

SCOTTISH METEOROLOGICAL SOCIETY.

Observations taken at Corstorphine House, County of Edinburgh, in Lat. 55°56'N, Long. 3°16'W, Distance from Sea 2½ miles.Height of Cistern of the Barometer above Mean Sea-Level 165 feet, above Ground 6 feet.During the MONTH of January 1901.

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.				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.		No. of hours in which it fell.	Amount in inches.	9 h. A.M.		9 h. P.M.		9 A.M.		9 P.M.		9 h. A.M.							Temperature of Well at depth of feet, No.	Temperature at 1 foot, and Dew-Point.	0—10.		9 A.M.	9 P.M.																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																
		Barometer. No. _____	Attached Thermometer. No. _____	Barometer. No. _____	Attached Thermometer. No. _____	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.	Readings of the H. Cup Anemometer. No. _____	9 h. A.M.	Velocity (0—6) and Species.	Amount (0—10), and Species.	Velocity (0—6) and Direction.	Amount (0—10), and Species.	No. _____							No. _____	No. _____			No. _____	No. _____	No. _____	No. _____	No. _____																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																											
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BAROMETER, "corrected Mean" at 9 A.M., minus the Correction $\frac{1}{1000}$ for Temp. (Col. 2), = 29.721
"Corrected Mean" of Barometer at 9 P.M., minus the Correction $\frac{1}{1000}$ for Temp. (Col. 4), = 29.724
Mean at Station, corrected, and at 32°, = 29.722
Correction for height, feet above Mean Sea-level, = 165
Mean, reduced to 32°, and Sea-level, = 29.907
Highest Reading, corrected for Index error, on the 23rd, = 30.328
Lowest Do. Do., on the 27th, = 28.824
Difference, or Monthly Range, = 1.504

S-R. THERMOMETER, (in shade, etc.), Highest in Month, (corrected for Index Errors), on the 14th, = 52.3
Lowest in Month, corrected for Index errors, on the 28th, = 27.2
Difference, or Monthly Range, = 29.1
"Corrected Mean" of all the Highest, (Col. 5), = 43.1
"Corrected Mean" of all the Lowest, (Col. 6), =

water, in cases where the observations cannot be taken daily, the observation may be made on the 15th, 16th and 25th of each month. When convenient, extra Sea Observations might be taken for other, and greater depths, noting always the Temperature of the Air, and the Hour of Observation. It is also very desirable that observations on the daily Maxima and Minima by Thermometers continuously maintained, be instituted at points along the coast, by the method proposed by Mr. T. Stevenson, and already commenced at Pichecadou, Liverpool.

The Temperature of the water at the bottom of Wells ought to be taken, when practicable, to be taken both the depth of the Temperature well and of the water being tested.

Mention what Test-Papers are used, Schindler's or Moffat's, etc.

Comes.
The Paper is affixed by a pin to a board in the Theatre-meteorologique, 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, and at the time of observation, in the following manner:—thus $3\frac{1}{2}$, as at 3 o'clock on the 15th in the schedule will indicate that the Ozone paper is tinted as 3 on the scale 0—10 14, 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 most valuable Observations that can be taken are those for which no rules can be given nor hours assigned. The use of contractions ought, therefore, to be taken every advantage of, and a list of such as are in general use is given at the foot of the column. Besides special and extraordinary Observations, great prominence ought to be given in this column to Prevailing Diseases, 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, 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 mentioned at above. When lofty 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 abbreviations, the state of the weather at 9 A.M. and 3 P.M. should be registered, either in two columns, or by a single column, 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 in connection with one of considerable importance in connection with 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 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 him satisfaction.

(By Order)

E. NICHOL,
Director.

OBSERVATIONS IN CONNECTION WITH THE PERIODICAL RETURN OF THE SEASONS.

FOREST TREES.	In Flower.	In Leaf Buds.	In Leaf.	Diseased or Leaves.	CROPS, mentioning variety.	Sowing or Planting.	Appearing or above Ground.	In Ear or Raised.	First Cut.
Alder,					Barley,				
Asch,					Bare or Bigg,				
Birch,					Oats,				
Elm,					Pease,				
Larch,					Beans,				
Time,					Potatoes,				
Oak,					Turnips,				
Sycamore or Plane,					Rye Grass,				

SCOTTISH METEOROLOGICAL SOCIETY.

Observations taken at Corstorphine House, County of Mid-Lothian, in Lat. 55°56'31"N. Long. 3°16'46"W, Distance from Sea 2 2/3 miles.

Height of Cistern of the Barometer above Mean Sea-Level 165 feet, above Ground 6 feet.

During the MONTH of February, 1901.

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.	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.			No. of hours for which it fell.	Amount in inches.	9 h. A.M.		9 h. P.M.		Readings of the H. Cup Anemometer. No. _____	9 h. A.M.	9 P.M.	SUNSHINE. Hours.	9 h. A.M.																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																	
		Barometer. * No. _____	Attached Thermometer	Barometer. No. _____	Attached Thermometer	Max. No. _____	Min. No. _____	Max. in Sun-rays No. _____	Min. on Grass. No. _____	Dry bulb.	Wet bulb.	Dry bulb.	Wet bulb.				Direction.	Force	Direction.	Force					Velocity (0-9) 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.																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																							
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NOTATION USED IN GENERAL REMARKS.

a.	denotes aurora.	m.	denotes meteor.
ci.	cirrus.	ms.	meteors.
ci.-cu.	cirro-cumulus.	ni.	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.	5.	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 = 29.868
for Temp. (Col. 2), = 29.914.....0.046.....

"Corrected Mean" of Barometer at 9 P.M., minus the Correction \ddagger = 29.875
for Temp. (Col. 4), = 29.927.....0.052.....

Mean at Station, corrected, and at 32°..... = 29.871
Correction for height, feet above Mean Sea-level,..... = 186

Mean, reduced to 32°, and Sea-level,..... = 30.057

Highest Reading, corrected for Index error, on the 14 th,..... = 30.468

Lowest Do. Do., on the 27 th,..... = 29.082

Difference, or Monthly Range,..... = 1.386

S.-R. THERMOMETER, (in shade, etc.), Highest in Month, (corrected for Index Errors), on the 18 th,..... = 47.2

Lowest in Month, corrected for Index errors, on the 14 th,..... = 23.9

Difference, or Monthly Range,..... = 23.5

"Corrected Mean" of all the Highest, (Col. 5),..... = 41.8

"Corrected Mean" of all the Lowest, (Col. 6),..... = 30.8

Difference, or Mean Daily Range,..... = 11.0

** Calculated Mean Temperature of Month,..... = 36.3

S.-R. THERMOMETER, Black Bulb in Sun, Highest, (corrected for Index Errors), on the 10 th,..... = 88.6

"Corrected Mean," (Col. 7), of Black Bulb, Max. in Sun,..... = 69.8

Lowest at Night, Black Bulb (corrected for Index errors), on the 5 th,..... = 16.9

"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),..... = 34.7

Mean (corrected) A.M. and P.M. Reading of Wet Bulb, (Cols. 10 and 12),..... = 33.4

Computed Temperature of Dew-Point,..... = 31.3

Do. Elastic Force of Vapour,..... = 176

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

Relative Humidity (Saturation = 100),..... = 87

RAIN fell on 16 Days; Amount in Inches,..... = 1.34

WIND.	SUMMARY.										Mean Force.	Mean Velocity in miles per day
	Direction.	N	NE	E	SE	S	SW	W	NW	Calm or Variable.		
A.M.		12	0	2	0	2	0	5	0	7	0.53	
P.M.		13	0	1	0	0	0	2	3	9	0.43	
Mean.		13	0	1	0	1	0	4	1	8	0.48	71.23

SCOTTISH METEOROLOGICAL SOCIETY.

Observations taken at Corstorphine House, County of Edinburgh, in Lat. 55° 56' 31" N, Long. 3° 16' 46" W, Distance from Sea 2 3/4 miles.

Height of Cistern of the Barometer above Mean Sea-Level 165 feet, above Ground 6 feet.

During the MONTH of March, 1901.

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.		No. of hours in which it fell.	Amount in inches.	9 h. A.M.		9 h. P.M.		Readings of the H. Cup Anemometer. No. _____	9 A.M.		9 P.M.		9 h. A.M.																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																														
		Barometer. * No. _____	Attached Thermometer	Barometer. No. _____	Attached Thermometer	Max. No. _____	Min. No. _____	Max. in Sun's rays No. _____	Min. on Grass. No. _____	Dry bulb. _____	Wet bulb. _____	Dry bulb. _____	Wet bulb. _____			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. 8 inches.	No. 12 inches.					No. 22 inches.																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																								
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BAROMETER, "corrected Mean" at 9 A.M., minus the Correction \ddagger = 29.626
for Temp. (Col. 2), = 29.626
Corrected Mean" of Barometer at 9 P.M., minus the Correction \ddagger = 29.643
for Temp. (Col. 4), = 29.643
Mean at Station, corrected, and at 32°, = 29.643
Correction for height, feet above Mean Sea-level, = 1.83
Mean, reduced to 32°, and Sea-level, = 29.762
Highest Reading, corrected for Index error, on the 23rd, = 30.420
Lowest Do. Do., on the 2nd, = 28.604
Difference, or Monthly Range, = 1.816

S-R. THERMOMETER, (in shade, etc.), Highest in Month, (corrected for Index Errors), on the 13th, = 56.4
Lowest in Month, corrected for Index errors, on the 29th, = 18.9
Difference, or Monthly Range, = 37.5
"Corrected Mean" of all the Highest, (Col. 5), = 45.1
"Corrected Mean" of all the Lowest, (Col. 6), = 33.9
Difference, or Mean Daily Range, = 11.2
** Calculated Mean Temperature of Month, = 39.5
S-R. THERMOMETER, Black Bulb in Sun, Highest, (corrected for Index Errors), on the 2nd, = 103.9
"Corrected Mean," (Col. 7), of Black Bulb, Max. in Sun, = 86.5
Lowest at Night, Black Bulb (corrected for Index errors), on the 29th, = 13.5
"Corrected Mean," (Col. 8), of Black Bulb, Min. on grass, = 28.9
Difference of above means or range ("exposed"), = 54.6

HYGROMETER, Mean (corrected) A.M. and P.M. Reading of Dry Bulb, (Cols. 9 and 11), = 38.5
Mean (corrected) A.M. and P.M. Reading of Wet Bulb, (Cols. 10 and 12), = 36.7
Computed Temperature of Dew-Point, = 34.2
Do. Elastic Force of Vapour, = 1.98
Do. Weight of Vapour in a Cubic Foot of Air, = 86
Relative Humidity (Saturation = 100), = 86
RAIN fell on 9 Days; Amount in Inches, = 1.93

WIND.		SUMMARY.										
Direction.		N	NE	E	SE	S	SW	W	NW	Calm or Variable.	Mean Force.	Mean Velocity in miles per day
A.M.		6	0	10	1	2	0	10	1	1	0.89	
P.M.		2	5	7	0	0	3	5	5	4	1.09	
Mean.		4	3	8	1	1	1	8	3	2	0.99	

Observations made and Return verified by H. B. Johnston

(Signed)

SCOTTISH METEOROLOGICAL SOCIETY.

