33.6
 ** Do. Elastic Force of Vapour, = 1.93
 ** Do. Weight of Vapour in a Cubic Foot of Air, =
 ** Relative Humidity (Saturation = 100), = 89
 RAIN fell on 19 Days; Amount in Inches, = 3.88

WIND.		SUMMARY.									
Direction.		N	NE	E	SE	S	SW	W	NW	Calm or Variable.	Mean Force.
A.M.	2					8	6	8	7		
P.M.	3		1	1	5	6	8	7			
Mean.	2	0	1	1	6	6	8	7			

Observations made and Return verified by

John Forrest

(Signed)