Observations taken at Corstorphine House, County of Edinburgh, in Lat. 55°56'31"N, Long. 3°16'46"W, Distance from Sea 2 2/3 miles.Height of Cistern of the Barometer above Mean Sea-Level 165 feet, above Ground 6 feet.During the MONTH of April 1901.

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.		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.		No. of hours in which it fell.	Amount in inches.	9 h. A.M.		9 h. P.M.		Readings of the H. Cup Anemometer.	9 A.M.		9 P.M.		9 h. A.M.				Temperature of Well at depth of feet. No.	Temperature at 1 fathom, and Density.		0—10.		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.	
		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.	Wet bulb.	Dry bulb.	Wet bulb.			Direction.	Force.	Direction.	Force.		Velocity (0—10), and Direction.	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.	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
	1	29.080	47.8	29.556	49.8	47.1	35.0	100.8	30.6	41.8	37.5	35.9	32.9	—	W.	1	W.	1.5	—	—	—	—	—	—	—	—	—	—	—	—	1				
	2	29.614	48.2	29.260	50.0	47.5	30.5	64.8	20.1	39.6	36.2	47.4	44.8	.20	S.W.	1	S.W.	4	—	3.10	—	—	—	—	—	—	—	—	—	—	2				
	3	29.132	48.8	29.282	51.8	51.0	38.8	107.9	40.2	44.4	40.5	39.2	36.0	.02	W.	1.5	S.W.	1.5	—	3.6	—	—	—	—	—	—	—	—	—	—	3				
	4	29.280	48.5	29.776	51.2	49.1	32.5	101.5	27.3	38.4	34.4	36.9	34.8	—	W.	2	W.	1	—	5.8	—	—	—	—	—	—	—	—	—	—	4				
	5	29.920	49.1	29.860	51.4	48.4	31.5	61.9	20.5	41.6	36.8	35.2	32.9	—	N.	.5	—	—	—	—	—	—	—	—	—	—	—	—	—	—	5				
	6	29.542	49.4	29.218	51.5	43.8	27.5	40.5	19.3	38.0	35.4	41.4	40.9	.15	S.	1	—	—	—	5.10	—	—	—	—	—	—	—	—	—	—	6				
	7	29.300	50.9	29.210	53.8	53.6	41.1	116.4	36.9	45.0	45.8	46.3	43.2	.10	W.	.5	E.	.5	—	5.10	—	—	—	—	—	—	—	—	—	—	7				
	8	28.838	52.0	29.032	52.4	48.0	37.8	95.1	34.8	45.5	41.4	42.1	39.5	.31	W.	2.5	W.	1	—	—	—	—	—	—	—	—	—	—	—	—	8				
	9	29.212	50.8	29.282	53.8	53.5	40.3	111.6	33.4	46.8	43.5	41.0	38.9	.05	W.	1	W.	.5	—	5.8	—	—	—	—	—	—	—	—	—	—	9				
	10	29.192	51.4	29.260	51.5	51.1	36.8	97.8	28.6	45.4	42.3	38.1	37.3	.07	W.	.5	—	—	—	5.7	—	—	—	—	—	—	—	—	—	—	10				
	11	29.350	48.9	29.562	52.5	51.6	30.5	113.4	22.1	43.9	39.8	40.5	38.2	.01	W.	.5	N.	.5	—	—	—	—	—	—	—	—	—	—	—	—	11				
	12	29.766	49.9	29.792	52.4	51.1	31.2	115.5	32.4	41.8	37.1	39.4	36.4	.02	N.	1	W.	.5	—	5.6	—	—	—	—	—	—	—	—	—	—	12				
	13	29.440	50.1	29.560	52.4	52.5	34.9	109.2	27.6	40.2	37.9	40.6	38.4	.03	W.	2	W.	.5	—	—	—	—	—	—	—	—	—	—	—	—	13				
	14	29.200	50.0	29.032	52.5	50.8	35.0	103.2	30.7	43.4	41.2	35.2	34.1	.06	S.	1	W.	1	—	—	—	—	—	—	—	—	—	—	—	—	14				
	15	29.014	49.3	29.100	50.2	46.4	34.5	105.4	28.5	40.4	37.3	35.2	34.1	.03	W.	1	N.	.5	—	5.5	—	—	—	—	—	—	—	—	—	—	15				
	16	29.392	49.1	29.790	51.1	50.9	29.4	119.8	20.8	41.3	37.4	36.5	35.4	.04	W.	1	—	—	—	5.8	—	—	—	—	—	—	—	—	—	—	16				
	17	29.964	49.8	29.990	52.8	53.4	32.5	100.2	23.2	48.5	43.0	44.6	40.2	.02	W.	1	W.	.5	—	—	—	—	—	—	—	—	—	—	—	—	17				
	18	29.874	52.1	29.882	53.4	52.8	45.2	81.5	36.6	51.4	48.0	49.0	46.4	—	W.	1	W.	1.5	—	5.8	—	—	—	—	—	—	—	—	—	—	18				
	19	29.864	53.2	29.860	55.6	61.8	41.9	115.6	31.6	52.5	44.0	51.3	44.5	—	—	—	W.	1	—	—	—	—	—	—	—	—	—	—	—	—	19				
	20	29.834	54.6	29.800	58.4	67.9	40.4	116.9	31.8	54.5	48.4	45.4	42.8	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	20				
	21	29.752	53.2	29.710	60.5	67.2	35.0	119.4	28.2	56.4	49.8	51.0	45.8	—	E.	.5	—	—	—	—	—	—	—	—	—	—	—	—	—	—	21				
	22	29.640	58.5	29.686	62.5	70.1	38.2	122.4	31.6	57.6	51.4	54.1	50.4	.04	S.	.5	—	—	—	—	—	—	—	—	—	—	—	—	—	—	22				
	23	29.694	60.0	29.956	59.2	65.9	44.0	125.6	47.4	60.0	53.5	43.9	42.3	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	23				
	24	30.000	56.9	29.950	60.1	59.1	34.9	105.6	29.0	48.4	45.6	49.4	43.8	—	S.	1	E.	1	—	—	—	—	—	—	—	—	—	—	—	—	24				
	25	29.974	57.6	30.014	57.0	57.6	42.1	105.4	33.8	48.1	46.3	43.4	42.1	—	E.	1	E.	1	—	—	—	—	—	—	—	—	—	—	—	—	25				
	26	30.064	55.8	30.000	57.8	55.0	41.0	110.2	33.2	48.4	45.0	41.4	40.1	.03	E.	1	N.E.	1	—	—	—	—	—	—	—	—	—	—	—	—	26				
	27	29.992	56.8	29.976	56.0	49.1	40.2	112.1	30.5	44.6	42.9	42.1	40.4	.05	E.	1	E.	1	—	5.7	—	—	—	—	—	—	—	—	—	—	27				
	28	29.900	55.4	29.878	56.5	47.8	40.1	99.2	38.6	44.4	43.4	44.0	43.4	.15	E.	1	N.E.	1	—	—	—	—	—	—	—	—	—	—	—	—	28				
	29	29.838	55.2	29.776	57.0	55.4	43.2	110.2	42.4	45.2	44.6	45.0	43.3	.07	E.	1	E.	1.5	—	5.8	—	—	—	—	—	—	—	—	—	—	29				
	30	29.800	56.2	29.992	56.5	56.1	43.6	103.6	43.2	48.4	45.4	44.2	43.4	.01	S.W.	.5	N.E.	1.5	—	5.10	—	—	—	—	—	—	—	—	—	—	30				
	31																														31				
Sums.		16.13	17.13	17.14	11.13	15.13	11.12	7.15	12.4	14.14	14.11	12.14		6	4	6																			
Means.		29.582	52.4	29.635	54.4	54.0	37.0	102.6	31.2	46.3	42.3	42.7	40.2			0.92	0.77			5	3.3														
+ Total Corrections for Instrumental Errors.		+ 0.32		+ 0.32																															
+ Corrections for Diurnal Range.																																			
+ "Corrected Means."		29.614		29.667																															
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 $\frac{1}{1000}$ for Temp. (Col. 2), = 29.552
Corrected Mean "of Barometer at 9 P.M., minus the Correction $\frac{1}{1000}$ for Temp. (Col. 4), = 29.600
Mean at Station, corrected, and at 32°, = 29.576
Correction for height, feet above Mean Sea-level, = 1.82
Mean, reduced to 32°, and Sea-level, = 29.758
Highest Reading, corrected for Index error, on the 26th, = 30.096
Lowest Do. Do., on the 8th, = 28.870
Difference, or Monthly Range, = 1.226

S.-R. THERMOMETER, (in shade, etc.), Highest in Month, (corrected for Index Errors), on the 22nd, = 70.1
Lowest in Month, corrected for Index errors, on the 6th, = 27.5
Difference, or Monthly Range, = 42.6
"Corrected Mean" of all the Highest, (Col. 5), = 54.0
"Corrected Mean" of all the Lowest, (Col. 6), = 34.0
Difference, or Mean Daily Range, = 17.0
** Calculated Mean Temperature of Month, = 45.5
S.-R. THERMOMETER, Black Bulb in Sun, Highest, (corrected for Index Errors), on the 23rd, = 125.6
"Corrected Mean," (Col. 7), of Black Bulb, Max. in Sun, = 102.6
Lowest at Night, Black Bulb (corrected for Index errors), on the 6th, = 19.3
"Corrected Mean," (Col. 8), of Black Bulb, Min. on grass, = 31.2
Difference of above means or range ("exposed"), = 71.4

HYGROMETER, Mean (corrected) A.M. and P.M. Reading of Dry Bulb, (Cols. 9 and 11), = 44.5
Mean (corrected) A.M. and P.M. Reading of Wet Bulb, (Cols. 10 and 12), = 41.2
Computed Temperature of Dew-Point, = 37.3
Do. Elastic Force of Vapour, = 1.223
Do. Weight of Vapour in a Cubic Foot of Air, = 75
Relative Humidity (Saturation = 100), = 75
RAIN fell on 20 Days; Amount in Inches, = 1.46

WIND.		SUMMARY.									
Direction.	N	NE	E	SE	S	SW	W	NW	Calm or Variable.	Mean Force.	Mean Velocity in miles per day.
A.M.	2	0	6	0	4	2	13	0	3	0.92	
P.M.	2	3	5	0	0	2	10	0	8	0.77	
Mean.	2	2	5	0	2	2	12	0	5	0.84	= 0.70

Observations made and Return verified by

J. B. Johnston

(Signed)

SCOTTISH METEOROLOGICAL SOCIETY.

Observations taken at Corstorphine House, County of Edinburgh, in Lat. 55° 56' 31" N., Long. 3° 16' 46" W., Distance from Sea 2 2/3 miles.Height of Cistern of the Barometer above Mean Sea-Level 165 feet, above Ground 6 feet.During the MONTH of May 1901.

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.		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.		No. of hours in which it fell.	Amount in inches.	9 h. A.M.		9 h. P.M.		Readings of the H. Cup Anemometer.	9 A.M.		9 P.M.		9 h. A.M.				As to occurrence of Thunder, Lightning, Storms, Hail, Meteors, Remarkable Depression or Elevation of Barometer, Prevalent Diseases, etc.					
		Barometer.	Attached Thermometer.	Barometer.	Attached Thermometer.	Max.	Min.	Max. in Sun's rays.	Min. on Grass.	Dry bulb.	Wet bulb.	Dry bulb.	Wet bulb.			Direction.	Force.	Direction.	Force.		Velocity (0-10), and Direction.	Amount (0-10), and Species.	Velocity (0-10), and Direction.	Amount (0-10), and Species.	No. 3 inches.	No. 12 inches.	No. 22 inches.		Temperature of Wells at depth of feet, No.	Temperature at 1 fathom, and Density.	9 A.M.	9 P.M.	Mention the hour at which Storms, including Thunder and Lightning, began and ended.	
		* No.		No.		No.	No.	No.	No.																									
		inches.	°	inches.	°	°	°	°	°	°	°	°	°			°	°	°	°		°	°	°	°	°	°	°	°	°	°	°	°		°
1	30.132	53.4	30.174	56.3	53.1	40.5	107.3	37.8	41.4	40.5	42.9	42.3	—	E.	1	S.	.5	—	—	—	—	—	—	—	—	—	—	—	—	1				
2	30.212	55.0	30.292	57.0	59.4	39.8	112.9	40.9	48.4	46.8	44.9	43.8	—	S.	.5	E.	.5	—	—	—	—	—	—	—	—	—	—	—	—	2				
3	30.334	55.1	30.330	58.5	64.2	42.9	115.8	37.4	53.3	48.8	43.0	42.6	—	E.	.5	S.	.5	—	—	—	—	—	—	—	—	—	—	—	—	3				
4	30.258	57.4	30.100	60.5	70.9	35.6	123.0	34.0	59.5	51.3	48.4	46.9	—	—	—	E.	1	—	—	—	—	—	—	—	—	—	—	—	—	4				
5	29.850	57.5	29.628	58.5	59.3	37.8	101.3	31.9	51.4	47.9	43.8	42.1	.08	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	5				
6	29.392	53.9	29.172	56.8	53.6	39.6	114.8	37.9	50.2	44.5	42.1	40.1	.23	W.	1	—	—	—	—	—	—	—	—	—	—	—	—	—	—	6				
7	29.074	55.5	29.200	56.7	46.1	40.9	60.0	37.8	44.3	43.6	41.3	41.0	.39	E.	1	E.	.5	—	—	—	—	—	—	—	—	—	—	—	—	7				
8	29.462	54.7	29.340	55.7	54.0	41.2	111.7	39.8	47.9	45.4	45.5	44.7	.07	E.	1	E.	1	—	—	—	—	—	—	—	—	—	—	—	—	8				
9	29.852	55.0	29.978	55.1	46.3	45.5	67.6	42.7	43.8	42.9	44.6	43.5	.14	E.	1	—	—	—	—	—	—	—	—	—	—	—	—	—	—	9				
10	29.914	54.2	29.850	55.9	53.9	45.2	112.8	41.4	47.8	45.0	49.4	44.8	.03	—	—	N.	1	—	—	—	—	—	—	—	—	—	—	—	—	10				
11	30.000	54.3	30.204	57.5	60.8	41.7	122.1	36.8	51.3	45.8	45.0	41.7	.01	W.	1	N.	.5	—	—	—	—	—	—	—	—	—	—	—	—	11				
12	30.296	55.8	30.300	58.5	64.9	36.7	118.7	31.2	54.8	47.6	46.8	45.2	—	N.	.5	—	—	—	—	—	—	—	—	—	—	—	—	—	—	12				
13	30.332	56.9	30.290	58.5	64.5	40.5	110.4	35.1	55.4	51.0	51.8	47.7	—	W.	.5	N.	.5	—	—	—	—	—	—	—	—	—	—	—	—	13				
14	30.320	57.4	30.300	58.5	65.5	36.9	117.3	32.5	55.4	48.9	48.7	45.7	—	E.	.5	E.	.5	—	—	—	—	—	—	—	—	—	—	—	—	14				
15	30.344	57.8	30.270	57.9	57.4	38.7	111.2	33.9	53.0	48.9	46.2	43.5	—	E.	1	E.	1	—	—	—	—	—	—	—	—	—	—	—	—	15				
16	30.180	56.2	30.108	58.5	64.8	35.2	115.1	35.7	51.8	51.4	49.8	45.0	—	E.	.5	E.	1	—	—	—	—	—	—	—	—	—	—	—	—	16				
17	30.132	57.5	30.104	59.0	56.4	44.1	112.2	38.2	48.5	46.4	44.8	43.6	—	E.	1	—	—	—	—	—	—	—	—	—	—	—	—	—	—	17				
18	30.038	55.8	30.020	59.5	63.1	37.2	120.2	33.9	50.0	46.9	48.9	46.1	—	E.	.5	N.W.	1	—	—	—	—	—	—	—	—	—	—	—	—	18				
19	30.018	58.7	30.104	59.0	65.8	48.5	128.3	46.4	55.0	50.9	50.0	47.6	—	W.	.5	—	—	—	—	—	—	—	—	—	—	—	—	—	—	19				
20	30.144	57.3	30.200	60.8	68.1	40.9	120.6	37.5	58.7	51.9	57.3	49.4	—	N.	.5	—	—	—	—	—	—	—	—	—	—	—	—	—	—	20				
21	30.264	59.5	30.280	60.1	68.5	44.5	113.3	38.9	62.3	54.8	50.9	48.7	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	21				
22	30.370	59.9	30.436	59.0	67.3	40.9	115.5	37.8	55.1	49.5	49.0	42.8	—	N.E.	1	E.	.5	—	—	—	—	—	—	—	—	—	—	—	—	22				
23	30.470	58.5	30.444	61.5	62.6	37.2	119.1	33.1	54.0	49.7	41.0	40.4	—	E.	1	—	—	—	—	—	—	—	—	—	—	—	—	—	—	23				
24	30.388	59.9	30.350	58.5	67.2	40.0	118.2	32.3	61.7	51.1	46.4	45.6	—	E.	.5	E.	2	—	—	—	—	—	—	—	—	—	—	—	—	24				
25	30.264	57.3	30.158	55.8	53.8	44.2	102.5	44.5	47.5	40.1	47.7	45.4	.02	E.	1	E.	1.5	—	—	—	—	—	—	—	—	—	—	—	—	25				
26	30.050	56.4	29.910	57.0	50.5	44.8	80.8	48.4	46.2	40.2	47.0	46.6	.32	E.	1.5	E.	1.5	—	—	—	—	—	—	—	—	—	—	—	—	26				
27	29.782	55.9	29.738	56.8	48.6	45.9	59.2	44.7	47.1	45.8	47.8	47.1	.25	E.	1	E.	.5	—	—	—	—	—	—	—	—	—	—	—	—	27				
28	29.700	56.5	29.736	58.2	63.2	45.1	113.1	44.3	56.1	50.1	50.9	49.2	.02	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	28				
29	29.700	57.8	29.632	60.5	64.2	42.9	112.7	35.6	60.7	54.5	56.8	53.7	.26	W.	.5	E.	.5	—	—	—	—	—	—	—	—	—	—	—	—	29				
30	29.478	58.9	29.244	62.0	67.8	50.8	124.9	48.8	63.7	52.8	54.2	51.3	.06	E.	.5	S.E.	.5	—	—	—	—	—	—	—	—	—	—	—	—	30				
31	29.290	60.8	29.400	60.5	63.1	51.5	123.6	45.4	58.3	52.6	53.1	48.7	—	W.	2	W.	1.5	—	—	—	—	—	—	—	—	—	—	—	—	31				
Sums.		1159	2016	1108	1813	1514	1317	6134	1617	1413	1318	1515	1415	5	6	7	6	7	—	—	—	—	—	—	—	—	—	—	—	—				
Means.		30.040	56.8	30.032	58.6	60.9	41.5	70.3	33.9	50.6	46.6	47.5	45.8	2.08	21.5	18.0	—	—	—	—	—	—	—	—	—	—	—	—	—	—				
+ Total Corrections for Instru- mental Errors.		30.001	56.8	29.988	58.3	60.3	41.8	109.4	38.6	52.4	48.0	47.6	45.4	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—				
+ Corrections for Diurnal Range.		—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—				
"Cor- rected Means."		30.033	56.8	29.988	58.3	60.3	41.8	109.4	38.6	52.4	48.0	47.6	45.4	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—				
No. of Column.		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30			

BAROMETER, "corrected Mean" at 9 A.M., minus the Correction $\frac{1}{1000}$ for Temp. (Col. 2), = 29.959
"Corrected Mean" of Barometer at 9 P.M., minus the Correction $\frac{1}{1000}$ for Temp. (Col. 4), = 29.941
Mean at Station, corrected, and at 32°, = 29.950
Correction for height, feet above Mean Sea-level, = 182
Mean, reduced to 32°, and Sea-level, = 30.132
Highest Reading, corrected for Index error, on the 23rd, = 30.503
Lowest Do. Do., on the 7th, = 29.108
Difference, or Monthly Range, = 1.395

S-R. THERMOMETER, (in shade, etc.), Highest in Month, (corrected for Index Errors), on the 4th, = 70.7
Lowest in Month, corrected for Index errors, on the 16th, = 35.2
Difference, or Monthly Range, = 35.5
"Corrected Mean" of all the Highest, (Col. 5), = 60.3
"Corrected Mean" of all the Lowest, (Col. 6), = 41.8
Difference, or Mean Daily Range, = 18.5
** Calculated Mean Temperature of Month, = 51.0
S-R. THERMOMETER, Black Bulb in Sun, Highest, (corrected for Index Errors), on the 19th, = 128.3
"Corrected Mean," (Col. 7), of Black Bulb, Max. in Sun, = 109.4
Lowest at Night, Black Bulb (corrected for Index errors), on the 12th, = 31.2
"Corrected Mean," (Col. 8), of Black Bulb, Min. on grass, = 38.6
Difference of above means or range ("exposed"), = 70.8

HYGROMETER, Mean (corrected) A.M. and P.M. Reading of Dry Bulb, (Cols. 9 and 11), = 50.0
Mean (corrected) A.M. and P.M. Reading of Wet Bulb, (Cols. 10 and 12), = 46.7
** Computed Temperature of Dew-Point, = 43.2
** Do. Elastic Force of Vapour, = 2.80
** Do. Weight of Vapour in a Cubic Foot of Air, = —
** Relative Humidity (Saturation = 100), = 78
RAIN fell on 13 Days; Amount in Inches, = 2.08

WIND.		SUMMARY.									
Direction.		N	NE	E	SE	S	SW	W	NW	Calm or Variable.	Mean Force.
A.M.		2	1	16	0	1	0	6	0	5	0.69
P.M.		3	0	13	1	2	0	1	1	10	0.58
Mean.		3	0	15	0	2	0	3	1	7	0.63

Observations made and
Return verified by M. N. Johnston.

(Signed)

SCOTTISH METEOROLOGICAL SOCIETY.

Observations taken at Corstorphine House, County of Edinburgh, in Lat. $55^{\circ}56'31''N$, Long. $3^{\circ}16'46''W$, Distance from Sea $2\frac{2}{3}$ miles.Height of Cistern of the Barometer above Mean Sea-Level 165 feet, above Ground 6 feet.During the MONTH of June, 1901.

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.												
		Barometer.	Attached Thermometer.	Barometer.	Attached Thermometer.	Max.	Min.	Max. in Sun.	Min. on Grass.	Dry bulb.	Wet bulb.	Dry bulb.	Wet bulb.		Direction.	Force.	Direction.	Force.	Velocity (0-6) and Species.	Amount (0-10), and Species.	Velocity (0-6) and Species.	Amount (0-10), and Species.	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.
		inches.	°	inches.	°	°	°	°	°	°	°	°	°																		
	1	29.470	60.8	29.480	61.0	63.8	52.9	128.1	46.9	59.8	53.5	54.9	50.8	—	W.	1.5	S.W.	2	—	—	—	—	—	—	—	—	—	—	—	1	
	2	29.450	61.5	29.670	60.0	63.2	51.8	126.7	48.4	58.0	52.3	51.8	49.0	.12	W.	1	—	—	—	—	—	—	—	—	—	—	—	—	—	2	
	3	29.832	60.8	29.900	61.5	63.4	46.8	116.9	38.7	58.9	53.5	49.5	47.6	.02	W.	.5	W.	.5	—	—	—	—	—	—	—	—	—	—	—	3	
	4	29.850	61.7	29.728	62.0	62.1	48.8	123.8	43.5	54.8	53.7	54.0	51.1	.01	W.	1	S.W.	2	—	—	—	—	—	—	—	—	—	—	—	4	
	5	29.850	60.8	29.984	61.0	61.4	46.6	120.8	40.6	57.0	52.3	51.8	48.2	—	W.	1	W.	1	—	—	—	—	—	—	—	—	—	—	—	5	
	6	30.136	60.2	30.244	62.5	64.7	45.2	126.8	36.4	55.1	48.0	49.0	46.5	—	N.	.5	—	—	—	—	—	—	—	—	—	—	—	—	—	6	
	7	30.212	60.9	30.146	62.5	77.9	43.1	122.6	33.8	59.6	51.5	56.9	52.9	—	W.	1	—	—	—	—	—	—	—	—	—	—	—	—	—	7	
	8	30.050	63.5	29.870	63.5	76.1	44.1	116.9	37.8	66.5	58.9	56.5	52.7	—	W.	.5	—	—	—	—	—	—	—	—	—	—	—	—	—	8	
	9	29.712	63.2	29.696	61.5	62.1	45.1	106.8	39.0	59.2	54.0	47.6	43.7	—	W.	1	W.	1	—	—	—	—	—	—	—	—	—	—	—	9	
	10	29.736	59.7	29.546	59.0	58.1	40.1	116.2	31.0	52.3	46.7	47.2	43.8	.09	W.	1.5	W.	2	—	—	—	—	—	—	—	—	—	—	—	10	
	11	29.582	58.7	29.676	58.8	56.9	40.0	117.1	35.7	50.4	44.5	43.8	40.0	.02	W.	2.5	S.W.	2	—	—	—	—	—	—	—	—	—	—	—	11	
	12	29.600	58.0	29.400	59.2	56.8	40.5	123.9	34.0	53.2	46.6	44.0	41.7	.16	W.	1.5	N.W.	1.5	—	—	—	—	—	—	—	—	—	—	—	12	
	13	29.200	57.9	29.434	60.2	60.6	41.8	130.8	39.6	47.8	45.2	47.7	45.3	.08	S.	1	E.	1	—	—	—	—	—	—	—	—	—	—	—	13	
	14	29.642	59.4	29.858	61.0	57.3	40.5	110.2	34.7	51.6	47.5	48.0	45.4	.02	E.	1	—	—	—	—	—	—	—	—	—	—	—	—	—	14	
	15	29.862	60.0	29.850	61.5	63.8	44.3	114.0	39.1	59.4	51.1	46.0	44.0	—	W.	1	W.	.5	—	—	—	—	—	—	—	—	—	—	—	15	
	16	29.832	61.0	29.910	60.5	60.4	44.1	129.2	37.2	54.0	47.6	50.2	46.2	.09	W.	.5	N.W.	.5	—	—	—	—	—	—	—	—	—	—	—	16	
	17	29.850	59.2	29.950	60.0	57.3	40.5	123.8	35.1	52.0	44.4	44.1	41.8	.03	W.	1.5	N.W.	1	—	—	—	—	—	—	—	—	—	—	—	17	
	18	30.038	60.2	30.026	60.5	63.4	38.8	121.3	30.8	56.6	47.5	47.8	45.7	—	N.W.	.5	—	—	—	—	—	—	—	—	—	—	—	—	—	18	
	19	29.934	60.0	29.810	60.1	59.1	37.2	96.6	32.2	58.4	49.0	58.7	50.2	.40	W.	1	W.	1	—	—	—	—	—	—	—	—	—	—	—	19	
	20	29.800	59.9	29.708	62.0	62.3	51.9	105.8	49.7	59.8	55.2	57.4	54.9	.17	W.	1	W.	1	—	—	—	—	—	—	—	—	—	—	—	20	
	21	29.722	60.5	29.802	62.8	66.8	54.2	131.6	51.9	60.2	54.3	54.5	50.7	.02	W.	1	W.	1	—	—	—	—	—	—	—	—	—	—	—	21	
	22	29.750	62.3	29.834	63.8	66.2	50.2	129.3	42.6	61.8	54.7	54.0	52.3	.65	W.	1	E.	1	—	—	—	—	—	—	—	—	—	—	—	22	
	23	29.350	62.5	29.572	62.0	60.3	52.4	99.6	52.2	56.5	54.8	52.9	50.0	.43	E.	.5	N.W.	2.5	—	—	—	—	—	—	—	—	—	—	—	23	
	24	29.900	61.1	30.192	62.5	63.8	47.4	127.1	43.7	59.0	54.5	47.1	45.8	.04	W.	1	W.	.5	—	—	—	—	—	—	—	—	—	—	—	24	
	25	30.292	61.3	30.304	61.0	59.5	43.9	102.8	34.7	53.6	49.8	54.0	50.5	—	W.	.5	—	—	—	—	—	—	—	—	—	—	—	—	—	25	
	26	30.220	62.4	30.232	63.5	66.8	50.0	124.5	44.5	60.0	54.5	49.9	48.6	—	N.	.5	—	—	—	—	—	—	—	—	—	—	—	—	—	26	
	27	30.176	61.5	30.130	63.2	66.6	48.9	128.2	36.1	59.9	54.8	51.1	49.3	—	W.	.5	—	—	—	—	—	—	—	—	—	—	—	—	—	27	
	28	30.100	62.7	30.152	63.0	66.1	45.1	118.3	38.9	62.0	55.1	53.8	50.9	—	—	—	N.E.	1	—	—	—	—	—	—	—	—	—	—	—	28	
	29	30.150	62.4	30.172	61.8	62.8	50.1	116.4	44.8	58.4	53.9	53.2	50.6	—	E.	1	E.	.5	—	—	—	—	—	—	—	—	—	—	—	29	
	30	30.140	61.5	30.030	62.2	60.6	49.4	122.6	42.5	57.0	51.3	53.8	51.1	—	S.E.	1	S.E.	1.5	—	—	—	—	—	—	—	—	—	—	—	30	
	31																													31	
Sums.		1511.4	913	1615.8	791	1314	1112	715.75	1575	1812	1513	1613	1114	61	7	4															
Means.		29.498	2.56	26.106	4.61	83.6172	35.787	29.61	22.07	40.2	31.2	24.13	2.35	28.0	25.0																
+ Total Corrections for Instru- mental Errors.		29.849	60.8	29.870	61.5	62.8	45.8	119.3	39.9	57.4	41.3	51.0	48.0		0.93	0.83															
+ Corre- ctions for Diurnal Range.																															
+ "Cor- rected Means."		29.881		29.902																											
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.	ma.	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.	confirmed 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.	hall.	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 $\frac{1}{1000}$ for Temp. (Col. 2), = 29.797
"Corrected Mean" of Barometer at 9 P.M., minus the Correction $\frac{1}{1000}$ for Temp. (Col. 4), = 29.815
Mean at Station, corrected, and at 32°, = 29.806
Correction for height, feet above Mean Sea-Level, = 180
Mean, reduced to 32°, and Sea-level, = 29.986
Highest Reading, corrected for Index error, on the 25th, = 30.336
Lowest Do. Do., on the 13th, = 29.232
Difference, or Monthly Range, = 1.104

S-R. THERMOMETER, (in shade, etc.), Highest in Month, (corrected for Index Errors), on the 7th, = 77.9
Lowest in Month, corrected for Index errors, on the 19th, = 37.2
Difference, or Monthly Range, = 40.7
"Corrected Mean" of all the Highest, (Col. 5), = 62.8
"Corrected Mean" of all the Lowest, (Col. 6), = 45.8
Difference, or Mean Daily Range, = 17.0
** Calculated Mean Temperature of Month, = 54.3
S-R. THERMOMETER, Black Bulb in Sun, Highest, (corrected for Index Errors), on the 21st, = 131.6
"Corrected Mean," (Col. 7), of Black Bulb, Max. in Sun, = 119.3
Lowest at Night, Black Bulb (corrected for Index errors), on the 18th, = 30.8
"Corrected Mean," (Col. 8), of Black Bulb, Min. on grass, = 39.9
Difference of above means or range ("exposed"), = 79.4

SCOTTISH METEOROLOGICAL SOCIETY.

Observations taken at Constopline House, County of Edinburgh, in Lat. 55° 36' 31" N, Long. 3° 16' 46" W, Distance from Sea 2 3/4 miles.Height of Cistern of the Barometer above Mean Sea-Level 165 feet, above Ground 6 feet.During the MONTH of July 1901.

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.				SUNSHINE. Hours.	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.		9 P.M.		9 h. A.M.																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																						
		Barometer.	Attached Thermometer.	Barometer.	Attached Thermometer.	Max. No.	Min. No.	Max. in Sun's rays.	Min. on Grass.	Dry bulb.	Wet bulb.	Dry bulb.	Wet bulb.		Direction.	Force.	Direction.	Force.	Velocity (0-10), and Species.	Amount (0-10), and Species.	Velocity (0-10), and Species.	Amount (0-10), and Species.	No. 3 inches.	No. 15 inches.	No. 22 inches.																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																				
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BAROMETER, "corrected Mean" at 9 A.M., minus the Correction \ddagger = 29.834
for Temp. (Col. 2), = 29.831 9.7
"Corrected Mean" of Barometer at 9 P.M., minus the Correction \ddagger = 29.848
for Temp. (Col. 4), = 29.846 1.2
Mean at Station, corrected, and at 32°, = 29.841
Correction for height, feet above Mean Sea-level, = 179
Mean, reduced to 32°, and Sea-level, = 30.020
Highest Reading, corrected for Index error, on the 31st, = 30.204
Lowest Do. Do., on the 24th, = 29.592
Difference, or Monthly Range, = 0.612

S.R. THERMOMETER, (in shade, etc.), Highest in Month, (corrected for Index Errors), on the 18th, = 79.9
Lowest in Month, corrected for Index errors, on the 4th, = 43.4
Difference, or Monthly Range, = 36.5
"Corrected Mean" of all the Highest, (Col. 5), = 69.7
"Corrected Mean" of all the Lowest, (Col. 6), = 53.9
Difference, or Mean Daily Range, = 15.8
** Calculated Mean Temperature of Month, = 61.8
S.R. THERMOMETER, Black Bulb in Sun, Highest, (corrected for Index Errors), on the 11th, = 137.6
"Corrected Mean," (Col. 7), of Black Bulb, Max. in Sun, = 117.7
Lowest at Night, Black Bulb (corrected for Index errors), on the 16th, = 37.8
"Corrected Mean," (Col. 8), of Black Bulb, Min. on grass, = 49.5
Difference of above means or range ("exposed"), = 68.2

HYGROMETER, Mean (corrected) A.M. and P.M. Reading of Dry Bulb, (Cols. 9 and 11), = 60.8
Mean (corrected) A.M. and P.M. Reading of Wet Bulb, (Cols. 10 and 12), = 57.4
Computed Temperature of Dew-Point, = 54.4
Do. Elastic Force of Vapour, = 4.25
Do. Weight of Vapour in a Cubic Foot of Air, = 79
Relative Humidity (Saturation = 100), = 79
RAIN fell on 13 Days; Amount in Inches, = .88

WIND.												SUMMARY.			
Direction.	N	NE	E	SE	S	SW	W	NW	Calm or Variable.	Mean Force.	Mean Velocity in miles per day				

The Hours of Observation are of Greenwich Time.

* 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.

† Embracing corrections for left capillary and Index Errors.

‡ The Diurnal Range for Scotland is as yet unknown.

§ Practically, though not absolutely a minus correction.

|| These "Hygrometric Deductions" are calculated from Glaisher's Hygrometric Tables, Second Edition only.

¶ We the "Diurnal Range" is unknown, the Artificial Method of M. de Saussure 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.

(Signed) _____

SCOTTISH METEOROLOGICAL SOCIETY.

Observations taken at Corstorphine House, County of Mid-Lothian, in Lat. 55°56'31" N, Long. 3°16'46" W, Distance from Sea 2 $\frac{2}{3}$ miles.Height of Cistern of the Barometer above Mean Sea-Level 165 feet, above Ground 6 feet.During the MONTH of September 1901.

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		9 h. A.M.		9 h. P.M.		No. of hours in which it fell.	Amount in inches.	9 h. A.M.		9 h. P.M.		9 A.M.		P.M.		9 h. A.M.		Temperature of WELL at depth of feet, 20.	Temperature at 1 fathom, and Density.					0-10.																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																			
		Barometer. No.	Attached Thermometer.	Barometer. No.	Attached Thermometer.	Max. No.	Min. No.	Max. in Shade.	Min. on Grass.	Dry bulb.	Wet bulb.	Dry bulb.	Wet bulb.			Direction.	Force.	Direction.	Force.	Readings of the H. Cup Anemometer. No.	9 h. A.M.	Velocity (0-6) and Species.	Amount (0-10), and Species.	Velocity (0-6) and Direction.	Amount (0-10), and Species.							No. 3 inches.	No. 12 inches.	No. 22 inches.	9 A.M.	9 P.M.																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																															
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NOTATION USED IN GENERAL REMARKS.			
a.	denotes aurora.	m.	denotes meteor.
ci.	" cirrus.	ms.	" meteors.
ci-cu.	" cirro-cumulus.	n.	" nimbus.
cu.	" cumulus.	r.	" rain.
cu-s.	" cumulo-stratus.	h. r.	" heavy rain.
d.	" dew.	c. h. r.	" continued heavy rain.
f.	" fog.	s.	" stratus.
fr.	" frost.	sc.	" squall.
h. fr.	" hoar-frost.	s.	" sleet.
h.	" haze.	so.	" snow.
h. d.	" heavy dew.	so. ha.	" solar halo.
hl.	" hail.	sq.	" squall.
l.	" lightning.	sq.	" squall.
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 \ddagger = 29.698
for Temp. (Col. 2), = 29.783.....0.085
"Corrected Mean" of Barometer at 9 P.M., minus the Correction \ddagger = 29.702
for Temp. (Col. 4), = 29.794.....0.092
Mean at Station, corrected, and at 32°, = 29.700
Correction for height, feet above Mean Sea-level, = 160
Mean, reduced to 32°, and Sea-level, = 29.840
Highest Reading, corrected for Index error, on the 3rd th, = 30.182
Lowest Do. Do., on the 20th th, = 29.082
Difference, or Monthly Range, = 1.100

S.-R. THERMOMETER, (in shade, etc.), Highest in Month, (corrected for Index Errors), on the 28th th, = 69.5
Lowest in Month, corrected for Index errors, on the 5th th, = 39.6
Difference, or Monthly Range, = 29.9
"Corrected Mean" of all the Highest, (Col. 5), = 62.6
"Corrected Mean" of all the Lowest, (Col. 6), = 48.6
Difference, or Mean Daily Range, = 14.0
** Calculated Mean Temperature of Month, = 55.6
S.-R. THERMOMETER, Black Bulb in Sun, Highest, (corrected for Index Errors), on the 27th th, = 123.7
"Corrected Mean," (Col. 7), of Black Bulb, Max. in Sun, = 104.0
Lowest at Night, Black Bulb (corrected for Index errors), on the 5th th, = 29.8
"Corrected Mean," (Col. 8), of Black Bulb, Min. on grass, = 44.2
Difference of above means or range ("exposed"), = 59.8

HYG

WITH REMARKS ON THE USE OF INSTRUMENTS.

The Council of the Society and the Self-Registering Thermometers, and the Dry and Wet Hygrometers, be kept in Stevenson's Louver-boarded box for Thermometers, painted white inside and outside, and screwed to four corner posts, also painted white, firmly secured in the ground. The posts must be of such a length that when the Thermometers are hung in position the Bulbs of the Minimum Thermometers are hung in position the Bulbs of the Minimum Thermometer, and of the Dry and Wet Bulb Thermometers, will be exactly at the same height of four feet above the ground, the Maximum Thermometer being hung immediately above the Minimum thermometer. The Thermometer Box is to be placed over a plot of grass, and in a free open space to which the sun's rays have free access, and as much of the day as surrounding conditions enable the Observer to secure. The Thermometers are suspended on cross-laths in the centre of the Box, and face the door, which should open to the north. The Council regard the question of UNIFORMITY OF HEIGHT, OF THE GROUND, AND METHOD IN PROTECTING THE THERMOMETERS, as of the highest importance, and have therefore arranged that the official in every system of Meteorological Observations since with-

It is observations made at different Stations are incompatible with each other, and it is therefore impossible to compare the climates of places with each other as regards their most important features.

Professor Phillips and Negretti and Zambra's Maximum Thermometers, and Registrars, and Rutherford's Minimum Thermometer, are recommended. It is recommended that their Thermometers be graduated on the glass stem. The minimum Thermometer is liable to two derangements—viz., the action of spirit breaking, and part of the spirit distilling by high temperature and leaving at the top of the tube. This derangement is of occasional occurrence with plated thermometers, but of frequent occurrence with uncoated ones. Hence the use of the latter kind of minimum Thermometers ought to be abandoned.

For the purpose of the work carried on by each Observer. Fortunately, Spirit Thermometers may be easily set right by the use of the column of spirit, which is liable to be deranged in one, when the column of spirit, chances to separate. Let the thermometer be taken in the hand by the end farthest from the bulb, raised above the head, and then forcibly swung down towards the feet; the object being, on the principle of centrifugal force, to drive down the detached portion of spirit till it unites with the main column. A few throws, or swinging strokes, will generally be sufficient.

is sufficient for the purpose; after which the Thermometer should be placed in a slanting position, to allow the rest of the spirit still adhering to the sides of the tube to drain down to the column. But another method must be adopted, if the portion of spirit in the top of the tube be small. Heat should be applied slowly and cautiously to the top end of the tube where the detached portion of spirit is, being turned into vapour by the heat, will condense on the surface of the unbroken column of spirit. Care must be taken that the heat is not applied too quickly; for, if this be done, the tube—be it what it may—will be destroyed. The best way to apply the requisite amount of heat is by bringing the end-of the tube slowly down towards a muffle filled with a gas-burner; or, if gas be at hand, a piece of heated metal will serve instead.

The bulbs of the Thermometers for registering the greatest heat from the sun's rays, and the least from radiation

Black-Bulb Thermometer. The bulb of the thermometer, during night, have a black coating, with may easily be made, or be mended, by the application of a mixture of lampblack and printer's ink. They are placed in shallow wooden or corked boxes, whose sides protect the bulbs from the wind, and the thermometer bulb of the Maximum should be freely exposed to the sun, and the Minimum should rest on wooden supports a few inches from the surface of the grass, in an open situation. Snow must not be allowed to fall over these Thermometers; nor the sun's heat to affect either of these Thermometers by distillation. Black-bulbs enclosed in glass jackets may also be used, being indeed preferable to the glass jackets.

The Hygrometer in use at the Society's Stations consists of two Thermometers usually, but not necessarily, mounted on one frame. As apparently slight deviations from the approved form of this apparatus seriously vitiate Hygrometrical Observations, Observers are specially requested to attend to the following conditions:—The bulbs must hang down at least an inch free from the scales and frame to which they are attached, but must be within the frame to the tubes they are

ached; the frame must be such as will bring the tubes toward each other, so that they may be suspended at the vertical distance of about two feet from one another. The interior of the frame must be covered, and all flanges placed so close together that no air can pass under the bulbs; the necks of the bottles must be drawn off, and fastened at the neck of the bottle by means of a cord, which also supplies it with water. It must be taken care that the muslin is always clean and moist, and that the water is pure. In frosty weather, observation is a matter of great delicacy, and must be made with great care. The bulb must be moistened by immersion from 15 to 30 minutes before the hour of observation. From the film of ice thus formed evaporation will proceed as from the moist cloth in ordinary circumstances.

In reading the Thermometer great care must be taken to bring

the eye exactly opposite the tip of the index thermometer. The reading ought to be taken to tenths of a degree, and noted in decimals. Thus a thermometer will be read— $39^{\circ} \cdot 9$, $40^{\circ} \cdot 0$, or $40^{\circ} \cdot 1$; or again, $44^{\circ} \cdot 4$, $40^{\circ} \cdot 5$, $40^{\circ} \cdot 6$, according as it indicates a little under, an exact coincidence with, or a little over 40° or $40^{\circ} \cdot 5$ respectively. So also $40^{\circ} \cdot 7$ and $40^{\circ} \cdot 8$ more or less must be registered $40^{\circ} \cdot 2$, or $40^{\circ} \cdot 3$, and $40^{\circ} \cdot 7$, or $40^{\circ} \cdot 8$ respectively. In reading Rutherford's Minimum thermometer, the indication of time and of the index which is next to the surface of the spirit is also noted. On opening the Thermometer Box, the Dry and Wet Bulb Thermometers are to be first, rapidly read, inasmuch as they are readily affected by heat in the person of the Observer.

The Hygrometer is read at 9 a.m. and 9 p.m. The Self-Registered hygrometer Thermometers are read at 9 p.m. only, as the tracing of observing fluctuating the greatest and least degrees of temperature and of the relative humidity of the atmosphere. It is not a matter of course in the 24 hours preceding.

difference when the Self-Registering Thermometers are read, since the thermometer is not exposed to the atmosphere in the winter at least, the Self-extremes may occur at any hour; and it is necessary to refer their occurrence to their proper meteorological day. In the Society's schedules, the indications registered on the thermometer are those of a series of phenomena commencing at 9 a.m. on the day, and extending till 9 p.m. on the 3d.

No instrument ought to be used for Meteorological purposes till it has been carefully tested by comparison with a standard Thermometer. When such Thermometers, as are not graduated on the stem, but merely on an attached scale, undergo repairs, they are very liable to be moved from their position on the Scale, and ought never afterwards to be used without being re-tested. The Self-Registering, especially the minimum Thermometers, ought frequently to be compared with a dry bulb of the Hygrometer. The freezing-point of each thermometer, marked by a scratch on the tube, ought to be tested once a year, in snow or melting ice.

In selecting instruments, the following points require attention:—The divisions of the verner of Barometers in reference to the scales, and the perfect freedom of the Barometer from air; the

correct numbering of the scale of every instrument, the rejection of Thermometers the Frameworks of which are not likely to stand exposure to the weather, as shown in the past by repeated and annoying breakages. Thermometers of similar construction; and as regards Maximum Thermometers, either Negretti and Zamboni's, or Phillips's, whether they will act as the highest temperatures may be required to register. By the laws of the Society, Members and Observers have a right to have their instruments compared by the Secretaries, and to advise with him regarding the purchase of instruments. Very great care should be bestowed on the Observations of the Wind.

Wind. The accuracy of which, both as regards Direction and Force, is so essential towards the right discussion of many of the more important problems of the science.

A Wind-Vane ought to be elevated at least 12 feet above surrounding objects. When it oscillates incessantly the prevailing direction should be taken. In all cases, but especially when the Vane is stationary, and when the wind is feeble, reference may be made to the direction smoke, etc.,

in well-exposed situations. Careful observations are recommended to be made on the changes in the direction of the wind; and during the day, the force of the wind may be estimated by the velocity of the system, extra observations at every hour of Greenwich time. Such a system, of simultaneous observation, pursued at different Stations, is likely to give highly valuable and important results, particularly in connection with the system of thinly-pleated Stations over the limited district round Edinburgh called *Sirocco Stations*, in the course of being established by the Society for the systematic investigation of the relation of the force of the wind to *Barometric* *Temperatures*, and other points connected with storms. The Council have also resolved to give the assistance which shows the necessity of such observations, to the Society for the purpose of ascertaining the amount of Wind that passes in any day; from which they will also be able to ascertain the mean *Velocity* of the Wind at the time of observation may be ascertained. For indicating the Force of the Wind at any particular hour of observation, the Pressure of the Air may be used, and the *Barometer* may be used as a *Barometer*. Anemometers recently brought under the notice of the Society by Mr. Stevenson, the *Horology Secretary*, and Mr. R. Ballingall, the *Secretary*, at Falkburg, are recommended as likely to secure uniformity in making observations on the Force of the Wind. Many causes conspire to produce anomalies in the Returns,

rain gauges arising partly from the difficulty of obtaining perfectly unobstructable situation for observation, and partly from the defective nature of the instruments used. The Rain Gauge should not be placed on a slope or terrace, but on a level piece of ground, in as open a situation as the Observer can secure for it. As it is often difficult to obtain a position free and unobstructed by surrounding objects as is desirable, gauges should be taken to place it at some distance from shrubs, trees, buildings, or other obstructions, at least as many feet from their base as they are in height. The more important directions, however, towards which it is most desirable to have a free exposure, are, in the order of their importance, S.W., N.E., S.E., and W. The bottom of the gauge must be perfectly level and fixed so that it will remain level in all weathers, and be at a height of one foot above ground level in such gauges. In others, gauges which are furnished above ground, over grass, in which gauges Fleming's, which furnished

With a measuring rod attached to a float, the rod ought to be fixed down, and the float rise to its height only at the time the instrument is read; it being found that a stem projecting above the rim of the measuring glass seriously interferes with the proper measurement of the Rain-fall. When a measuring-glass is used, care should be taken to hold it quite perpendicular. The Rain Gauge ought to be read daily at 9 A.M., and the reading entered in the Returns of the previous day. If the Gauge is read once a month, the reading is to be made on the first of the month, and the amount entered for the previous month. Snow-falls may, for convenience, be registered in their own columns.

under the following conditions:—When a snowfall or shower occurs, it should be noted in the 'Remarks' and the letter S affixed to the depth of water received in Gauge. The depth of the snow must be measured in some open place where the wind has not drifted it, and as a check on the drift, the indications of the Rain Gauge. For wind, rain, and snow, the Observer cannot be too careful to register observations only; and nothing that partakes of the nature of deduction or inference.

Convenient abbreviations for the nomenclature of Clouds will be found on the other side. The amount of Cloud ought to be estimated from the greater or less observation of clouds.

to be examined from its greater or less observation of the sky overhead at the time of sunset. The sun rises at 6.00 a.m. on the zenith, and sets at 6.30 p.m. on the nadir; thus it is seen to rise and set at right angles to the horizon. The clouds are observed to be blown by the wind from the eastward towards the westward, being made to judge of their amount, weight, and take, according to the appearance of the clouds as they pass over them into account in the Clouds' column, though their appearance and changes may be noted among the Remarks. The amount of a Cloud is entered from a scale of 0 to 10; thus, when the sky overhead is free from Clouds it is entered 0, when half-covered by Clouds it is entered 5, and when wholly covered 10, and so on.

Observations of the Clouds are made at 9 A.M. and at sunset, as far as practicable, and also at other times during the day. In illustrating the condition and currents of the upper and lower regions of the atmosphere, the entries in the schedule are to be made in the following manner:—Thus in the column Velocity

3. S. W. will indicate that the upper strata of Clouds travel with
extreme velocity from S.W., and these in the lower regions from
W., with one-third the speed of the former. Again, in the second
Cloud column, an entry of $\frac{4}{4}$ st. will indicate that the higher
regions are covered to the amount of 4-tenths with stratus Clouds ;
and that the sky is further obscured to the extent of 2-tenths by
lower Clouds of the cumulo stratus kind.

Remarks on peculiar Clouds, accompanied with drawings, will
assist materially in the development of a more exact nomenclature
of Clouds, as well as throw light on the electrical, and other of the
more obscure phenomena of Meteorology.

The approximate number of Hours in which objects in the sun's
rays cast shadows, should be entered in the proper
sunshine.

As the germination and growth of crops and plants generally depend greatly on the temperature of the soil,—this underground temperature being the most important of the three—amount and consistency,—the Council recommend that Thermometers.

Observations in this interesting department be made at 9 A.M. by Thermometers permanently fixed in the soil, the bulbs being sunk to depths of 3, 12, and 22 inches, and the stems protected from the sun's rays, and filled with sloping water in glass collars, or wooden frames.

A knowledge of the Temperature of the Sea is not only in itself, but in its relations to that of our island, a most important branch of Meteorology. The Council therefore recommend that the Temperature of the Sea be permanently taken by a properly constructed apparatus, from boats, or from the coast, where it is impracticable, from the ends of piers and rocks round the coast, where it is not influenced by that of river water, and as little as possible by the influence of currents sweeping along the coast, and thus acquiring the temperature of the land, either greatly heated by the sun or cooled by nocturnal radiation. At or near the time of high

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 and greater depths, noting always the Temperature of the Air, and the Hour of Observation. It is also very desirable that observations on the Maximum Maxima and Minima by Thermometers continuously immersed, be instituted at points along the coast, by the method proposed by Mr. F. Stevenson, and already commenced at Peterhead and Liverpool. 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. Mention what Tides-Papers are used, Schönerich's or Moffatt's, etc. The Paper is affixed by a pin to a board in the Thor-ometer Box, and the indications registered at 9 A.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 3rd—as an Ozome entry, the wind is from the North, and the Ozome paper is used as 3 on the schedule will indicate that the Ozome paper is used 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 proposed electrometer is in truth, necessary to every complete meteorological observatory.

The Remarks column is unavoidably too narrow. Some of the most valuable Observations that can be taken are those for which no rules can be given nor hours assigned. The use of contractions ought, therefore, to be taken every advantage of, and a list of such as are in general use is given at the foot of the column. Besides special and extraordinary Observations, the following figures are given in the column to Preserve a constant difference between the upper and lower parts of the column between the Lower and Upper Series of clouds, the Colour of the sky, &c. Remarks ought to be made on the occurrence of Meteors, aurora Borealis, remarkable depressions, elevations, and fluctuations of the Barometer, Thunder-Storms and remarkable falls of Snow, Hail, Rain, the Hour of Storms of Wind commencing, a lining their

maximum, and ending as well, each Notes on Sparrows at the beginning of above. When letter hills are in the vicinity of a Station, the flight of Clouds and of the Snow-line in which should be recorded.

By the use of abbreviations, the state of the weather at 9 A.M. and 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 Observations in Seasons, passes not only great scientific value, but in connection with are of considerable importance in connection with the Periodic Rec 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.

Observers ought to be confined to individual trees and shrubs; particular species of birds, and, in the case of crops to specified

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


[illegible][illegible][illegible]

FOREST TREES.		In	Flower.	Leaf Buds	First Appear.	In
Alder,
Asp,
Beech,
Birch,
Elm,
Larch,
Time,
Oak,
Sycamore or Plane,

Sept.

BOOK POST.

Meteorological Society,
122 George Street,
EDINB



URGH.

[illegible][illegible][illegible]

Apple,	Barberry,	SHRUBS, ETC.	First in
Black C	Broom,		
Cherry,	Hazel,		
Gean,	Hawthorn,		
Holly,	Laburnum,		
Plum,	Lilac,		
Strawbe	Mountain Ash or Rowan,		
	Red Flowering Currant,		
	Rhododendron Ponticum,		
	Whin,		


To the SECRETAR



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SCOTTISH METEOROLOGICAL SOCIETY.

Observations taken at Corstorphine House, County of Edinburgh, in Lat. 55°56'31"N, Long. 3°16'46"W, Distance from Sea 23 miles.Height of Cistern of the Barometer above Mean Sea-Level 165 feet, above Ground 6 feet.During the MONTH of October 1901.

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.				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.		No. of hours in which it fell.	Amount in inches.	9 h. A.M.		9 h. P.M.		Readings of the H. Cup Anemometer.	9 A.M.		P.M.		9 h. A.M.																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																															
		Barometer. No. _____	Attached Thermometer. _____	Barometer. No. _____	Attached Thermometer. _____	Max. No. _____	Min. No. _____	Max. in Sun's rays No. _____	Min. on Grass. No. _____	Dry bulb. _____	Wet bulb. _____	Dry bulb. _____	Wet bulb. _____			Direction.	Force.	Direction.	Force.		Velocity (0-10), and Species.	Amount (0-10), and Species.	Velocity (0-10), and Species.	Amount (0-10), and Species.	No. _____	No. _____					No. _____																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																									
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_____	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. _____	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. _____	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. _____	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. _____	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. _____	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. _____	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. _____	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. _____	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. _____	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. _____	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. _____	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. 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_____	No. _____	No. _____	No. _____	No. _____	No. _____	No. _____	No. _____	No. _____	No. _____	No. _____	No. _____	No. _____	No. _____	No. _____	No. _____	No. _____	No. _____	No. _____	No. _____	No. _____	No. _____	No. _____	No. _____	No. _____

BAROMETER, "corrected Mean" at 9 A.M., minus the Correction $\frac{1}{1000}$ for Temp. (Col. 2), = 29.721

"Corrected Mean" of Barometer at 9 P.M., minus the Correction $\frac{1}{1000}$ for Temp. (Col. 4), = 29.746

Mean at Station, corrected, and at 32°, = 29.658

Correction for height, feet above Mean Sea-level, = 179

Mean, reduced to 32°, and Sea-level, = 29.837

Highest Reading, corrected for Index error, on the 31st, = 30.466

Lowest Do. Do., on the 18th, = 29.016

Difference, or Monthly Range, = 1.450

S.R. THERMOMETER, (in shade, etc.), Highest in Month, (corrected for Index Errors), on the 28th, = 63.4

Lowest in Month, corrected for Index errors, on the 24th, = 29.1

Difference, or Monthly Range, = 34.3

"Corrected Mean" of all the Highest, (Col. 5), = 55.1

"Corrected Mean" of all the Lowest, (Col. 6), = 40.0

Difference, or Mean Daily Range, = 15.1

** Calculated Mean Temperature of Month, = 47.5

S.R. THERMOMETER, Black Bulb in Sun, Highest, (corrected for Index Errors), on the 6th, = 114.1

"Corrected Mean," (Col. 7), of Black Bulb, Max. in Sun, = 89.9

Lowest at Night, Black Bulb (corrected for Index errors), on the 21st, = 22.0

"Corrected Mean," (Col. 8), of Black Bulb, Min. on grass, = 33.6

Difference of above means or range ("exposed"), = 56.3

HYGROMETER, Mean (corrected) A.M. and P.M. Reading of Dry Bulb, (Cols. 9 and 11), = 46.4

Mean (corrected) A.M. and P.M. Reading of Wet Bulb, (Cols. 10 and 12), = 44.1

Computed Temperature of Dew-Point, = 41.5

Do. Elastic Force of Vapour, = 2.62

Do. Weight of Vapour in a Cubic Foot of Air, = 84

Relative Humidity (Saturation = 100), = 84

RAIN fell on 21 Days; Amount in Inches, = 1.76

WIND.

SCOTTISH METEOROLOGICAL SOCIETY.

Observations taken at *Corstorphine House*, County of *Edinburgh*, in Lat. $55^{\circ}56'31''N$, Long. $3^{\circ}16'46''W$, Distance from Sea $2\frac{2}{3}$ miles.Height of Cistern of the Barometer above Mean Sea-Level $165\frac{1}{2}$ feet, above Ground 6 feet.During the MONTH of *November*, 1901.

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.				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.		No. of hours in which it fell.	Amount in inches.	9 h. A.M.		9 h. P.M.		9 A.M.		P.M.		9 h. A.M.				0-10.																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																	
		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. _____	Wet bulb. _____	Dry bulb. _____	Wet bulb. _____			Direction.	Force	Direction.	Force	Readings of the H. Cup Anemometer. No. _____	9 h. A.M.	Velocity (0-6) and Species.	Amount (0-10), and Species.	Velocity (0-6) and Species.	Amount (0-10), and Species.	No. _____		No. _____	No. _____				Temperature of Wells at depth of feet. 380	Temperature at 1 fathom, and Depth.	9 A.M.	9 P.M.																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																									
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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.
hl.	hall.	sq.	squalls.
l.	lightning.	t. s.	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 for Temp. (Col. 2), = 29.883
"Corrected Mean" of Barometer at 9 P.M., minus the Correction \ddagger for Temp. (Col. 4), = 29.874
Mean at Station, corrected, and at 32°, = 29.883
Correction for height, feet above Mean Sea-level, = 185
Mean, reduced to 32°, and Sea-level, = 30.068
Highest Reading, corrected for Index error, on the 25th, = 30.460
Lowest Do. Do., on the 12th, = 29.168
Difference, or Monthly Range, = 1.292

S.-R. THERMOMETER, (in shade, etc.), Highest in Month, (corrected for Index Errors), on the 12th, = 54.5
Lowest in Month, corrected for Index errors, on the 16th, = 22.2
Difference, or Monthly Range, = 32.3
"Corrected Mean" of all the Highest, (Col. 5), = 47.2
"Corrected Mean" of all the Lowest, (Col. 6), = 34.9
Difference, or Mean Daily Range, = 12.3
** Calculated Mean Temperature of Month, = 41.0
S.-R. THERMOMETER, Black Bulb in Sun, Highest, (corrected for Index Errors), on the 12th, = 96.9
"Corrected Mean," (Col. 7), of Black Bulb, Max. in Sun, = 70.8
Lowest at Night, Black Bulb (corrected for Index errors), on the 16th, = 12.8
"Corrected Mean," (Col. 8), of Black Bulb, Min. on grass, = 28.6
Difference of above means or range ("exposed"), = 42.2

HYGROMETER, Mean (corrected) A.M. and P.M. Reading of Dry Bulb, (Cols. 9 and 11), = 40.2
Mean (corrected) A.M. and P.M. Reading of Wet Bulb, (Cols. 10 and 12), = 38.6
Computed Temperature of Dew-Point, = 36.6
Do. Elastic Force of Vapour, = $.216$
Do. Weight of Vapour in a Cubic Foot of Air, = $.88$
Relative Humidity (Saturation = 100), =

SCOTTISH METEOROLOGICAL SOCIETY.

Observations taken at Corstorphine House, County of Edinburgh, in Lat. 55°56'31"N, Long. 3°16'46"W, Distance from Sea 23 miles.
Height of Cistern of the Barometer above Mean Sea-Level 165 feet, above Ground 6 feet.

During the MONTH of December, 1901.

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.		9 P.M.			9 h. A.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 hours in which it fell.	Amount in inches.	Direction.	Force.	Direction.	Force.	Velocity (0-10), and Direction.	Amount (0-10), and Species.		Velocity (0-10), and Direction.	Amount (0-10), and Species.	No.					No.	No.
		* No.	inches.	°	inches.	°	°	°	°	°	°	°	°		°	°	°	°	°	°	°	°		°	°	°					°	°
	1	29.940	54.1	29.884	55.5	50.2	47.7	52.6	44.1	49.6	47.9	47.7	45.6	—	W.	2	W.	2	St. 5	St. 10	—	—	—	—	—	—	—	12. afternoon fair	1			
	2	29.826	53.2	29.912	55.5	50.0	41.4	66.9	37.2	44.5	41.8	42.2	39.9	—	W.	2	W.	1	—	—	—	—	—	—	—	—	—	—	2			
	3	30.050	53.2	30.172	54.8	45.1	33.9	62.9	25.4	36.7	35.0	36.1	35.6	—	S.W.	1	—	—	—	—	—	—	—	—	—	—	—	—	3			
	4	30.136	52.5	29.938	55.0	48.0	35.3	81.6	32.1	44.7	43.5	44.9	42.0	—	W.	5	S.W.	2	—	—	—	—	—	—	—	—	—	—	4			
	5	29.664	51.9	29.720	54.8	49.7	38.1	93.4	31.9	45.4	41.8	39.2	37.2	09	W.	1	W.	1.5	—	—	—	—	—	—	—	—	—	—	5			
	6	29.742	53.4	29.452	55.0	53.1	38.2	53.3	31.7	42.6	40.5	49.8	46.1	10	W.	2	S.W.	4	—	—	—	—	—	—	—	—	—	—	6			
	7	29.432	52.7	29.382	53.2	50.1	38.1	66.6	38.9	45.0	42.9	43.1	40.0	22	W.	1.5	W.	1.5	—	—	—	—	—	—	—	—	—	—	7			
	8	29.100	54.1	29.000	52.8	45.2	34.1	65.7	34.6	42.1	40.0	35.7	33.9	18	N.W.	2	N.W.	1.5	—	—	—	—	—	—	—	—	—	—	8			
	9	29.970	50.7	29.190	50.8	37.0	30.1	50.4	28.4	30.7	30.4	32.2	31.2	09	N.	1	N.W.	1.5	—	—	—	—	—	—	—	—	—	—	9			
	10	29.250	48.9	29.300	50.5	34.9	30.0	57.9	19.4	32.1	31.2	30.6	30.0	—	N.W.	1	N.W.	1.5	—	—	—	—	—	—	—	—	—	—	10			
	11	29.374	48.2	29.524	50.0	37.1	26.2	52.0	16.5	34.0	32.9	27.0	26.3	—	N.	1	N.W.	1	—	—	—	—	—	—	—	—	—	—	11			
	12	29.482	46.8	29.394	48.5	35.1	17.8	57.8	9.5	20.2	19.5	35.2	33.4	20	—	—	N.E.	1.5	—	—	—	—	—	—	—	—	—	—	12			
	13	29.394	46.8	29.444	48.8	38.0	33.0	38.9	25.9	35.3	34.1	34.0	32.9	02	N.E.	2	N.E.	1.5	—	—	—	—	—	—	—	—	—	—	13			
	14	29.686	47.2	29.336	48.5	36.8	31.1	55.1	23.2	34.1	32.0	32.6	30.1	02	N.	1	N.	1	—	—	—	—	—	—	—	—	—	—	14			
	15	29.680	46.2	29.308	47.5	34.8	29.0	45.2	19.6	30.9	29.2	34.8	33.1	03	N.	5	N.	5	—	—	—	—	—	—	—	—	—	—	15			
	16	29.438	46.4	29.558	47.8	36.0	23.9	47.7	15.7	29.0	28.6	24.8	24.5	—	N.	5	N.	1	—	—	—	—	—	—	—	—	—	—	16			
	17	29.240	45.7	29.070	47.2	40.7	23.8	53.0	16.7	38.0	36.5	29.7	28.1	09	N.W.	1	N.W.	1.5	—	—	—	—	—	—	—	—	—	—	17			
	18	28.942	45.6	29.096	47.0	36.1	29.0	77.8	21.3	34.1	32.5	33.1	32.9	—	N.	2.5	N.	1	—	—	—	—	—	—	—	—	—	—	18			
	19	29.200	45.1	29.446	46.5	36.8	24.8	77.5	11.5	25.0	24.6	35.8	34.2	—	—	—	N.	1	—	—	—	—	—	—	—	—	—	—	19			
	20	29.526	45.7	29.526	46.8	36.7	27.8	40.9	14.5	33.1	31.0	33.0	31.9	36	—	—	N.	1	—	—	—	—	—	—	—	—	—	—	20			
	21	29.370	47.3	29.300	48.0	36.1	22.9	53.2	25.5	34.7	33.6	24.0	22.8	—	—	—	N.	1.5	—	—	—	—	—	—	—	—	—	—	21			
	22	29.250	44.5	29.400	46.5	31.1	23.8	40.1	13.3	29.7	29.4	29.4	28.8	04	N.	1	—	—	—	—	—	—	—	—	—	—	—	—	22			
	23	29.286	45.9	28.690	46.8	37.1	25.6	45.2	16.4	32.5	31.6	36.6	34.7	14	W.	1	S.W.	3	—	—	—	—	—	—	—	—	—	—	23			
	24	28.478	45.8	28.484	47.5	38.1	33.0	56.6	26.5	33.5	33.2	36.0	34.6	—	N.W.	5	—	—	—	—	—	—	—	—	—	—	—	—	24			
	25	28.520	46.5	28.718	50.0	37.5	33.5	45.7	24.7	35.1	34.3	37.0	33.9	07	E.	5	N.	1.5	—	—	—	—	—	—	—	—	—	—	25			
	26	28.776	47.5	29.000	49.0	38.8	33.3	48.7	23.5	34.0	32.5	36.0	33.9	—	W.	1	N.W.	1.5	—	—	—	—	—	—	—	—	—	—	26			
	27	29.180	46.2	29.312	47.8	38.1	31.0	62.8	22.3	33.1	31.9	33.8	32.0	—	—	—	N.W.	1	—	—	—	—	—	—	—	—	—	—	27			
	28	29.150	46.0	28.864	49.0	38.8	30.0	37.3	16.9	35.6	33.7	38.2	37.8	57	S.	1	E	1.5	—	—	—	—	—	—	—	—	—	—	28			
	29	28.888	47.2	29.160	48.5	39.8	34.0	60.2	26.4	37.8	37.5	37.2	36.0	08	W.	1	W.	1.5	—	—	—	—	—	—	—	—	—	—	29			
	30	28.992	47.0	29.020	50.0	48.1	34.9	66.3	23.8	40.5	38.8	46.2	44.0	17	S.	2	S.W.	4	—	—	—	—	—	—	—	—	—	—	30			
	31	29.250	49.7	29.424	51.0	47.6	41.3	76.9	35.1	45.7	42.6	42.9	40.6	02	W.	3	W.	1.5	—	—	—	—	—	—	—	—	—	—	31			
Sums.		10 312	262.0	10 624	1550.6	2 254	6.6	1762	752.5	189.5	145.0	1888	138.0	9	3	3			132	121			114	157	1613							
Means.		29.333	48.4	29.343	50.0	40.7	31.5	57.3	24.3	36.1	34.7	36.1	34.4		1.08	1.39			4.3	3.9			35.7	37.9	39.2							
+ Total Corrections for Instrumental Errors.		052		+032																												
+ 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.	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.	" squall.		
f.	" fog.	sc.	" stratus.		
fr.	" frost.	s.	" sleet.		
h. fr.	" hoar-frost.	s.	" snow.		
h.	" haze.	so. ha.	" solar halo.		
h. d.	" heavy dew.	sq.	" squall.		
hl.	" hail.	sqs.	" squalls.		
l.	" lightning.	t.	" thunder.		
li. cl.	" light clouds.	t. s.	" thunder-storm.		
li. sh.	" light showers.	w.	" wind.		
lu. co.	" lunar corona.	g.	" gale of wind.		
lu. ha.	" lunar halo.				

TABLE FOR ESTIMATING FORCE OF WIND.					
Estimated Force, 0-6.	Common Designation.	Estimated Force, 0-6.	Common Designation.	Estimated Force, 0-6.	Common Designation.
0	Calm	1.5	Light breeze	4	Blowing hard
0.5	Very light air	2	Fresh breeze	5	Blowing very hard
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.	sc.	scud.
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.	v.	wind.
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 $\frac{1}{10}$ for Temp. (Col. 2), = 29.279
"Corrected Mean" of Barometer at 9 P.M., minus the Correction $\frac{1}{10}$ for Temp. (Col. 4), = 29.285
Mean at Station, corrected, and at 32', = 29.288
Correction for height, feet above Mean Sea-Level, $\frac{1}{10}$ = 184
Mean, reduced to 32', and Sea-level, = 29.492
Highest Reading, corrected for Index error, on the 3rd, = 30.172
Lowest Do. Do. on the 24th, = 28.478
Difference, or Monthly Range, = 1.694

S.-R. THERMOMETER, (in shade, etc.), Highest in Month, (corrected for Index Errors), on the 6th, = 53.1
Lowest in Month, corrected for Index errors, on the 12th, = 14.8
Difference, or Monthly Range, = 38.3
"Corrected Mean" of all the Highest, (Col. 5), = 40.4
"Corrected Mean" of all the Lowest, (Col. 6), = 31.5
Difference, or Mean Daily Range, = 9.2
** Calculated Mean Temperature of Month, = 36.1
S.-R. THERMOMETER, Black Bulb in Sun, Highest, (corrected for Index Errors), on the 4th, = 81.6
"Corrected Mean," (Col. 7), of Black Bulb, Max. in Sun, = 57.3
Lowest at Night, Black Bulb (corrected for Index errors), on the 12th, = 9.5
"Corrected Mean," (Col. 8), of Black Bulb, Min. on grass, = 24.3
Difference of above means or range ("exposed"), = 33.0

HYGROMETER, Mean (corrected) A.M. and P.M. Reading of Dry Bulb, (Cols. 9 and 11), = 36.1
Mean (corrected) A.M. and P.M. Reading of Wet Bulb, (Cols. 10 and 12), = 34.5
†† Computed Temperature of Dew-Point, = 32.2
†† Do. Elastic Force of Vapour, = 1.83
†† Do. Weight of Vapour in a Cubic Foot of Air, = 86
†† Relative Humidity (Saturation = 100), = 86
RAIN fell on 18 Days; Amount in Inches, = 3.11

WIND.	SUMMARY.											
	Direction.	N	NE	E	SE	S	SW	W	NW	Calm or Variable.	Mean Force.	Mean Velocity in miles per day
A.M.	7	1	1	0	2	1	10	4	5		1.08	
P.M.	8	2	1	0	0	1	6	7	3		1.39	
Mean.	8	1	1	0	1	3	8	5	4		1.23	= 1.51

